

Administration & Programming Manual

iPECS is an Ericsson-LG Brand ERICSSON



Please read this manual carefully before operating System. Retain it for future reference.

Revision History

SW version	ISSUE	DATE	DESCRIPTION OF CHANGES
	1.0	Sep., 2013	Initial Release
	1.1	Dec., 2013	Changed Ericsson-LG to Ericsson-LG Enterprise
1.1.x	1.2	Feb., 2015	Update contents according to S/W integration for both eMG80 & eMG800
1.2.x	1.3	May, 2015	We updated the following features:
			- On-line user guide
			- Terminal attributes (Small popup use, large popup timer, SLT open
			loop time)
			- Web Access Authorization
			- NTP attributes
			- Digit Conversion Table
			- System attributes
			- U-LOOP, PBX code insertion for emergency call
			- Disconnect with Inband information
			- Temp License expiration notify
			- Trace Log via Web
			- Add System Date and Time to Installation wizard
2.0.x	1.4	Jan., 2016	- Added Speed code number plan in PGM100.
			- IPCR announce only for incoming call.
			- Updated Strong password in PGM 160/161.
			- Updated 'Do not overwrite station name in PGM 211.
			- Added Attendant ring mode in PGM 257.
			- Added the more item for Alarm in PGM 163.
			- Added Flexible button default table (PGM 239)
			- Added Preset flexible button default (PGM 240)
			- Added System DST mode in PGM 439.
			- Added LDAP server setting in PGM 160/161.
			- Added Arabic language.
			- Updated Message wait indication LED in PGM 112.
			 Updated Company directory in Station Name Display. Added Station User Greeting in Station Data.
			 Added the search box in Maintenance.
			 Added MOH Management in Maintenance.
			 Updated DB management by adding Comment field.
			- Updated Install wizard
			 DTMF repeat tone does not have nothing to do with PSTN in
			PGM160-15
			 Added Call wait signal and duration in PGM 113.
			 Added some admin (Alternate/Secondary signal port, Local route ID,
			Remote route ID, Sending Name option) in PGM 324.
			 Added SLT Pulse and SLT pulse-MW type in PGM 110.
			- Added Lift Handset for Page & Privacy in PGM 111.
			- Added Short Modem in PGM 112.
			- Added NFC Authorization Code use in PGM 112.
			- Added rel 180 after 183 and "Add 'user=phone' param" in PGM 133.
			- Added Short Modem Timer in PGM 182~182, 186
			 Added Alarm mode to send email to the address in PGM 163.

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			- Added the special character to DB management.
			 Added Ring detection register setting in Analog parameter.
			- Added LCD Dimming for LIP-9000 Series & LDP-9240D in PGM 112.
			- 'Go to assignment' function added to Personal group overview and
			can check the master & member list at a glance.
			- Added Station ICR scenario (1201) to Station Data.
			- Changed the name from UCS Standard to UCS data.
			- Added MOH management in Maintenance.
			- Added Keyset admin password to Install Wizard.
2.0.x	1.5	April, 2016	- 'Unified SMB A&P manual' by integrating eMG and UCP.
2.1.x	1.6	August, 2016	- The type of Speed numbering is added more in PGM 100.
			 'DDNS usage of Firewall' & 'Domain name of Firewall' is added in
			PGM 102.
			- The LCD LED is changed to the option 'MWI/Ring' or 'Ring'.
			- The ACD & CRM function is added for UCS Client: CRM function
			and ACD login/out & ACD On/Off duty in PGM 112.
			- UCS Dialing Rule Use for Standard UCS in PGM 112.
			 UCS Mobile Dial Use (Android) for Standard UCS in PGM 112. The description of CLI Name Display is changed, refer to PGM 113.
			 Display full CLI function is added in PGM 113. SMTP Server Address fills out up to 64 characters in PGM 127.
			 SMTP Server Address fills out up to 64 characters in PGM 127. Proxy Server Address fills out up to 64 characters in PGM 133.
			 The range for ICLID Usage is changed to Disable, CLI, Name/CLI in
			PGM 140.
			- Web hacking block is added in PGM 160; Web admin login failure
			count to block, Web admin hacking block period, Wed admin
			hacking Email notification.
			- UCS Ring ACK count is added in PGM 160 and UCS Ring ACK
			timer is added in PGM 180.
			- SLT Line monitor and SLT Line Monitor time is added in PGM 160.
			- Dial Back to Caller from Remote VM Access is added in PGM 160.
			- Alarm Display is added in PGM 163.
			- The range about Alarm is changed to Off, On, Alarm only,
			Alarm/Email. Especially, the default of Maintenance Expire Notify is
			Email only.
			- Message wait (Call back) for LED flash is added in PGM 170.
			- Outgoing Call type is added for All call or Answered call in PGM 177.
			- Call log/Directory Auto Idle Timer is added in PGM 180.
			- The range of Hot Desk for eMG and UCP is changed in PGM 250:
			eMG80 (100), eMG800 (300), UCP (1200).
			- Advice of Charge is added in PGM 133.
			- SIP Profile is added in PGM 211.
			 Signaling port, TLS Version, First & Second TLS crypto, SRTP usage, First & Second SRTP crypto are added in PGM 212.
			 Interworking system is added in PGM 322.
			 Name option is deleted in PGM 327.
			 Alarm display is added in PGM 335.
			- Firewall IP is added in PGM 441.
			- MS Excel-like table data management (copy/paste from/to the excel
			file, Input/Edit) is to be extended to the following tables.
			- PGM 105 : Flexible Station Number
			- PGM 115/129 : Flexible Buttons

- PGM 202 : MSN Table
- PGM 206 : Prefix Dialing Table
- PGM 443 : Station User Login
- PGM 231 : Flexible DID Conversion
- PGM 262 : System Speed Dial
- PGM 3241 : Net Numbering Plan Table
- PGM 227 : Station/System Authorization Code Table
- PGM 442 : Remote Device Registration
- Station Name Display
- User Greeting is added to Maintenance.
- Company Directory is added to Maintenance.
- Web Certificate is added to Maintenance.
- Custom 1 and Custom 2 are added in Web Access Authorization and
User management.
- Line Echo added to SLT attributes in PGM 112.
- DSS in use added to LED Flashing Rates in PGM 170.
- Multiple Announcement (1~9) is added to IPCR Agent table in PGM
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1. INTRODUCTION

1.1 Manual Application

This document provides detailed information covering the configuration of the eMG/UCP database and maintenance of the eMG/UCP. The manual also details the power-up and initialization routines and the Station Web Portal.

The manual is written for the experienced installer with knowledge of telephony terms, and functions of small and mid-sized business telecommunications systems.

1.2 Manual Organization

This manual is organized in ten (10) major sections including:

- Section 1 Introduction: This section introduces the content and organization of the manual.
- Section 2 System & Admin Information: In this section general information on System capacities, power-up routines and the system initialization process are detailed. Also, this section discusses the process for registration of IP and softphones with the system.
- Section 3 Station Administration for eMG: This section provides details on configuring the eMG system employing a station allowed administrative access. Step by step procedures are given along with brief but concise descriptions of the various configuration parameters and available settings. We recommend that you use Section 4 Web administration.
- Section 4 Web Administration: Similar to the Station Administration section, the Web Administration section gives step by step procedures and descriptions for the configuration parameters and settings available using a Web browser.
 - **Section 4.5 Maintenance**: The Maintenance section provides details on managing the eMG including database upload and download, software upgrade, and user access management using the Web browser interface.
 - **Section 4.6 Station Program**: This section discusses the configuration of the features and functions available in the portal.
 - Section 4.7 On-line web user guide: This section explains the frequent use of features to a user. We didn't describe this section because you can easily get the information on the web by clicking [User's guide] of login page.
- Appendix A: The Station and Attendant Station User Program codes are listed with the associated function. These fixed codes are available at the iPECS IP or LDP phones to configure basic functions such as ring tones, activate features and assign features and functions to Flex buttons.
- Appendix B: A complete listing of the nine basic Flexible Numbering Plans. One is

selected as the system's Flexible Numbering Plan. Each of the basic Numbering Plans includes all feature and resource access codes, and any individual code can be changed.

• **Appendix C**: This Appendix includes a detailed listing of all the configurable parameters by Program group and includes the default values for each parameter. It is only for eMG Station Administration.

2.1 System capacities for eMG and UCP

iPECS eMG is available in several hardware configurations based on the Main board of the KSU. Upon initialization, the software will structure a database for the maximum possible station and CO/IP Line configurations. Thus, the software port count capacities will differ from the hardware count however, the hardware limitations always apply. The total System ports supported by the software include the Station ports, CO/IP Line ports and ports for various options including the integrated AA/VM, Miscellaneous ports, etc. Other than the Station and CO/IP Line ports, the hardware capacities are the same. The capacities relative to the software are provided in the table below.

Item	Capacity
CO/Trunk lines	Max. 74
Stations	Max. 140
Attendants	4
LAN port	2 (1 each, KSU and VVMU)
Modem Channel	1 (MODU)
Serial Port(RS-232C)	1
USB(2.0) Host port	1
Alarm/Doorbell input	2 (1 per KSU)
External Control Relays	2 (1 per KSU)
	1 Internal: select one of 13 melodies
Music Ocumentation	1 External source input
Music Source Inputs	5 SLT ports
	3 VSF announcements
Power Fail Circuit	Max. 6 (1 per KSU, EKSU, CH204, CH408, CS416)
VSF Device 1: Built-in AA/VM	8 channels(2 Chan. by default, 1 Channel by license), 1 hour
w/MEMU	15 hours(no license needed)
w/MEMU2	60 hours(no license needed)
VSF Device 2 (VVMU)	8 channels (by license) & 15 hours(by license), 1 hour(by default)
Conference channels	148 channels/13 party per group
WTIB	1
DECT Phones	48
Built-in VoIP channels	8 (2 channels by default, 6 channels by license)
VVMU VoIP channels	8 (by license)
IP Stations and SIP Trunks	48 port (32 Stations+16 SIP Trunks)
External Page	1 port
Internal Page	35 zones
System Speed Dial	3000 numbers, 25 digits each

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ltem	Capacity
System Speed Dial Zones (Groups)	10 zones
Station Speed Dial	100 per station, 25 digits each (Max. 4000 numbers)
Last Number Redial	10 numbers
Save Number Redial	1 number
DSS Consoles per Station	3
Serial DSS - System	100
Serial DSS – Station (LIP-8000)	4
Serial DSS – Station (LIP-9000)	1
SMDR buffer	5000
CO Line Groups	20
Station & Station Groups	40
Station & Station Group Members	70
Pickup Group	50
Pickup Group Member	140
Conference Groups - System	40
Conference Groups - Station	20 per station
Executive/Secretary pairs	36
Authorization Codes	500 (Station: 140, System: 360)
Transparent Networking Table	15
ICLID Routing table	250
Tenancy (ICM) Group	15
Attendant Station	4
DID Digits Analysis	4
MSN Table	500

Table 2.1-2 eMG800 Software Capacities

Item	Capacity
CO/Trunk lines	Max. 600
Stations	Max. 1200
Attendants	5
LAN port	MPB(1), VOIB(1), VMIB(1)
Modem Channel	1(MODU)
Serial Port(RS-232C)	1
USB(3.0) Host port	1
Alarm/Doorbell input	1
External Control Relays	2 (1 per KSU)
	1 Internal: select one of 13 melodies
Music Source Inpute	1 External source input
Music Source Inputs	5 SLT ports
	3 VSF announcements
Power Fail Circuit	1 port / 1 LCOB
VSF Device	
VMIU	4ch, 1 hours
VMIB	8ch, 100 hours

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ltem	Capacity
Conference channels	148 channels/13 party per group
WTIB	3
DECT Phones	192
Built-in VoIP channels	8 (4 channel by default)
VOIB128 channels	128 (32 channel by default)
IP Stations and SIP Trunks	600
External Page	1 port
Internal Page	100 zones
System Speed Dial	8000 numbers, 25 digits each
System Speed Dial Zones (Groups)	10 zones
Station Speed Dial	100 per station, 25 digits each (Max. 12,000 numbers)
Last Number Redial	10 numbers
Save Number Redial	1 number
DSS Consoles per Station	3
Serial DSS - System	500
Serial DSS – Station (LIP-8000)	4
Serial DSS – Station (LIP-9000)	1
SMDR buffer	30,000
CO Line Groups	200
Station & Station Groups	200
Station & Station Group Members	200
Pickup Group	200
Pickup Group Member	12,000
Conference Groups - System	160
Conference Groups - Station	100 per station
Executive/Secretary pairs	100
Authorization Codes	2,400 (Station: 1,200/System: 1,200)
Transparent Networking Table	32
ICLID Routing table	250
Tenancy (ICM) Group	32
Attendant Station	5
DID Digits Analysis	4
MSN Table	1,500

			<u> </u>	
ITEM	UCP100	UCP600	UCP2400	Remark
Main Cabinet	10 Slots		1 slot used by the PSU	
System channels, basic	50	100	600	
maximum	199	600	2400	w/License
Stations	199	600	2400	Total stations and Lines
CO/IP Lines (external network	100			cannot exceed the available
channels incl. VoIP)	199	600	998	System channels
UCS Standard Clients				
Registrations	100	200	400	
Simultaneous	100	200	400	
UCS Premium Clients	199	600	2400	
Registrations	199	000	2400	
Server Redundancy	No	Yes	Yes	Supports local and remote redundancy
Cabinet Power Redundancy		Yes		
Integrated Telephony ports ^{*1}				Two FXS ports are equipped
standard	2 FXS (SLT)			as standard in the UCP100
optional	4 CO, or 2 BRI	None	None	module; an optional CO/BRI
	or 4 BRI Lines			line unit may be equipped or
				installed.
WTIM4/8 modules (Max.)		132		
Max DECT phones	100	255	255	
VoIP Switch channels, *283				
Built-in basic	2-6	6	0	
Built-in maximum	16	24	0	w/License (8ch increment)
System Maximum	199	600	998	w/VOIM and VCIM
VoIP DSP channels,		0		VoIP DSP channels can be
Built-in max	6	6	0	assigned to the MCIU, 2
Multi-party Conference Unit	6/10/14/18	6/18	0	VoIP = 4 Conf channels. For UCP100 see Note 1.
(MCIU) channels				FOI UCP IOU See Note 1.
Maximum MCIMs		30	1000	
Max SIP channels	100	600	1200	
VSF ^{*4}	8-Ch./4 Hrs.	8-Ch./6Hrs.	NA	
	14 Hours	16 Hours	NA	w/License
UVM capacity, basic		annels at 50 hou		
maximum	16 Cha	annels at 200 ho	ours	w/License
UVM per system		30		
Attendants		50		
Serial Port (RS-232C)		1		
USB Host port	1			
Alarm/Doorbell input				
External Control Relays	1 4			
Music Source Inputs (Ext)				
Power Fail Circuit				
External Page zones				
Internal Page Zones		100		
	12,000			
System Speed Dial		12.000		

Table 2.1-3 UCP System Capacities

ITEM	UCP100	UCP600	UCP2400	Remark
(Groups)				
Station Speed Dial, per Station	100			
Total Station Speed Dial		24,000		
Call park		200		
Last Number Redial		10 (23 digits)		
Save Number Redial		1 (23 digits)		
Standard DSS Consoles/Station		9		
Serial DSS - System		500		
Serial DSS - Station (LIP-8000)		4		
Serial DSS – Station (LIP-9000)		1		
SMDR buffer		30,000		
CO Line Groups		200		
Station & Station Groups		200		
Station & Station Group Members		200		
Pickup Groups		200		
Pickup Group Member		2,4000		
Personal Groups		1200		
Conference Group - System		160		
Conference Group - Station		100		
Executive/Secretary pairs		100		
Authorization Codes	5200 (Stat	tion:2400/Syster	m:2800)	
Transparent Networking Table	100			
CLI Msg Wait (Missed calls)	4,000			
Redundancy	N/A Yes		es	
Flex DID Table	10,000			
MSN table	2,400			
DID Digits Analysis	4			
Tenancy (ICM) Groups	100			
ICLID table	500			

Table 2.1-3 UCP System Capacities

NOTE

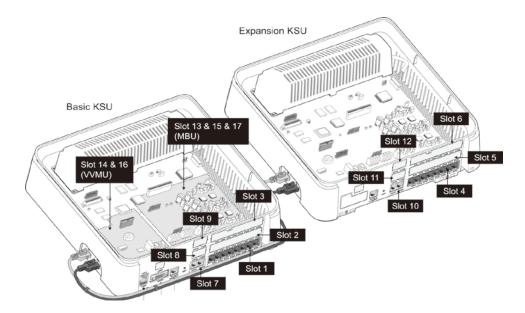
- 1. iPECS UCP-100 is equipped with two (2) FXS ports, and one of several built-in CO Line units may be factory or field installed.
 - 4 analog CO Lines (UCP-COIU4), uses two (2) VoIP DSP channels 2 BRI Lines, 2B+D each, (UCP-BRIU2), uses two (2) VoIP DSP channels 4 BRI Lines, each 2B+D, (UCP-BRIU4), uses four (4) VoIP DSP channels Note the built-in PSTN interfaces require dedicated DSP resources. These DSP resources reduce the maximum VoIP DSP resources available shown in the above chart.
- 2. The built-in VoIP Switching channels implement agent and packet relay functions. Remote device and network interfaces send RTP traffic to the VoIP channel, which forwards traffic to the appropriate local iPECS device. The VoIP Switching channel also forwards multi-cast packets to the remote end-points and local non-iPECS devices. Only the g.711 codec is allowed unless there is an available VoIP DSP channel.

- 3. The number of VoIP Switching channels can be increased to the maximum with license installation.
- 4. Approximately 35 minutes (16 Mbytes) of the VSF and UVM memories are used to provide basic system prompts, the remaining memory can be used for announcements and voice message storage. Note the built-in VSF supports the g.711 Codec only; the UVM supports g.711, g.729, g.723, and g.722 Codecs.

2.2 Slot configuration for eMG80

The built-in interface ports, ports of the optional Interface boards and the optional Function boards are organized into Slots. For the built-in and optional board interfaces two Slots are defined, a Slot for the Stations and a Slot for the CO/IP Lines. The Function boards use a single Slot to identify the board location. The Slots are used during the initialization routines, refer to section 2.3, to identify the installed equipment and establish the numbering for the Stations, CO/IP lines, and Function board channels. An additional Slot (Slot 18) is used by the software to identify the Conferencing channels as a virtual board.

The figure below depicts the Slot locations and Table 2.2-1 lists the Slots, the hardware designation for boards applicable for the Slot and the software reference for the type of interfaces.



Slot	KSU	H/W Reference	S/W Reference
		Built-in KSU Station interface group	
1	KSU	KSUA and KSUI: 1-DKT & 7-Hybrid	HYIB8
		KSUAD & KSUID: 8-DKT &-4 SLT	DSIB12
		CH204 or BH104	HYIB4
2	KSU	CH408, BH208 or HYB8	HYIB8
2	K30	CS416 or SLIB16	SLIB16
		WTIB4	WTIB4
		CH204 or BH104	HYIB4
3	KSU	CH408, BH208 or HYB8	HYIB8
3	K30	CS416 or SLIB16	SLIB16
		WTIB4	WTIB4
4	EKSU	Built-in EKSU Station interface group	
4	EKSU	8-Hybrid	HYIB8
		CH204	HYIB4
5	EKSU	CH408 or HYB8	HYIB8
		CS416 or SLIB16	SLIB16

Table 2.2-1 eMG80 Slot	Configuration	(Standard)
------------------------	----------------------	------------

Slot	KSU	H/W Reference	S/W Reference
		CH204	HYIB4
6	EKSU	CH408 or HYB8	HYIB8
		CS416 or SLIB16	SLIB16
		Built-in KSU Station interface group	
7	KSU	KSUA and KSUAD: 4-CO Line	LCOB4
'	NOU	KSUI & KSUID w/PRIU:	PRIB
		KSUI & KSUID w/BRIU2	BRIB2
		CH204	LCOB2
8	KSU	CH408 or CS416	LCOB4
0	NOU	BH104	BRIB1
		BH208	BRIB2
		CH204	LCOB2
9	KSU	CH408 or CS416	LCOB4
5	NOU	BH104	BRIB1
		BH208	BRIB2
10	EKSU	Built-in EKSU Station interface group	
10	LNSU	4-CO Line	LCOB4
11	EKSU	CH204	LCOB2
	LNSU	CH409 or CS416	LCOB4
12	EKSU	CH204	LCOB2
12	ENSU	CH408 or CS416	LCOB4
13	KSU	Built-in KSU VoIP channels	VOIU
14	KSU	VVMU VoIP channels	VOIB
15	KSU	Built-in 4-port 1-Hour AA/VM	VMIU
16	KSU	VVMU 4-port, 15-hour AA/VM	VMIB
17		Miscellaneous connections	MISU
18	KSU	Virtual Slot for Conferencing channels	

2.3 Initialization

2.3.1 eMG Initialization

The system should be initialized before starting the configuration to assure a known starting point and automatically register installed boards. Also, if the Nation Code requires modification, the system will be initialized in the process so as to establish tones and gains appropriate for the region. You can initialize the system using the Initialization switch (Dip-switch SW1, pole-2) in the KSU or using the software Initialization PGM 450. Note the former must be used to change the Nation Code as detailed section 3.3.1.

Basic Power-Up Routine

When the KSU power switch is turned On or the KSU Reset button is pressed with power ON, the system will initiate the "Power-up" routine. During the Power-Up routine the system checks the Initialization switch and, if the switch is in the Off position, the system will perform the basic Power-up routine; clear all scratch-pad memory, load run-time programs, establish communications with each registered Interface board, Function board, iPECS IP Phone and LDP Phone, send Restart commands and load appropriate settings to the boards and terminals. The KSU also will attempt to communicate and register the EKSU. If a registered board or terminal does not respond after several attempts, the system places the device in an out-of-service mode but maintains the configuration of the device. Once the Power-up routine is complete, the system will conduct normal operations.

Registration of Boards

If the Initialization switch is in the ON position, in addition to the Power-Up routine, the system will perform the full Initialization procedure. During initialization, the system attempts to communicate with the board in each Slot, starting with Slot 1 and progressing sequentially through the slots, to determine the installed equipment. If the board is installed, the Slot number ("Sequence Number") is registered, an "Order number" is determined and the MPB MAC and IP address are assigned. Using "Order number", which is the order that devices of the same type (CO/IP Line, Station, VSF device, etc.) register, the system assigns the Station numbers and CO/IP Line numbers.

An exception to the above is the MAC and IP address of the VOIB which covers the VoIP channels on the VVMU. The VOIB has a separate MAC address and the IP address is assigned from the system. Note this IP address can be modified at a later time.

Once the system is operational and the database configured, the system can be expanded manually by registering the optional boards as detailed in PGM 235, Registration Table.

Initial Station and CO Numbering

The default Station Numbering Plan assigns a Three-digit number to each station port. Starting at the first (left) port of Slot 1, the system assigns the Station Numbers beginning at "100 (eMG80) or 1000 (eMG800)". The Station number increments for each port in the slot, moving to the right until reaching the last port. The process is repeated for each Station slot (1 to 6) in sequence assigning consecutive Station Numbers.

Note the Station Number Plan can be two to four digits and the Station Number for each port can be modified individually.

Slots 7 to 14 are then registered and, since they are CO/IP Lines, the Order numbers 1 to 8 are used to number the CO/IP Lines. The process is repeated for each device type.

IP Phone Registration

Unregistered iPECS IP Phones attempt to discover and register with a local (on the same LAN) iPECS system, in this case the eMG. The phone will send a registration request to the MPB IP address. If no response is received, the phone will send a multi-cast request. With the request, the phone will send the MAC address. This address must be assigned in the PGM 235.

When the system receives the request, the MAC address received is compared to the Registration table and, if matched, the phone is registered, it is given the next available sequence number starting at "19", and assigned the next available Station Number.

If the iPECS IP Phone is configured as a remote device, it will send a registration request to the iPECS system at the configured IP address. When the system receives the request, it is processed normally except the MAC address must be assigned in PGM 442 Remote Device Register.

Default Database

Based on the installed equipment, the system populates the database with the default values, refer to Appendix C based on Keyset administration as numbering plan 1. Once the database is set to default, the system will conduct normal operations.

2.3.2 UCP Initialization

When power is applied to the UCP or the UCP Reset button is pressed, the system will initiate the "Power-up" routine. During the Power-Up routine, the system will check the Initialization switch (pole 4th of UCP Mode Dip Switch). If the switch is in the OFF position, the system will perform a simple Power-Up routine; clear all scratch-pad memory, load run-time programs, establish communications with each registered gateway Module and iPECS terminal, send RESTART commands and load appropriate settings to the Modules and terminals. If a Module or terminal does not respond after several attempts, the system places the device in an out-of-service mode but maintains the database settings. Once the Power-up routine is complete, the system will conduct normal operations.

If the Initialization switch is in the ON position, in place of the Power-Up routine, the system will perform the full Initialization procedure. The initialization procedure will set the system database to default values. Further, during the full initialization procedure, the system will establish communications with each gateway Module and iPECS terminal for registration. This communication will use the default device IP address and the UCP MAC address for system identification. The system will maintain IP addresses and Sequence Numbers for previously registered gateway Modules and iPECS terminals. These values are employed for subsequent communication and logical assignments of numbering plans, respectively. In addition, the system sends commands to modify all settings to the default values, including IP addresses but maintains the existing Sequence Numbers.

After successful initialization, should a device not respond to several attempts by the system to communicate, the system places the device in an out-of-service mode but maintains the database. Once initialization is complete, set the initialization switch to the OFF position to protect the database. The system must be restarted to complete the initialization.

2.3.2.1 Normal Registration Process

Module & Terminal

When power is applied and an Ethernet link is established, an unregistered device will attempt to discover and register with a local (on the same LAN) iPECS system. The Module or terminal will send a registration request to the assigned iPECS system (UCP) IP address. If no response is received, the device will generate a Multi-cast discovery request for registration.

Remote iPECS Phone & Remote Services Module

A remote device, iPECS Phone or gateway Module, registers with the system using the MAC address of the device. The MAC address must be assigned in the system database and the IP address of the system must be assigned in the remote device. Using this address, the remote device will attempt to register with the assigned iPECS system. When the system receives the registration request, the MAC address is compared with the database to authenticate the remote device. With a matching MAC, the system will accept the registration request and provide the remote device with the appropriate settings. Note that the position of the UCP Registration switch does not affect remote registration.

iPECS Softphone or SIP Phone

iPECS softphones (iPECS UCS Client) and SIP phones register with the system employing the User Id and Password. When the system receives the registration request, the Id and password are compared to the Station Login parameters. If a match is found in the Station Login Table, the system registers the device and assigns the phone the Station Number requested (Desired number), if available. As with remote registration, the position of the UCP Registration switch will not affect Softphone or SIP Phone registration.

iPECS system

When power is applied, an Ethernet link is established, and the Registration switch (UCP DIP Switch position 3) is in the ON position, the UCP will send a Multi-cast request to unregistered gateway Modules and iPECS terminals for registration.

When the system receives a valid registration or discovery request, and the Registration switch (UCP DIP Switch position 3) is in the ON position, the system will respond to the gateway Module or terminal with a Registration command including the system IP and MAC address. During the registration process, the Module or terminal will receive data from the system including a Sequence Number, IP address, RTP characteristics, etc., as well as default settings appropriate to the type of Module or terminal. Once registered, the Module or terminal will maintain the system IP and MAC address in non-volatile memory and will not attempt further registrations.

If the Registration switch is in the OFF position, the system will not respond to normal registration requests from a local device.

Sequence Number

Sequence numbers are allocated to the different device types and are assigned sequentially to devices of the same type as shown in the Table 2.3.1 below.

Device Type	Start Sequence Number And	End Sequence Number
Station	1	2400
CO line	2401	3000
VSF	3001	3100
MISC	3101	3200
MCIM	3201	3230
UCS server	3231	3246
IPCR and 3 rd party server	3247	3256
WTIM	3257	3388

2.3.2.2 Replacement Module Registration

Under certain situations, it is necessary to force the registration of gateway modules and terminals specifically when an UCP, gateway Module or iPECS Terminal is replaced. When replacing a UCP module, gateway Modules and iPECS terminals must be forced to register with the new system. With Module or terminal replacement, the system must recognize the "replacement" status to transfer the existing database values.

When replacing a UCP, the local Web interface is used to access the system. The user may update the system database using the database downloaded from the previous UCP memory.

Using the Terminal mode Command Line interface ("maint > reset ip"), the user provides the new UCP with the IP address of the previous UCP, and issues the Register command. The new system will then send a Uni-cast Register command to each gateway Module and iPECS terminal registered to the previous system. This Register command will include the previous system IP address. These commands are repeated several times only. As communication is established, the new UCP will update the settings of the gateway Modules and iPECS terminals appropriately. When the gateway Modules and terminals respond, they are registered to the new system.

When replacing a gateway Module, use PGM 103 "Device IP Plan" in Web admin to change the service mode to "Out of Service", change the MAC information for the new module, change the service mode to in-service and install the new gateway Module.

When replacing an iPECS terminal, using PGM 103 "Device IP Plan" in Web admin change the service mode to "Out of Service" change the MAC information for the new iPECS terminal, change the service state to in-service, and install the new terminal.

2.4 General Admin and Menu Structure

The iPECS system can be configured to meet each customer's individual needs. System configuration may be accomplished by entering the "Program mode" at an assigned Admin Station or by pointing a Web Browser at the IP address of the MPB/UCP. Section 3 provides a description of eMG system for data entry using the Admin Station. Section 4 discusses configuration employing the Web browser. Note that some parameters are available through Web Admin and not the Keyset Admin.

Configurable items are organized as "Data" groups with a common affect, i.e. station, system, numbering plan, etc. Items are further grouped into "Programs" forming a multi-layered menu structure as the following list. Each of the Program groups is assigned a three digit "Program" (PGM) code used to access the group. The top level Data groups include:

- System ID & Numbering Plans
- Station Data
- Board Based Data
- CO Line Data
- System Data
- Station Group Data
- ISDN Line Data
- SIP Data
- Tables Data
- Networking Data
- H.323 Routing Table
- T-NET Data
- Zone Data
- Device Login
- UCS Data
- DECT Data
- Redundancy Data (for UCP600 & UCP2400)
- Hotel Data
- Green Mode for eMG
- Initialization

The default and range of values for each configurable parameter are provided in Section Web admin programming. The index and charts are helpful references when entering data into the system's database.

3. STATION ADMIN PROGRAMMING FOR EMG

3.1 General

3.1.1 LCD & Button Functions

While in the Program mode, the Liquid Crystal Display (LCD) and Flex button LEDs of an Admin Station are used to guide and indicate status of the feature. The dial-pad is most often used to enter data after selecting a data item using the Flex buttons. In some cases, pressing a Flex button will toggle the entry with the Flex button LED indicating the status (On/Off).

For Programs with multiple Flex button selections, the volume controls (**[VOL UP]** and **[VOL DOWN]** buttons) may be used to select the next or previous item. The **[SPEED]** button is generally employed as a delete button to erase existing entries. However, where noted, it may be used to confirm a range input. Pressing the **[CONF]** button, returns to the 1st step of the data entry procedure for the Program without storing unsaved entries.

The **[Save]** button is used to store data after entry. If there are no conflicts in the entered data, confirmation tone will be received and the data stored. If a conflict exists, error tone is provided and newly entered data are not saved. Generally, corrected data may be entered and stored without restarting the entry procedure from the 1st step.

3.1.2 Alphanumeric Data Entries

In some cases, an alphanumeric entry is required. Two (2) dial-pad digits represent each character of an alphanumeric entry, as shown in Table 3.1.2–1 below. Use the Table to determine the two digits that must be entered from the dial-pad for each character.

J	2					
	1	Q – 11	2	A - 21	3	D - 31
		Z – 12		B - 22		E - 32
		. – 13		C - 23		F - 33
		1 – 10		2 - 20		3 - 30
	4	G – 41	5	J - 51	6	M - 61
		H - 42		K - 52		N - 62
		I - 43		L - 53		O - 63
		4 - 40		5 - 50		6 - 60
	7	P - 71	8	T - 81	9	W - 91
		R - 72		U - 82		X - 92
		S - 73		V - 83		Y - 93
		Q - 7*		8 - 80		Z - 9#
		7 - 70				9 - 90
	*	Blank - *1	0	0-00	#	#
		: - *2				
		, - *3				

Table 3.1.2-1 ALPHANUMERIC DIAL-PAD ENTRIES

3.2 Data Entry Mode

Limited data entry can be accomplished from an Admin Station or station assigned for data entry (Station Attributes III PGM 113, Flex button 1). After initialization and registration, any enabled iPECS IP or LDP Phone may access the system database. In addition, as default, there is no Station Admin password defined. To enter the Program mode from the Admin Station follow the procedure below. In the left column of the chart are the LCD displays and in the right column are step-by-step instructions to modify database items.

PROCEDURE:	
STATION 100 (T) 04 SEP 01 02:49 PM	 Press the [PGM] button. Dial '*' and '#'.
ENTER ADMIN PASSWORD	Enter the Admin password. Confirmation tone is received. As a default there is no password and this step is skipped.
ADMIN PROGRAM START	
ENTER PGM NUMBER	To select a program, use the instructions in the following sections, starting with "Press the [PGM] button" and dial the specified Admin Program code.

3.3 Procedure for Data Entry

The following sections provide specific instructions for entering data from the Admin Station once in the Program mode. Each section provides descriptive information, step-by-step instructions and Tables for determining appropriate entries.

3.3.1 System ID — PGM 100

Under System ID, the country is identified using the international dial codes (NATION CODE). If the NATION code requires changing, the system must be initialized to restructure memory and create the country specific defaults, gain, frequencies and other system characteristics specific to the country and regional regulatory requirements.

To change the NATION Code on eMG:

- Set the MPB Dip-switch 1 pole 2 to the ON position,
- Follow the procedure below to modify the NATION code
- Press the reset button on the KSU, power the system Off and On, or use PGM 450 to initialize the system.
- After initialization, reset switches as needed, Dip-switch 1 pole 2 should be OFF.

A twenty-four (24) character SITE NAME and the local Area Code are also defined in this program. The SITE NAME is primarily useful for the installer/programmer as a reference to the customer.

In addition, under this program the system can be programmed to select one of eight (8) Flexible Number Plans, refer to Appendix B. Individual items from the selected Numbering Plan can be changed under Flexible Numbering Plan part A to D - PGM 106 to 109- in section 3.3.2.5.

PROCEDURE:	
SYSTEM ID PRESS FLEX KEY (1-6)	1. Press the [PGM] button and dial 100.
	Select the desired Flex button (1~5), refer to Table 3.3.1-1. For COUNTRY CODE, refer to Table 3.3.1-2 for appropriate entries.
	Use the dial-pad to enter desired System Id data. For System Reset, button 5, press [Save] to reset the System Id to default.
	To store the System Id data press the [Save] button.

Table 3.3.1-1 SYSTEM ID (PGM 100)

BTN	- DISPLAY	– DISPLAY REMARK		DEFAULT
1	COUNTRY CODE 1	Refer to Table 3.3.1-2 below. Note system must be re-initialized if changed.	4 digits	1

BTN	- DISPLAY	REMARK	RANGE	DEFAULT
2	CUSTOMER SITE NAME	Refer to Table 3.1.2-1 for alphanumeric dial-pad entries.	24 character	
3	MY MULTI AREA CODE ENTER TABLE NO(00-40)	Enter the area code of the installed site.	6 digits	
4	NUMBERING PLAN (1-9) 1	Refer to Appendix B for details of Numbering Plan selection.	1-9	1
5	PREFIX USAGE (1:ON/0:OFF) : OFF	Enable/Disable 8-digit Station Numbering Plan. Assign the Prefix codes in the 8- Digit Numbering Table (PGM238).	0: OFF 1: ON	OFF
6	SYSTEM ID SYSTEM RESET	Returns the System Id to default.		

Table 3.3.1-1 SYSTEM ID (PGM 100)

Table 3.3.1-2 COUNTRY CODES

COUNTRY	CODE	COUNTRY	CODE	COUNTRY	CODE
America	1	Argentina	54	Australia	61
Bahrain	973	Bangladesh	880	Belgium	32
Bolivia	591	Brazil	55	Brunei	673
Burma	95	Cameroon	237	Chile	56
China (Taiwan)	886	CIS	7	Colombia	57
Costa Rica	506	Cyprus	357	Czech	42
Denmark	45	Ecuador	593	Egypt	20
El Salvador	503	Ethiopia	251	Fiji	679
Finland	358	France	33	Gabon	241
Germany	49	Ghana	233	Greece	30
Guam	671	Guatemala	502	Guyana	592
Haiti	509	Honduras	504	Hong Kong	852
India	91	Indonesia	62	Iran	98
Iraq	964	Ireland	353	Israel	972
Italy	39	Japan	81	Jordan	962
Kenya	254	Korea	82	Kuwait	965
Liberia	231	Libya	218	Malta	356
Luxembourg	352	Malaysia	60	Morocco	212
Mexico	52	Monaco	377	Nigeria	234
Netherlands	31	New Zealand	64	Pakistan	92
Norway	47	Oman	968	Paraguay	595
Panama	507	P.N.G	675	Portugal	351
Peru	51	Philippines	63	Senegal	221
Qatar	974	Saudi Arabia	966	Spain	34
Singapore	65	South Africa	27	Sweden	46
Sri Lanka	94	Swaziland	268	Tunisia	216
Switzerland	41	Thailand	66	United Kingdom	44
Turkey	90	U.A.E.	971	Y.A.R.	967
Uruguay	598	Venezuela	58		

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3.3.2 NUMBERING PLANS DATA — PGM 102 to 109

3.3.2.1 System IP Address Plan — PGM 102

The System IP Address Plan sets several IP addresses including the KSU LAN port IP address (MPB IP Address) required for external VoIP calls, the IP address for the router, and the system's internal private IP address Plan. Note that the MPB and Router addresses and sub-net mask must be a routable IP address for access to an external VoIP network, remote access by a gateway/board or terminal and remote Web access. The VOIB must also have a routable IP address for access to or remote user.

When Automatic IP Assignment, button 7, is enabled, the system will assign IP addresses to each local terminal and the VOIB using the assigned System IP address range. These addresses are used for communications between the system and the VOIB and terminals.

The system may be connected to a LAN that is segmented by two separate private IP address schemes. This segmenting technique is often used to separate voice and data devices. However, with this segmenting technique, the system would normally treat the segmented Terminals such as iPECS Soft Phones, as remote devices, using valuable WAN bandwidth.

Assigning the "Second Sys IP address" with valid IP address from the second segment permits the system to communicate with the devices directly over the LAN.

iPECS can be installed behind a NAPT server, if the NAPT server provides fixed address translation and port forwarding to the system. In this case, the system will employ the "Firewall IP address", button 10, as the fixed public IP address for communication with remote devices. This address must be assigned as the "MPB" address in the remote device.

PROCEDURE:	
SYSTEM IP ADDRESS PLAN PRESS FLEX KEY (01-17)	1. Press the [PGM] button and dial 102.
	Select the desired button 1~19, refer to Table 3.3.2.1-1.
Use the dial-pad to enter desired IP addresses. Use ar enter a dot (".")	
	Press the [Save] button to store IP address entries.

Table 3.3.2.1-1 SYSTEM IP ADDRESS PLAN (PGM 102)

BTN	DISPLAY	DEFAULT	REMARK
1	MPB IP ADDRESS 10 . 10 . 10 . 2	10.10.10.2	This is the IP address of the KSU LAN port A. A Public IP Address is required for remote user and external VoIP network access. IPv4 format.
2	MPB SUB NET MASK 255.255.255.0	255.255.0.0	
3	ROUTER IP ADDRESS 10 . 10 . 10 . 1	10.10.10.1	IP Address of router for external network (WAN) access. Required for shared voice and data LAN, external VoIP and remote Web access.
4	SYSTEM START IP ADDRESS 10.10.10.10	10.10.10.10	Start of range for private IP addresses assigned by the system to Modules/Terminals.

BTN	DISPLAY	DEFAULT	REMARK
5	SYSTEM END IP ADDRESS 10.10.10.254	10.10.10.254	End of range for private IP addresses assigned by the system to Modules/Terminals.
6	SYSTEM SUB NET MASK 255.255.255.0	255.255.0.0	
7	AUTOMATIC IP ASSIGN (1:ON/0:OFF): ON	ON	The system will automatically assign IP addresses to modules and terminals (ON) or, when OFF, IP addresses are assigned manually in PGM 103 Device IP Address Plan.
8	SECOND SYS IP ADDRESS 0 . 0 . 0 .0	0.0.0.0	When devices are located on a different private address on the same net, enter the MPB IP address for the second LAN.
9	SECOND SYS SUB NET MASK 255.255.255 .0	255.255.255.0	
10	FIREWALL IP ADDRESS 0 . 0 . 0 .0	0.0.0.0	When the system is installed behind a NAPT server, the fixed IP Address provided by the NAPT server must be assigned in this field. Also, use this IP address for the MPB address in remote devices.
11	FIRST START MAC ADDR 000000000000	00.00.00.0 0.00.00	A range of MAC addresses can be entered to register devices. This entry is the start address of the first range.
12	FIRST END MAC ADDR 00000000000	00.00.00.0 0.00.00	A range of MAC addresses can be entered to register devices. This entry is the end address of the first range.
13	SECOND START MAC ADDR 000000000000	00.00.00.0 0.00.00	A range of MAC addresses can be entered to register devices. This entry is the start address of the second range.
14	SECOND END MAC ADDR 000000000000	00.00.00.0 0.00.00	A range of MAC addresses can be entered to register devices. This entry is the end address of the second range.
15	SYSTEM IP ADDRESS PLAN SYSTEM RESET		Returns System IP Address Plan to default values.
16	MPB DNS IP ADDR 0 . 0 . 0 .0	0.0.0.0	IP Address of Domain Name Server, which iPECS will use to resolve URL to an IP address. The DNS provides the resolution after receiving the name from iPECS.
17	MPB DHCP (1:ON/0:OFF) : OFF	OFF	Enable/Disable DHCP client function for the MPB.

Table 3.3.2.1-1 SYSTEM IP ADDRESS PLAN (PGM 102)

3.3.2.2 Device IP Address Plan -PGM 103

TDM board is registered with own slot number. It is registered automatically without any configuration.

To register an IP device:

As IP gateway/board and terminals register to the iPECS, a logical slot number is assigned, which indicates the order of registration. Also, based on the type of device (CO/IP gateway/board, Terminal) the system assigns a logical Sequence Number. Thus, Sequence Numbers for CO gateway/board, Terminals are independently assigned based on the type of gateway/board. These Sequence Numbers are employed to provide a relationship between the physical MAC address and the logical port numbers of the device.

The system may assign a default private IP address to each Sequence Number. If desired, this program may be used to modify the assigned IP address for each gateway/board and iPECS Phone.

Each local gateway/board and terminal can be assigned for "Direct Send". With Direct Send enabled, the system will employ the Ethernet MAC address, layer 2 switching to eliminate the need for IP traffic overhead, reducing overall LAN traffic.

The system normally employs IP multi-cast protocol to respond to a registration request from a gateway/board or terminal. When the device is separated from the system by a router, the system must use the IP uni-cast protocol. This is established by the "Local Device" assignment.

When disabled (Off), the system will send an IP uni-cast message to the device in response to a registration request.

PROCEDURE:	
DEVICE IP ADDRESS PLAN PRESS FLEX KEY (1-7)	1. Press the [PGM] button and dial 103.
	Select the desired Flex button.
	Button 1: CO & VOIP Gateway/Board
	Button 2: Stations
	Button 3: MISU
	Button 4: VMIU, VMIB
	Button 5: MCIB
	Button 6: SYSTEM RESET
	Button 7: WTIB
	Use the [VOL UP] and [VOL DOWN] buttons to see next/ previous IP Address. Refer to Table 3.3.2.2-1 for display information.

PROCEDURE:	
	Press Flex 1~6 to select the Sub-menu item desired. See Table 3.3.2.2-1.
	Button 1: IP address
	Button 2: MAC address
	Button 3: ARP
	Button 4: REGISTRATION
	Button 5: CPU Type
	Button 6: Device (Board) ID
	Use the dial-pad to enter desired data. For IP and MAC addresses, an "*" is used to enter a dot (".")
	Press the [Save] button to store the data entry.

BTN	DISPLAY	FEATURE	DEFAULT
1	001-001 :B40EDCBF5606 VOIP 1 :10 .10 .10 .2	LCD shows: Line 1 Sequence Number, 2 or 3 digits MAC Address, 12 digits Line 2 Module Type, 4 characters First Logical port number IP Address, 7~12 digits	CO & VoIP board IP address set sequentially, from the range in PGM 102.
1–1	SET IP ADDRESS VOIP 1 : 10.10.10.2	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254
1–2	SET MAC ADDRESS 001-001 : B40EDCBF5606	Use Flex button 2 to enter the device's MAC address in the system memory.	None
1–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
1–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
1–5	CPU TYPE MSC1K	Flex button 5 displays the type of CPU employed in the device.	
1–6	DEVICE(BOARD) ID PRIB	Flex button 6 displays the Board type designation.	
2	001-001 : B40EDCBF5606 KTU 100 :10.10.10.10	LCD shows: Line 1 Sequence Number, 3 digits MAC Address, 12 digits Line 2 Station Type, 3 characters Station Number, 2~4 digits IP Address, 7~12 digits	Station IP address set sequentially, from the range in PGM 102.
2–1	SET IP ADDRESS KTU 100 :10.10.10.10	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254

BTN	DISPLAY	FEATURE	DEFAULT
2–2	SET MAC ADDRESS 001-001 : B40EDCBF5606	Use Flex 2 button to enter the device's MAC address into system memory.	None
2–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
2–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
2–5	CPU TYPE MSC1K	Flex button 5 displays the type of CPU employed in the device.	
2–6	DEVICE(BOARD) ID HYIB	Flex button 6 displays the terminal type designation.	
3	001-017 : B40EDCBF5606 MISU :10.10.10.2	LCD shows: Line 1 Sequence Number, 2 digits MAC Address, 12 digits Line 2 "MISU" IP Address, 7~12 digits.	IP address of MISU. Functions in the system's MPB set automatically,
3–1	SET IP ADDRESS MISU :10.10.10.2	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254
3–2	SET MAC ADDRESS 001-003 : B40EDCBF5606	Use Flex button 2 to enter the device's MAC address into system memory.	None
3–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
3–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
3–5	CPU TYPE MSC1K	Flex button 5 displays the type of CPU employed in the device.	
3–6	DEVICE(BOARD) ID MISU	Flex button 6 displays the MISU type designation.	
4	001-015 : B40EDCBF5606 VMIU :10.10.10.2	LCD shows: Line 1 Sequence Number, 2 digits MAC Address, 12 digits Line 2 device type and IP address.	
4–1	SET IP ADDRESS VMIU :10.10.10.2	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254

BTN	DISPLAY	FEATURE	DEFAULT
4–2	SET MAC ADDRESS 001-015 : B40EDCBF5606	Use Flex button 2 to enter the device's MAC address into system memory.	None
4–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
4–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
4–5	CPU TYPE MSC1K	Flex button 5 displays the type of CPU employed in the device.	
4–6	DEVICE(BOARD) ID VMIU	Flex button 6 displays the type designation.	
5	001-018 : FFFF0000FFFF MCIB : 10 .10 .10 .2	LCD shows: Line 1 Sequence Number, 2 digits MAC Address, 12 digits Line 2 device type and IP address.	
5–1	SET IP ADDRESS MCIB :10.10.10.2	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254
5–2	SET MAC ADDRESS 001-018 : FFFF0000FFFF	Use Flex button 2 to enter the device's MAC address into system memory.	None
5–3	ARP (1:ON/0:OFF): OFF	Use Flex button 3 to enable/disable Direct Send mode, which employs layer 2 switching to local devices.	OFF
5–4	REGISTRATION (0:UCAST/1:MCAST): MCAST	Use Flex button 4 to enable/disable Local Device Mode, which defines the device as on a common LAN with the MPB.	MCAST
5–5	CPU TYPE MS828	Flex button 5 displays the type of CPU employed in the device.	
5–6	DEVICE(BOARD) ID MCIB_V	Flex button 6 displays the type designation, MCIB_V.	
6	DEVICE IP ADDRESS PLAN SYSTEM RESET	If the [Save] button is pressed, the system will reset and restart.	
7	001-003 : 00405A142C67 WTIB : 10:10:10:14	LCD shows: Line 1 Sequence Number, 2 digits MAC Address, 12 digits Line 2 "WTI4" and IP Address, 7~12 digits.	
7–1	SET IP ADDRESS WTIB :10.10.10.14	Use Flex button 1 to set the device's IP address in IP v4 format.	10.10.10.10~254

BTN	DISPLAY	FEATURE	DEFAULT
7–2	SET MAC ADDRESS 001-003 : 00405A142C67	Use Flex button 2 to enter the device's MAC address into system memory.	None
7–3	ARP (0:ON/1:OFF): OFF	Use Flex button 3 to enable/disable ARP, ARP OFF enables Direct Send, which employs layer 2 switching to local devices.	OFF
7–4	REGISTRATION (0:UCAST/1:MCAST):MCAST	Use Flex button 4 to disable/enable Local Device Mode, which defines the device as on a common LAN with the system. MCAST enables Local Device Mode.	MCAST
7–5	CPU TYPE MS828	Flex button 5 displays the type of CPU employed in the device.	
7–6	DEVICE(BOARD) ID WTIB	Flex button 6 displays the type designation, WTIB.	

3.3.2.3 CO Device Sequence Number -PGM 104

The system uses the Sequence Number to assign logical (software) port numbers. This Sequence Number relates the hardware and software port numbers for each device.

PROCEDURE:	
001 002 003 004 005 006 009 007 008 013 014	1. Press the [PGM] button and dial 104.
001 002 003 004 005 006 009 007 008 013 014	Press the Flex button (1~6) for the desired Sequence Number, use the [VOL UP] and [VOL DOWN] buttons for the next/previous set of six Sequence Numbers.
001 002 003 004 005 006 009 007 008 013 014	Using the dial pad, enter new slot numbers. Note slot numbers cannot be duplicated and duplicates will cause an error. The [SPEED] button may be used to erase the slot number associated with the selected Sequence Number.
	Press the [Save] button to store the new Slot data.

3.3.2.4 Flexible Station Numbering Plan -PGM 105

Each LDP Phone, iPECS IP Phone and SLT is assigned a Sequence Number during the registration process. The station Sequence Number is a 3-digit number starting at 001, which is incremented as each terminal device is registered. At registration, station numbers increment sequentially with the Sequence Number and are assigned starting at station 100 for Sequence Number 001. The Station Numbering Plan allows the station numbers to be Three (3) to eight (8) digits in length.

PROCEDURE:	
001 002 003 004 100 101 102 103	1. Press the [PGM] button and dial 105.
	Use either of the two methods below to change the station number associated with a Sequence Number. Note pressing the [SPEED] button twice clears all station number assignments. The [VOL UP] / [VOL DOWN] buttons are used to view the next/previous 2 station Sequence Numbers.
	Range entry: Using the dial-pad, enter a station number range (first & last station number). The two station numbers must be of the same length, 2~8 digits. The range assignment begins with the first station number shown by the LCD and continues to the end of the entered range.
	Single entry: 4.1 Press Flex button 1~4 to select the desired Sequence Number from the two shown by the LCD. 4.2 Dial new station number.
	•

3.3.2.5 Flexible Numbering Plan part A to D - PGM 106 to 109

Feature dial codes for the system can be assigned using the system's Flexible Numbering Plan. Feature codes should be one (1) to four (4) digits in length and must not conflict. For example, Feature dial codes 53 and 536 represent a conflict. The system will generate error tone and will not update the database. Table 3.3.2.5-1 to Table 3.3.2.5-4 below show the defaults for the 1st base Numbering Plan. Appendix B provides the default values for each of the 9 basic Numbering Plans, select the base Numbering Plan in PGM 100. The default is based on Numbering plan 1.

PROCEDURE:	
FLEX NUMBERING PLAN A PRESS FLEX KEY (01-24)	 Press the [PGM] button and dial: 106 for part A 107 for part B 108 for part C 109 for part D.
	Select the desired button (01~24); refer to Table 3.3.2.5-1 to Table 3.3.2.5-4 for PGM 106 to 109 respectively.
	Use the dial-pad to enter desired data. Where a range is required, input the first and last numbers in the range.
	Press the [Save] button to store the new Numbering Plan data.

Table 3.3.2.5-1 FLEXIBLE NUMBERING PLAN PART A (PGM 106)

BTN	DISPLAY	FEATURE	DEFAULT
1	INT PAGE ZONES START& END:301-335	Internal Page Zone access codes.	eMG80:301~335 eMG800:301~400
2	INT ALL CALL ENTER NEW #:543	Internal All Call Page access code.	543
3	MEET ME PAGE ENTER NEW #:544	Meet-Me-Page answer code.	544
4	EXT PAGE ZONE 1 ENTER NEW #:545	External Page Zone 1 access code.	545
5	UNUSED		
6	EXT ALL CALL ENTER NEW #:548	External All Call Page access code.	548
7	ALL CALL PAGE ENTER NEW #:549	All Call Page access code.	549

BTN	DISPLAY	FEATURE	DEFAULT
8	SMDR ACT CODE ENTER ENTER NEW #:550	Dial code to signify the start of an SMDR Account Code.	550
9	FLASH CMD TO CO ENTER NEW #:551	Dial code to generate a Flash on the active CO Line.	551
10	SLT LAST SPD DIAL ENTER NEW #:552	SLT Last Number Redial feature access code.	552
11	DND ENTER NEW #:553	Dial code to activate Do-Not-Disturb.	553
12	CALL FWD ENTER NEW #:554	Dial code to activate Call Forward.	554
13	SPD DIAL PGM ENTER NEW #:555	Speed Dial programming access dial code for SLTs.	555
14	MSG WAIT ENABLE ENTER NEW #:556	Dial code to activate a Message Wait/Call Back.	556
15	MSG WAIT RETURN ENTER NEW #:557	Dial code to return a Message Wait/Call Back.	557
16	SPD DIAL ACCESS ENTER NEW #:558	SLT Speed Dial access code.	558
17	DND/FWD CANCEL ENTER NEW #:559	Dial code to cancel DND/FWD/MSG Wait.	559
18	CO SYS HOLD ENTER NEW #:560	Dial code to place a CO call on System Hold.	560
19	SLT PGM MODE ENTER ENTER NEW #:561	User program mode entry dial code for SLTs.	561
20	ATTD UNAVAILABLE ENTER NEW #:562	Dial code to place attendant in the "unavailable" mode, attendant only.	562
21	ALARM RESET ENTER NEW #:565	Dial code to terminate Alarm contact signal.	565
22	GROUP CALL PICK-UP ENTER NEW #:566	Group Call Pick-up dial code.	566
23	UNIVERSAL ANSWER ENTER NEW #:567	Universal Night Answer dial code.	567

Table 3.3.2.5-1 FLEXIBLE NUMBERING PLAN PART A (PGM 106)

BTN	DISPLAY	FEATURE	DEFAULT
24	ACCNT CODE WITH BIN ENTER NEW #:568	Dial code for entering an Account code.	568

Table 3.3.2.5-2 FLEXIBLE NUMBERING PLAN PART B (PGM 107)

BTN	DISPLAY	FEATURE	DEFAULT
1	WALKING COS ENTER NEW #:569	Dial code to activate Walking Class-of- Service.	569
2	ACD AGENT ON/OFF DUTY ENTER NEW #:571	Dial code to toggle ACD Agent or Supervisor ON and OFF duty.	571
3	ACD SUPERVISOR LOGIN ENTER NEW #:572	Supervisor login dial code.	572
4	ACD SUPERVISOR LOGOUT ENTER NEW #:573	Supervisor logout dial code.	573
5	ACD HELP CODE ENTER NEW #:574	Agent code requesting Supervisor help and Supervisor Help request Response code.	574
6	ACD CALLS IN QUEUE ENTER NEW #:575	Dial code to display calls in queue.	575
7	ACD SUPERVISOR STATUS ENTER NEW #:576	Dial code to display group status.	576
8	ACD SUPERVISOR MONITOR ENTER NEW #:577	Dial code to activate Supervisor monitor.	577
9	ACD REROUTE QCALL ANS ENTER NEW #:578	Dial code to reroute call after answer.	578
10	ACD REROUTE QCALL NO AN ENTER NEW #:579	Dial code to reroute call prior to answer.	579
11	CAMP-ON ANSWER ENTER NEW #:621	Dial code to answer a Camped On call.	621
12	CALL PARK LOCATIONS START#:#601-#619	Dial code to place/retrieve a call in a Park location.	eMG80:#601~#619 eMG800:#601~#800
13	STA GRP PILOT NUMBER START #:401-440	Station group pilot numbers.	eMG80:401~440 eMG800:401~500

BTN	DISPLAY	FEATURE	DEFAULT
14	STA USER VSF FEATURES ENTER NEW #:*66	VSF feature access code.	*66
15	CALL COVERAGE RING ENTER NEW #:76	Code for Call Coverage button.	76
16	DIRECT CALL PICK-UP ENTER NEW #:*77	Dial code to activate Directed Call Pick- up.	*77
17	ACCESS CO GROUP FEAT ENTER NEW #:89	Dial code to access a CO Line or IP channel from a CO/IP group.	89
18	ACCESS IND CO/IP FEAT ENTER NEW #:88	Dial code to access a specific CO Line.	88
19	ACCESS HELD CO/IP FEAT ENTER NEW #:8*	Dial code to access last held CO Line or IP channel from Hold.	8*
20	ACCESS HELD IND CO/IP ENTER NEW #:8#	Dial code to access a specific CO Line/IP channel from Hold.	8#
21	ACCESS CO IN 1ST CO GRP ENTER NEW #:9	Dial code to access the 1st available CO Line in any accessible group.	9
22	ATTENDANT CALL ENTER NEW #:0	Dial code to call an Attendant.	0
23	VM MSG WAIT ENABLE ENTER NEW #:*8	Dial code for external Voice mail to activate Message Wait indication.	*8
24	VM MSG WAIT CANCEL ENTER NEW #:*9	Dial code for external Voice Mail to deactivate Message Wait indications.	*9

Table 3.3.2.5-2 FLEXIBLE NUMBERING PLAN PART B (PGM 107)

Table 3.3.2.5-3 FLEXIBLE NUMBERING PLAN PART C (PGM 108)

BTN	DISPLAY	FEATURE	DEFAULT
1	DOOR OPEN 1 ENTER NEW #:#*1	Dial code to activate Door 1 contact (open door 1)	#*1
2	DOOR OPEN 2 ENTER NEW #:#*2	Dial code to activate Door 2 contact (open door 2).	#*2

BTN	DISPLAY	FEATURE	DEFAULT
1	MCID REQUEST ENTER NEW #:*0	Dial code to activate Malicious Call ID Request in ISDN Supplementary service. Not available in USA version.	*0
2	AME FEATURE ENTER NEW #: 564	Dial code to assign an Answering Machine Emulation Flex button.	564
3	US-CONF TMR EXTENSION ENTER NEW #:##	Dial code to extend Unsupervised conference time.	##
4	PTT GROUP LOGIN/OUT ENTER NEW #:#0	Push-To-Talk group login and logout dial code. The station must have a PTT button for proper operation.	#0
5	ACD AGENT P LOGIN ENTER NEW #:581	ACD Agent Primary Login code.	581
6	ACD AGENT P LOGOUT ENTER NEW #:582	ACD Agent Primary Logout code.	582
7	ACD AGENT S LOGIN ENTER NEW #:583	ACD Agent Secondary Login code.	583
8	ACD AGENT S LOGOUT ENTER NEW #:584	ACD Agent Secondary Logout code.	584
9	ACD AGENT WRAPUP END ENTER NEW #:585	ACD Agent wrap-up end code.	585
10	TNET CM LOGIN/OUT ENTER NEW #:586	When Central Control networking (TNET) is employed, a station can be manually logged in or out of the Central system using this code.	586
11	ENTER INTO CONF-ROOM ENTER NEW #:59	Code for a station to enter a conference room.	59
12	ENTER INTO CONF-GROUP ENTER NEW #:68	Code to open a conference group.	68
13	STATION ICR ENTER NEW #:587	Code to activate Station ICR.	587
14	PICK UP GROUP PICK-UP ENTER NEW #:588	Pick Up Group Call Pick-up dials code.	588
15	EMERGENCY PAGE ENTER NEW #:589	Code for emergency page.	589
16	REMOTE MEX CONTROL ENTER NEW #:580	Code to control the mobile extension settings remotely.	580

Table 3.3.2.5-4 FLEXIBLE NUMBERING PLAN PART D (PGM 109)

BTN	DISPLAY	FEATURE	DEFAULT
17	ALL GR AGENT ON/OFF DUT ENTER NEW #:58*	Code to change the state of the Agent ON/Off duty in all hunt groups.	58*
18	SLT ACNR CODE ENTER NEW #:58#	In SLT, user can ACNR feature by using this numbering plan.	58#
19	ACD SUPERVISOR RING MODE ENTER NEW #:570	Code to check and change ACD group Ring mode by ACD group supervisor.	570
20	COMPANY DIRECTORY NAME ENTER NEW #:563	Code to check and change recording station subscribe name of Company Directory feature. (USA Only)	563
21	ISDN SUPP HOLD ENTER NEW #:57*	ISDN Supplementary Service for HOLD.	57*
22	ISDN SUPP CONF ENTER NEW #:57#	ISND Supplementary Service for Conference (Not supported).	57#
23	FORCED SEIZE BUSY STN/CO ENTER NEW #:56*	Busy Station / CO can be connected with entering this Code.	56*
24	ADDED FLEX NUMBER PLAN PRESS FLEX KEY (1-5)		
24-1	OVERRIDE DND/CFW ENTER NEW #:56#	[56#] + Station number, then the station's DND or CFW setting will be overridden.	56#
24-2	CANCEL CALL BACK ENTER NEW #:	It is used to cancel call back.	
24-3	XFER TO VSF ANNC NO ENTER NEW #:55*	When a station is talking over a CO line User, [Transfer] + [55*] + Valid system announcement (01-70), then Outside	55*
		user can hear system announcement, and system starts DISA service.	
24-4	CCR ENTER NEW #:#2	It is used in digit conversion.	#2
24-5	UCS SYS CONF GRP JOIN ENTER NEW #:5*0	It is used to join UCS conference group by entering the code.	5*0

3.3.2.6 8-Digit Table

We can support it more 4 digits for station number. Station numbering should not conflict with numbering plan. It is consist of prefix digits and add digits. Prefix digits can have up to 4 digits and Add digits can have up to 4 digits.

PROCEDURE:	
DIGIT 8 TBL ENTER TBL NO(01-10)	1. Press the [PGM] button and dial 238.
Digit 8 TBL 1 : Empty	Use the dial-pad to enter the desired table number.
	Press the desired Flex button; refer to Table 3.3.2.6-1.
	Use the dial-pad to enter the required data.
	Press the [Save] button to store the data entry.

Table 3.3.2.6-1 8-Digit Table (PGM 238)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	TBL 1 : SET 8 digit 8 Digit 1 :	The user may be allowed to enter the prefix digits using character assign method. (ex : $4+0 \rightarrow 4$)	Up to 4 digits	N/A
2	TBL 1: SET ADD DIGIT ADD DIGIT : 0	The user can be allowed to add digits. (ex: if it's set 3, prefix digits + xxx)	Up to 4 digits	0

3.3.3 Station Data – PGM 110-125

3.3.3.1 Station Type -PGM 110

Each station is assigned a type, which is used by the system to recognize the station's capabilities and default Flex button configuration. In addition, for the iPECS DSS/BLF Consoles, the associated station number is identified here. Note that the maximum of three (3) DSS Consoles(LIP DSS & LDP DSS) can be associated and connected to a station.

PROCEDURE:		
STATION TYPE ASSIGN ENTER STA RANGE	1. Press the [PGM] button and dial 110.	
100-110 F1:TY F2:ASC IPKTU	Use the dial-pad to enter a station range (Ex 100~110). For a single station, enter the same number twice; use this procedure for an iPECS DSS Console.	
	Select Flex button 1, to set the station type and, for iPECS DSS Consoles (types 2~4), Flex button 2 assigns the associated station.	
100-110 F1:TY F2:ASC IPKTU	Use the dial-pad to enter desired data: 4-1. For Flex button 1 (TYPE), enter the station TYPE; refer to Table 3.3.3.1–1.	
111-111 F1:TYPE F2 :ASC DSS MAP2 : STA	4-2. For Flex button 2 (Associated station), enter the number of the station used with the console. Flex button 2 is only available for iPECS DSS Consoles (Types 2~4), see Table 3.3.3.1-2 for default configurations.	
Press the [Save] button to store the data entries.		

Table 3.3.3.1-1 STATION TYPE ASSIGNMENT — (PGM 110)

ТҮРЕ	DESCRIPTION
1	IP KEYSET
2	DSS MAP 1
3	DSS MAP 2
4	DSS MAP 3
5	SLT (DTMF)
6	SLT (DTMF) – Voltage Message lamp
7	SLT (DTMF) – FSK Message lamp
8	SLT (DTMF) – Polarity Reversal Message lamp

la	able 3.3.3.1-2 CONSOLE BUTTON CONFIGURATION (FGM TTO)				
	MAP	DEFAULT CONSOLE BUTTON CONFIGURATION			
	MAP 1	Button 1: Intrusion	Button 2: All Call Page		
		Button 3: Call Park 1	Button 4: Station Group 1		
		Button 5: Camp-On Button 6: Internal All Call Page			
		Button 7: Call Park 2 Button 8: Station Group 2			
		Button 9: [Release]	Button 10: Ext. All Call Page		
		Button 11: Call Park 3	Button 12: Station Group 3		
		Buttons 13 ~ 48: Station Ports 1	100 ~ 135		
	MAP 2	Station Ports 136 ~ 183			
	MAP 3	Station Ports 184 ~ 231			

Table 3.3.3.1-2 CONSOLE BUTTON CONFIGURATION (PGM 110)

3.3.3.2 Station Attributes I to III - PGM 111-113

Station Attributes define features and functions available to the station. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table 3.3.3.2-1 to Table 3.3.3.2-3 for a description of the features and the input required.

PROCEDURE:	
STATION ATT 1	1. Press the [PGM] button and dial:
ENTER STA RANGE	111 for Station Attributes I
	112 for Station Attributes II
	113 for Station Attributes III
100-110 STATION ATT 1 PRESS FLEX_KEY (01-24)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.3.2-1 to Table 3.3.3.2-3.
	Use the dial-pad to enter desired data for the attribute setting, refer to Table 3.3.3.2-1 to Table 3.3.3.2-3.
	Press the [Save] button to store the data entry.

Table 3.3.3.2-1 STATION ATTRIBUTES I (PGM 111)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 AUTO SPKR (1:ON/0:OFF) : ON	Enables [SPEAKER] activation when a CO/IP, DSS or other feature button is pressed, no need to lift handset.	0: OFF 1: ON	ON
2	100-110 CALL FWD (1:ON/0:OFF) : OFF	Enables Call Forward activation by the station.	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	100-110 DND (0-3) : 0(OFF)	Enables DND activation by the station.	0: OFF 1: ALL 2:ICM call only 3:CO call only	OFF
4	100-110 DATA SECURITY (1:ON/0:OFF) : OFF	Disables override and camp-on tones to the station when busy.	0: OFF 1: ON	OFF
5	100-110 HOWLING TONE (1:ON/0:OFF) : ON	Permits Howler tone to be sent to a SLT when left off-hook.	0: OFF 1: ON	ON
6	100-110 NO TCH ANS (1:ON/0:OFF) : OFF	Enables No-touch answer; this will automatically connect transferred calls to the station's speakerphone.	0: OFF 1: ON	OFF
7	100-110 PAGE ACCESS (1:ON/0:OFF) : OFF	Allows station to access paging.	0: OFF 1: ON	OFF
8	100-110 HEADSET RING (1:S/2:H/3:BOTH) : SPKR	This item selects device to receive incoming ring signals, Speaker, Headset or Both.	1: Speaker 2: Headset 3: Both	SPKR
9	100-110 SPKR/HEAD (1:SPKR/0:HEAD): SPKR	Selects Speakerphone mode or Headset mode	0: Headset 1: Speaker	SPKR
10	100-110 LCD DISP LED (1:RING/0:MWI): MWI	The LCD LED, upper left of LCD, may be used for Intercom Call ring Indication or Message Wait Indication.	0: MWI 1: Ring	MWI
11	100-110 LOOP LCR ACCT (1:ON/0:OFF) : OFF	Station based LOOP LCR authorization; this is used for LOOP LCR operation.	0: OFF 1: ON	OFF
12	100-110 CALL COVERAGE (1:ON/0:OFF) : OFF	The Call Coverage feature permits an iPECS Phone user to receive ring and answer calls to other stations.	0: OFF 1: ON	OFF
13	100-110 CALL COVERAGE DELAY RING: 0	When a covered station rings, the {CALL COVERAGE} button LED will flash at the covering station and will receive ring (immediate or delayed, 0 to 9 ring cycles).	0~9	0
14	100-110 OFFNET FWD (1:DIS/0:EN):ENABLE	A station must be allowed Off Net Fwd to forward external incoming calls outside the system or otherwise establish a CO-to-CO connection (Unsupervised Conference). (Except USA version)	0: Enable 1: Disable	Enable
15	100-110 FORCED ICM (1:ON/0:OFF) : OFF	When placing an intercom call, a user can change the ICM signaling mode, Tone Ring to Hands free answer mode or HF Answer to Tone Ring.	0: OFF 1: ON	OFF

Table 3.3.3.2-1 STATION ATTRIBUTES I (PGM 111)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
16	100-110 ACT PTT GRP ACTIVE PTT GROUP: .	A station can be assigned to a PTT group and the group enabled so the station can place and receive PTT announcements for the group.	0~9	
17	100-110 ICM GROUP (01-15): 01	Assigns station to an ICM Tenancy Group, refer to PGM 125.	eMG80:1~15 eMG800:0~32	1
18	100-100 VMIU/VMIB BOARD USE 1ST VMIU/VMIB	Assigns the VMIU or VMIB where messages for the station are stored.	Sequence no	
19	100-110 SIP UID TBL (000-140) : 000	Index to SIP User ID table, PGM 126, for the station. Note PGM 126 is accessible by Web only.	000-140	000
20	100-110 CAMP ON TONE (1:ON/0:OFF) : ON	Permits camp on tone to be sent to a station when the station receives camp-on request.	0: OFF 1: ON	ON
21	100-110 SERIAL DSS (1:EN/0:DIS):ENABLE	Assigns Serial DSS usage authority.	0: Disable 1: Enable	Enable
22	100-110 DLTN (00-10) DIAL TONE (00)	Each station can choose one of eleven dial tone sources	00: dial tone 01: INT music 02: EXT music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10:VSF MOH3	dial tone
23	100-110 RBTN (00-10) RING BACK TONE (00)	Each station can choose one of eleven ring back tone sources	00: ring back tone 01: INT music 02: EXT music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10:VSF MOH3	ring back tone
24	100-110 ATTACH MSG (1:ON/0:OFF) : ON	When e-mail notification of a new VSF message is enabled, (PGM 236-button 7) the e-mail may include the voice mail as a wav file attachment. VSF mail server IP (PGM 113-button18) & VSF Mail Address (PGM 113- button19) are required for proper operation.	0: OFF 1: ON	ON

Table 3.3.3.2-1 STATION ATTRIBUTES I (PGM 111)

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BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 CALL TIME TN (1:ON/0:OFF) : OFF	A tone can be sent periodically indicating the elapsed time of an outgoing CO/IP call. The Elapsed Call Timer (PGM 180-button 19) determines the period between tones.	0: OFF 1: ON	OFF
2	100-110 AUTO HOLD (1:ON/0:OFF) : OFF	Enables Auto Hold for the station. With Auto Hold enabled, the system will place an active external call on hold if the user presses a CO/IP or DSS button.	0: OFF(Others) 1: ON(ATD)	OFF
3	100-110 TIME RESTRICT (1:ON/0:OFF) : OFF	The system can automatically disconnect outgoing calls at expiration of the Call Restrict timer (PGM 180- button 14).	0: OFF 1: ON	OFF
4	100-110 IND CO ACCESS (1:EN/0:DIS) : ENABLE	Permits stations to use dial codes to access individual CO Lines.	0: Disable 1: Enable	Enable
5	100-110 CO/IP QUEUING (1:EN/0:DIS): ENABLE	Permits the station to queue for the next available Line when an All Lines Busy signal is received.	0: Disable 1: Enable	Enable
6	100-110 CO PGM (1:EN/0:DIS): DISABLE	A station can be permitted to change the CO Line numbers (ports) associated with a CO Line button.	0: Disable 1: Enable	Disable
7	100-110 RING LINE PRE (1:EN/0:DIS) : ENABLE	Enables Ringing Line Preference for the station. Calls that ring the telephone are answered by going off- hook.	0: Disable 1: Enable	Enable
8	100-110 SPD ACCESS (1:EN/0:DIS) : ENABLE	Allows the station access to System Speed Dial bins.	0: Disable 1: Enable	Enable
9	100-110 UCD GRP SVC (1:ON/0:OFF) : OFF	When unavailable, DID/DISA calls to the station can be routed to the ACD Group to which the station is a member.	0: OFF 1: ON	OFF
10	100-110 RING GRP SVC (1:ON/0:OFF) : OFF	When unavailable, DID/DISA calls to the station can be routed to the Ring Group to which the station is a member.	0: OFF 1: ON	OFF
11	100-110 TWO WAY RECD (1:ON/0:OFF) : OFF	When allowed, the station can activate the Two-way record feature to record a conversation.	0: OFF 1: ON	OFF
12	100-110 MSG SCRL SPD (0 - 7) : 3	Select message scroll speed for IP phone (Not presently used).	0~7	3
13	100-110 HOT DESK STA (1:ON/0:OFF) : OFF	A station can be assigned as a Hot Desk phone. Users and agents can login and use resources of the system through the Hot Desk phone.	0: OFF 1: ON	OFF

Table 3.3.3.2-2 STATION ATTRIBUTES II (PGM 112)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
14	100-110 PREFER CO/GRP 	The system will seize this CO Line or CO group number when the station dials '9' (First available CO access code).	CO # or CO Group #	
15	100-110 SEND SLT CLI (1:ON/0:OFF) : ON	When allowed, system will send CLI information to the SLT.	0: OFF 1: ON	ON
16	100-110 UCD PRIORITY (0-9) : 0	ACD Group members may be assigned a priority, 0-9. Members with the highest priority are sent calls ahead of lower priority members. This field is the same as PGM 191-button 19 for ACD Groups.	0~9	0
17	100-110 EZ PWD LOGIN (1:ON/0:OFF	For ez ATD. Enables/disables required Auth code use.	0: OFF 1: ON	OFF
18	100-110 EMERGENCY CO	This field defines the CO Line or Group employed by the system to place Emergency Assistance calls.	CO #, CO Group #, Transit-out	Any CO
19	100-110 STA ACCOUNT (1:ON/O:OFF) : OFF	When ON, the station user must enter an authorization code to access CO Lines.	0: OFF 1: ON	OFF
20	100-110 AUTO CALL REC (0:OFF/1:ALL/2:CO): OFF	This field enables unconditional recording of all calls placed/received by the station. Recordings, in .wav format, are stored at the UCS Client or Recording Server (IPCR or 3rd party) defined under button 21. Station and CO calls are recorded with ALL. Only CO calls are recorded with CO.	0: OFF 1: ALL 2: CO	OFF
21	100-110 CALL REC DEST	When Unconditional Call recording is enabled as above, the recording UCS Client station number is defined here.	station	
22	100-110 VSF BK DEL (1:ON/0:OFF) : OFF	UCS Client may monitor voice messages for another station as a backup. The UCS Client will include the message count for the station in the Voice message count. When enabled here, the UCS Client may delete messages for the station.	0: OFF 1: ON	OFF

Table 3.3.3.2-2 STATION ATTRIBUTES II (PGM 112)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
23	100-110 VSF BK STA 	UCS Client may monitor voice messages for another station as a backup. UCS Client will include the message count for the station in the Voice message count. This field defines the UCS Client station number that will be used as the VMIU/VMIB back up.	station	
24	100-110 VSF BK PROM (1:ON/0:OFF) : OFF	Enables UCS Client to backup VSF Prompts.	0: OFF 1: ON	OFF

Table 3.3.3.2-2 STATION ATTRIBUTES II (PGM 112)

Table 3.3.3.2-3 STATION ATTRIBUTES III (PGM 113)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 ADMIN (1:EN/0:DIS) : ENABLE	Enables station access to the System Database.	0: Disable 1: Enable	Enable
2	100-110 VSF ACCESS (1:EN/0:DIS) : ENABLE	Permits station access to the built-in AA/VM.	0: Disable 1: Enable	Enable
3	100-110 GROUP LISTEN (1:EN/0:DIS) : DISABLE	Enables Group Listen feature, audio is sent to both the handset and speaker with the handset	0: Disable 1: Enable	Disable
		microphone active and speakerphone microphone OFF.		
4	100-110 OVERRIDE (1:EN/0:DIS) : DISABLE	Enables intrusion to gain access to an active CO/IP call.	0: Disable 1: Enable	Disable
5	100-110 SMDR HIDE (1:EN/0:DIS) : DISABLE	Enables hiding dialed digits in SMDR output.	0: Disable 1: Enable	Disable
6	100-110 VOICE OVER (1:EN/0:DIS) : ENABLE	Enables use of Voice Over by station.	0: Disable 1: Enable	Enable
7	100-110 PRIME LINE (1:HOT/0:WARM) : WARM	Enables Delayed Prime Line (Idle Line) activation, see PGM 121, Idle Line Selection and PGM 182-button 6 for Prime Line timer.	0: WARM 1: HOT	WARM
8	100-110 ALARM/DOORBEL (1:EN/0:DIS) : DISABLE	Assigns station to receive Alarm/Doorbell signal.	0: Disable 1: Enable	Disable

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	100-110 CALL WAIT (0-3) : For Ext/Int	When a busy station receives a call, the call may queue to the station instead of receiving busy tone. With Call Wait, the caller will hear Ring- back and the user sees the CO line LED flash. If this option is set to a station, and a	0: OFF, 1: For External/Internal 2:For External, 3: For Internal	For External/Internal
10	100-110 LEFT MSG EXEC	co-line is ring assigned to the station, second ring assigned call CLI will show in the station's LCD. When a call is forward to the Secretary of an Executive/Secretary	0: OFF 1: ON	ON
11	(1:ON/0:OFF): ON	pair, messages can be left for the Executive (ON) or Secretary (OFF). Select E&MIC Headset mode.	0: OFF	OFF
12	(1:ON/0:OFF): OFF 100-110 ENBLOCK MODE	When On, the user-dialed digits are stored at iPECS IP or LDP Phones	1: ON 0: OFF 1: ON	OFF
	(1:ON/0:OFF) : OFF	until explicitly sent by the user. When sent, all dialed digits are sent to the system in a block. En-block mode is only available to iPECS IP and LDP Phones with 3-Soft keys.	1. 014	
13	100-110 MSG RETRIEVE (1:FIFO/0:LIFO): LIFO	Messages stored in the VSF may be retrieved in either a FIFO (first-in- first-out) or LIFO (last-in-first-out) order based on this entry.	1: FIFO 0: LIFO	LIFO
14	100-110 VMID NUMBER 100	When using an adjunct VM, the system can translate the Mailbox number from the user's station number to the assigned VMID. The system sends the station number or VMID to the VM (in-band or SMDI) in order to identify the appropriate Voice Mailbox.	0000-9999	Station #
15	100-110 AUTO ACD-DND ([SPD],0-9,*,#):	If an Agent does not answer an ACD call in the ACD No Answer timer, the Agent enters an Unavailable state with the Reason code entered here. The reason code is sent in the ACD Event message.	0: None #, * 1 ~ 9	None
16	100-110 FWD IF OOS (1:ON/0:OFF) : OFF	If a station is Out-of-Service and has previously forwarded calls, the system will forward the calls, if enabled here.	0: OFF 1: ON	OFF
17	100-110 BACK LIGHT (O:OFF/1:BUSY/2:ON): 1	The backlight of the LIP phones is assigned to stay off, light only when the station is busy, or light constantly.	0: OFF 1: Busy 2: ON	Busy

Table 3.3.3.2-3 STATION ATTRIBUTES III (PGM 113)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
18	100-110 VSF MailSvrIP	The VMIB includes notification of new messages to the user's e-mail. This field displays the user's e-mail mail server for the notification. Use Web Admin PGM 132 to modify this value.	IP v4 address Or Mail server name	
19	100-110 VSF Mail Addr	The VMIB includes notification of new messages to the user's e-mail. This field displays the e-mail address to notify when a new message is received at the VMIB. Use Web Admin to modify this value.	e-mail address	
20	100-110 BLOCK B-CALL (1:ON/0:OFF) : OFF	When an SLT extension tries to transfer a CO call to a CO line it is blocked and the call is released.	0 : OFF 1 : ON	OFF
21	100-110 BY PASS DTMF (1:ON/0:OFF) : OFF	When detected, DTMF from an SLT may be regenerated by the analog CO line ports, the SLT port can by- pass detection so DTMF is not detected.	0 : OFF 1 : ON	OFF
22	100-110 PROCTOR MONIT (1:ON/0:OFF) : OFF	Enables use of PABX ANI Link device for E-911 support, Only an SLT can be used for this feature.	0 : OFF 1 : ON	OFF
23	100-110 VSF MailSvrID	The VMIU and VMIB include notification of new messages to the user's voice mail. This field defines the user's ID to notify when a new message is received at the VMIU or VMIB.		
24	ADDED STATION ATT3 PRESS FLEX KEY (01-24)		01-24	
24-1	100-110 VSF MailSvrPW	Unified Mail server password		
24-2	100-110 DOOR OPEN (1:EN/0:DIS) : ENABLE	Enables use of Door open feature by station - Default value : Australia : Disable except for port 1or2 Otherwise : Enable	0: Disable 1: Enable	Enable
24-3	100-110 VSF MSG DD/TM (1:ON/0:OFF) : ON	When ON, play the date/time stamp of VSF message.	0 : OFF 1 : ON	ON
24-4	100-110 OGM DEST NOT ASSIGNED	Assign Mail box destination. When a user dial attendant code ('0' or '9'), if it is assigned then the call will be delivered to assigned mail box destination instead of attendant. If it is not assigned then the call will be delivered to attendant.		NOT ASSIGNED

Table 3.3.3.2-3 STATION ATTRIBUTES III (PGM 113)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-5	100-110 VSF DEL MSG (1:ON/0:OFF) : OFF	When ON, delete VSF messages when send UMS e-mail notification.	0 : OFF 1 : ON	OFF
24-6	100-110 VM PWD CHECK (0-2) : STN&PWD	When ON, check password when a user access to the VSF messages.	0 : No Password 1 : PWD only 2: station number and Password	2: station number and Password
24-7	100-110 BARGE IN MODE (0-2) : DISABLE	Barge in permits an authorized extension to intrude into other existing outside/internal calls or to disconnect existing call forcedly. If 0, Barge In is disabled. If 1, Barge In monitors other conversation. If 2, Barge In monitor join and Forced Disconnect.	0: Disable 1: Monitor 2:Monitor&Join & Disconnect	Disable
24-8	100 – 110 SLT FLASH MODE (0-3) : FLASH TRANSFER	 SLT Flash works as following option. 0: Flash Transfer – Flash detected, then the line is held and the line goes to waiting state. 1: Flash Drop - Flash detected and Line is disconnected. 2: Flash Ignore – Flash detected, but Ignored. 3: Hold Release – Flash detected, then the line is held and the line goes to waiting state. And the SLT user goes on-hook, then the held line is disconnected, not recalling. 	0: Transfer 1: Drop 2: Ignore 3: Hold Release	Transfer
24-9	100 – 110 RLS COST DISP (1:ON/0:OFF) : OFF	When CO line is released, according to admin option, call-cost or disconnection-cause can be displayed to user LCD.	0 : OFF 1 : ON	OFF
24-10	100 – 110 LDT TBL INDEX (00-10) : 01	LCR will be operated with this LDT table index	No. of LDT Table	1
24-11	100 – 110 WEB CALL BACK (1:EN/0:DIS) : DISABLE	Enable Web call back service. When enabled, call back service on station web admin could be used.	0: Disable 1: Enable	Disable
24-12	100 – 110 VSF SMTP SECU (0-2) : NO SECUTIRY	Security for VSF mail sending can be chosen.	0: No Security 1: SSL 2: TSL	No Security
24-13	100 – 110 VSF SMTP PORT (00001-65535) : 00025	When VSF mail sending, SMTP port can be program.	00001 – 65535	25

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-14	100 – 110 VSF S- MAILADDR	When VSF mail sending, Sender Mail Address can be program.		
24-15	100 – 110 PREPAID CALL (1:ON/0:OFF) : OFF	Enable prepaid call service.	0: OFF 1: ON	OFF
24-16	100 – 110 PREPAID MONEY 000000	Prepaid Money can be entered. By Call Metering signal, pre-paid money can be calculated.	000000 - 9999999	0
24-17	100 – 110 DEFAULT VM NO 	Default VM group number used when users press the [Msg/Call Back] button and there is no message.		
24-18	100 – 110 SLT MODE (0-3) : DEFAULT	SLT configuration mode. It is used only for South Africa. SLT gain is changed cording to this configuration.	0: Default 1: Short 2: Long 3: Far	Default (0)
24-19	100 – 110 OFF HOOK RING (0-3) : REFER TO SYS	Off hook ring type could be selected by station base.	0: BURST 1: MUTE 2: SYSTEM 3:SILENCE	Refer to System (2)
24-20	100 – 110 SIP COLOR RING 	Color ring is provided from assigned SIP VM (UMS). SIP extension number that is connected to SIP VM (UMS) server should be assigned.		
24-21	100 – 110 FORCED ACNT (1:ON/0:OFF) : OFF	User should enter an Account Code prior to placing an outgoing call when this value has "ON".	0: OFF 1: ON	OFF
24-22	100 – 110 FLEX BTN PGM (1:ON/0:OFF) : ON	A user can program Flex buttons at station.	0: OFF 1: ON	ON
24-23	100 – 110 STNWEB_LEVEL (1-3) : LEVEL 1	There are 3 access levels that can be assigned to station. The station with level 1 can view/access all programs in station web. The station with level 2/3 follows Station Web Authorization menu (System Data -> Station Web Authorization).	LEVEL 1 ~ LEVEL 3	LEVEL 1
24-24	100 – 110 HEADSET PAGE (1:S/2:H/3:BOTH): SPKR	Paging is provided on selected device (SPEAKER/HEADSET/Both) while in the headset mode.	1~3 (SPKR/ HEADSET/ Both)	1: SPKR

3.3.3.3 Station Attributes IV -PGM 114

When a station uses an ISDN Line, various parameters relating to ISDN Calling Line Identification and Connected Line Identification can be assigned for each station. In addition, when the station is an SLT, several parameters must be set to indicate the capabilities related to the station, such as 3.1 KHz audio for ISDN use. Refer to Table 3.3.3.3-1 for a description of the attributes and the inputs available.

PROCEDURE:	
STATION ATT 4 ENTER STA RANGE	1. Press the [PGM] button and dial 114.
100-110 STATION ATT4 PRESS FLEX_KEY (01-24)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.3.3-1.
	Use the dial-pad to enter desired data for the attribute, refer to Table 3.3.3.3-1.
	Press the [Save] button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 CLIP DISPLAY (1:ON/0:OFF): OFF	CLIP (Calling Line Identification Presentation), an ISDN service, sends the number of the calling party to the system in the call SETUP message. If enabled here, the number will be shown in the iPECS Phone LCD.	0: OFF 1: ON	OFF
2	100-110 COLP DISPLAY (1:ON/0:OFF) : OFF	COLP (Connected Line Id Presentation), an ISDN service, sends the number of the answering party to the system in the call CONNECT message. If enabled here, the number will be shown in the iPECS Phone LCD.	0: OFF 1: ON	OFF
3	100-110 PROGRESS IND (1:ON/0:OFF): OFF	When employing a non-ISDN terminal, specifically a modem or analog FAX, the ISDN call SETUP message must include this message and the Progress Indication parameter should be set to "ON".	0: OFF 1: ON	OFF
4	100-11- CLIR SERVICE (1:ON/0:OFF): OFF	CLIR (Calling Line Identification Restriction), an ISDN service, removes calling party Id sent from the PSTN to the called party with a RESTRICT instruction in the SETUP message. If enabled here, the system will send the RESTRICT instruction to the PSTN when an outgoing ISDN call is placed.	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
5	100-110 COLR SERVICE (1:ON/0:OFF): OFF	COLR (Connected Line Id Restriction), an ISDN service, removes connected party Id sent from the PSTN to the calling party with a RESTRICT instruction in the CONNECT message. If enabled here, the system will send the restrict instruction to the PSTN when the station answers an ISDN call.	0: OFF 1: ON	OFF
6	100-110 STN CLI 1 100	When not restricted (button 4 & 5 above) and entry 00 of the CLIP/CLOP Table is selected in PGM 143-button 1& 2, this entry is added to the number sent in the ISDN call SETUP or CONNECT message in place of the station number.	12 digits	Station number
7	100-110 3.1 kHz AUDIO (1:ON/0:OFF) : OFF	When an analog device (SLT or FAX) uses an ISDN Line in the system, the Information Element of the ISDN SETUP message must indicate it only has 3.1 KHz audio capabilities. If a SLT or analog FAX will be allowed access to the ISDN Lines, this parameter must be "ON".	0: OFF 1: ON	OFF
8	100-110 CLI NAME DISP (1:ON/0:OFF): OFF	When the CLI data from the PSTN in the call SETUP message matches a number in Speed Dial, the system can display the name associated with the Speed Dial bin, if set to ON.	0: OFF 1: ON	OFF
9	100-110 CLI/REDIRECT (1:RED/0:CLI) : CLI	When an incoming ISDN call is Redirected by the ISDN, the call SETUP message will contain an original and redirected CLI. This selection determines if the iPECS Phone will display the original or redirected number.	0: CLI 1: Redirect	CLI
10	100-110 CLI MSG-WAIT (1:ON/0:OFF): OFF	A log of caller identification can be maintained for the user, permitting the user to call back the identified party. System-wide, up to 1000 entries can be maintained in the log.	0: OFF 1: ON	OFF
11	100-110 EXT OR ATD (1:ATD/0:EXT) : EXT	When the system sends a station number with CLIP or COLP, the number can be either the Attendant number or the number of the station.	0: EXT 1: ATD	EXT

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
12	100-110 MSN WAIT (1:ON/0:OFF) : OFF	When a call that is corresponding to a MSN Telephone Number comes in to system, the call is basically routed to idle stations that have free MSN button that is assigned for the corresponding Telephone Number. And also the call can be routed to busy stations in the following condition. OFF : if a keyset is in a busy status, cannot receive incoming MSN Telephone Number corresponding call even though it has a free(idle) corresponding MSN LOOP Button ON : if a keyset is in a busy status, can receive incoming MSN Telephone Number corresponding call if it has a free(idle) corresponding MSN LOOP Button	0: OFF 1: ON	OFF
13				
14	100-110 DID RESTRICT (1:ON/0:OFF) : OFF	Enable station receive DID call.	0: OFF 1: ON	OFF
15	100-110 DISA RESTRICT (1:ON/0:OFF): OFF	Enable station receive DISA call.	0: OFF 1: ON	OFF
16				
17	100-110 MODEM ENABLE (1:ON/0:OFF): OFF	It is used to set modem attributes.	0: OFF 1: ON	OFF
18	100-110 FAST XFER CLI (1:ORI/0:TRN) : TRN	If a user transfers a CO call with CLI to SLT or DECT, CO CLI can be seen instead of station number when this option is set to ORI.	0: TRN 1: ORI	TRN
19				
20	100-110 PICKUP BY BTN (1:ON/0:OFF) : ON	It is used to set pick up by flex button.	0: OFF 1: ON	ON
21	100-110 MULTI LANG (1-6):PROMPT1 A.AMERICA	Selected language prompt is played to the user when accessing the VMIU or VMIB.	1~6 (1: N.AMERICA 2:KOREA 3:TURKIYE 4:RUSSIA 5:AUTRALIA 6:GERMANY)	1

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
22	100-110 P-MSG DND (1:ON/0:OFF) : OFF	If it is ON, the pre-selected station doesn't receive the ring and the caller hears DND tone.	0: OFF 1: ON	OFF
23	100-110 P-MSG LANG (1-6):PROMPT1 U.S	Select voice enabled preselected message for a station playing toward an incoming CO call	1~6 (1: US 2:KOREA 3:TURKIYE 4:RUSSIA 5:AUTRALIA 6:GERMANY)	1
24	ADDED STATION ATT4 PRESS FLEX KEY (01-23)			
24-1	100-110 STN CLI 2	Station CLI 2 can be programmed. If a CO line is set to Station CLI 2, then this CLI is used for outgoing CLI.	16 Chars	None
24-2	100-110 STN CLI 3	Station CLI 3 can be programmed. If a CO line is set to Station CLI 3, then this CLI is used for outgoing CLI.	16 Chars	None
24-3	100-110 STN CLI 4	Station CLI 4 can be programmed. If a CO line is set to Station CLI 4, then this CLI is used for outgoing CLI.	16 Chars	None
24-4	100-110 STN CLI 5	Station CLI 5 can be programmed. If a CO line is set to Station CLI 5, then this CLI is used for outgoing CLI.	16 Chars	None
24-5	100-110 SLT CID TYPE (0:FSK./1:DTMF) : FSK	SLT can send CID by programming options.	(0:FSK./1:DT MF)	FSK
24-6	100-110 WAKEUP ANNC 00	Wakeup Announce can be programmed.	0-200	0
24-7	100-110 CAMP ON ENABLE (1:ON/0:OFF): ON	If it is ON (enabled) then this station will receive camp on. But if it is OFF (Disabled) then this station will not receive camp on by other person.	0: OFF 1: ON	ON
24-8	100-110 GAIN TBL (1-3) : 1	TDM gain table can be programmed.	1-3	1
24-9	100-110 TONE TBL (1-5) : 1	Tone table can be programmed.	1-5	1
24-10	100-110 DGT CONV TBL (01-15) : 00	Set the digit conversion table.	eMG80:1-15 eMG800:1-32	0
24-11	100-110 VIDEO ON CALLING (1:ON/0:OFF) : OFF	Video show to called party when calling (ex. IP Video Door Phone)	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-12	100-110 E.164 CLI TO (1:ON/0:OFF) : OFF	Send CLI with E.164 format if it is ON.	0: OFF 1: ON	OFF
24-13	100-110 FLEX PAGE (1-3): 3 PAGE	The iPECS LIP-9030 and 9040 have 8 and 12 Flexible buttons, respectively. Additional Flex buttons are available using Flex button pages. The phone can have up to 3 pages each with the 8 or 12 Flex buttons. Thus, an LIP-9030 can have 24 Flex buttons and the LIP-9040 can have 36 Flex buttons. The Navigation Up/Down button is used to scroll through the Flex buttons pages assigned.	1-3	3 PAGE
24-14	100-110 ALIGN LCD (0-2) : NOT ALIGN	For the iPECS LIP-9010/20/30/40, character alignment for messages to the phone can be right or left aligned by the system, or alignment controlled by the phone ("Not Align").	0: Not align 1: Left 2: Right	Not Align
24-15	100-110 TWOWA REC AN 00	The two way record announcement can be recorded to play to the station as Announcement.	0-200	00
24-16	100-110 LDT ZONE (001-100) : 001	If the LDT Zone Number of a LDT table (LCR LDT(221)) is equal to this value, the LDT table is available to this CO Line.	001-100	001
24-17	100-110 ECM FAX(T.38) (1:ON/0:OFF) : ON	ECM stands for Error Correction Mode. If you failed to send something via Faxes, you can send it again until it is successful.	0: OFF 1: ON	ON
24-18	100-110 DISP RESTRICT (1:ON/0:OFF): OFF	When {Display Restricted Caller Number} in CLI Attributes(113) of a station is ON, Although the caller number is restricted in ISDN message, the ringing station displays the caller number.	0: OFF 1: ON	OFF
24-19	100-110 SMALL WIN USE (1:ON/0:OFF): OFF	If this option is set to ON, small popup is displayed on the LCD of LIP-9030/9040. If it is set to OFF, top bar is displayed instead of small popup.	0: OFF 1: ON	OFF
24-20	100-110 LARGE WIN TMR (0-5) : 0	When Large popup timer is set to any value from 1 to 5 except 0, the display of large popup is disappeared after the timer expired and then the large popup information is displayed at top bar.	0-5	0
24-21	100-110 MWI LED (0-4) : ALL MWI	User can program Message wait lamp for each type, refer to the range.	0: All MWI 1: VM MWI 2: CLI MWI 3: SMS MW 4: ICM MWI	ALL MWI

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-22	100-110 NFC AUTH USE (1:ON/0:OFF) : ON	If this option is ON, User enters Authorization code to use NFC function only for LIP-9071.	0: OFF 1: ON	ON
24-23	100-110 SHORT MODEM (1:ON/0:OFF) : OFF	If this value of SLT is ON, SLT is the modem mode in seizing a co line. When the CO line is CO Board, the {short modem timer} is starting when the SLT seizes the CO line. And if the {short modem timer} is expired, the SLT goes to the original mode. When the CO line is ISDN, the {short modem timer} is starting after receiving the ISDN connect message. And if the {short modem timer} is expired, the SLT goes to the original mode.	0: OFF 1: ON	OFF

3.3.3.4 Flexible button Assignment -PGM 115

Each Flex button for each iPECS IP and LDP Phone, and DSS Console is assigned a function (Type) and an associated Value as shown in Table 3.3.3.4-1.

For assignments to an DSS Console, the **[VOL UP]/[VOL DOWN]** buttons shift the Flex button appearance on the Admin station to the next or previous group of 24 buttons as they appear on the iPECS DSS Console. When multiple DSS Consoles are associated with a station, **[VOL UP]/[VOL DOWN]** are used to access and assign a function to the console buttons. Each console contains entries for 48 buttons even though the console may only have 12 buttons. In this case, assignments for buttons 13 to 48 are ignored.

Table 3.3.3.4-2 shows the default button assignments for the iPECS IP and LDP Phones and Table 3.3.3.4-3 and Table 3.3.3.4-6 provides default assignment for the various DSS Console button maps.

PROCEDURE:	
FLEX BUTTON ASSIGN ENTER STA RANGE	1. Press the [PGM] button and dial 115.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Press the desired Flex button (1~24).

Use the dial-pad to enter the desired button TYPE (1~6) and
value, if required. Refer to Table 3.3.3.4-1 for types and
value range. Defaults for the iPECS IP and LDP Phones are
shown in Table 3.3.3.4-2, for DSS Console defaults refer to
Table 3.3.3.4-3. In addition, for the DSS Console, use [VOL
UP]/[VOL DOWN] buttons to access the next/previous 24
flex buttons.
Press the [Save] button to store the Flex button data entry.

Table 3.3.3.4-1 FLEX BUTTON TYPE & VALUE CODES (PGM 115)

TYPE	DESCRIPTION	Remarks
1	Empty Button	Empty (unassigned) button, may be defined by the user.
2	User Program Fixed Numbering Plan	Assigns button to perform a User Program function from the Fixed
2	Oser Flogram Fixed Numbering Flam	Numbering Plan, Appendix A.
3	{[SPEED] XXX}	Station or System Speed Dial bin.
4	Flexible Numbering Plan Code	Assigns button to dial a code from the Flexible Numbering Plan,
4		see Appendix B.
5	Station or Network Station	Assign network station number from network table.
6	MSN	Enter desired MSN Table index.
7	U-LOOP	U-Loop button for call wait of internal & external call

Table 3.3.3.4-2 iPECS IP & LDP PHONE BUTTON DEFAULT CONFIGURATION (PGM 115)

BTN	iPECS LDP Phone							
BIN	9030	9008	7004	7008	7016	7024		
1	{CO 1}	{CO 1}	Trans/ PGM*	DND	{CO 1}	{CO 1}		
2	{CO 2}	{CO 2}	Speed*	Call Back	{CO 2}	{CO 2}		
3	{CO 3}	{CO 3}	{LOOP}	{LOOP}	{CO 3}	{CO 3}		
4	{CO 4}	{CO 4}	{LOOP}	{LOOP}	{CO 4}	{CO 4}		
5	{CO 5}	{CO 5}		empty	{CO 5}	{CO 5}		
6	{CO 6}	{CO 6}		empty	{CO 6}	{CO 6}		
7	{CO 7}	{CO 7}		empty	{CO 7}	{CO 7}		
8	{CO 8}	{LOOP}		empty	{CO 8}	{CO 8}		
9	{CO 9}	empty			{CO 9}	{CO 9}		
10	{CO 10}	empty			{CO 10}	{CO 10}		
11	{LOOP}				{LOOP}	{LOOP}		
12	{LOOP}				{LOOP}	{LOOP}		
13	empty				empty	empty		
14	empty				empty	empty		
15	empty				empty	empty		
16	empty				empty	empty		
17	empty					empty		
18	empty					empty		
19	empty					empty		
20	empty					empty		

BTN			iPECS L	DP Phone		
DIN	9030	9008	7004	7008	7016	7024
21	empty					empty
22	empty					empty
23	empty					empty
24	empty					empty

BTN	iPECS IP Phone (7000/8000/8000E series)								
BIN	8004	8008	8012	8024	8040	7004	7008	7016	7024
1	{CO 1}	{CO 1}	{CO 1}	{CO 1}	{CO 1}	Trans/ PGM*	DND	{LOOP}	{CO 1}
2	{CO 2}	{CO 2}	{CO 2}	{CO 2}	{CO 2}	{LOOP}	{LOOP}	empty	{CO 2}
3	{CO 3}	{CO 3}	{CO 3}	{CO 3}	{CO 3}	{LOOP}	{LOOP}	empty	{CO 3}
4	{CO 4}	{CO 4}	{CO 4}	{CO 4}	{CO 4}		empty	empty	{CO 4}
5		{CO 5}	{CO 5}	{CO 5}	{CO 5}		empty	empty	{CO 5}
6		{CO 6}	{CO 6}	{CO 6}	{CO 6}		empty	empty	{CO 6}
7		{CO 7}	{CO 7}	{CO 7}	{CO 7}		empty	empty	{CO 7}
8		{LOOP}	{CO 8}	{CO 8}	{CO 8}			empty	{CO 8}
9			{CO 9}	{CO 9}	{LOOP}			empty	{CO 9}
10			{CO 10}	{CO 10}	{LOOP}			empty	{CO 10}
11			{LOOP}	{LOOP}				empty	{LOOP}
12			{LOOP}	{LOOP}				empty	{LOOP}
13				empty				empty	empty
14				empty				empty	empty
15				empty				empty	empty
16				empty				empty	empty
17				empty					empty
18				empty					empty
19				empty					empty
20				empty					empty
21				empty					empty
22				empty					empty
23				empty					empty
24				empty					empty

	iPECS IP Phone (9000 series)								
BTN	9002	9010	9020	9030	9040	9070			
				(8/24)	(12/36)	(48)			
1	{LOOP}	{CO 1}	{CO 1}	{CO 1}	{CO 1}	{CO 1}			
2	{LOOP}	{CO 2}	{CO 2}	{CO 2}	{CO 2}	{CO 2}			
3		{CO 3}	{CO 3}	{CO 3}	{CO 3}	{CO 3}			
4		{CO 4}	{CO 4}	{CO 4}	{CO 4}	{CO 4}			
5		{LOOP}	{CO 5}	{CO 5}	{CO 5}	{CO 5}			
6			{CO 6}	{CO 6}	{CO 6}	{CO 6}			
7			{CO 7}	{CO 7}	{CO 7}	{CO 7}			
8			{CO 8}	{CO 8}	{CO 8}	{CO 8}			
9			{LOOP}	{CO 9}	{CO 9}	{CO 9}			
10			{LOOP}	{CO 10}	{CO 10}	{CO 10}			
11				{LOOP}	{LOOP}	{LOOP}			
12				{LOOP}	{LOOP}	{LOOP}			

NOTE:

These button definitions cannot be changed.

MAP	DEFAULT CONSOLE BUTTON CONFIGURATION				
MAP 1	Button 1: Intrusion	Button 2: All Call Page			
	Button 3: Call Park 1	Button 4: Station Group 1			
	Button 5: Camp-On Button 6: Intern				
	Button 7: Call Park 2	Button 8: Station Group 2			
	Button 9: [Release]	Button 10: Ext. All Call Page			
	Button 11: Call Park 3	Button 12: Station Group 3			
	Buttons 13 ~ 48: Station Ports 100 ~ 135				
MAP 2	Station Ports 136 ~ 183				
MAP 3	Station Ports 184 ~ 231				

Table 3.3.3.4-3 IP CONSOLE BUTTON CONFIGURATION

3.3.3.5 Station Class-of-Service – PGM 116

All stations are assigned a Class-of-Service (COS), which determines the ability of the user to dial certain types of calls, refer to Table 3.3.3.5-1. Separate COS assignments are made for Day, Timed and Night Mode system operation. As a default, all stations are assigned with a Station COS of 1, no restrictions for all three modes.

The station COS interacts with the CO Line COS to establish overall dialing or Toll restrictions. This interaction and the resulting restrictions are given in Table 3.3.3.5-2.

Long distance calls are determined by the 1st dialed digit ("0") and/or the number of digits dialed. If the 1st digit dialed is an LD code, default "0", or, if the number of digits dialed exceeds the assigned LD digit counter (SMDR Attributes PGM 177 button 4), the call is consider a Long Distance call and appropriate restrictions are applied.

PROCEDURE:	
STATION COS ENTER STA RANGE	1. Press the [PGM] button and dial 116.
100-110 STATION COS DAY=01 NIGHT=01 TIMED=01	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Press desired Flex button,
	1: Day mode COS
	2: Night mode COS
	3: Timed mode COS
	Use the dial-pad to enter desired data for the Station COS,
	refer to Table 3.3.3.5-1 & Table 3.3.3.5-2.
	Press the [Save] button to store the data entry.

Table 3.3.3.5-1 STATION CLASS-OF-SERVICE (PGM 116)

STATION COS	RESTRICTIONS
1	No restrictions are placed on dialing from the station.
2	The assignments in Exception Table A are monitored for allow and deny numbers.
3	The assignments in Exception Table B are monitored for allow and deny numbers.
4	The assignments in both Exception Tables A & B are monitored for allow and deny numbers.
5	The leading digit dialed cannot be a Long Distance code, default "0", and further denied/allowed based on Exception Table C.
6	The leading digits dialed cannot be a Long Distance code & digit count cannot exceed the LD digit counter, default 8 digits, and further denied/allowed based on Exception Table C.
7	Intercom and paging calls are allowed. No outgoing dialing except for emergency calls is allowed on CO Lines.
8	The assignments in the Exception Table D are monitored for allow and deny numbers.
9	The assignments in the Exception Table E are monitored for allow and deny numbers.
10	The assignments in the Exception Table D & E are monitored for allow and deny numbers.
11	The assignments in the Exception Table A & B and D & E are monitored for allow and deny numbers.

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 1	No Restriction	No Restriction	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 5	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 6	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only
STA COS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 9	Exception Table E governs the dialing	Exception Table E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction

Table 3.3.3.5-2 STATION/CO LINE COS TOLL RESTRICTIONS (PGM 116)

3.3.3.6 CO/IP Group Access – PGM 117

Stations can be allowed or denied access to CO Lines and IP Channels by group (eMG80: 20 /eMG800:200), refer to CO Line Attributes, PGM 141, button 1. As a default, all stations are allowed access to all groups except Private Lines (group 00) and unused CO Lines. The CO Line of an RSGM is assigned as a Private Line by default.

PROCEDURE:		
CO/IP GROUP ACCESS ENTER STA RANGE	1. Press the [PGM] button and dial 117.	
100 – 110 CO/IP GRP PRESS FLEX KEY (01-20)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.	
	The first 20 Flex button LEDs indicate group access for eMG.	
	Press the desired Flex button to toggle CO/IP Group access,	
	LED on: group access allowed	
	LED off: group access not allowed	
	Press the [Save] button to store the data entry.	

3.3.3.7 Internal Page Zone Access – PGM 118

Each iPECS IP and LDP Phone is assigned to receive announcements from each Internal Page Zone. A station can be assigned to any, all or no zones. Note a remote station or a station not assigned to any Internal Zone will not receive any page announcements including Internal All Call. As a default, all stations except remote stations are assigned to zone 1.

PROCEDURE:	
INTERNAL PAGE ZONE ENTER STA NUMBER	1. Press the [PGM] button and dial 118.
100-110 I-PAGE ZONE PRESS FLEX KEY (001-024)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	The LEDs indicate the status for Page Zones 1 to 24, Use the [VOL UP]/[VOL DOWN] button to display Page Zones 25 to 35.
	Press the desired Flex button to toggle Internal Page Zone assignments,
	LED On: station receives announcement
	LED Off: station does not receive announcement.
	Press the [Save] button to store the Page Zone data.

3.3.3.8 PTT (Push-To-Talk) Group Access – PGM 119

Each iPECS Phone is assigned to receive PTT announcements from any combination of the nine PTT groups. Note remote stations and stations not assigned to a group will not receive PTT page announcements including All PTT group page. As a default, all stations except remote stations are assigned to group 1.

PROCEDURE:		
PTT GROUP ACCESS ENTER STA NUMBER	1. Press the [PGM] button and dial 119.	
100-110 PTT GRP ACC PRESS FLEX_KEY (01-10)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.	
	The first 10 Flex button LEDs indicate assigned zones. Press the desired Flex button to toggle Push-To-Talk group assignments,	
	LED On: station receives announcement	
	LED Off: station does not receive PTT announcement	
	Flex button 10 assigns group 0, all groups.	
	Press the [Save] button to store the PTT group data.	

3.3.3.9 Preset Call Forward – PGM 120

This assignment allows an external or internal call to initially ring at a station and forward to a predetermined destination. Preset Call Forward can be assigned separately for internal and external calls forwarding for all calls (Unconditional), Internal Busy, No-Answer or DND, or External Busy, No-Answer or DND. Calls can set as Preset Forward to a Station, Hunt group, System Speed dial for Off-net, or Station ICR.

For the "Transfer to Mail-Box" enter the Station Group number of the Voice Mail group (external VM, VSF or Feature Server Voice Mail group). This will permit other iPECS IP Phone and LDP users to transfer a call directly to the desired user's Voice Mail-Box.

PROCEDURE:	
CALL FWD PRESET ENTER STA RANGE	1. Press the [PGM] button and dial 120.
100 – 110 STA PRES FWD CONDITION CHOICE (F1 –F8)	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.

PROCEDURE:	
F1:S F2:H F3:SPD F4:ICR UNCONDITION :	Press Flex Button for the desired type of forward:
	1. Unconditional
	2. Internal Busy
	3. Internal No Answer
	4. External Busy
	5. External No Answer
	6. Transfer to Mailbox (destination must the VM Group).
	7. Internal DND
	8. External DND
ENTER FWD STA NO.	Select Flex button for the Destination type:
UNCONDITION : STA	1. Station
	2. Hunt Group
	3. System Speed Bin for Off-net
	4. Station ICR
	Use the dial pad to enter the value associated with the selected type:
	For Station & Net Station, enter station number,
	For Hunt Group, enter Station Group Number,
	For System Speed Bin for Off-Net enter Speed bin
	number.
	Press the [Save] button to store the data entry.

3.3.3.10 Idle Line Selection – PGM 121

When a station goes to an off-hook condition (lifts handset or presses **[SPEAKER]** button), the system normally provides intercom dial tone. In place of the dial tone, the station can be programmed to access a CO Line, CO/IP Group or call a Station or Station Group as described in Table 3.3.3.10-1. The Idle Line Selection (Prime Line) can be either immediate or delayed after going off-hook. The immediate/delay selection is based on the Hot/Warm assignment in Station Attributes III Prime Line PGM 113, button 7 and System timers PGM 182, button 6.

PROCEDURE:	
IDLE LINE SELECTION ENTER STA RANGE	1. Press the [PGM] button and dial 121.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.

	Use the dial-pad to enter the type and value for the desired
	Idle Line selection, refer to Table 3.3.3.10-1.
	Press the [Save] button to store the data entry.

Table 3.3.3.10-1 IDLE LINE SELECTION TYPE & VALUE (PGM 121)

TYPE	VALUE	DESCRIPTION
1	Flex button	Flex button, activates Flex Number as if dialed.
2	CO line	CO/IP path seizes CO line.
3	CO group	CO/IP Group seizes CO line from the CO/IP Group.
4	Station	Station, calls the assigned station
5	Hunt Group	Call to Hunt Group
6	Station Speed	Call to Station Speed
7	System Speed	Call to System Speed

3.3.3.11 Station IP Attributes – PGM 122

Stations are allowed access to the systems H.323 VoIP resources based on the Station IP Attributes. Refer to Table 3.3.3.11-1 for a description of the attributes and the inputs available.

PROCEDURE:	
STATION IP ATTRIBUTE ENTER STA RANGE	1. Press the [PGM] button and dial 122.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.3.11-1.
	Use the dial-pad to enter desired data for the Station IP Attribute, refer to Table 3.3.3.11-1.
	Press the [Save] button to store the data entry.

Table 3.3.3.11-1 STATION IP ATTRIBUTES (PGM 122)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100-110 DTR IP CALL (1:EN/0:DIS) : ENABLE	Enables station to access an IP channel directly by dialing the IP Group access code to place H.323 or SIP VoIP calls.	0: Disable 1: Enable	Enable

3.3.3.12 Station Timers – PGM 123

Certain timers can be assigned on a station basis. Available timers, description and valid inputs are given in Table 3.3.3.12-1.

PROCEDURE:	
STATION TIMERS ENTER STA RANGE	1. Press the [PGM] button and dial 123.
	Use the dial-pad to enter a station range (Ex. 100~110). For a single station, enter the same number twice.
	Press the desired Flex button.
	Use the dial-pad to enter desired data for the Station IP Attribute, refer to Table 3.3.3.12-1.
	Press the [Save] button to store the data entry.

ATTRIBUTE/DISPLAY BTN DEFAULT DESCRIPTION RANGE 1 This timer determines the 000-600 000 STA FWD NO ANS TMR (sec) duration the station will ring prior seconds (000-600):000 to Ring-No-Answer Forward. This setting affects both manual and Preset Call Forward and overrides the System Ring No Answer timer PGM 181-button 1. 2 Allowed length of CO/IP calls 00-99 00 CUT OFF (Min) when station is assigned Call minutes (00-99):00Time restriction in Station

Attributes II, PGM 112, button 3

Table 3.3.3.12-1 STATION TIMERS (PGM 123)

3.3.3.13 Linked Station Table – PGM 124

A station can be linked to another station so that the two stations effectively act as a single station with the attributes of the primary station number. An unregistered or registered station may be linked to a primary station. When unregistered station linking is used, the linked station does not reduce the system's capacity.

PROCEDURE:	
LINKED STA TABLE ENTER STA NUMBER	1. Press the [PGM] button and dial 124.
	Use the dial-pad to enter primary station number for the Linked pair (Ex. 110).
	Press the desired Flex button.
	Use the dial-pad to enter desired data, refer to Table 3.3.3.13-1.
	Press the [Save] button to store the data entry.

Table 3.3.3.13-1 LINKED STATION ATTRIBUTES (PGM 124)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SET IP ADDRESS IP: IP NOT ASSIGNED	IP Address of the linked station not required.		
2	ROUTER IP ADDRESS IP: ROUTER IP NOT ASSIGN	Set Router IP address associated with linked station.		
3	STA 110 : SET MAC ADDR MAC: NOT ASSIGNED	Set MAC address of linked un-registered station, required data. Note the secondary station must not be registered in the system prior to linking. If needed, delete the device from the system.		

3.3.3.14 ICM Tenancy Group – PGM 125

Stations can be assigned to an ICM Tenancy group under Station Attributes II PGM 111, button 17. Up to 15 Tenant groups for eMG80 and up to 32 for eMG800 can be defined. Each group is configured to allow or deny placing intercom calls to stations in other groups and an Attendant station can be defined for each group. The Attendant will receive "dial 0" calls and controls Day/Night mode for the Group.

PROCEDURE:	
ICM TENANCY GROUP ENTER GRP NUMBER (01-15)	1. Press the [PGM] button and dial 125.
ICM TENANCY GRP 01 F1:ATD F2:ACCESS	Use the dial-pad to enter the group number (Ex. 01)
	Press the desired Flex button; refer to Table 3.3.3.14-1.
	For Attendant assignment, use the dial-pad to enter the station number of the Group Attendant.
To assign accessible ICM Tenancy groups for the group, Flex button indicates the current Tenant group access. Press the Flex.	
Buttons to toggle Group access settings.	
	LED ON: group access allowed
	LED OFF: group access denied
	Press the [Save] button to store the data entry.

Table 3.3.3.14-1 ICM TENANCY GROUP ATTRIBUTES (PGM 125)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ICM TENANCY GRP 01 ATD:	Attendant station for the ICM tenancy group. ATD. Receives dial '0' calls and controls Day/Night mode.	STA No	-
2	ICM TENANCY GRP 01 PRESS ACCESS GRP(1-15)	ICM Tenancy groups allowed access to the selected group.	eMG80:01-15 eMG800:01-32	GROUP 1

3.3.3.15 Station VM Attributes - PGM 127

Voice Mail attributes can be assigned on a station basis. The description and valid inputs are given in Table 3.3.3.15-1.

PROCEDURE:	
ENTER PGM NUMBER	1. Press the [PGM] button and dial 127.
STATION VM ATT ENTER STA RANGE	Enter Station Range.
100-110 STA VM ATT PRESS FLEX KEY (01-20)	Press the desired Flex button.
	Use the dial-pad to enter desired data, refer to Table 3.3.3.15-1.
	Press the [Save] button to store the data entry.

DTN			,	DEE 4111 -
BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VM COS (1-5) : 1	Voice Mail COS (Grade) can be set on each station. Each COS attributes can be set at PGM 253.	1-5	1
2	ADMINISTRATOR MAILBOX (1:EN/0:DIS):DISABLE	If this option is set to ON, Administrator Voice Mail feature can be accessed.	0: Disable 1: Enable	Disable
3	ANNC. ONLY MAILBOX (1 :EN/0 :DIS) :DISABLE	If this option is set to ON, no message can be left and only the greeting is played.	0: Disable 1: Enable	Disable
4	ANNC. ONLY OPTION (0-1):PREVIOUS MENU	This option is available only ANNC. ONLY MAIL BOX is set to ON. If Previous Menu, after greeting	0: Previous 1: Hang Up	Previous menu
		message is played, go to previous menu. If Hang Up, after greeting message is played, call is hanged up.		
5	COMPANY DIR FIRST NAME	This field is first name of a station for Company Directory feature.	Max 12 Char	N/A
6	COMPANY DIR LAST NAME	This field is last name of a station for Company Directory feature.	Max 12 Char	N/A
7	USER-MSG RW/FF TIME (03-99):04 Sec	User Message Rewind / Fast Forward are supported by this time.	03-99	04
8	NOTIFY REPEAT COUNT (00-99) : 03	It is used to transfer call to attendant if retry count is over this for VM notification.	00-99	03

Table 3.3.3.15-1 STATION VM Attributes (PGM 127)

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	NOTIFY DIAL TIME (00-99) : 15 Sec	It is dial waiting time after provide VMIU/VMIB announcement for VM notification.	00-99 (seconds)	15
10	FORWARD OPTION (0-1) : MOVE	When a left message is forwarded, this option is applied.	0:Move 1: Copy	Move
11	CASCADE MAILBOX1			
12	CASCADE MAILBOX2			
13	CASCADE MAILBOX3	Message ca scading is a f eature that copies messages left for the originating mailbox to another mailbox. This field is	Station No.	N/A
14	CASCADE MAILBOX4	destination mail box station.		
15	CASCADE MAILBOX5			
16	CASCADE METHOD (0-2) : DISABLE	Cascade method is determined.	0:Disable 1: Copy 2: Move	Disable
17	CASCADE MESG TYPE (0-2) : NORMAL ONLY	Cascade Message Type is determined.	0:Normal Only 1: Urgent Only 2:All	Normal only
18	CASCADE APPLY TYPE (0-2) : IMMEDIATE	Cascade Apply Type is determined. Immediate: Cascade is done as soon as a message is left. After Notify Retry Count: After Notify Retry Count is over, cascade is done. After Cascade Timer: Cascade is done after cascade timer.	0:Immediate 1: After Notify Retry Count 2: After Cascade Timer	Immediate
19	CASCADE TMR(min) (000-250) : 000	Cascade Apply Timer is set.	000 ~250 (min)	0
20	MSG WAIT NOTICE (0-2) : TONE	When a user has voice mail, system can provides this as voice prompt instead of dial tone according to option based on station. Disable: System provides normal dial tone when a user goes to off hook status. Tone: System provides warning tone instead of dial tone to give indication when a user goes to off hook status. Prompt: System provides message indication as voice prompt when a user goes to off hook status.	0: OFF 1:Tone 2:Prompt	Tone

Table 3.3.3.15-1 STATION VM Attributes (PGM 127)

3.3.3.16 Station CCR Table – PGM 128

CCR Table can be assigned on a station basis. The description and valid inputs are given in Table 3.3.3.16-1.

PROCEDURE:	
ENTER PGM NUMBER	1. Press the [PGM] button and dial 128.
STATION CCR ENTER STA RANGE	Enter Station Range (Ex. 100~110).
100-110 STA CCR PRESS FLEX KEY (01-14)	Press the desired Flex button.
	Press the desired Flex button; refer to Table 3.3.3.16-1.

Table 3.3.3.16-1 STATION CCR Table (PGM 128)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1-10	101 – 110 STA CCR INPUT 0 : NOT ASSIGNED	Button 1 to 10 means outside user press 1 to 0. This dialing is matched with this table destination. The destination is 14 kinds.		NA
11	101 – 110 CCR TBLUSAGE (1:ON/0:OFF) : OFF	If this option is set to ON, this CCR table is worked. If this option is set to OFF, this CCR table is not worked, instead of that, outside caller's dialed digit can be regarded as DISA dialing.	OFF ON	OFF
12	101 – 101 CCR 1 DGT ONLY (1:ON/0:OFF) : OFF	If this option is set to ON, Only the first digit that is user entered is affected to the CCR routing. If this option is set to OFF, the following next digits are also affected to the DISA routing.	ON/OFF	OFF
13	101 – 101 * USED AS (0-3): NUMBERING PLAN	While listening User Greeting, * button working is followed by this attribute.	0 : Numbering Plan 1 : Replay Greeting 2 : Access Mail Box 3 : Leave Message	Numbering Plan
14	101 – 101 # USED AS (0-3): ACCESS MAILBOX	While listening User Greeting, # button working is followed by this attribute.	0 : Numbering Plan 1 : Replay Greeting 2 : Access Mail Box 3 : Leave Message	Access Mailbox

Table 3.3.3.16-1 CCR DESTINATIONS (PGM 128)

TYPE	DESCRIPTION
1	Route to a Station
2	Route to a Hunt Group
3	Route with System Speed Dial
4	Route as PBX Transfer with System Speed Dial (Flash then dial speed dial digits)
5	Route to VSF Announcement
6	Route to VSF Announcement and disconnect
7	Route to Networked Station
8	Conference Room
9	Internal Page
10	External page
11	All Call Page
12	Route to voice mail (Hunt group/station number)
13	Company Directory (USA Only)
14	Record VM Greeting (USA Only)

3.3.3.17 LSS Label Edit – PGM 129

The LIP-8012 LSS 12 button DSS Console incorporates an LCD used to label the function of each button. The label, which can be up to 12 characters, is assigned in this program.

PROCEDURE:	
LSS LABEL EDIT ENTER STA NUMBER	1. Press the [PGM] button and dial 129.
STA 100 LSS LABEL ENTER LSS IDX(1-4)	Use the dial-pad to enter the station number associated with the console (Ex. 100).
STA 100 LSS 1 ENTER BTN NO (01 – 12)	Consoles are indexed, allowing multiple consoles to be associated with a station. Use the dial-pad to enter the index of the LSS console $(1 \sim 4)$.
STA 100 LSS 1 BTN 1 LABEL IS EMPTY	Use the dial-pad to enter the desired LSS console button number (1 ~ 12).
	Edit the label referring to Table 2.1.2-1 Alpha-numeric Entry Chart.
	Press the [Save] button to store the data entry.

3.3.4 BOARD DATA - PGM 130 to 132

3.3.4.1 H.323 VoIP Attributes – PGM 130

The VOIP channels are used for Distributed Networking, access to SIP or H.323 networks and for remote iPECS devices. When the standard H.323 VoIP protocol is employed for an external VoIP call, several attributes of these channels can be assigned. The H.323 call set-up mode and tunneling (H.245 Encapsulation) can be established.

Also for H.323 support, a RAS (Registration, Admissions and Status) channel can be defined. The RAS channel IP addresses (uni-cast and multi-cast) as well as the IP port Numbering Plan and other H.323 set-up characteristics are defined.

This PGM also allows setting the IP TOS bit for Diffserv, a commonly recognized packet prioritization protocol. Higher priority packets are given priority in the Router or Layer 3 Switch queue. However, they are the first to be discarded in the event of long queue delays, which may cause excess packet loss and poor voice quality.

PROCEDURE:	
H323 VOIP ATTRIBUTE ENTER SEQ NO(001-300)	 Press the [PGM] button and dial 130. eMG800 range is 0001-2890.
001 H323 VOIP ATTR PRESS FLEX KEY (01-24)	Use the dial pad to enter the VoIP board sequence number.
	Press the desired Flex button; refer to Table 3.3.4.1-1.
	Use the dial pad to enter the desired data, refer to Table 3.3.4.1-1.
	Press the [Save] button to store the data entry.

Refer to Table 3.3.4.1-1 for a description of the features and the input required.

Table 3.3.4.1-1 H.323 VOIP ATTRIBUTES (PGM 130)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	H.323 SETUP MODE (1:FAST/0:NORM): FAST	H.323 IP calls can be set-up using the H.323 normal or Fast Start mode.	0: Fast 1: Norm	Fast
2	H.323 TUNNEL MODE (1:ON/0:OFF) : ON	H.323 IP calls can be set-up using the H.245 encapsulation (Tunneling).	0: OFF 1: ON	ON
3	H.323 DTMF PATH (0:IN/1:OUT/2:2833): 0	During a connection, DTMF Digits can be sent in-band or out of band (H.245).	0: In band 1: Out band 2: 2833	0
4	DIFFSERV PRETAG TAG (00-63) : 04	Diffserv pre-tagging for Voice packet. Note high values may cause high packet discard levels.	0~63	4

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
5	RAS USAGE (1:ON/0:OFF) : OFF	Determine whether VOIU/VOIB Board will be used as a Gatekeeper.	0: OFF 1: ON	OFF
6	RAS MULTICAST IP 224.0.1.41	Multi-cast IP address for RAS Information of Gatekeeper.	IP Address	224.0.1.41
7	RAS MULTICAST PORT (00001-65535): 01718	Multi-cast IP Port for RAS Information of Gatekeeper.	IP Port #	1718
8	RAS UNICAST IP 82.134.80.2	Uni-cast IP address for RAS Information of Gatekeeper.	IP Address	82.134.80.2
9	RAS UNICAST PORT (00001-65535): 01719	Uni-cast IP Port for RAS Information of Gatekeeper.	IP Port #	1719
10	RAS KEEP_ALIVE TM (001-999) : 120 (sec)	The time between exchange of RAS Information between GK and VOIB/VOIU.	001-999 (SEC)	120
11	RAS NUM PLAN PREFIX 9	The numbering plan for Calling Number in RAS Setup.	Number (24 digits)	9
12	RAS GATEWAY ID ONLY POSSIBLE BY WEB ADM	The Gatekeeper ID (This can be programmed only via WEB Admin).	128 Character	
13	RAS LIGHT RRQ (1:ON/0:OFF) : OFF	The system can be assigned to use the simple RRQ (Registration Request) message (ON) or the full RRQ message (OFF).	0: OFF 1: ON	OFF
14	TCP KEEP ALIVE (1:ON/0:OFF) : ON	The system will send a polling message every 75 seconds to assure the status of the TCP connection.	0: OFF 1: ON	ON
15	FAIL OVER USAGE (1:ON/0:OFF) : OFF	The H.323 call will be failover to another line (FAIL OVER USAG: ON).	0: OFF 1: ON	OFF
16	FAIL OVER TIME(sec) (03-10) : 05	The H.323 call will be failover. The time will be set.	03-10 (Sec.)	5
17	FAIL OVER CO GRP (01-21) :	If the H.323 call will be failover, assign another CO group.	01-21	
18	Q931 START PORT (00001-65535) : 02048	IP-Binding H.323 signaling option: Q.931 TCP Start Port in case of outgoing call.	00001-65535	2048
19	Q931 END PORT (00001-65535) : 02559	IP-Binding H.323 signaling option: Q.931 TCP End port in case of outgoing call.	00001-65535	2559

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
20	H245 START PORT (00001-65535) : 02560	P-Binding H.323 signaling option: H.245 TCP Start Port.	00001-65535	2560
21	H245 END PORT (00001-65535) : 03071	IP-Binding H.323 signaling option: H.245 TCP End Port.	00001-65535	3071
22	RAS START PORT (00001-65535) : 02048	IP-Binding H.323 signaling option: RAS UDP Start Port.	00001-65535	2048
23	RAS END PORT (00001-65535) : 03071	IP-Binding H.323 signaling option: RAS UDP End Port.	00001-65535	3071
24	001 H323 VOIP ATTR (2ND) PRESS FLEX KEY (1-4)			
24-1	MEDIA START PORT (00001-65535) : 06000	IP-Binding media option: Media UDP Start Port.	00001-65535	6000
24-2	MEDIA END PORT (00001-65535) : 07036	IP-Binding media option: Media UDP End Port.	00001-65535	7036
24-3	DATA START PORT (00001-65535) : 08500	IP-Binding option: Data Sharing TCP Start Port.	00001-65535	8500
24-4	DATA END PORT (00001-65535) : 08548	IP-Binding option: Data Sharing TCP End Port.	00001-65535	8548
24-5	H.245 SETUP (1:ON/0:OFF) : OFF	This feature is the ability of two user endpoints to communicate before call is actually established	0: OFF 1: ON	OFF
24-6	H.245 PROCEEDING (1:ON/0:OFF) : OFF	in normal call mode. This feature is not used when 'H323 Setup Mode' is 'Fast'.	0: OFF 1: ON	OFF
24-7	H.245 ALERTING (1:ON/0:OFF) : OFF	 * Setup: Caller party tries to open early media on receiving the Setup message. * Proceeding: Calling party tries to open early media on receiving the Proceeding message. * Alerting: Calling party tries to open early media on receiving the Alerting message. 	0: OFF 1: ON	OFF

Table 3.3.4.1-1 H.323 VOIP ATTRIBUTES (PGM 130)

3.3.4.2 T1/E1/PRI Attributes – PGM 131

Each T1/PRI module can be assigned for various attributes of the interface. The T1 interface framing and line coding can be selected and, for the PRI, TE or NT operation and CRC check can be selected. Refer to Table 3.3.4.2-1 for a description of the features and the input required. Note that the Sequence Number can be determined in PGM 103, Button 1.

PROCEDURE:	
T1 /E1/PRI ATTRIBUTE ENTER SEQ NO (001 –300)	1. Press the [PGM] button and dial 131 and enter sequence number (Ex. 001). eMG800 range is 0001-2890.
001 T1 /PRI ATTR PRESS FLEX KEY (1 – 7)	Use the dial pad to enter the Sequence Number of the desired T1/PRI module. Use PGM 103 to determine Sequence Numbers. (e.g. enter the sequence number
	Press the desired Flex button; refer to Table 3.3.4.2-1.
	Use the dial pad to enter the desired data, refer to Table 3.3.4.2-1.
	Press the [Save] button to store the Table data entry.

Table 3.3.4.2-1 T1/PRI MODE (PGM 131)

			, 	
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	T1 SETUP MODE (1:ESF/0:D4) : D4	Select T1 Setup mode. D4 frame: Use In-Band Control Protocol. ESF: Use Data link Message.	0: D4 1: ESF	D4
2	T1 LINE MODE (1:AMI/0:B8ZS) : B8ZS	Select T1 line mode (AMI/B8ZS).	0: B8ZS 1: AMI	B8ZS
3	PRI LINE MODE (1:TE/0:NT): TE	Select TE/NT mode.	0: NT 1: TE	TE
4	PRI/E1 CRC CHECK (1:ON/0:OFF): OFF	For PRI lines the CRC (Cyclical Redundancy Check) can be disabled (OFF).	0: OFF 1: ON	OFF
5	E1 R2DSP CHECK (1:ON/0:OFF): OFF	Used for R2-EI board or E1 board.	0: OFF 1: ON	OFF
6	DCO PX TYPE (0-3): STANDARD (2)	Reserved for future use with R2 E1 board.	0: S1240 1: TDX1B 2: STANDARD 3:CONGES_DIS	STANDARD
7	CALLER NAME TYPE (1:DISP/0:FAC) : FACILIT	If the caller has a name, the Caller Name is sent to the network according to the option (FACILITY, DISPLAY). (USA only)	0:FACILITY 1:DISPLAY	FACILITY

3.3.4.3 Board Base Attributes – PGM 132

Appliances (Boards and IP Phones) can be connected to the iPECS over a managed WAN without the need to employ a VoIP channel. In this case, the system does not implement security (IPSec) or QoS treatment over the link. To implement the managed WAN connectivity, the iPECS must be assigned with the IP address of the router for all appliances that may attempt a point-to-point connection over the managed WAN, including devices on the iPECS LAN. Note that if the device's Router IP address is not defined, the system will use the Router IP address defined in PGM 102.

The default codec employed by each device can be specifically defined as G.711, G.723, G.729, G.722 or the system default codec PGM 161 can be defined.

Note that the Sequence Number can be determined in PGM 103, Button 1.

PROCEDURE:	
BOARD BASE ATTRIBUTE ENTER RANGE (001–300)	 Press the [PGM] button and dial 132 and enter Range (Ex. 001~002). eMG800 range is 0001-2890.
PRESS FLEX KEY (01–13)	Use the dial pad to enter the Sequence Number range of the desired module. Use PGM 103 to determine Sequence Numbers.
	Press the desired Flex button; refer to Table 3.3.4.3-1.
	Use the dial pad to enter the desired data, refer to Table 3.3.4.3-1.
	Press the [Save] button to store the Table data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	001-002 ROUTER IP ADDR 0 .0 .0 .0	Enter the default Router IP address associated with the selected devices.		0.0.0.0
2	001-002 DEV CODEC TYPE (0-4): SYSTEM CODEC	Select the CODEC type for the selected devices: 0: G.711, 1: G.723.1, 2: G.729, 3: G.722 4: System Codec refer to PGM 161-button 9.	0-4	4
3	001-002 FIRWALL IP ADDR 0 .0 .0 .0	Enter the Firewall IP address associated with the selected devices.		0.0.0.0
4	001-002 RTP SECURITY (1:ON/0:OFF) : ON	Remote iPECS IP & LDP phones use IPSec to assure a secure connection. To reduce bandwidth use, IPSec may be disabled.	0: OFF 1: ON	ON

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
5	001-002 TNET ENABLE (0:ON/0:OFF) : OFF	When a module or station is to be connected in a Centralized Control network (TNET), the device must be enabled for TNET operation.	0: OFF 1: ON	OFF
6	001-002 VSF SENDER MAIL	VMIU/VMIB e-mail address for Mailbox Mail Sending.		NULL
7	001-002 T38 ENABLE (1:ON/0:OFF) : OFF	T38 mode ON/OFF for FAX data transfer.	0: OFF 1: ON	OFF
8	001-002 USE BRD IP FWIP (1:ON/0:OFF) : OFF	VOIB IP will be used for SIP signaling in Multi NAT circumstance.	0: OFF 1: ON	OFF
9	001-002 RTP FIRWALL IP 0 .0 .0 .0	Enter the Firewall IP address associated with the Remote Phone or Gateway/board if there needs Dual Broadband connection for SIP trunks and Remote phones (using a VOIB).		0.0.0.0
10	001-002 T38 PORT USAGE (0:D/1:S/2:T) : 0	T38 Port can be different with Voice Port. Or, be same or be triggered.	0: D 1: S 2: T	0
11	001-002 2833 PAYLOAD (000-127) : 000	RFC 2833 Payload is programmable.	000-127	000
12	001-002 2833 VOLUME (00-36) : 00	RFC 2833 packet volume.	00-36	00
13	001-002 2833 REDUNDANCY (1-8) : 0	RFC2833 Packet Redundancy.	1-8	0

Table 3.3.4.3-1 BOARD ATTRIBUTES (PGM 132)

3.3.5 CO LINE DATA – PGM 140 to 151

3.3.5.1 CO Service Type – PGM 140

Each CO Line is assigned a type, Normal or DID. Normal CO Lines can be employed for DISA Service PGM 146. DID lines are for incoming only operation and provide call routing based on signaling from the carrier, refer to section 3.3.5.4 DID Service Attributes - PGM 145.

PROCEDURE:	
COL SERVICE ATT ENTER COL RANGE	1. Press the [PGM] button and dial 140 and enter the range (Ex. 0102).
01-02 SVC TYPE PRESS FLEX KEY (1-1)	2. Press the desired Flex button.
01-02 SVC TYPE (1-4) NORMAL CO (1)	Use the dial pad to enter a CO Line range. For a single CO Line, enter the same number twice.
	Use the dial pad to enter the desired service type: 1. Normal CO line 2. DID line 3. TIE line 4. Unused
	Press the [Save] button to store the data entry.

3.3.5.2 CO/IP Attributes I ~ III - PGM 141~143

CO/IP Attributes define various characteristics of the CO lines and IP facilities under control of the system. Most require a dial pad input of 1 or 0 to set the characteristic, refer to Table 3.3.5.2-1 to Table 3.3.5.2-3. Specific descriptions for Class-of-Service and CO line Call Metering tones are provided in Table 3.3.5.2-4 and Table 3.3.5.2-5 respectively.

PROCEDURE:	
CO/IP ATTRIBUTE 1 ENTER COL RANGE	 Press the [PGM] button and dial: 141 for CO/IP Attributes I
	142 for CO/IP Attributes II
143 for CO/IP Attributes III. 01-02 CO/IP ATT 1 PRESS FLEX KEY (01-24) Use the dial-pad to enter a CO/IP line range. For CO/IP Line, enter the same number twice.	
	Press the desired Flex button; refer to Table 3.3.5.2-1 to Table 3.3.5.2-3.

PROCEDURE:	
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.5.2-1 through Table 3.3.5.2-5.
	Press the [Save] button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
1	01-02 CO/IP GROUP GRP NO (01-20) : 01	Each CO Line is assigned to a group; grouping should be based on the Line type and COS.	01
2	01-02 CO LINE COS COS (1–5) : 1	 Each CO Line is assigned a Class-of-Service which will interact with the Station COS, refer to section 3.3.5.2. CO COS 1: Station COS applies CO COS 2: Exception Table A governs CO COS 3: Exception Table B governs CO COS 4: Restricts LD calls and Exception Table C CO COS 5: Overrides Station COS 2~6 with no restrictions. 	1
3	01-02 CO START SIGNAL (1:GND/0:LOOP) : LOOP	The system can recognize a loop closure or a ground as the "connect" (start) signal on an analogue CO Line.	LOOP
4	01-02 CO LINE TYPE (1:PBX/0:CO) : CO	Each CO Line can be assigned as connected to a CO Line or a PBX/CTX Line.	CO
5	01-02 CO LINE SIGNAL (1:DTMF/0:PULSE):DTMF	Each analogue CO Line can be assigned to send either DTMF or Pulses for dialed digits to the PSTN.	DTMF
6	01-02 UNSED		
7	01-02 UNIVERSAL ANS (1:ON/0:OFF) : OFF	Universal Night Answer (UNA) allows any station to answer a call on the CO Line by dialing the UNA code.	OFF
8	01-02 CO/IP GRP AUTH (1:ON/0:OFF) : OFF	Each CO/IP Group can be assigned to require the user enter an Authorization Code for access.	OFF
9	01-02 DATA STATION NO FAX :	Each CO/IP line can be assigned to recognize a FAX call when a specified station answers.	
10	01-02 TENANCY GROUP (00-15) : 00	Only stations in the assigned Tenancy group are permitted access to the defined CO Line.	00

Table 3.3.5.2-1 CO/IP ATTRIBUTES I (PGM 141)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
11	01-02 CO VOIP MODE VOIP MODE(1-6) : COMMON	The VOIB channels can support iPECS, H.323 or SIP protocols. This field defines the protocol for the VoIP channel(s). 1: COMMON 2:H.323 ONLY 3: SIP ONLY 4:RTP RLY 5:H.323/RTP RLY 6:SIP/RTP RLY	COMMON
12	01-02 PROCTOR ON/OFF (1:ON/0:OFF) : OFF	Each analogue CO line can be assigned to send the station number as DTMF digits for Proctor service.	OFF
13	01-02 WAIT IF VSF BUSY (1:ON/0:OFF) : ON	When a DID/DISA call assigned to receive a VMIU/VMIB announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or route to the DID/DISA Destination - PGM 167.	ON
14	01-02 UNUSED		
15	01-02 UNUSED		
16	01-02 RING TONE (00-12, 0:N/A) : 00	Ring Tone can be programmable by CO-line base admin.	00
17	01-02 UNUSED		
18	01-02 GAIN TABLE (1-3) : 1	TDM gain table can be programmed.	1
19	01-02 TONE TBL (1-5) : 1	Tone table can be programmed.	1
20	01-02 DGT CONV. TBL (01-15) : 01	Select digit conversion table.	01
21	01-02 PREPAID CALL (1:ON/0:OFF) : OFF	Enables Pre-paid Call feature.	OFF

Table 3.3.5.2-1 CO/IP ATTRIBUTES I (PGM 141)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
22	01-02 PREPAID MONEY 0 (USED:0)	An amount can be associated with the station as prepayment for outgoing calls. The assigned "Pre-paid Money" is reduced by the calculated call cost (Call Metering or cost/minute). This parameter displays the remaining funds for outgoing calls. Prepaid Money is often used in small hospitality businesses. The "Used Pre-paid Money" displays the money that has been used.	
23	01-02 LDT ZONE (001-100) : 001	If the LDT Zone Number of a station/co line is equal to this value, this LDT table is available to the station/co line.	001
24	ADDED CO/IP ATTRIBUTE 1 PRESS FLEX KEY (1-2)		
24-1	01-02 ICLID USAGE (0-2) : CLI	An incoming call can be routed to the destination based on Calling Name. Disable - ICLID feature is disabled CLI - ICLID feature is operated with CLI Name - ICLID feature is operated with Name	CLI
24-2	01-02 EMERGENCY PBX C (0-4) : DISABLE	System can insert PBX code automatically if pre-configured when a user make an emergency call.	Disable

Table 3.3.5.2-1 CO/IP ATTRIBUTES I (PGM 141)

Table 3.3.5.2-2 CO/IP ATTRIBUTES II (PGM 142)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
1	01-02 CO NAME DISPLAY (1:ON/0:OFF) : OFF	The IP Phone display can indicate the CO Line/IP channel number or a twelve (12)- character name, if assigned.	OFF
2	01-02 CO NAME ASSIGN	Each CO Line and the IP group can be assigned a twelve (12) character name for display purposes, see Table 3.1.2-1 for character entry sequence.	
3	01-02 METERING UNIT 00:NONE (0-6)	Selects the call-metering signal from the PSTN to indicate call cost, refer to Table 3.3.5.2-5.	00
4	01-02 LINE DROP(CPT) (1:ON/0:OFF) : OFF	Each CO Line can be programmed to disconnect if an error tone is detected.	OFF
5	01-02 DISA ACCT CODE (1:ON/0:OFF) : ON	With DISA ACCT CODE "ON", users will be required to enter an Authorization code. Enter codes in Authorization Codes Table - PGM 227.	ON

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BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
6	01-02 MOH: (00-10) MUSIC 1 (01)	A held call can be connected to one (1) of three (3) possible audio sources while on Hold as Music-on-Hold (MOH). 00:REFER TO SYS HOLD 01: INT music 02: EXT music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10:VSF MOH3	01
7	01-02 CO DIAL TONE (1:ON/0:OFF) : ON	ISDN Lines may provide a digital signal rather than actual tones. If the ISDN tone is set to "OFF", iPECS can	ON
8	01-02 CO RBACK TONE (1:ON/0:OFF) : OFF	provide the tones.	OFF
9	01-02 CO ERROR TONE (1:ON/0:OFF) : OFF		OFF
10	01-02 CO BUSY TONE (1:ON/0:OFF) : OFF		OFF
11	01-02 DISA CO ACCESS (1:ON/0:OFF) : OFF	Permits DISA users access to the VoIP facilities of the system.	OFF
12	01-02 FLASH TMR (000-300 10 ms) : 050	This entry sets the duration of a Flash on the CO Line.	050 500 msec
13	01-02 OPEN LOOP (00-20 100ms) : 04	This entry sets the duration of open loop that will be recognized as a "Disconnect Signal".	04
14	01-02 ICLI DT TMR (00-20 SEC) : 00	When a call is received, the system may use the ICLID (Incoming Caller ID) to route the call. The system will delay routing a call for this timer while awaiting ICLID. Enter a 00 to disable ICLID routing.	00
15	01-02 SMS OUTGOING (1:EN/0:DIS) : DISABLE	Each CO line can be assigned to support PSTN SMS.	Disable
16	01-02 SMS RCV STATION STA :	When a PSTN SMS is received, the system delivers the message to the assigned station.	

Table 3.3.5.2-2 CO/IP ATTRIBUTES II (PGM 142)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
17	01-02 DL TN:(00-10) DIAL TONE (00)	One of eleven dial tones can be used by the CO line. 00:DIAL TONE 01:INT MUSIC 02:EXT MUSIC 03:VSF MOH 04:SLT MOH1 05:SLT MOH2 06:SLT MOH3 07:SLT MOH4 08:SLT MOH5 09:VSF MOH2 10:VSF MOH3	dial tone
18	01-02 RB TN: (00-10) RING BACK TONE (00)	One of eleven ring back tones can be used by the CO line.	Ring back tone
19	01-02 REJECT ANONYMOUS (1:ON/0:OFF) : OFF	When REJECT ANONYMOUS "ON", incoming call without Caller ID will be rejected.	OFF
20	01-02 PREFIX TABLE ID (0-6) : 0	If prefix table ID is set to 0, then prefix dialing call cannot be applied. If prefix table ID is set to (1-6), then prefix dialing call can be applied with PREFIX DIALING TABLE (PGM 206)	0
21	01-02 CO CUT OFF TMR (00-99 MIN) : 00	Co base call cut off timer can be set at this field.	00
22	01-02 DISA DELAY TMR (0-9 SEC): 0	It is only used for Russia. System is connected to DISA call immediately, and DISA announcement is played after this timer.	0
23	01-02 LDT TBT INDEX (00-10) : 01	LCR will be operated with LDT table index.	1
24	01-02 DISA ANS TMR (0-9 SEC) : 0	It is only used for Russia. When DISA incoming call, System is connected after DISA Answer Timer.	0

Table 3.3.5.2-2 CO/IP ATTRIBUTES II (PGM 142)

Table 3.3.5.2-3 CO/IP ATTRIBUTES III (PGM 143)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
1	01-02 COLP TABLE IDX INDEX : NOT ASSIGNED	When an incoming call on an ISDN Line is answered, the system will send caller id using the number from the CLIP/COLP Table –PGM 201- entry defined by this parameter.	None

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ATTRIBUTE/DISPLAY

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	01-02 CLIP TABLE IDX INDEX : NOT ASSIGNED	When a call is placed on an ISDN Line, the system will send caller id using the number from the CLIP/COLP Table –PGM 201- entry	None
		defined by this parameter. For entry 00, the CLI STA NO entered in PGM 114-button 6 will be used in place of the station number. For	
		other entries, the station number is added as a suffix to the entry in PGM 201.	
	01-02 ENBLOCK SENDING (1:ON/0:OFF) : OFF	This entry determines if the system sends dialed digits to the ISDN line as they are received (Overlap) or collects all digits and forwards them in a block, ENBLOCK.	eMG80 : OFF, eMG800: ON
	01-02 TYPE OF NO(0-4) NATIONAL (2)	For outgoing calls on the ISDN Line, this parameter defines the "Type of Number Plan" provided in Calling Party Information Element of the ISDN call SETUP message. 0: UNKNOWN 1: INTERNATIONAL 2: NATIONAL 3: Unused 4: SUBSCRIBER	2
	01-02 DID REMOVE NO (00-99) : 00	When a DID call is received on an ISDN Line, this entry determines the number of digits that will be removed starting with the first received digit.	00
	02 TEI TYPE (1:AUTO/0:FIX) : AUTO	The TEI (Terminal Endpoint Identifier) is a unique identifier for each device attached to the ISDN line. When the system shares an ISDN connection with other devices, the TEI should be automatic to assure no conflict with other attached devices. When the ISDN connection is not shared, the Fixed identifier option should be employed.	AUTO
	02 ISDN-SS CD/CR (1:EN/0:DIS) : DISABLE	Permits a user access to ISDN Supplementary Call Deflection or Call Re- route Service. (Except USA version)	Disable
	02 ISDN 1 DGT RM (1:ON/0:OFF) : OFF	Select one digit remove mode in ISDN Called Digits (for Italy).	OFF
	001-002 AOC TYPE (0-5) NO SERVICE (0)	When assigned, the system will analyze the Advice of Charge information in the Facility Message according to the ETSI specifications with appropriate regional protocol support.	No Service
	001-002 ISDN LINE TYPE (1:U/0:A): U_LAW	The system will encode voice using the A-law or u-law PCM format and should be set to match the ISDN Back bone type.	u-Law
Ţ	01-02 CALLING SUBADDR (1:ON/0:OFF) : OFF	For outgoing calls, the user's station number may be included in the ISDN call SETUP message Sub-address field.	OFF

Table 3.3.5.2-3 CO/IP ATTRIBUTES III (PGM 143)

DESCRIPTION

message Sub-address field.

DEFAULT

BTN	ATTRIBUTE/DISPLAY		DEFAULT
12			
12	01-02 IN PREFIX INS (1:ON/0:OFF) : OFF	Regional ISDN providers may use the Local Area Prefix code for special services. In cases where the code is not provided in the incoming call SETUP message, the system can insert the Local Prefix and Area code in SMDR, LNR, displays, etc.	OFF
13	01-02 OUT PREFIX INS (1:ON/0:OFF) : ON	Regional ISDN providers may use the Local Area Prefix code for special services. The system can insert the Local Prefix in the outgoing call SETUP message.	ON
14	01-02 INT ACCESS CODE 	When an incoming call includes the international Country code in the ISDN call SETUP message, the Country code will be included in the station display. To include the Country code, Incoming Prefix insertion (button 12 above) and CLI Display for the station (PGM 114-button 1) must be On.	
15	01-02 AREA CODE	Regional ISDN providers may use the Local Prefix and Area codes for special services. The system will insert this Local Area Code in the call SETUP messages defined under button 13 above.	-
16	01-02 PREFIX CODE	Regional ISDN providers may use the Local Prefix and Area codes for special services. The system will insert this Local Prefix Code in the call SETUP messages defined under button 13 above.	-
17	01-02 CLI TRANSIT (1:ORI/0:CFW):CFW	When the system must send CLI to the ISDN for an off-net call, the CLI can be either the original caller's CLI or the CLI of the Off-net forwarding/transferring station.	CFW
18	01-02 PRESERVE NAME (1:ON/0:OFF) : OFF	For DID lines, the CLI is normally displayed only during ringing. If enabled here, the CLI will be displayed for the entire call duration.	OFF
19	01-02 REDIRECT INFO NO SERVICE (0)	When the system needs to send Redirecting number to the ISDN for an off-net call, the Redirecting number can be either the original caller's CLI or the CLI of the Off-net forwarding/transferring station. If it is no service then system will not send this information. If it is OGR CLI (original CLI) then system will send original CLI that is received from incoming CO line. If it is CFW CLI then system will send redirecting CLI that is CLI for call off-net call	NO SERVICE

Table 3.3.5.2-3 CO/IP ATTRIBUTES III (PGM 143)

forwarded station.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
20	01-02 INC CLI CHOICE (1:ORI/0:TRANSIT):TRS	Incoming CLI Choice – When ISDN setup message have two CLI (Transit Point CLI / Original CLI), by using this option, CLI can be chosen.	Transit
21	01-02 CALLING NUM PLAN (0-6):ISDN/TELEPHONY (1)	 ISDN Calling Party Numbering Plan can be programmable. 0: Unknown. 1: ISDN / Telephony. 2: Data / Numbering. 3: Telex. 4: National Standard. 5: Private. 6: Reserved. 	ISDN/ Telephony
22	01-02 CALLED NUM PLAN (0-6) : UNKNOWN (0)	 ISDN Called Party Numbering Plan can be programmable. 0: Unknown. 1: ISDN / Telephony. 2: Data / Numbering. 3: Telex. 4: National Standard. 5: Private. 6: Reserved. 	Unknown
23	01-02 SCREENING (0-3) USER PROVIDED, NO S (0)	ISDN Screening Indicator can be programmable. 0: User Provided, No Service. 1: User Provided, Pass. 2: User Provided, Fail. 3: Network Provided.	0
24	ADDED CO LINE ATT3 PRESS FLEX KEY (1-6)		
24-1	01-02 CLI TYPE (1-5) STN CLI 1 (1)	Outgoing CLI can be chosen from CLI 1 to CLI 5. This program is combined with PGM 114 – Station CLI 1 to Station CLI 5.	1 (Station CLI 1)
24-2	01-02 ISDN PLUSE CODE	When incoming CLI start with "+" code, this Plus code can be translated as this program.	-
24-3	01-02 CP/ALERT INBAND (1:ON/0:OFF):OFF	Send progress indication with in-band information in call proceeding and alerting message.	OFF
24-4	01-02 DISCONNECT INBAND (1:ON/0:OFF):OFF	Send progress indication with in-band information in disconnect message.	OFF
24-5	01-02 BURSTTN TO CALLER (1:ON/0:OFF):OFF	Send to burst tone to caller if it's set ON.	OFF

Table 3.3.5.2-3 CO/IP ATTRIBUTES III (PGM 143)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	DEFAULT
24-6	01-02 DISCONN. (INBAND) IGMORE (0)	 When system receives DISCONNECT message with Inband information from PSTN, the following option can be applied: . Ignore Inband information: Line is disconnected . Bypass Inband information: Progress Information is transferred . Wait Release: System wait to send Release message till the other party is disconnected 	Ignore

Table 3.3.5.2-4 STATION/CO LINE COS TOLL RESTRICTIONS

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 1	No Restriction	No Restriction	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 5	Local Call only (LD Code, 1 st digit "0" or "1") and Table C	Local Call only (LD Code, 1 st digit "0" or "1") and Table C	Local Call only (LD Code, 1 st digit "0" or "1") and Table C	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 6	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD Code / Counter) and Table C	No Restriction
STA COS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only
STA COS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD Code / Counter) and Table C	No Restriction

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 9	Exception Table	Exception Table	No Restriction	Only Local Call	No Restriction
	E governs the	E governs the		(LD Code /	
	dialing	dialing		Counter) and	
				Table C	
STA COS 10	Exception Table	Exception Table	No Restriction	Only Local Call	No Restriction
	D & E governs	D & E governs		(LD Code /	
	the dialing	the dialing		Counter) and	
				Table C	
STA COS 11	Exception Table	Exception Table	No Restriction	Only Local Call	No Restriction
	A & B and D & E	A & B and D & E		(LD Code /	
	governs the	governs the		Counter) and	
	dialing	dialing		Table C	

Table 3.3.5.2-4 STATION/CO LINE COS TOLL RESTRICTIONS

Table 3.3.5.2-5 CALL METERING FUNCTION

ENTRY	CALL METERING TYPE
00	- None
01	- 50 Hz
02	- 12 KHz
03	- 16 KHz
04	- Singular Polarity Reverse (SPR)
05	- Plural Polarity Reverse (PPR)
06	- No Polarity Reverse (NPR)

Each CO/IP line is assigned to signal a station or group for an incoming call (Ring). Separate ring assignments are made for Day, Night, and Timed Ring modes. When assigned to ring to a VSF announcement, the call can be dropped automatically after the assigned announcement by entering '#' after the VSF announcement number.

When CO Lines are programmed to Ring an external AA/VM or Feature Server Group as an Automated Attendant, the Ring signal can be on an immediate or delayed basis allowing other stations/groups to be assigned Ring and answer prior to signaling the AA. The delay is defined in seconds from 00 to 30.

PROCEDURE:	
CO RING ASSIGNMENT ENTER COL RANGE	1. Press the [PGM] button and dial 144.
01-02 PRESS KEY DAY NIGHT TIMED-R	Use the dial-pad to enter a CO Line range. For a single CO Line, enter the same number twice.
	Press the desired Flex button:
	Button 1: Day Ring
	Button 2: Night Ring
	Button 3: Timed Ring
	Use the dial pad to select the destination type:
	Dial 1: Station
	Dial 2: Hunt Group
	Dial 3: VSF
	Dial 4: AA Ring Time
	Dial 5: Net number
	Use the dial pad to enter a value for the selected destination type. For:
	Dial 1: Enter a station range (enter the same station number twice to assign a single station) and the ring delay if any, in ring cycles (0~9).
	Dial 2: Enter a hunt group number.
	Dial 3: Enter the VSF announcement number and, if desired '#' to drop the call after the announcement.
	Dial 4: For AA Ring Time, enter the desired delay from 00 to 30 seconds.
	Press the [Save] button to store the data entry.

3.3.5.4 DID Service Attributes – PGM 145

PSTN DID lines can be assigned the type of "Start" signaling and treatment of any received digits. Digits can be used "as is" to route the call within the system, digits can be converted and used to route the call, or digits can be converted to a Table index to determine the call routing based on the assigned conversion method, see Table 3.3.9.7-1 (PGM 231).

PROCEDURE:	
DID ATTRIBUTES ENTER COL RANGE	1. Press the [PGM] button and dial 145.
01-02 DID ATTRIBUTES PRESS FLEX KEY(1–4)	Use the dial-pad to enter the DID Line range. For a single DID Line, enter the same number twice.
	Select the desired Flex button; refer to Table 3.3.5.4-1.
	Use the dial-pad to enter the desired value for the selected Attribute, refer to Table 3.3.5.4-1.
	Press the [Save] button to store the data entry.

Table 3.3.5.4-1 DID LINE ATTRIBUTES (PGM 145)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 SIG. TYPE: 1-3 WINK (2)	Assigns the type of DID start signaling, Immediate, Wink or Delayed.	1: Immediate 2: Wink 3: Delayed	Wink
2	01-02 DID CONV TYPE (0 – 2) : 1	The received DID digits can be treated to determine call routing, simple conversion (PGM 230), "use as is" (no treatment), or modify using look-up Table (PGM 231).	0: Convert 1: Use as is 2: Look-up	Use as is
3	01-02 DID DGT RCV NO 3 (2 – 4)	Number of digits expected from the PSTN DID circuit.	2~4	eMG80:3 eMG800:4
4	01-02 DID DGT MASK #***	DID digit modification sequence: "#" deletes the digit, "*" accepts the digit as is, a digit (0~9) replaces the digit. The modification is based on the position of the digit (1~4) in the received number.	(0~9, *, #)	#***

3.3.5.5 DISA Service – PGM 146

DISA Service can be enabled on CO lines based on the system operation mode (Day, Night, and Timed). DISA calls may be routed to dial tone and await user dialing (simple routing) or through a multi-layered Audio Text menu assigning a VSF Announcement/Customer Call Route (CCR) Table Index. The system can be instructed to disconnect after the announcement or follow the CCR Table routing with a user-recorded announcement requesting specific inputs from the user.

PROCEDURE:	
DISA ATTRIBUTES ENTER COL RANGE	1. Press the [PGM] button and dial 146.
01-02 DISA ATTRIBUTE F1:DAY F2:NIGHT F3:TIME	Use the dial-pad to enter the CO Line range. For a single CO Line, enter the same number twice.
001-002 DISA ATTRIBUTE DAY SERVICE 00 (00 – 71)	Select the desired Flex button: Button 1: Day Button 2: Night Button 3: Timed
	Use the dial-pad to enter the desired VSF AA Announcement, (00: disabled, 01~70 CCR Table index PGM 228, or 71: await user digits). Enter '#' after the entry to include a "drop after announcement instruction".
	Press the [Save] button to store the data entry.

3.3.5.6 CO Line Preset Forward Attributes – PGM 147

The CO Line Preset Forward feature enables a CO line to initially ring at multiple stations and forward to a pre-determined destination (PGM 204). The destination can be a station, Voice Mailbox, ACD group, or Hunt group. Each CO line has a Preset Forward Timer. Each CO line also can be assigned a VMID (Voice Mail Id) to allow sending specific VM digits when a CO line forwards to an external VM group.

PROCEDURE:	
CO PRESET FWD ATT ENTER COL RANGE	1. Press the [PGM] button and dial 147.
	Use the dial-pad to enter the CO Line range. For a single CO Line, enter the same number twice.
	Select the desired Flex button; refer to Table 3.3.5.6-1.
	Use the dial-pad to enter the desired value for the selected Attribute, refer to Table 3.3.5.6-1.
	Press the [Save] button to store the data entry.

Table 3.3.5.6-1 CO LINE PRESET FORWARD ATTRIBUTES (PGM 147)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 PRESET FWD TMR (00-99 SEC) : 00	An incoming call, which remains unanswered for this timer, is routed to the pre-determined Ring Table Index, PGM 147-button 2.	00-99 Sec	00
2	01-02 RING TBL INDEX INDEX : NOT ASSIGNED	If an incoming call remains unanswered after the Preset Fwd time the call is routed as defined in the ICLID Ring Assignment table bin entered here, refer to PGM 204.	001-250	
3	01-02 VMID NUMBER	Each CO/IP line can be assigned a VMID (Voice Mail Id) that is sent to the VM group to identify the desired Mailbox for the CO/IP line.	0000~9999	

3.3.5.7 CO Additional Attributes – PGM 148

CID Attributes are assigned for Analog CO Line Caller Id services.

PROCEDURE:	
CO ADDITIONAL ATTR ENTER COL RANGE	1. Press the [PGM] button and dial 163.
01–02 CID SETTING PRESS FLEX_KEY (01–13)	Use the dial–pad to enter a CO line range. For a single CO Line, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.5.7-1.
	Use the dial-pad to enter desired data for the Attribute.
	Press the [Save] button to store the data entry.

Table 3.3.5.7-1 CO Additional Attributes (PGM 148)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01–02 CID MODE SELECT (0–4) : FSK	CID signal type can be assigned according to the CID type PSTN provides.	0: Disabled 1: FSK 2 : DTAS FSK 3: DTMF 4: Russia CID	FSK
2	01-02 RCID DETECT (1: ALL/0: LOCAL) : ALL	Russia CID Detect Mode.	0: LOCAL 1: ALL	ALL
3	01-02 RCID REQUEST (1: AUTO/0: USER) : AUTO	Russia CID Request Mode.	0: USER 1: AUTO	AUTO
4	01-02 RCID REQ TMR(10ms) (010–150) : 030	Russia CID First Delay Timer.	010–150 (10msec)	030
5	01-02 RCID NOANS TMR(s) (001–300) : 020	Russia CID NO–Answer Timer.	001–300 (sec)	020
6	01-02 RCID DGT NUMBER (04–10) : 07	Russia CID Digit Number.	04–10	07
7	01-02 RCID REQ COUNT (1–3) : 1	Russia CID Request Count.	1–3	1
8	01-02 RCID REQ DELAY (10–30) : 10 (10ms)	Russia CID Retry Delay Timer.	10–30 (10msec)	10
9	01-02 CC BLOCKING (0-2): DISABLED	It's for only Brazil R2, it blocks for collect call if double answer or with indication is selected.	0: Disabled 1: Double Answer 2: With Indicator	Disabled

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
10	01-02 CC ANS TMR (001-250): 010 (100ms)	If it is set to Double Answer for collect call blocking, this timer is sending dummy	1-250 (100ms)	10
11	01-02 CC IDLE TMR (001-250): 020 (100ms)	answer signal. If it is set to Double Answer for collect call blocking, this timer is sending dummy idle	1-250 (100ms)	20
12		signal. This determines that detect	0: OFF	ON
	01-02 LINE MONITORING (1: ON / 0: OFF): ON	line fault or not.	1: ON	
13	01-02 RING DETECT REG (000-255) : 015	In the web admin, it is located in the Maintenance page [Appliances Control] >	000-255	015
		[Analog CO Param Set].		

3.3.5.8 NA ISDN Line Attributes – PGM 150

To comply with the North American ISDN standards, certain attributes must be defined for the system. These include Directory (telephone) Number and Service Profile (SPID) for the device. Note that this programming is required only for "Country Code" 1, USA installations.

PROCEDURE:		
COL NA ISDN ATT ENTER CO RANGE	1. Press the [PGM] button and dial 150.	
01-02 COL NA ISDN ATT PRESS FLEX KEY (1-8)	Use the dial-pad to enter a CO Line range. For a single CO Line, enter the same number twice.	
	Press the desired Flex button; refer to Table 3.3.5.8-1.	
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.5.8-1.	
	Press the [Save] button to store the data entry.	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 TYPE OF PX(1-4) NI1 (1)	The type of PSTN determines several specifics of the protocol and is required for proper operation.	1: NI 1 2: NI 2 3: 5 ESS 4: NORTEL	NI 1

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
2	01-02 SPID NUMBER	The Service Profile Identifier (SPID) is a number assigned to a fully initializing ISDN terminal and enables the Stored Program Control switching System (SPCS) to identify the ISDN terminal at layer 3 of the D-channel signaling protocol. The SPID is a free-formatted numeric string composed of 9 to 23 numeric {0- 9} and International Alphabet (IA5) characters. The SPID uniquely identifies a particular set of subscription parameters assigned to a TSP.	9~23 digits	
3	01-02 DN NUMBER	Initializing terminals are required to store a 7-digit DN in order to perform the compatibility checking procedures that are part of call termination.	23 digits	-
4	01-02 EKTS MODE (1:EKTS/0:NONE) : NONE	The EKTS (Electronic Key Telephone Service) terminal permits a user to operate those features that are specific to EKTS, as well as voice features that may function distinctly in the EKTS environment. EKTS allows a DN to be shared by more than one terminal, on the same or on different interfaces.	0: None 1: EKTS	NONE
5	01-02 TYPE FOR 1/2/3 UNKNOWN (0)	ISDN CALLED NO is made with the International format, National format, Network format, Subscriber format, or Abbreviated format when user dials 1~3 digits.	0: Unknown 1: International 2: National 3: Network 4: Subscriber 5: Abbreviated	Unknown
6	01-02 TYPE FOR 4/5/6 UNKNOWN (0)	ISDN CALLED NO is made with the International format, National format, Network format, Subscriber format, or Abbreviated format when user dials 4~6 digits.	0: Unknown 1: International 2: National 3: Network 4: Subscriber 5: Abbreviated	Unknown
7	01-02 TYPE FOR 7/8/9 UNKNOWN (0)	ISDN CALLED NO is constructed with the International format, National format, Network format, Subscriber format, or Abbreviated format when user the dials 7~9 digits.	0: Unknown 1: International 2: National 3: Network 4: Subscriber 5: Abbreviated	Unknown
8	01-02 TYPE FOR 10/11 UNKNOWN (0)	ISDN CALLED NO is constructed with the International format, National format, Network format, Subscriber format, or Abbreviated format when user the dials more than 10 digits.	0: Unknown 1: International 2: National 3: Network 4: Subscriber 5: Abbreviated	Unknown

Table 3.3.5.8-1 NA ISDN ATTRIBUTES (PGM 150)

3.3.5.9 ISDN CO Line Attributes - PGM 151

ISDN standards require that the ISDN terminating device, in this case the iPECS eMG, include various "adjustable" timers and counters as described below.

PROCEDURE:		
COL ISDN ATT ENTER CO RANGE	1. Press the [PGM] button and dial 151.	
	Use the dial-pad to enter a CO Line range (Ex. 01-02). For a single CO Line, enter the same number twice.	
	Press the desired Flex button; refer to Table 3.3.5.9-1.	
	Use the dial-pad to enter desired data for the Attribute, reference to Table 3.3.5.9-1.	
	Press the [Save] button to store the data entry.	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 T200 (1- 5) (1-5) : 1 (sec)	The terminal must support one T200 timer for each data link supported.	1~5 (seconds)	1
2	01-02 T201 (1- 5) (1-5) : 1 (sec)	The minimum time between TEI ID check messages.	1~5 (seconds)	1
3	01-02 T202(1-5) (1-5) : 2 (sec)	When the terminal transmits a TEI Identify Request message, it must provide one T202 timer for each logical link supported.	1~5 (seconds)	2
4	01-02 T203 (05 – 15) (05-15) : 10 (sec)	If the terminal initiates the link monitoring function, it must provide one T203 timer for each logical link supported. T203 defines the maximum time between message exchanges.	5~15 (seconds)	10
5	01-02 T204 (05 – 15) (05-15) : 10 (sec)	The T204 timer defines the minimum time between transmissions of XID messages.	5~15 (seconds)	10
6	01-02 T302 (10 – 30) (10-30) : 15 (sec)	In the Overlap dial mode, when the system receives incomplete dialing information from the ISDN, the system will wait the T302 timer duration for the additional digits. At time-out of this timer, the call will be disconnected.	10~30 (seconds)	15
7	01-02 T303 (01 – 10) (01-10) : 04 (sec)	T303 establishes the time Interval for a response after sending a call setup message.	1~10 (seconds)	4

Table 3.3.5.9-1 ISDN CO LINE ATTRIBUTES (PGM 151)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
8	01-02 T305 (10 – 60) (10-60) : 30 (sec)	T305 establishes the Interval for a Released signal after receiving a Disconnect message.	10~60 (seconds)	30
9	01-02 T308 (01 – 10) (01-10) : 04 (sec)	T308 establishes the Interval for a Released ACK signal after sending a release message.	1~10 (seconds)	4
10	01-02 T309 (001 – 100) (001-100) : 090 (sec)	Optional state timer.	1~100 (seconds)	90
11	01-02 T310 (10 – 60) (10-60) : 40 (sec)	Timer used in accepting Received signal.	10~60 (seconds)	40
12	01-02 N200 (1 – 5) (1-5) : 3	The terminal shall provide one N200 counter for each logical link supported. The default value of this counter shall be 3.	1~5	3
13	01-02 N201 (250 – 300) (250~300) : 260 (byte)	The N201 counter sets the maximum number of Octets in the ISDN information field.	250~300 (bytes)	260
14	01-02 N202 (1 – 5) (1-5) :3	If the terminal transmits a TEI Identify Request message (to request assignment of a TEI), the terminal shall provide one N202 counter for each logical link that it supports.	1~5	3
15	01-02 N204 (1-5) (1-5):1	The N204 counter establishes the maximum number of XID re- transmissions from the terminal.	1~5	1
16	01-02 K_VALUE (1-5) : 1	The terminal shall provide one K counter for each logical link supported.	1~5	1

Table 3.3.5.9-1 ISDN CO LINE ATTRIBUTES (PGM 151)

3.3.5.10 T1 Line Timers – PGM 152

North American T1 standards require that the T1 terminating device, in this case the iPECS eMG, include various "adjustable" timers and counters as described below.

PROCEDURE:	
COL T1 ATT ENTER CO RANGE	1. Press the [PGM] button and dial 152.
	Use the dial-pad to enter a CO Line range (Ex. 01-02). For a single CO Line, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.5.10-1.
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.5.10-1.
	Press the [Save] button to store the data entry.

DTN		DESCRIPTION		
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 PAUSE (1-9) : 2 (sec)	A timed pause may be included in a Speed Dial number, in which case, the pause time is defined by this entry. Not currently implemented.	1~9 (seconds)	2
2	01-02 RLS GRD (01-60) : 20 (100ms)	The release guard timer defines the length of time the system will maintain a Line as busy after the call has been terminated to assure the PSTN has sufficient time to 'clear down' the circuit. Not currently implemented.	01~60 (100 ms)	20
3	01-02 DT DELAY (02-50) : 10 (100ms)	The DT (Dial tone) Delay timer defines the duration that dial tone must be received for DT recognition. Not currently implemented.	02~50 (100 ms)	10
4	01-02 INTER DGT (15-30) : 15 (20ms)	The Inter Digit timer defines the duration between digit transmissions. Not currently implemented.	15~30 (20 ms)	15
5	01-02 WINK (07-15) : 10 (20ms)	For TIE or DID Lines the Wink timer defines the length of time the 'wink' (T1 TIE line circuit reversal) will last.	7~15 (20 ms)	10

Table 3.3.5.10-1 T1 LINE TIMERS (PGM 152)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	01-02 OP RATE (0- 3) 60-40 (10pps) (0)	For Pulse signaling, defines the duration and make/break ratio of each pulse.	0: 60-40 (10pps) 1: 66-33 (10pps) 2: 60-40 (20pps) 3: 66-33 (20pps)	60-40 (10pps)
7	01-02 SEZ DTC (000-127) : 003 (20ms)	This timer defines the length of a valid 'line seizure' signal.	0~127 (20 ms)	3
8	01-02 RELEASE (000-127) : 007 (20ms)	For Ground Start Lines, defines the minimum length of time ground will not be applied to the TIP side from the PSTN.	0~127 (20 ms)	7
9	01-02 IASG TY (1:DTMF/0:PULSE) : DTMF	Incoming Address Signaling Type defines the type of signaling (DTMF or Pulse) expected.	0~1	DTMF
10	01-02 RING DTC (2-9) : 2 (100ms)	The Ring DTC (detect) timer defines the minimum acceptable length of the Ring-on time during a ring cycle.	2~9 (100 ms)	2
11	01-02 RING STOP (10-60) : 60 (100ms)	The Ring Stop timer defines the maximum Ring-off time during a ring cycle.	10~60 (100 ms)	60
12	01-02 COLLECT DGT (1-6) : 3	Collect DGT (digits) defines the number of digits expected on a DID line.	1~6	3
13	01-02 STORE TIME (01~15) : 15 (1sec)	For DID lines, this timer defines the maximum delay between incoming DID digits.	1~15 (second)	15

Table 3.3.5.10-1 T1 LINE TIMERS (PGM 152)

3.3.5.11 DCOB CO Attribute – PGM 153

The DCOB Attributes defines various characteristics of the E1/PRI module when employing R2 signaling.

PROCEDURE:	
DCOB COLINE ATT ENTER CO RANGE	1. Press the [PGM] button and dial 153.
01-02 DCOB CO ATT PRESS FLEX KEY (1-6)	Use the dial-pad to enter a CO Line range (Ex. 01-02). For a single CO Line, enter the same number twice.
	Press the desired Flex button; refer to Table 3.3.5.11-1.
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.5.11-1.
	Press the [Save] button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-02 LINE STATUS (1-9) : 6	Send Line status information to PX when a call routed to subscriber before the called party is ringing.	1~9	6
2	01-02 DNIS SERVICE (1:ON/0:OFF) : OFF	In R2, determine whether system will send caller information to PX or not.	0: OFF 1: ON	OFF
3	01-02 NO OF CLI DGTS (01-15) : 10	In R2, board request CLI Digit to PX.	01~15	10
4	01-02 DCOB TYPE(0-2) DID (2)	According to this type, the line can be restricted to seize CO line for outgoing call.	0~2 (0: DID/DOD 1:DOD 2:DID)	2
5	01-02 CALL CATEGORY (1-9) : 1	In R2 signaling, the category signal used by the iPECS is defined here.	1~9	1
6	01-02 DID DGT NUM (00-32) : 00	Maximum number of DID digits if line is E1/R2 (if it is N/A then it will follow PGM 145 3 rd .)	00~32	0

Table 3.3.5.11-1 DCOB CO ATTRIBUTE (PGM 153)

3.3.6 SYSTEM DATA -PGM 160 to 182

3.3.6.1 System Attributes I & II – PGM 160 to 161

There are two (2) System Attributes programs to define settings that affect system-wide features and functions. Generally, the entry will turn the feature ON (enable) or OFF (disable).

Refer to Table 3.3.6.1-1 and Table 3.3.6.1-2 for a description of the Attributes, LCD displays and the data entries required.

PROCEDURE:	
SYSTEM ATTRIBUTES 1 PRESS FLEX KEY (01-24)	 Press the [PGM] button and dial: 160 for System Attributes I
	161 for System Attributes II.
	Press the Flex button for the desired Attribute, refer to Table 3.3.6.1-1 & Table 3.3.6.1-2.
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.6.1-1 to Table 3.3.6.1-2.
	Press the [Save] button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ATD CALL QUE RB TONE (1:RBT/0:MOH): MOH	When calling a busy attendant, the system will provide either ring-back tone or MOH. If MOH is selected, the source must be defined in PGM 171.	0: MOH 1: RB tone	МОН
2	CAMP-ON RBT/MOH (1:RBT/0:MOH) : MOH	When Camp-On is used, the calling station will receive either ring-back tone or MOH. If MOH is selected, the source must be defined in PGM 171.	0: MOH 1: RB tone	МОН
3	CO DIAL TONE DETECT (1 : ON/ 0 : OFF) : OFF	The system can use dial-tone detection or a timed pause for Speed Dial numbers that contain a Pause.	0: OFF 1: ON	OFF
4	CO LINE CHOICE (0:RR/1:LAST/2:FIRST): 1	CO Lines are selected by the system from groups using either the LAST used, ROUND robin method or FIRST line in the group.	0: ROUND 1: LAST 2: FIRST	LAST
5	DISA RETRY COUNT (1 –9): 3	A DISA user is allowed to retry erroneous authentication code entries. This entry sets the number of retries before the system disconnects.	1~9	3

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	EXTERNAL NIGHT RING (1 : ON/ 0 : OFF) : OFF	CO/IP calls, which are assigned UNA, can activate the Loud Bell Contact. An incoming call, received while in Night, will activate the contact.	0: OFF 1: ON	OFF
7	HOLD PREFERENCE (1: SYS/ 0: EXC) : SYS	A single depression of the [HOLD] button places the call on the preferred hold, System or Exclusive.	0: Excl 1: System	System
8	PRINT LCR CONV DIGIT (1 : LCR/ 0 : USER) : LCR	SMDR will output the number dialed by either the system's LCR or the user.	0: User 1: LCR	LCR
9	ATD CALL QUE AVAILABLE (1:ON/0:OFF) : OFF	The system can be configured to queue incoming calls to a busy Attendant.	0: OFF 1: ON	OFF
10	USE PGM_0 IN ALL ATTD (1 : ON/ 0 : OFF) : OFF	This field allows Main attendants access to all Attendant functions including System Attendant features and programming. (Except PGM 06 – Record system announcement)	0: OFF 1: ON	OFF
11	OFFNET PROMPT USAGE (1 : ON/ 0 : OFF) : OFF	When a call is routed to a destination external to the iPECS, the Off Net routing prompt can be played. Not available in US version.	0: OFF 1: ON	OFF
12	CO-TO-CO UC TMR EXTEND (1:ON/0:OFF) : OFF	When an Unsupervised Conference is established with DISA, Off-Net Fwd, etc., the Unsupervised Conference timer (PGM 182-button 5 determines the allowed duration of the call. If enabled here, the user may dial '#' to extend the allowed duration.	0: OFF 1: ON	OFF
13	ACD MANAGER PRINT (1:ON/0:OFF) : OFF	When the optional ACD Message events are desired, the system must be enabled to send ACD event messages.	0: OFF 1: ON	OFF
14	CALL LOG LIST NUM (15-50) : 15	The Call Log that saves the Outgoing call, Received call, or Lost call information can be displayed by pressing Call Log Display Button. The maximum size of the Call Log per station is defined here.	15~50	15
15	REPEAT DTMF TONE (1:ON/0:OFF) : OFF	When enabled, the system will provide DTMF repeat tone to the caller's station. It's nothing to do with PSTN.	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
16	AUTH RETRY COUNT (1-9) : 3	If a CO's have "CO/IP group Authorization" set to ON in PGM141, 8 th or the Stations have "Station Account" set to ON in PGM112, 19 th then a valid	1~9	3
		authorization code must be entered to make an external CO call. When user fails to enter a valid Authorization code in the number of attempts assigned in this field, the station is disconnected or the Station COS is changed to COS 7. If the COS 7 WHEN AUTH FAIL, PGM 161, 17 th is on then the station COS is changed to COS 7 otherwise the station is disconnected. When the station COS is changed COS 7, the user must employ COS Restore in		
17	CONFROOM CO TEL NUMBER CO TEL:	Station User PGM 2 to return the station to the normal COS. ISDN DID number an external party must dial to enter a Conference room. UCS Client must pre-	8 digits	
18	MPB DIFFSERV TAG(00-63): 04	establish the Conf Room. MPB Diff-Serv pre-tag value.	00-63	04
19	UPGRADE MODE (1:FTP/0:TFTP): FTP	Upgrade transfer mode from MPB to IP devices.	1: FTP 0: TFTP	FTP
20	TRANSFER TONE (1:RBT/0:MOH): RBT	When a CO call is transferred to a busy extension, Ring Back Tone or Music On Hold will be played to the CO Line.	0: MOH 1: RBT	RBT
21	CONF WARN TONE (1:ON/0:OFF) : ON	As new members join a conference room, the system provides warning tone to conference members.	0: OFF 1: ON	ON
22	TLS for WEB (1:ON/0:OFF) : OFF	Enables Transport Layer Security TLS for Web access.	0: OFF 1: ON	OFF
23	DUMMY DIAL TONE (1:ON/0:OFF) : OFF	When a CO/IP line does not provide dial tone, the system can provide dummy dial tone to the user.	0: OFF 1: ON	OFF
24	SYSTEM 2 ADDED ATTR PRESS FLEX KEY (01-23)	Select button 24 to access added attributes 1~23.	FLEX 1 ~ FLEX 23	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-1	SIP STA MODE (1:PTP/0:RTD): RTD	SIP phones may set-up a point-to- point RTP connection (PTP) or to assure a controlled connection, RTP can be routed via a VoIP channel (RTD).	0: RTD 1: PTP	ROUTED
24-2	SYS AUTH END CODE(#) (1:ON/0:OFF) : OFF	If this value is set to ON, the end dialing digit (#) must be entered when system Auth code is entered.	0: OFF 1: ON	OFF
24-3	STN VM FEATURE USAGE (1:ON/0:OFF) : ON	If this value is set to ON, Station VM feature (PGM 127) can be used.	0: OFF 1: ON	ON
24-4	REMOTE VM ACCESS (1:ON/0:OFF) : ON	If this value is OFF, the user cannot access their VSF mailbox via DID, DISA CO call and so on (i.e. through CO line channel).	0: OFF 1: ON	ON
24-5	TRANSFER TONE USAGE (1:ON/0:OFF) : OFF	If this value is ON, Warning tone is served to the [transfer to] station. This is only applied to screened transfer case.	0: OFF 1: ON	OFF
24-6	LCR DIAL TONE DETECT (1:ON/0:OFF): OFF	If this value is set to ON, system first checks if the CO provides dial tone in case if analog CO is seized for LCR dialing. If there's no dial tone, the call is rerouted to Alternate DMT Index. If LCR type is set to M13, LCR dial tone detect option is not applied.	0: OFF 1: ON	OFF
24-7	ICM CALL LOG (1:ON/0:OFF) : OFF	If this value is set to ON, system save and provide ICM call log for IP and LDP phone.	0: OFF 1: ON	OFF
24-8	ATD PWORD USAGE (1:ON/0:OFF) : OFF	If this value is set to ON, system requests password below cases. When a user enters attendant program([PGM] + 0) in attendant keyset, When a user enters speed program in attendant keyset, When a user assigns attendant program code([PGM] + 0) to flexible button in attendant keyset, Name of picked up station is display	0: OFF 1: ON 0: OFF	OFF
	PICKUP STA NAME USAGE (1:ON/0:OFF) : OFF	when pickup internal call.	1: ON	
24-10	DISPLAY LCR MODE (1:ON/0:OFF) : ON	Display "LCR MODE" when LCR is activated.	0: OFF 1: ON	ON

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-11	EASY 5 WAKE UP USAGE (1:ON/0:OFF) : OFF	If this value is set to ON, and PGM 161 – 5-Wake Up Usage is also set to ON, each station user can enter his wake up time, without entering wake up type, wake up index.	0: OFF 1: ON	OFF
24-12	WEB LOGIN ID USAGE (1:ON/0:OFF) : OFF	If this value is set to ON, Login ID should be entered to login the web admin.	0: OFF 1: ON	OFF
24-13	VM MEX NOTIFY OVER LCO (1:EN/0:DIS) : DISABLE	If this value is set to ON, LCO can be used for the VM notification call to MEX.	0: DISABLE 1: ENABLE	DISABLE
24-14	MODEM ASC CO LINE (00-74) : 00	Call is delivered to built-in modem if calls come in from assigned CO line.	00-74	0
24-15	MEET ME SOFT DISPLAY (1:ON/0:OFF) : ON	If this value is set to OFF, {MEET ME} soft button is not displayed in being paged.	0: OFF 1: ON	ON
24-16	DEV INFO REQ INTERVAL (015-255) : 015	System checks each device by polling message periodically using this timer.	015-255	015
24-17	NUM OF CLI WAIT LIST (000-255) : 000	The number of CLI wait list can be the available number.	000-255	000
24-18	EMER MAIL STA	When an Emergency Mailbox Station is assigned, an emergency call placed by a station is recorded automatically to the assigned mailbox.		
24-19	MSVC XML PORT (00001-65535) : 07878	The XML port used to support Web callback, call-through and iPECS ClickCall application for MSVC (Mobile Service) must be defined.	00001~65535	7878
24-20	MEXT CO PASSWD (1:ON/0:OFF) : OFF	When a mobile extension places an external call using an iPECS CO/IP Line, the user may be required to enter a valid Authorization code to place the call.	OFF ON	OFF
24-21	DIAL BY NAME LIST (0:ALL/1:GRP) : OFF	The Dial by Name feature can allow stations in any ICM tenancy groups to call a station any in ICM Tenancy group. When desired, Dial by Name can be limited to function within allowed Tenancy calling groups, PGM 125.	All Accessible ICM Group only	ALL

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-22	DIAL BY SYSNAME LIST (0:ALL/1:ZONE) : OFF	If this value is set to "Accessible System Speed Zone Only", the system speed dial number of Accessible system speed zone (System Speed Zone(232)) is displayed in {Dial by Name}.	All, Accessible System Speed Zone Only	ALL
24-23	NO CLI CALL LOG (1:ON/0:OFF) : OFF	Leave system Call log even though there is no CLI information if it is ON. Otherwise Call log is not leaved.	OFF ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	OFF-HOOK RING TYPE (1:MUTE/0:BURST) : MUTE	Off-hook ring can be a single tone burst or muted normal ring.	0:BURST 1:MUTE	MUTE
2	PAGE WARN TONE (1 : ON/ 0: OFF) : ON	A warning tone can be sent prior to a page announcement.	0: OFF 1: ON	ON
3	AUTOMATIC PRIVACY (1 : ON/ 0: OFF) : ON	Automatic Privacy can be disabled, allowing stations to join an active CO/IP call. A warning tone can be provided, see button 4 below.	0: OFF 1: ON	ON
4	PRIVACY WARN TONE (1 : ON/ 0: OFF) : ON	If desired, warning tone can be provided when privacy is overridden.	0: OFF 1: ON	ON
5	ACD PRINT ENABLE (1 : ON/ 0: OFF) : OFF	ACD statistics can be periodically sent to the assigned serial port. To provide periodic reports, this entry must be ON.	0: OFF 1: ON	OFF
6	ACD PRINT TIMER(1sec) (001 –255) : 001	This entry defines the time, in 10- second increments, between the periodic ACD reports.	001~255 (10 sec)	010
7	CLEAR ACD DATABASE (1 : ON/ 0: OFF) : OFF	When a periodic report is sent, the ACD database can be cleared automatically, if "ON".	0: OFF 1: ON	OFF
8	OVERRIDE 1 ST CO GRP (1: ON/0: OFF) : ON	When a user dials '9', the system can search all CO/IP Groups for the first available CO/IP line.	0: OFF 1: ON	ON
9	BASE CODEC TYPE (0-3): G.711(0)	The default codec can be defined as G.711 or G.723.1 for decreased bandwidth needs. The selected codec will be used on all internal communications as well as for remote iPECS devices.	0: G.711 1: G.723.1 2:G.729 3:G.722	G.711

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
10	G711 PACKETIZATION(1ms) (10/20/30) : 20	The G.711 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.711 codec is used.	10/20/30	20
11	G723 PACKETIZATION(1ms) (30/60) : 030	The G.723.1 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.723.1 codec is used.	30/60	030
12	NETWORK TIME/DATE (0-2) : DISABLE	The system can use ISDN Network time or NTP to synchronize time with the ISDN or data network. To disable time sync, use OFF. ISDN sync is not available in USA version.	0~2	DISABLE
13	INCOMING TOLL CHK (1:ON/0:OFF) : ON	The system can invoke COS dialing restrictions when a user dials while connected to incoming call.	0: OFF 1: ON	ON
14	WEB SERVER PORT (00001-65535) : 00080	This field determines the TCP port employed to access the system WEB server.	00001~ 65535	00080
15	UNUSED			
16	OLD AUTH CODE USAGE (1:ON/0:OFF) : ON	System Authorization codes are entered by the user as "*" and the code (ON) or "*"+ the Auth code index and the code (OFF).	0: OFF 1: ON	ON
17	COS 7 WHEN AUTH FAIL (1:ON/0:OFF) : OFF	If user fails to enter a valid Authorization code in the number of attempts assigned in FAC RETRY COUNT, PGM 160-button 16, the station is disconnected or the Station COS is changed to COS 7. In the latter case, the user must employ COS Restore in Station User PGM 2 to return the station to the normal COS.	0: OFF 1: ON	OFF
18	UNIFIED MESSAGE FORMAT (1:ON/0:OFF): OFF	System Integration Messages are sent out the defined serial or TCP channel.	0: OFF 1: ON	OFF
19	RECORD WARNING TONE (1:ON/0:OFF) : ON	When call recording is active, a tone can be sent to all connected parties to indicate the conversation is being recorded.	0: OFF 1: ON	ON
20	UNUSED	Unused.	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
21	UNUSED	Unused.	0: OFF 1: ON	OFF
22	SMS CENTER NUMBER	When the PSTN will be used to send SMS, the phone number of the Short Message Service Center must be entered.	23 digits	
23	SMS PROTOCOL (0-8) : NONE (0)	The Short Message Service Protocol must be selected to support SMS: 0: No PSTN SMS support, 1: ETSI-P1 2: ETSI-P2 3: KT-LivingNet 4: SIP-Text 5: SIP-XML 6: KT-IP-PBX 7: SKN-IP-PBX 8: KT XML	0~8	NONE
24	SYSTEM 2 ADDED ATTR PRESS FLEX KEY (1-23)	Select button 24 to access added attributes 1~23.	FLEX 1 ~ FLEX 23	
24-1	G722 PACKETIZATION(1ms) (10/20/ 30) : 20	The G.722 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.722 codec is used.	10/20/30msec	20
24-2	UNUSED	This filed is used only for KOREA.		
24-3	SMS CENTER CLI	When the CO/IP will be used to receive SMS, the Caller Id expected from the Short MSG Service Center must be defined.	23 digits	
24-4	TRANSIT-OUT SECURITY (1:ON/0:OFF) : ON	Check IP address for transit-out in the master system, if it is not valid IP address then it will be denied.	0: OFF 1: ON	ON
24-5	EMR CALL ATD NOTIFY (1:ON/0:OFF) : ON	Provide notification to attendant when user dials emergency number.	0: OFF 1: ON	ON
24-6	UNUSED	Unused.	0: LOCAL 1: MCIB_V	MCIB_V
24-7	FIRST DIGIT * IN SPD DISPLAY SECURITY (0)	If it is '0' then the first '*' in speed will be used for display security otherwise DTMF '*' will be send.	0: DISPLAY SECURITY 1: DIGIT *	DISPLAY SECURITY
24-8	STRONG PASSWORD (1:ON/0:OFF) :OFF	ON: Password in PGM162 must be longer than 8 and made by Numbers, Characters.	0: OFF 1: ON	ON

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-9	VSF SMTP PORT (00001~65535) : 00025	SMTP port of VMIU/VMIB	00001~65535	00025
24-10	ICM BUSY SVC (1:INTR/0:OHVO): OHVO	If ICM busy, choice OHVO or Intrusion.	0: OHVO 1: INTR	OHVO
24-11	AUTO SAVE NEW MEG (1:ON/0:OFF) : OFF	If it's ON, Move current (new) message to saved message category. If it is OFF, leave it in new message category.	0: OFF 1: ON	OFF
24-12	IGMP QUERY USAGE (1:ON/0:OFF) : OFF	Regarding PGM161 (Flex 24-12 to 15) are used when there are some problems in multicast packet forwarding like as registering devices or multicast MOH. With some multicast snoop enabled switch devices, they do not forward multicast packets if there is no IGMP query device in the network. This entity enables the IGMP query option and MPB sends IGMP query message with periodic to avoid multicast related problem.	0: OFF 1: ON	OFF
24-13	IGMP INTV_TMR(1sec) (0000~3600) : 0180	This timer defines the interval time of each IGMP query messages. With some special switches, this timer value should be modified.	(0~3600) sec	180
24-14	IGMP QUERY ALL HOSTS (1:ON/0:OFF) : ON	This entity defines which destination address is used when IGMP query is sent to. If ON is selected, query message is sent to ALL HOST group by using address 224.0.0.1. And OFF is selected, query is sent to iPECS specific address by using address 239.20.19.50. This should be ON when there is a MOH problem.	0: OFF 1: ON	ON
24-15	IGMP QUERY GENERIC (1:ON/0:OFF) : OFF	This entity specifies a group address being queried. If ON is selected, all multicast group are queried. If OFF is selected, iPECS registering device group (239.20.19.50) is only queried. This should be ON when there is a MOH problem.	0: OFF 1: ON	OFF
24-16	UNUSED			

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-17	RESTRICT * AND # (1:ON/0:OFF) : OFF	If it's ON, if the first digit is * or # then the call will be prohibited.	0: OFF 1: ON	OFF
24-18	RESTRICT ANS DGT DISP (1:ON/0:OFF) : ON	If it's OFF, SMDR print digits after answer.	0: OFF 1: ON	ON
24-19	IP BIND USAGE (1:ON/0:OFF) : OFF	If It's ON, VOIU/VOIB will apply IP- Binding with information in PGM130 (Flex 18 – Flex 24-3) / PGM133 (Media port)	0: OFF 1: ON	OFF
24-20	ACD MAILSEND WEEKLY SET N/A (0-7)	Sets day of week to send ACD statistic data weekly. (0 for no weekly data, 1-7 for Monday through Sunday)	0-7	0
24-21	ACD MAILSEND DAILY SET (00-23)	Sets time-of-day for ACD statistic data to be sent on a daily basis. (00 for no daily records, 01-23 for hour of the day)	00-23	
24-22	ACD DEL AFTER MAILSEND (1 : ON/ 0: OFF) : OFF	Delete ACD statistic data after sending e-mail.	0: OFF 1: ON	OFF
24-23	NEW 5 WAKE UP USAGE (1:ON/0:OFF) : OFF	New Wake-Up function usage option.	0: OFF 1: ON	OFF

3.3.6.2 System Password – PGM 162

Access to the system database and maintenance functions can be protected by passwords up to twelve (12) digits. Three passwords can be defined, Keyset Admin, Remote access, and CID. The Maintenance password has full and unlimited access to the database and maintenance functions of the system. The User and Admin password have access to database items defined in Web Admin. Note there are no default passwords.

PROCEDURE:	
SYSTEM PASSWORD PRESS FLEX KEY (1-3)	1. Press the [PGM] button and dial 162.
KEYSET ADMIN PASSWORD @@@@@@@@@@@@	Press the Flex button for the desired password: For the Keyset Admin password press Flex button 1. For the Remote access password press Flex button 2. For the CID password press Flex button 3.
REMOTE ACCESS PASSWORD @@@@@@@@@@@@@	Enter the desired password, up to 12 digits. To erase a password press the [SPEED] button.
CID PASSWORD @@@@@@@@@@@@	Enter the desired password, up to 12 digits. To erase a password press the [SPEED] button.
	Press the [Save] button to store the password entry.

Table 3.3.6.2-1 System Passwords

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	KEYSET ADMIN PASSWORD @@@@@@@@@@@@	Admin password, configurable database access in Keyset Admin.	12 digits	none
2	REMOTE ACCESS PASSWORD @@@@@@@@@@@@	Remote access password, full and unlimited access to database and maintenance functions.	12 digits	none
3	CID PASSWORD @@@@@@@@@@@@	CID password.	12 digits	none

3.3.6.3 Alarm Attributes – PGM 163

The system can monitor an external contact. This contact is most often employed as an Alarm indicator or Doorbell. The Alarm attributes define the operation of the external contact. The Alarm Signal sent to assigned stations can be repeating or a single burst, the former is often desired. For the Doorbell, a single tone is sent each time the contact activates. Refer to Table 3.3.6.3-1 for a description of the features, the data entries required and LCD displays for each attribute.

PROCEDURE:	
SYSTEM ALARM ATT PRESS FLEX KEY (1-8)	1. Press the [PGM] button and dial 163.
	Press the desired Flex button; refer to Table 3.3.6.3-1.
	Use the dial-pad to enter desired data for the attribute, refer to Table 3.3.6.3-1.
	Press the [Save] button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ALARM ENABLE (1:ON/0:OFF) : OFF	This parameter enables the external contact monitoring circuitry.	0: OFF 1: ON	OFF
2	ALARM CONTACT TYPE (1:CLOSE/0:OPEN) : CLOSE	This parameter establishes the contact state that will activate the Alarm, close or open.	0: Open 1: Close	CLOSE
3	ALARM/DOORBELL MODE (1:ALARM/0:BELL): ALARM	The contact can be treated to function as a doorbell instead of an alarm.	0: Bell 1: Alarm	ALARM
4	ALARM SIGNAL MODE (1:RPT/0:ONCE) : RPT	The assigned stations will receive a Repeating signal or single burst (ONCE) of alarm tone.	0: Once 1: Repeat	RPT
5	EMER CALL NOTIFY (1:ON/0:FF) : ON	This parameter enables/disables the emergency call notification.	0: OFF 1: ON	ON
6	DCOB FAULT NOTIFY (1:ON/0:FF) : ON	This parameter enables/disables the DCOB Fault notification.	0: OFF 1: ON	ON
7	SIP REG FAULT NOTIFY (1:ON/0:FF) : ON	This parameter enables/disables the SIP Registration Fault notification.	0: OFF 1: ON	ON
8	TEMP LICENSE NOTIFY (1:ON/0:OFF) : ON	This entry enables user to get the notification before expiring Temp license.	0: OFF 1: ON	ON

Table 3.3.6.3-1 ALARM ATTRIBUTES (PGM 163)

3.3.6.4 Attendant Assignment – PGM 164

eMG80 is consist of 1 System attendant and 3 Main attendant. eMG800 is consist of 1 System attendant and 4 Main attendant. The System Attendant has higher priority in call handling and system management functions with access to PGM 0. As a default, the System Attendant is assigned Station 100 for eMG80 and Station 1000 for eMG800. Main Attendants are not assigned by default.

PROCEDURE:	
ATTENDANT ASSIGNMENT 100	1. Press the [PGM] button and dial 164.
ATTENDANT ASSIGNMENT 100	2. Select the desired button:
	Button 1: System Attendant
	Button 2: Main Attendants
	3. Use the dial-pad to enter desired station numbers for the System and Main Attendants. Use the [SPEED] button to erase an entry and the [VOL UP]/[VOL DOWN] button to scroll through the Main Attendants.
	 Press the [Save] button to store the Attendant assignment entry.

3.3.6.5 Multi-cast RTP/RTCP Ports - PGM 165

Multi-cast is employed by the system to send BGM, MOH, paging and Push-To-Talk packets. Employing a single multi-cast packet reduces the overall LAN traffic. In some cases, specifically when multiple systems are connected to the same default router it may be advantageous to define different ports for each system.

PROCEDURE:	
MULTICAST RTP/RTCP PRESS FLEX KEY (1-2)	1. Press the [PGM] button and dial 165.
MULTICAST RTP PRESS FLEX_KEY (01-24)	Press Flex button 1 for RTP ports or Flex button 2 for RTCP ports.
	Press the desired Flex button; refer to Table 3.3.6.5-1. The 24 Flex buttons are used to assign ports for the first 24 RTP/RTCP functions. To assign port numbers for additional RTP/RTCP functions, use the [VOL UP]/[VOL DOWN] buttons.
	Use the dial-pad to enter desired data for the port, refer to Table 3.3.6.5-1.

Table 3.3.6.5-1 MULTI-CAST RTP/RTCP	PORTS — (PGM 165)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	M-CAST RTP BGM INT 8100 (8101)	RTP and RTCP ports for internal BGM.	0000-9999	8100 (8101)
2	M-CAST RTP BGM EXT 1 8102 (8103)	RTP and RTCP ports for external BGM 1.	0000-9999	8102 (8103)
3	M-CAST RTP BGM EXT 2 8104 (8105)	RTP and RTCP ports for external BGM 2.	0000-9999	8104 (8105)
4	M-CAST RTP I-PAGE 1 8106 (8107)	RTP and RTCP ports for Internal Page 1.	0000-9999	8106 (8107)
5	M-CAST RTP I-PAGE 2 8108 (8109)	RTP and RTCP ports for Internal Page 2.	0000-9999	8108 (8109)
6	M-CAST RTP I-PAGE 3 8110 (8111)	RTP and RTCP ports for Internal Page 3.	0000-9999	8110 (8111)
7	M-CAST RTP I-PAGE 4 8112 (8113)	RTP and RTCP ports for Internal Page 4.	0000-9999	8112 (8113)
8	M-CAST RTP I-PAGE 5 8114 (8115)	RTP and RTCP ports for Internal Page 5.	0000-9999	8114 (8115)
9	M-CAST RTP I-PAGE 6 8116 (8117)	RTP and RTCP ports for Internal Page 6.	0000-9999	8116 (8117)
10	M-CAST RTP(RTCP) I-PAGE 7 8118 (8119)	RTP and RTCP ports for Internal Page 7.	0000-9999	8118 (8119)
11	M-CAST RTP I-PAGE 8 8120 (8121)	RTP and RTCP ports for Internal Page 8.	0000-9999	8120 (8121)
12	M-CAST RTP I-PAGE 9 8122 (8123)	RTP and RTCP ports for Internal Page 9.	0000-9999	8122 (8123)
13	M-CAST RTP I-PAGE 10 8124 (8125)	RTP and RTCP ports for Internal Page 10.	0000-9999	8124 (8125)
14	M-CAST RTP I-PAGE 11 8126 (8127)	RTP and RTCP ports for Internal Page 11.	0000-9999	8126 (8127)
15	M-CAST RTP I-PAGE 12 8128 (8129)	RTP and RTCP ports for Internal Page 12.	0000-9999	8128 (8129)

			,	
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
16	M-CAST RTP I-PAGE 13 8130 (8131)	RTP and RTCP ports for Internal Page 13.	0000-9999	8130 (8131)
17	M-CAST RTP I-PAGE 14 8132 (8133)	RTP and RTCP ports for Internal Page 14.	0000-9999	8132 (8133)
18	M-CAST RTP I-PAGE 15 8134 (8135)	RTP and RTCP ports for Internal Page 15.	0000-9999	8134 (8135)
19	M-CAST RTP I-PAGE 16 8136 (8137)	RTP and RTCP ports for Internal Page 16.	0000-9999	8136 (8137)
20	M-CAST RTP I-PAGE 17 8138 (8139)	RTP and RTCP ports for Internal Page 17.	0000-9999	8138 (8139)
21	M-CAST RTP I-PAGE 18 8140 (8141)	RTP and RTCP ports for Internal Page 18.	0000-9999	8140 (8141)
22	M-CAST RTP I-PAGE 19 8142 (8143)	RTP and RTCP ports for Internal Page 19.	0000-9999	8142 (8143)
23	M-CAST RTP I-PAGE 20 8144 (8145)	RTP and RTCP ports for Internal Page 20.	0000-9999	8144 (8145)
24	M-CAST RTP I-PAGE 21 8146 (8147)	RTP and RTCP ports for Internal Page 21.	0000-9999	8146 (8147)
25	M-CAST RTP I-PAGE 22 8148 (8149)	RTP and RTCP ports for Internal Page 22.	0000-9999	8148 (8149)
26	M-CAST RTP I-PAGE 23 8150 (8151)	RTP and RTCP ports for Internal Page 23.	0000-9999	8150 (8151)
27	M-CAST RTP I-PAGE 24 8152 (8153)	RTP and RTCP ports for Internal Page 24.	0000-9999	8152 (8153)
28	M-CAST RTP I-PAGE 25 8154 (8155)	RTP and RTCP ports for Internal Page 25.	0000-9999	8154 (8155)
29	M-CAST RTP I-PAGE 26 8156 (8157)	RTP and RTCP ports for Internal Page 26.	0000-9999	8156 (8157)
30	M-CAST RTP I-PAGE 27 8158 (8159)	RTP and RTCP ports for Internal Page 27.	0000-9999	8158 (8159)
31	M-CAST RTP I-PAGE 28 8160 (8161)	RTP and RTCP ports for Internal Page 28.	0000-9999	8160 (8161)

Table 3.3.6.5-1 MULTI-CAST RTP/RTCP PORTS — (PGM 165)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
32	M-CAST RTP I-PAGE 29 8162 (8163)	RTP and RTCP ports for Internal Page 29.	0000-99999	8162 (8163)
33	M-CAST RTP I-PAGE 30 8164 (8165)	RTP and RTCP ports for Internal Page 30.	0000-9999	8164 (8165)
34	M-CAST RTP I-PAGE 31 8166 (8167)	RTP and RTCP ports for Internal Page 31.	0000-9999	8166 (8167)
35	M-CAST RTP I-PAGE 32 8168 (8169)	RTP and RTCP ports for Internal Page 32.	0000-9999	8168 (8169)
36	M-CAST RTP I-PAGE 33 8170 (8171)	RTP and RTCP ports for Internal Page 33.	0000-9999	8170 (8171)
37	M-CAST RTP I-PAGE 34 8172 (8173)	RTP and RTCP ports for Internal Page 34.	0000-9999	8172 (8173)
38	M-CAST RTP I-PAGE 35 8174 (8175)	RTP and RTCP ports for Internal Page 35.	0000-9999	8174 (8175)
39	M-CAST RTP I-PAGE ALL 8176 (8177)	RTP and RTCP ports for Internal All Call Page.	0000-9999	8176 (8177)
40	M-CAST RTP E-PAGE 1 8178 (8179)	RTP and RTCP ports for External Page 1.	0000-9999	8178 (8179)
41	MULTICAST RTP E-PAGE 2 8180 (8181)	RTP and RTCP ports for External Page 2.	0000-9999	8180 (8181)
42	M-CAST RTP E-PAGE ALL 8182 (8183)	RTP and RTCP ports for External All Call Page.	0000-9999	8182 (8183)
43	M-CAST RTP PAGE ALL 8184 (8185)	RTP and RTCP ports for All Call Page.	0000-9999	8184 (8185)
44	M-CAST RTP PTT 1 8186 (8187)	RTP and RTCP ports for PTT group 1.	0000-9999	8186 (8187)
45	M-CAST RTP PTT 2 8188 (8189)	RTP and RTCP ports for PTT group 2.	0000-9999	8188 (8189)
46	M-CAST RTP PTT 3 8190 (8191)	RTP and RTCP ports for PTT group 3.	0000-9999	8190 (8191)
47	M-CAST RTP PTT 4 8192 (8193)	RTP and RTCP ports for PTT group 4.	0000-9999	8192 (8193)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
48	M-CAST RTP PTT 5 8194 (8195)	RTP and RTCP ports for PTT group 5.	0000-9999	8194 (8195)
49	M-CAST RTP PTT 6 8196 (8197)	RTP and RTCP ports for PTT group 6.	0000-9999	8196 (8197)
50	M-CAST RTP PTT 7 8198 (8199)	RTP and RTCP ports for PTT group 7.	0000-9999	8198 (8199)
51	M-CAST RTP PTT 8 8200 (8201)	RTP and RTCP ports for PTT group 8.	0000-9999	8200 (8201)
52	M-CAST RTP PTT 9 8202 (8203)	RTP and RTCP ports for PTT group 9.	0000-9999	8202 (8203)
53	M-CAST RTP PTT ALL 8204 (8205)	RTP and RTCP ports for PTT group ALL.	0000-9999	8204 (8205)
54	M-CAST RTP BGM VSF 1 8206 (8207)	RTP and RTCP ports for VSF/VMIB BGM use.	0000-9999	8206 (8207)
55	M-CAST RTP SLT MOH 1 8208 (8209)	RTP and RTCP ports for SLT MOH 1 use.	0000-9999	8208 (8209)
56	M-CAST RTP SLT MOH 2 8210 (8211)	RTP and RTCP ports for SLT MOH 2 use.	0000-9999	8210 (8211)
57	M-CAST RTP SLT MOH 3 8212 (8213)	RTP and RTCP ports for SLT MOH 3 use.	0000-9999	8212 (8213)
58	M-CAST RTP SLT MOH 4 8214 (8215)	RTP and RTCP ports for SLT MOH 4 use.	0000-9999	8214 (8215)
59	M-CAST RTP SLT MOH 5 8216 (8217)	RTP and RTCP ports for SLT MOH 5 use.	0000-9999	8216 (8217)
60	M-CAST RTP VSF MOH 2 8218 (8219)	RTP and RTCP ports for VSF/VMIB MOH 2 use.	0000-9999	8218 (8219)
61	M-CAST RTP VSF MOH 3 8220 (8221)	RTP and RTCP ports for VSF/VMIB MOH 3 use.	0000-9999	8220 (8221)

Table 3.3.6.5-1 MULTI-CAST RTP/RTCP PORTS — (PGM 165)

3.3.6.6 DISA COS – PGM 166

A DISA user is subject to the dialing restrictions assigned in the DISA Class-of-Service (COS). The restrictions applied are the same as with the corresponding Station COS levels 1~11 and interact with the CO COS in the same manner. Assignments for DISA COS are made for the Day, Timed and Night mode of system operation. The default for all three DISA COS modes is 1, no restrictions.

PROCEDURE:	
DISA COS (1 – 11) DAY: 07 NIGHT: 07 TIMED:07	1. Press the [PGM] button and dial 166.
	Select the desired button;
	Button 1: Day mode COS
	Button 2: Night mode COS
	Button 3: Timed mode COS
	Use the dial-pad to enter desired DISA COS (1~11).
	Press the [Save] button to store the DISA COS data entry.

3.3.6.7 DID/DISA Destination – PGM 167

When a DID line or DISA user dials an invalid/vacant or busy station number the caller will be sent to the assigned destination that is selected according to the CO tenancy group of the DID/DISA line.

The destination is separately defined for invalid, busy, no answer and DND conditions and can be defined as the Attendant, busy tone, Station Group or VSF System Announcement.

Note that for calls on a DID line to a busy station, Call Wait can be assigned, refer to PGM 113, Station Attributes III, button 9.

Also, for DID calls only, announcements (prompts) can be sent from the VSF to the caller for various conditions, busy, error, DND, No Answer, reroute busy, reroute error, reroute no answer, or Attendant Transfer.

PROCEDURE:		
DID/DISA DESTINATION	1. Press the [PGM] button and dial 167.	
ENTER ICM GROUP (00-15)	Select ICM tenancy group (eMG80:0~15 / eMG800:0~32)	
DID/DISA DESTINATION :0 PRESS FLEX KEY (1-9)	Press the [PGM] button and dial 167 and press Flexible button (Ex.1).	
BUSY DESTINATION TONE (F1-F4)	Select the desired Flex button, Button 1: Busy Destination (F1-F4) Button 2: Error Destination (F1-F4) Button 3: No Answer Destination (F1-F4) Button 4: VSF Prompt Usage (F1-F5) Button 5: Reroute Busy Destination (F1-F3) Button 6: Reroute Error Destination (F1-F3) Button 7: Reroute No answer Destination (F1-F3) Button 8: DND destination (F1-F3) Button 9: Reroute NET CO BUSY Destination (F1-F3)	
	For Flex button 1~3 or 1~4, use the dial-pad to enter 1: ON or 0: OFF for the following VSF prompts. 1: Tone 2: Attendant 3: Station Group number 4: VSF Announcement For Flex button 4, select Flex button 1~5 for the desired VSF prompt and use the dial-pad to enter 1: ON or 0: OFF: Button 1: Busy Prompt Button 2: Error Prompt Button 3: DND Prompt Button 4: No Answer Prompt	
	Button 5: Attendant Transfer Prompt	
	Press the [Save] button to store the destination data entry.	

3.3.6.8 External Control Contacts – PGM 168

The MPBs include programmable contacts, which can be used to control external devices. Refer to Table 1.1-1 System Capacity Chart for number of available contacts. Each contact is assigned to activate under one of several conditions. As a Loud Bell Contact (LBC), the contact will activate when the assigned station or group receives an external call. Note for LBC, when the system is in the Night or Timed Ring mode, the contact will activate for incoming UNA calls and will ignore any station assignment. The contact may alternatively activate as a Door open contact, when External Page Zone 1 is accessed.

PROCEDURE:	
EXT CONTROL CONTACT PRESS FLEX KEY (1-2)	1. Press the [PGM] button and dial 168.
EXT CONTROL CONTACT NO 1 : (1-3)	Select Flex button 1~2 for the desired External Control contact.
	Use the dial-pad to enter desired data.
	1: LBC + station number
	2: Door open
	3: External Page 1 access
	Press the [Save] button to store the External Contact data entry.

3.3.6.9 LCD Display Mode -PGM 169

The LCD display mode sets the time (12/24 hr.), date (day/month order), language and day-ofweek display. Refer to Table 3.3.6.9-1 and Table 3.3.6.9-2 for a description of the modes, the data entries required and LCD displays for each attribute.

PROCEDURE:	
LCD DISPLAY MODE PRESS FLEX KEY (1-4)	1. Press the [PGM] button and dial 169.
	Select the desired Flex button; refer to Table 3.3.6.9-1.
	Use the dial-pad to enter the desired mode and language, refer to Table 3.3.6.9-1 and Table 3.3.6.9-2.
	Press the [Save] button to store the LCD Display mode data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	LCD DATE MODE (1:MMDD/0:DDMM): MMDDYY	Sets the Date display as month/day or day/month.	0: DD-MM-YY 1: MM-DD-YY	MMDDYY
2	LCD TIME MODE (1:12H/0:24H):12H	Sets the Time display mode as 12 hour or 24-hour (military) time.	0: 24 Hour Mode 1: 12 Hour Mode	12 Hour
3	LCD LANGUAGE (00-18) ENGLISH (00)	Sets the Language used in the LCD; Refer to Table 3.3.6.9-2 below.	00~18	00 (English)
4	LCD WEEKDAY MODE (0-2) PGM 169 BTN 1 (0)	Sets the Day-of-Week (DoW) display mode: 0: no DoW, see PGM 169-BTN1 1: display MM/DD WDY, (alpha month display, overrides button 1. 2: display MM DD WDY, numeric month display, overrides button 1.	0: use button 1 1: MM/DD WDY 2: MM DD WDY	Use button 1

Table 3.3.6.9-1 LCD DISPLAY MODE (PGM 169)

Table 3.3.6.9-2 LCD LANGUAGE SELECTION

ENTRY	LANGUAGE
00	English
01	Italian
02	Finnish
03	Dutch
04	Swedish
05	Danish
06	Norwegian
07	Hebrew
08	German
09	French
10	Portuguese
11	Spanish
12	Korean
13	Estonian
14	Russian
15	Turkish
16	Polish
17	Greek
18	Arabic

3.3.6.10 Button LED Flash Rate - PGM 170

The LED flash rate for various functions and states can be assigned any one of the system's 15 signals. The various functions and states are shown in Table 3.3.6.10-1. The 15 flash signals available in the system are shown in Table 3.3.6.10-2.

PROCEDURE:	
LED FLASHING RATE PRESS FLEX_KEY (1-24)	1. Press the [PGM] button and dial 170.
LED FLASHING RATE PRESS FLEX KEY (25-35)	There are 35 Flash rate entries represented by Flex buttons. To access entries 25 to 35, use the [VOL UP]/[VOL DOWN] buttons. Press the desired Flex button; refer to Table 3.3.6.10-1.
	Use the dial-pad to enter desired data for the flash rate, refer to Table 3.3.6.10-1 and Table 3.3.6.10-2.
	Press the [Save] button to store the Flash Rate data entry.

	Table 3.3.0. 10-1 BUTTON LED FLASH RATE (FGM 170)			
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	COL IN RING FLASH 30 IPM	CO button Incoming ring flashing rate.	00-14	FLASH 30 IPM (2)
2	COL XFER RING FLASH 120 IPM	CO button transfer ring flashing rate.	00-14	FLASH 120 IPM(10)
3	COL QUE RING FLASH 240 IPM FLUTTER	CO button queue call back ring flashing rate.	00-14	FLASH 240 IPM FLUTTER(6)
4	COL RCL RING FLASH 480 IPM FLUTTER	CO button recall ring flashing rate.	00-14	FLASH 480 IPM FLUTTER(8)
5	COL I HOLD RING FLASH 30 IPM WINK	CO button I hold flashing rate.	00-14	FLASH 30 IPM WINK(12)
6	COL SYS HOLD RING FLASH 60 IPM	CO button system hold flashing rate.	00-14	FLASH 60 IPM (3)
7	COL EXC HOLD RING FLASH 120 IPM	CO button exclusive hold flashing rate.	00-14	FLASH 120 IPM(10)
8	COL OUT DISABLED FLASH 240 IPM FLUTTER	CO button out going disabled flashing rate.	00-14	FLASH 240 IPM FLUTTER(6)
9	COL IN OFFNET CFW FLASH 240 IPM FLUTTER	CO button incoming off-net call forward flashing rate.	00-14	FLASH 240 IPM FLUTTER(6)
10	COL DISA IND FLASH 240 IPM	CO button DISA indication flashing rate.	00-14	FLASH 240 IPM(5)

Table 3.3.6.10-1 BUTTON LED FLASH RATE (PGM 170)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
11	COL SUPP CW FLASH 240 IPM FLUTTER	CO button supplementary call waiting flashing rate.	00-14	FLASH 240 IPM FLUTTER(6)
12	COL SUPP HOLD FLASH 480 IPM	CO button supplementary hold flashing rate.	00-14	FLASH 480 IPM(7)
13	DSS CO RING FLASH 30 IPM	DSS button CO ring flashing rate.	00-14	FLASH 30 IPM (2)
14	DSS ALL RING FLASH 60 IPM	DSS button ICM ALL ring flashing rate.	00-14	FLASH 60 IPM (3)
15	DSS ASC RING FLASH 120 IPM	DSS button ICM ring associate device flashing rate.	00-14	FLASH 120 IPM(10)
16	DSS IN DND FLASH 60 IPM	DSS button station in DND.	00-14	FLASH 60 IPM (3)
17	DSS LOCK OUT FLASH 480 IPM FLUTTER	DSS button station in lockout.	00-14	FLASH 480 IPM FLUTTER(8)
18	DSS PRESEL MSG FLASH 30 IPM	DSS button station in pre-selected message.	00-14	FLASH 30 IPM (2)
19	DSS ICM HOLD FLASH 60 IPM	DSS button station on ICM hold.	00-14	FLASH 60 IPM (3)
20	DSS OTHER FLASH 120 IPM	DSS button station in other state.	00-14	FLASH 120 IPM(10)
21	UCD QUE RING 2 FLASH 60 IPM	CIQ Threshold # 1.	00-14	FLASH 60 IPM (3)
22	UCD QUE RING 6 FLASH 120 IPM	CIQ Threshold # 2.	00-14	FLASH 120 IPM(10)
23	UCD QUE RING 7-X FLASH 240 IPM	CIQ Threshold # 3.	00-14	FLASH 240 IPM(5)
24	UCD DND(OFF DUTY) FLASH 120 IPM	UCD agent is off duty (UCD DND).	00-14	FLASH 120 IPM(10)
25	UCD WARNING FLASH 120 IPM	UCD warning tone.	00-14	FLASH 120 IPM(10)
26	UCD HELP FLASH 120 IPM	UCD help request/response.	00-14	FLASH 120 IPM(10)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
27	FEATURE RECORD FLASH 240 IPM	FEATURE voice record button.	00-14	FLASH 240 IPM(5)
28	FEATURE MSG WAIT FLASH 30 IPM	FEATURE message wait.	00-14	FLASH 30 IPM (2)
29	DSS OUT OF SERVICE FLASH OFF	Station in out-of-service state.	00-14	FLASH OFF (00)
30	ON DEMAND RING MODE FLASH 60 IPM	DND LED of attendant for ring mode indication (On-demand).	00-14	FLASH 60 IPM (3)
31	NIGHT RING MODE FLASH STEADY	DND LED of attendant for ring mode indication (Night).	00-14	FLASH STEADY(01)
32	TIMED RING MODE FLASH 240 IPM	DND LED of attendant for ring mode indication (TIMED).	00-14	FLASH 240 IPM(5)
33	AUTO RING MODE FLASH 480 IPM	DND LED of attendant for ring mode indication (AUTO).	00-14	FLASH 480 IPM(7)
34	PAGE HOLD BUTTON FLASH 60 IPM	HOLD LED for paging.	00-14	FLASH 60 IPM (3)
35	DSS OFF DUTY FLASH 120 IPM	DSS button station in Hunt DND.	00-14	FLASH 120 IPM (10)
36	CALLBK FLASH OFF	Message wait (call back).	00-14	FLASH OFF

Table 3.3.6.10-1 BUTTON LED FLASH RATE (PGM 170)

Table 3.3.6.10-2 FLASH RATE TABLE (PGM 170)

Flash Rate	DESCRIPTION
00	Flash OFF
01	Steady On
02	30 ipm flash (30% On)
03	60 ipm flash (30% On)
04	60 ipm double wink (30% On-Off-On-Off & 70% On)
05	240 ipm flash (30% On)
06	240 ipm flutter (30% On-Off-On-Off-On & 70% Off)
07	480 ipm flash (30% On)
08	480 ipm flutter (30% On-Off-On-Off-On & 70% Off)
09	15 ipm flash (30% On)
10	120 ipm flash (30% On)
11	120 ipm flutter (30% On-Off-On-Off-On & 70% Off)
12	30 ipm double flash (30% On-Off-On & 70% Off)
13	480 ipm double wink (30% On-Off-On-Off & 70% On)
14	480 ipm double flash (30% On-Off-On & 70% Off)

3.3.6.11 Music Sources – PGM 171

Music inputs are provided for use as the Background Music and/or Music-On-Hold source inputs. MPBs provide for two (2) music inputs. The first input is the internal source and the second is external. In addition, a VMIU or VMIB announcement may be recorded and played as MOH to a holding caller. And SLIB port is used as MOH to a holding caller.

PROCEDURE:	
MUSIC ASSIGN PRESS FLEX KEY (1-6)	1. Press the [PGM] button and dial 171.
	Select the desired Flex button; refer to Table 3.3.6.11-1.
	Use the dial-pad to select the desired Music Source, refer to Table 3.3.6.11-1.
	To save the Music Source, press the [Save] button.

Table 3.3.6.11-1 MUSIC SOURCES FOR MOH & BGM (PGM 171)

BTN	ATTRIBUTE/DISPLAY		RANGE	DEFAULT
1			00: No BGM	
I	BGM TYPE (00-10)	Assigns the source for	01: INT Music	Music 1
	MUSIC 1 (01)	BGM.	02: EXT Music	
			03: VSF MOH	
			04-08: SLT MOH1-5	
			09: VSF MOH2	
			10: VSF MOH3	
2		Assigns the source for	00: Hold tone	Music 1
	MOH TYPE (00-10)	MOH	01: INT Music	
	MUSIC 1 (01)	Morr	02: EXT Music	
			03: VSF MOH	
			04-08: SLT MOH1-5	
			09: VSF MOH2	
			10: VSF MOH3	
3	INT MOH TYPE (00-12)	Assigns the input for	00: ROMANCE	ROMANCE
	ROMANCE (00)	source 1	01: TURKISH MARCH	
	ROMANCE (00)		02: GREEN SLEEVE	
			03: FUR ELISE	
			04: CARMEN / 05: WALTZ	
			06: PAVANE	
			07: SICHILIANO	
			08: SONATA	
			09: SPRING	
			10: CAMPANELLA	
			11: BADINERIE	
			12: BLUE DANUBE	
4	ASGN SLT MOH (F1-F5)	Assign the SLIB port as a	F1-F5:SLTMOH1-5	
	······································	SLT MOH.		
5	VSF MOH2 (01-70)	A system announcement	01-70	N/A
	VSF NO ()	could be used for VSF		
		MOH 2		
6	VSF MOH3 (01-70)	A system announcement	01-70	N/A
	VSF NO ()	could be used for VSF		
	VOF NO ()	MOH 3		

3.3.6.12 PABX Access Codes – PGM 172

When the system is used "behind" a PBX/CTX, the system needs to recognize the PBX/CTX Trunk access codes to implement dialing restriction, tone detection sequences and Flash timing. A maximum of four (4) Trunk Access Codes of one (1) or two (2) digits can be entered.

PROCEDURE:	
PABX ACCESS CODE PRESS FLEX KEY (1-4)	1. Press the [PGM] button and dial 172.
PABX ACCESS CODE 1	Select the Flex button for the desired Access Code (button 1~4).
	Use the dial-pad to enter the PABX Trunk Access Code, two (2) digits 0~9, Use "*" as a wild card (any digit) entry.
	Press the [Save] button to store the access code data entry.

3.3.6.13 Ringing Line Preference Priority – PGM 173

When multiple calls are ringing at a station assigned Ringing Line Preference, the order of preference can be assigned based on the type of call; CO/IP Transfer (XFR), CO/IP Recall (REC), Incoming call (INC), or CO/IP Queue (QUE). ICM calls are always assigned the lowest priority.

PROCEDURE:	
XFRRECINCQUE1234	1. Press the [PGM] button and dial 173.
	Select the Flex button for the desired Call Type; refer to Table 3.3.6.13-1.
	Use the dial-pad to enter the priority 1~4.
	Press the [Save] button to store the RLP Priority data entry.

BTN	DESCRIPTION	RANGE	DEFAULT
1	CO/IP Transferred call	1~4	1
2	CO/IP Recall	1~4	2
3	COIP Incoming call	1~4	3
4	Queued CO/IP recall	1~4	4

3.3.6.14 RS-232 Port Settings – PGM 174

The system has an RS–232 serial port located on the MPB; refer to the *iPECS eMG Hardware Description and Installation Manual*. Certain characteristics of each port are programmable: baud rate, RS–232 control, and page settings. Refer to Table 3.3.6.14-1 for a description of the settings, the data entries required and LCD displays.

PROCEDURE:	
RS232 PORT SETTING PRESS FLEX KEY (1-3)	1. Press the [PGM] button and dial 174.
	Press Flex button 1 for Serial port 1 or Flex button 2 for USB COM1 port or Flex button 3 for USB COM2 port, then select a Flex button for the desired attribute (e.g. Flex button 1), refer to Table 3.3.6.14-1.
	Use the dial-pad to enter the desired Port data, refer to Table 3.3.6.14-1.
	Press the [Save] button to store the Port Data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SERIAL1 PORT SETTING PRESS (F1-F5)	Select a Flex button for the desired attribute.	F1-F5	
1-1	SERIAL1 BAUD RATE BAUDRATE: 115200	This entry establishes the BAUD rate for the RS-232 serial port.	1: Unused 2: 9600 3: 19200 4: 38400 5: 57600 6: 115200	115200
1-2	SERIAL1 CTS/RTS (1:ON/0:OFF):OFF	The system's RS-232 port can support Clear-to-Send (CTS) and Ready-to-Send (RTS), control leads.	0: OFF 1: ON	OFF
1-3	SERIAL1 PAGE BREAK (1:ON/0:OFF):OFF	The system can send a page break command over the serial port at the end of each page. See button 4 for page length set-up.	0: OFF 1: ON	OFF
1-4	SERIAL1 LINE PAGE (001-199) : 066	This entry is used to set the page length, the number of lines the system will send before sending the page break, see button 3 above.	001~199	66
1-5	SERIAL 1 XON/XOFF (1:ON /0:OFF):XOFF	This entry enables XON/XOFF protocol. (It is not supported)	0: OFF 1: ON	XOFF

Table 3.3.6.14-1 RS-232 PORT SETTINGS (PGM 174)

3.3.6.15 Serial Port Function Selections – PGM 175

The system has an RS-232 serial port located on the MPB; Also, the system can employ IP over three (3) TCP channels for the output of various system information.

Each output function is assigned a Serial port or TCP channel that is used to output the information. In addition, a TCP port must be assigned when a function is defined to use a TCP channel. The Serial port is located on the MPB; refer to the *iPECS eMG Hardware Description and Installation Manual*. Note each function can be defined to use only one output. Refer to Table 3.3.6.15-1 and Table 3.3.6.15-2 for a description of the selections, the data entries required and LCD displays.

PROCEDURE:	
PRINT PORT SELECTION PRESS FLEX_KEY (1-2)	1. Press the [PGM] button and dial 175.
SELECT TCP NO PRESS FLEX_KEY (1-9)	Press Flex button 1 to assign the output type for each function or Flex button 2 to assign the TCP port for the function when a TCP channel is selected for the function.
	Select the Flex button for the desired function, refer to Table 3.3.6.15-1 or Table 3.3.6.15-2.
	Use the dial pad to enter the output type (Flex button 1) or TCP port (Flex button 2). For Flex button 1 the entries available are: 1: Serial port 1 2: Serial port 2 3: TCP channel 1 4: TCP channel 2 5: TCP channel 3 6: USB COM1 (6) 7: USB COM2 (7)
	Press the [Save] button to store the data entry.

Table 3.3.6.15-1 FUNCTION OUTPUT TYPE (PGM 175)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	OFF LINE SMDR (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for Off-line SMDR/Statistics output.	1~7	SERIAL1
2	ADMIN DATA (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the ADMIN Report output.	1~7	SERIAL1
3	TRAFFIC (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the TRAFFIC report output.	1~7	SERIAL1
4	SMDI (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the SMDI output.	1~7	SERIAL1

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
5	CALL INFO (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used to receive Call Information output.	1~7	SERIAL1
6	ON-LINE SMDR (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the On-line SMDR.	1~7	SERIAL1
7	TRACE (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the Trace output.	1~7	SERIAL1
8	DEBUG (1-7) SERIAL1 (1)	Defines the serial port or TCP channel used for the Debug output.	1~7	SERIAL1
9	ACD PACK (1-7) SERIAL 1 (1)	Defines the serial port or TCP channel used for the Unified Messages.	1~7	SERIAL1

Table 3.3.6.15-1 FUNCTION OUTPUT TYPE (PGM 175)

Table 3.3.6.15-2 OUTPUT FUNCTION TCP PORT (PGM 175)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	OFF-LINE SMDR (1-9999) TCP PORT(NULL)	Defines the TCP port used for Off- line SMDR/ Statistics output.	1 ~ 9999	NULL
2	ADMIN DATA (1-9999) TCP PORT(NULL)	Defines the TCP port used for the ADMIN Report output.	1 ~ 9999	NULL
3	TRAFFIC (1-9999) TCP PORT(NULL)	Defines the TCP port used for the TRAFFIC report output.	1 ~ 9999	NULL
4	SMDI (1-9999) TCP PORT(NULL)	Defines the TCP port used for the SMDI output.	1 ~ 9999	NULL
5	CALL INFO (1-9999) TCP PORT(NULL)	Defines the TCP port used to receive Call Information output.	1 ~ 9999	NULL
6	ON-LINE SMDR (1-9999) TCP PORT(NULL)	Defines the TCP port used for the On-line SMDR.	1 ~ 9999	NULL
7	TRACE (1-9999) TCP PORT(NULL)	Defines the TCP port used for the Trace output.	1 ~ 9999	NULL
8	DEBUG (1-9999) TCP PORT(NULL)	Defines the TCP port used for the Debug output.	1 ~ 9999	NULL
9	ACD PACK (1-9999) TCP PORT(NULL)	Defines the TCP port used for Unified Messages.	1 ~ 9999	NULL
10	I-SMDR (1-9999) TCP PORT(NULL)	Defines the TCP port used for I- SMDR(Interactive-SMDR)	1 ~ 9999	NULL

3.3.6.16 Break/Make Ratio – PGM 176

For Pulse dial CO Lines, the system supports 10pps and the percent break/make ratios of 66/33 or 60/40.

PROCEDURE:	
BREAK/MAKE RATIO (1:66/33 / 0: 60/40): 60/40	1. Press the [PGM] button and dial 176.
	Dial the digit (1 or 0) for the desired Break/Make ratio:
	1: 66/33
	0: 60/40
	To save Break/Make ratio data, press the [Save] button.

3.3.6.17 SMDR Attributes – PGM 177

Station Message Detail Recording (SMDR) is an ASCII output of details on both incoming and outgoing calls. Various SMDR attributes can be assigned including; output records for all calls or LD only, call cost per pulse when using call metering, etc. Refer to Table 3.3.6.17-1 for a description of each Attribute, LCD displays and the data entries required.

PROCEDURE:	
SMDR ATTRIBUTES PRESS FLEX KEY (01-24)	1. Press the [PGM] button and dial 177.
	Press the desired Flex button; refer to Table 3.3.6.17-1.
	Use the dial-pad to enter the desired data, refer to Table 3.3.6.17-1.
	To save SMDR Attribute data, press the [Save] button.

Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SMDR SAVE (1:ON/0:OFF) : OFF	The system can store all outgoing calls (ON) or only calls that exceed the SMDR Timer (OFF). The later allows PSTN call set-up times to be removed from the recorded call time. For SMDR Timer settings refer to button 12 below.	0: OFF 1: ON	OFF
2	SMDR PRINT (1 : ON/ 0: OFF) : ON	The system can output SMDR records automatically as they occur (real-time) or only when requested. When this attribute is ON, SMDR output is automatic at call completion.	0: OFF 1: ON	ON

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	RECORD TYPE (1 : LD/ 0: ALL) : LD	The system can record all outgoing calls or only long distance calls. Long distance calls are identified by the LD digit count and LD codes assigned in Flex button 4 and 19, respectively.	0: ALL calls 1: LD	LD
4	LD CALL DIGIT COUNT (07-15) : 07	Dialed numbers, which exceed the assigned LD digit count, are considered long distance calls for SMDR and COS purposes.	07-15	07
5	PRINT INCOMING CALL (1 : ON/ 0: OFF) : OFF	The system can output records for incoming calls as well as outgoing calls. If enabled, incoming calls are recorded as well as outgoing calls.	0: OFF 1: ON	OFF
6	PRINT LOST CALL (1 : ON/ 0: OFF) : ON	The system can provide lost call records, records for unanswered incoming (abandoned) calls.	0: OFF 1: ON	ON
7	RECORD IN DETAIL (1 : ON/ 0: OFF) : ON	The system can output detailed call records (ON) or summary information (total number of calls, cost and cost for each station).	0: OFF 1: ON	ON
8	HIDDEN DIALED DIGIT (0-9):0	For security purposes, digits dialed for an outgoing call can be hidden and replaced with "*". This field defines the number of digits to hide. Button 24 below defines whether leading or trailing digits are hidden. In addition, the station must be assigned for SMDR HIDE, PGM 113 button 5.	0~9	0
9	SMDR CURRENCY UNIT	The unit of currency used for call cost can be identified with 3 alpha characters for easy reference, refer to Table 2.1.2- 1.		-
10	COST PER PULSE 000000	When metering is provided by the PSTN, the cost per metering pulse can be assigned.	6 digits	000000
11	SMDR DECIMAL LOCATION (0-5) : 0	This value determines the position of the decimal in the Cost per Pulse, button 10, starting from the right most digits.	0~5	0
12	SMDR START TIMER (1sec) (000 – 250) : 000	To allow for call set-up times through the PSTN, a "Valid call timer" can be set. A call must be longer than the SMDR Start Timer for a call record to be generated if enabled under button 1 above.	000~250 seconds	000
13	SMTP IP ADDR (WEB) 0 .0 .0 .0	SMTP Mail server IPv4 address to receive the SMDR e-mail reports.	12-digits	
14	USER MAIL ADDR (WEB)	User e-mail address to receive the SMDR e-mail reports, display only. To change data, use Web Admin.		

Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
15	MAIL SEND WEEKLY SET N/A (0-7)	Sets day of week to send SMDR data weekly (0 for no weekly data, 1-7 for Monday through Sunday)	0-7	0
16	MAIL SEND DAILY SET 00(00-23)	Sets time-of-day for SMDR data to be sent on a daily basis (00 for no daily records, 01-23 for hour of the day).	00-23	00
17	AUTO SEND MODE (1 : ON/ 0: OFF) : OFF	If the SMDR buffer is full, the system can automatically send a notification by e-mail.	0: OFF 1: ON	OFF
18	AUTO DELETE MODE (1 : ON/ 0: OFF) : OFF	Delete SMDR records after sending e- mail.	0: OFF 1: ON	OFF
19	LONG DISTANCE CODE 0	For SMDR and COS purposes, five (5) Long Distance codes of up to two (2) digits each can be assigned. If dialed as the 1 st digits, the call is considered an LD call.	Flex button 1~5 + digits 0~9 & '*' as a wild card	BTN 1: 0
20	SMDR RIN/CLI/CPN SVC_I (0:RIN/1:CLI/2:CPN):0	For incoming calls, the system will send the defined data item for "Field I". The data item may be CLI, CPN or Ring Service Time. Note the User dialed number is always provided for an outgoing call.	0: RING 1: CLI 2: CPN	RING time
21	MSN PRINT ON SMDR (1:ON/0:OFF) : OFF	Print MSN number Information in SMDR Record.	0: OFF 1: ON	OFF
22	SMDR RIN/CLI/CPN SVC_II (0:RN/1:CL/2:CP/3:NO):2	For incoming calls, the system will send the defined data item for "Field II". The data item may be CLI, CPN or Ring Service Time.	0: RING 1: CLI 2: CPN 3: None	CPN
23	PRINT SERIAL NO (1 : ON/0:OFF) : OFF	Print record number as part of SMDR output, will reset to 1 when SMDR capacity is reached or SMDR records are deleted, see button 18.	0: OFF 1: ON	OFF
24	SMDR ATTRIBUTRS(2ND) PRESS FELX KEY (01-19)		01-19	
24-1	SMDR HIDE DGT 1:RIGHT/0:LEFT) : RIGHT	When "HIDDEN DIALED DIGIT" is enabled, button 8 above, this field determines if leading or trailing digits are hidden.	0: Left 1: Right	Right
24-2	SMDR INTERFACE SVC (0 : OFF/1:CO/2:CO&ICM) : 0	When enabled, the system stores SMDR data to send to applications including NMS upon request.	0: OFF 1: CO 2:CO&ICM	OFF
24-3	SMDR ICM SAVE (1:ON/0:OFF) : OFF	When enabled, intercom call data is stored as part of the SMDR data.	0: OFF 1: ON	OFF

Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-4	SMDR ICM PRINT (1:ON/0:OFF) : OFF	When enabled, intercom call data is printed as part of the On-line SMDR.	0: OFF 1: ON	OFF
24-5	SMDR DISC CAUSE (1:ON/0:OFF) : OFF	When enabled, the disconnect cause is stored in Off-line SMDR data and printed as parted of the On-line SMDR.	0: OFF 1: ON	OFF
24-6	LONG TIME CALL (10min) (000-144) : 000	To monitor long time CO call, a "Long Time Call" can be set. 0 means no monitoring. If CO call duration exceeds this value, a notification will be sent to NMS server and alarm will be displayed.	000 ~ 144	000
24-7	PRT LIMIT TO NET CALL (1:ON/0:OFF) : OFF	When CO call is transferred to Net transit out CO, it's automatically deleted from SMDR.	0: OFF 1: ON	OFF
24-8	INTERNATIONAL CODE	It is used to distinguish international call for SMDR.	4 digit	
24-9	MOBILE PHONE CODE	It is used to distinguish mobile call for SMDR.	4 digit	
24-10	SMTP MAIL SERVER ID	This field defines the user's ID for SMTP Mail server. If user's ID and password is assigned, SMTP Mail server will check the validation of user ID and password.	Max 40 Chars	
24-11	SMTP MAIL SERVER PWD	This field defines the user's password for SMTP Mail server. If user's ID and password is assigned, SMTP Mail server will check the validation of user ID and password.	Max 20 Chars	
24-12	TRANSFER CHARGE RATE (0-2): INDIVIDUAL	 INDIVIDUAL: When a call is transferred to another station, the transferred call is charged to two stations respectively. INTEGRATE XFERING: When a call is transferred to another station, the call is charged to the transferring station. INTEGRATE XFERED: When a call is transferred to another station, the call is charged to the transferring station. 	0: INDIVIDUAL 1: INTEGRATE XFERING 2: INTEGRATE XFERED	INDIVIDUAL

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-13	ATD XSFER CHARGE RATE (0-2):INDIVIDUAL	 INDIVIDUAL: When Attendant make outgoing call and transfer this call to another station, the transferred will follow the Transfer Charge Mode. ATD CHARGING: When Attendant makes outgoing call and transfers this call to another station, the call is charged to the Attendant. XFERED CHARGING: When Attendant makes outgoing call and transfers this call to another station, the call is charged to the transferred station. 	0: INDIVIDUAL 1: ATD CHARGING 2: XFERED CHARGING	INDIVIDUAL
24-14	SMTP DNS ADDR (WEB)	SMTP Mail server Domain address to receive the SMDR e-mail reports.	Max 100 Chars	-
24-15	SMTP SENDER MAIL (WEB)	Program VSF mail Sender mail Address (It is moved to web admin PGM 160- 161)	Max 40 Characters	-
24-16	SMTP SECURITY (0-2) : NO SECURITY	Choose SMTP Security (It is moved to web admin PGM 160-161)	0-2 (0:No security 1:SSL 2:TLS)	0
24-17	SMTP PORT (00001-65535) : 00025	Choose SMTP Port (It is moved to web admin PGM 160-161)	1-65535	25
24-18	VSF VM DISPLAY (0:'I', 1:'V')	If the value is 'l', the call to "VSF voice mail" is displayed as 'l' in SMDR. But if the value is 'V', the call to "VSF voice mail" is displayed as 'V' in SMDR. 'l' means "incoming call". 'V' is new indication for "VSF voice mail".	0:'l' 1:'V'	0:'I'
24-19	DISPLAY N TYPE (1:ON/0:OFF) : OFF	Display 'N' in SMDR to distinguish and it is network call.	1:ON 2:OFF	OFF

Table 3.3.6.17-1 SMDR ATTRIBUTES (PGM 177)

3.3.6.18 System Date, Time and Daylight Saving Time (DST) – PGM 178

The system Date, Time and DST feature are established by this entry. The date and time are employed for several features and functions including; LCR, LCD displays, SMDR outputs, Auto Ring Mode Selection, Wake-Up Alarm, etc. If DST is enabled the system time will be adjust one-hour forward and back at the DST start and end times, respectively.

PROCEDURE:	
SET TIME/DATE & DST PRESS FLEX_KEY (1 - 5)	1. Press the [PGM] button and dial 178.
	Press the Flex button for the desired Attribute; refer to Table 3.3.6.18-1.
	Button 1: Time
	Button 2: Date
	Button 3: DST enable mode
	Button 4: DST start time
	Button5 : DST end time
	Use the dial-pad to enter desired data for the Attribute, refer to Table 3.3.6.18-1.
	Press the [Save] button to store the data entry.

Table 3.3.6.18-1 SYSTEM TIME, DATE & DST (PGM 178)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SET TIME TIME 00:22(HH:MM)	Sets the system time.	HH:MM	
2	SET DATE DATE : 07/24/13(MMDDYY)	Sets the system date.	MMDDYY	
3	DST ENABLE MODE (1:ON/0:OFF) : OFF	Enables DST feature for System Time.	0: OFF 1: ON	OFF
4	DST START TIME ONLY POSSIBLE BY WEBADM	The DST start time. This can be set only via WEB Admin.	See DST Table	2 nd Sunday of March at 2:00 AM
5	DST END TIME ONLY POSSIBLE BY WEBADM	The DST end time. This can be set only via WEB Admin.	See DST Table	1 st Sunday in Nov., at 2:00 AM

3.3.6.19 Multi Language – PGM 179

The VMIU and VMIB support multiple languages; up to six languages may be supported simultaneously. Once the prompts are downloaded to the VMIU/VMIB, the caller receives the Language selection announcement for DISA and CCR calls as well as proceeding a Hunt Group guaranteed announcement or DID error announcement. The language selection announcement will only affect the language prompts enabled for use.

PROCEDURE:	
SET SYSTEM MULTI LANG ENTER SEQ NO (001 -300)	 Press the [PGM] button and dial 179 (e.g. enter 015). eMG800 sequence number range is 0001-2890.
SET 015 SYS MULTI LANG PRESS FLEX KEY (1-6)	Select Flex button, Button 1: N. AMERICA Prompt Usage Button 2: UNKNOWN Prompt Usage Button 3: UNKNOWN Prompt Usage Button 4: UNKNOWN Prompt Usage Button 5: UNKNOWN Prompt Usage Button 6: UNKNOWN Prompt Usage
N.AMERICA Prompt Usage (1:ON/0:OFF) : OFF	Us the dial pad to enable or disable the desired language prompts.
	Press the [Save] button to store the data entry.

3.3.6.20 System Timers I to III - PGMs 180-182

A number of timers can be assigned to control and affect many features and functions of the system. Refer to Table 3.3.6.20-1 to Table 3.3.6.20-3 for a description of the timers and the input required.

PROCEDURE:	
SYSTEM TIMER 1 PRESS FLEX KEY (01-22)	 Press the [PGM] button and dial: 180 for System Timers I 181 for System Timers II 182 for System Timers III
	Press the Flex button for the desired Timer; refer to Table 3.3.6.20-1 to Table 3.3.6.20-3.
	Us the dial pad to enable or disable the desired language prompts.
	Press the [Save] button to store the data entry.
	Use the dial-pad to enter the desired Timer data, refer to Table 3.3.6.20-1 to Table 3.3.6.20-3.
	Press the [Save] button to store the Timer data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ATD RECALL TMR(min) (00-60) : 01	Determines the amount of time the attendant receives recall after which the system will disconnect the call.	00~60 (minutes)	01
2	CALL PARK TMR(sec) (000-600) : 120	Determines the amount of time before a parked call will recall the station that parked the call.	000~600 (seconds)	120
3	CAMP-ON RECALL TMR(sec) (000-600) : 030	When a call transfer is camped-on, this timer determines the amount of time before the station receives recall.	000~600 (seconds)	030
4	EX-HOLD RECALL TMR(sec) (000-600) : 060	Determines the amount of time before a call placed on exclusive hold will recall the station.	000~600 (seconds)	060
5	I-HOLD RECALL TMR(sec) (000-600) : 030	Determines the amount of time before a call that is recalling the station will recall before also recalling the attendant.	000~600 (seconds)	030
6	S-HOLD RECALL TMR(sec) (000-600) : 030	Determines the amount of time before a call placed on system hold will recall the station.	000~600 (seconds)	030
7	TRANS RECALL TMR(sec) (000-600) : 030	Determines the amount of time a transferred call will ring at the receiving station before recalling the station that transferred the call.	000~600 (seconds)	030
8	ACNR DELAY TMR(sec) (000-300) : 030	If the ACNR Pause Timer expires and no CO Line is available for ACNR recall, the delay timer sets the delay before ACNR attempts to access a CO line. The retry counter is not decremented by this action.	000~300 (seconds)	030
9	ACNR PAUSE TMR(sec) (000-300) : 030	This timer establishes the time between ACNR recall attempts.	000~300 (seconds)	030
10	ACNR RETRY COUNT (01-13) : 03	This counter sets the number of recall attempts for ACNR before ACNR is abandoned. (For CIS : 1-9).	1~13	03
11	ACNR TONE DTC TMR(sec) (001-300) : 030	If call progress tones are not available for ACNR, the system will wait this duration after dialing before considering the called party as busy/no answer.	001~300 (seconds)	030
12	AUTO RELEASE TMR(sec) (000-300) : 030	If a user accesses a CO/IP path and does not take any action, the system will automatically release the CO/IP path when this timer expires.	000~300 (seconds)	030
13	CCR INT DGT TMR(100ms) (000-300) : 030	Inter-digit timer used with Customer Call Routing function.	000~300 (100msec)	030

Table 3.3.6.20-1 SYSTEM TIMERS I (PGM 180)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
14	CALL RESTRICT TMR(min) CHECK PGM 123-F2	Not used. Check PGM123-BTN2	00~99 (minutes)	00
15	CO DIAL DLY TMR(100ms) (00-99) : 05	Delay for through connection to prevent illegal dialing when CO/PBX has slow response.	00~99 (100msec)	05
16	RLS GUARD TMR(100ms) (010-150) : 020	When a CO Line is returned to idle, the system will deny access for this time to assure the PSTN returns the CO circuitry to idle.	010~150 (100msec)	020
17	CO RING OFF TMR(100ms) (010-150) : 060	This timer sets the maximum 'OFF' duration of the incoming ring cycle to determine when a call has been abandoned.	010~150 (100msec)	060
18	CO RING ON TMR(100ms) (1-9) : 2	This timer sets the 'ON' time of the incoming ring cycle for the Ring Detect circuitry of the system to recognize an incoming call.	1~9 (100msec.)	2
19	ELAPSED CALL TMR(sec) (005-900) : 180	Users can receive a periodic tone indicating the length of an outgoing call. This timer sets the time before and between the tones. Note Call Time Tone must be enabled in PGM 112-button 1.	005~900 (seconds)	180
20	WEB PWD GUARD TMR (min) (001-999) : 005	If no data packets are received during a Web Admin connection for the Guard time, a password check will be initiated by the system.	001~999 (minutes)	5
21	ON HOOK IDLE TMR (sec) (00-99) : 00	Phone (IP/DKTU) goes to idle after this timer when the phone receives disconnect message or signal from CO line.	00~99 (seconds)	0
22	CALL REC REPEAT TMR(sec) (000-999) : 000	If record warning tone is set and this timer is set greater than 1, it works periodically when it's recorded.	000~999 (seconds)	0

Table 3.3.6.20-1 SYSTEM TIMERS I (PGM 180)

Table 3.3.6.20-2 SYSTEM TIMERS II (PGM 181)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	FWD NO ANS TMR(sec) (000-600) : 015	When a user activates No-Answer Forward, calls will ring for this duration before the calls are forward. The Station No-Answer Forward timer PGM 123 will take precedence.	000~600 (seconds)	015
2	DID/DISA NO ANS(sec) (000-255) : 000	A DID/DISA call to a station will forward to the DID/DISA Destination assigned in PGM 167 should this timer expire before the call is answered.	000~255 (seconds)	000

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	VSF USR RECORD(sec) (000-999) : 060	This timer sets the maximum duration allowed for the User Greeting in the system's basic Voice Mail.	000~999 (seconds)	60
4	VSF VALID USER MSG(sec) (0-9) : 4	This timer sets the minimum duration allowed for a voice mail message in the system's basic VSF Voice Mail. Messages shorter than this period are not stored.	0~9 (seconds)	4
5	DOOR OPEN TMR(100ms) (00-99) : 20	This timer sets the minimum contact closure time required to activate the contact assigned as a door open contact.	00~99 (100msec.)	20
6	ICM DIAL TONE TMR(sec) (001-255) : 010	If a user goes off-hook on the Intercom and takes no action for this timer, the user will receive error tone.	001~255 (seconds)	10
7	INTER DIGIT TMR(sec) (01-20) : 05	This timer sets the maximum allowed time between user dialed digits. At expiration, the user will receive error- tone.	01~20 (seconds)	05
8	MSG REMINDER TONE(min) (00-60) : 00	An iPECS Phone user will receive periodic reminder tones of a message waiting at intervals based on this timer.	00~60 (minutes)	00
9	PAGE TIME OUT TMR(sec) (000-255) : 015	Determines the maximum duration of a page after which the caller and Page Zone are released.	000~255 (seconds)	15
10	PAUSE TMR(sec) (1-9) : 3	A Timed pause of this duration is used in Speed Dial and during other automatically dialed digits sent to the PSTN.	1~9 (seconds)	3
11	SOFT AUTO RLS TMR(sec) (01-30) : 10	When a Soft Key is used on the iPECS Phone, after expiration of this timer, the display will return to the previous display.	1~30 (seconds)	10
12	VM PAUSE TMR(100 msec) (01-90) : 30	When the system sends a "Pause" to Voice Mail using In-band signals, the Pause interval is defined by this timer. Not available in the USA.	1~90 (100msec.)	30
13	VSF CUT ERR TMR(1 SEC) (01-90) : 00	To cut error tone in VSF message that is leaved in a station.	1~90 (1 sec.)	00
14	UNUSED	Unused.		
15	EMERGENCY RETRY TMR (00-99) : 00 SEC	System try to make emergency call according to the CO access rule/Prefer CO/CO group if system could not seize predefined emergency Co line within this timer.	00~99 (1 sec.)	00

Table 3.3.6.20-2 SYSTEM TIMERS II (PGM 181)

Table 3.3.6.20-2 SYSTEM TIMERS II (PGM 181)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
16	ERROR TONE TMR(1sec) (005-180) : 030	Error Tone Timer	005~180 (1 sec.)	30
17	HOWLING TONE TMR(1sec) (000-180) : 030	Howling Tone Timer	000~180 (1 sec.)	30
18	NOTIFY PLAY DELAY(1sec) (01-99) : 10	When VM notification call uses LCO, system will treat the call as the answered after this timer and play the new message prompt.	1~99 (1 sec.)	10
19	SHORT MODEM TMR(1sec) (01-60) : 10	If {Short modem} of a SLT is ON, the SLT maintains the modem mode for this time.	01~60 (1 sec.)	10

Table 3.3.6.20-3 SYSTEM TIMERS III (PGM 182)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	SLT HOOK BOUNCE(100ms) (01-25) : 01	This timer determines the duration the system considers an actual state change in the hook-switch and not a spurious contact bounce.	01~25 (100msec.)	01
2	SLT MAX H_FLASH(100ms) (01-25) : 07	This timer sets the maximum time an SLT user can depress the hook- switch for a Flash signal.	01~25 (100msec.)	07
3	SLT MIN H_FLASH(10ms) (000-250) : 010	This time sets the minimum time an SLT user must depress the hook- switch for a Flash signal.	000~250 (10 msec.)	010
4	STA AUTO RLS TMR(sec) (000-300) : 060	For an internal call, the system will return a station to idle if the call remains unanswered for this duration.	000~300 (seconds)	060
5	UNSUPER CONF TMR(min) (00-99) : 10	This timer determines the duration of an "Unsupervised conference" before the station is recalled or the conference is dropped.	00~99 (minutes)	10
6	PRIME LINE TMR(sec) (01-20) : 05	This timer sets the delay (no action duration) for delayed Prime Line operation.	01~20 (seconds)	05
7	WINK SIGNAL TMR(10ms) (010-200) : 010	This timer sets the duration of the "Seize Acknowledge Signal" (Wink) sent to the PSTN on a DID line.	010~200 (10 msec.)	010
8	EN-BLOC I_DGT TMR(sec) (01-20) : 05	When an ISDN Line is assigned to send digits En-block, PGM 143-button 3, the system will send a dialed digit if the user dials "#" or this timer is expired.	01~20 (seconds)	05
9	DTMF DURATION TMR(10ms) (04-99) : 10	This timer establishes the duration of the DTMF tone sent on an analog CO Line.	04~99 (10 msec.)	10

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
10	FLEX DID TMR(100ms) (01-99): 30	The system will receive DID digits for this timer. After the timer expires, the system will use the last 2 to 4 digits received as DID digits.	01~99 (100msec.)	30
11	WAKE UP FAIL TMR (sec) (00-99): 20	Provide wake up fail indication to attendant according to this timer.	00~99 (1 sec.)	20
12	PREPAID WARN TMR (sec) (00-99): 00	Prove warning tone when run out of prepaid money if this timer is not zero.	00~99 (1 sec.)	00
13	FAX DETECT TMR (sec) (01-20): 10	It is maximum fax tone detection time to deliver FAX call to fax destination.	1~20 (1 sec.)	10
14	AUTO PAUSE TMR (sec) (000-255): 000	IPCR Mute function will be released by this auto pause released timer.	0~255 (1 sec.)	0

Table 3.3.6.20-3 SYSTEM TIMERS III (PGM 182)

3.3.6.21 In-Room Indication – PGM 183

The Supervisor Station can set the In-Room Indication to all members in the same Group up to 10 bins can be programmed, and each bin has (at most) 20 members excluding the Supervisor.

PROCEDURE:	
IN ROOM INDICATION ENTER BIN NO (01-10)	1. Press the [PGM] button and dial 183.
IN ROOM INDICATION F1:SUPERVISOR F2:MEM	Use the dial-pad to enter the desired bin number.
	Press the desired Flex button; refer to Table 3.3.9.6-1.
	Press the [Save] button to store the data entry.

Table 3.3.6.21-1 In-Room Indication (PGM 183)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	IN ROOM INDICATION SURERVISOR : STA 100	Assigns Supervisor station.		
2	STA 100 MEM 101	This entry assigns stations as members.		

3.3.6.22 DCOB SYS Timers – PGM 186

A number of timers can be assigned to control and affect operation of E1 lines using R2 signaling. Refer to Table 3.3.6.22-1 for the timer descriptions and inputs required.

PROCEDURE:	
DCOB SYS ATTRIBUTES PRESS FLEX KEY (1-6)	1. Press the [PGM] button and dial 186.
	Press the Flex button for the desired Timer; refer to Table 3.3.6.22-1.
	Use the dial-pad to enter the desired Timer data, refer to Table 3.3.6.22-1.
	Press the [Save] button to store the Timer data entry.

Table 3.3.6.22-1 DCOB SYSTEM TIMERS (PGM 186)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	R2 OUT MANAG TMR(sec) (01-50) : 14	In R2 signaling, maximum time for waiting for forward signal from PBX.	01~50 (seconds)	14
2	R2 IN MANAG TMR(sec) (01-50) : 14	In R2 signaling, maximum time for waiting for forward signal from PBX.	01~50 (seconds)	14
3	R2 DISAPPEAR TMR(sec) (01-50) : 14	In R2 signaling, maximum time for waiting for the acknowledge of R2 signal.	01~50 (seconds)	14
4	R2 PULSE TMR(20msec) (01-30) : 07	In R2 signaling, time duration to send pulse typed R2 signal.	01~30 (20 msec)	07
5	R2 READY TMR (20msec) (000-500) : 007	Reserved for future usage for R2 timers.	000~500 (20 msec)	07
6	DIAL TONE DELAY (20msec) (01-30) : 20	Reserved for future usage for R2 timers.	01~30 (20 msec)	20

3.3.6.23 NTP Attributes – PGM 195

The system can employ the Network Time Protocol (NTP) or ISDN clock to synchronize the system time with the NTP time server or ISDN clock. The system requests the time from the NTP server at 10-minute intervals and then determines the time differential. If the system time is more 2 seconds off the NTP time, the system time is adjusted to synchronize with the NTP server time.

PROCEDURE:	
NTP ATTRIBUTES PRESS FLEX KEY (1-1)	1. Press the [PGM] button and dial 195.
	Press the Flex button for the desired NTP Attribute; refer to Table 3.3.6.23-1.
	Use the dial-pad to enter the desired data, refer to Table 3.3.6.23-1.
	Press the [Save] button to store the data entry.

Table 3.3	.6.23-1	NTP A	ATTRIE	BUTES	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	NETWORK TIME/DATE (0-2): DISABLE(0)	Sets time synchronization for the system as : Disable ISDN clock NTP, NTP Attributes are set only via the Web.	0: DISABLE 1: ISDN 2: NTP	DISABLE

3.3.6.24 CRR Attributes – PGM 252

System can reroute incoming call to CO. If called number matched with compare digits of Table 252, the call are routed to Rerouting number.

PROCEDURE:	
CRR ATTRIBUTES PRESS FLEX KEY (1–3)	1. Press the [PGM] button and dial 252.
	Press the Flex button 1~3 for the desired setting, refer to Table 3.3.6.24-1.
	For Flex button 1 enable or disable CRR. For Flex button 2, press the [Save] button to reset the CRR table. For Flex button 3, dial the table bin number to input data.
	For Flex button 3, Enter the bin number, refer to Table 3.3.6.24-1.

	Table 3.3.6.24-1 CRR ATTRIBUTES (PGW 252)					
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT		
1	ENABLE CRR (1:ON/0:OFF) : OFF	This field is used to enable or disable CO Call Rerouting.	0: OFF 1: ON	OFF		
2	INIT CRR PRESS [Save] KEY	This field is used to initialize the CRR table.				
3	CRR ATTRIBUTES ENTER BIN NO(000-169)		000-169			
3-1	CRR 001 COMPARE CO GRP GRP NO (01-20) : 01	Compared Co group should be matched with incoming CO group.	01-20 Max 2 digits	01		
3-2	CRR 001 RECEIVE DGTS	Incoming digit numbers should be matched with these digits. An "*" may be entered as a wild-card to indicate insertion of the compared number.	Max 12 digits			
3-3	CRR 001 CO+TEL NUMBER	This field defines the CO line, CO group or CO access code plus telephone number.	Max 20 digits			
3-4	CRR 001 TYPE	If you chose '1' for NET type, you can use transit out code for CO to CO rerouting. If you chose '2' for DISA type, you can access the station number as DISA mode. Other case, you should not use this type.	N/A			

3.3.6.25 VM COS Attributes – PGM 253

Each Station is assigned one of the five Voice Mail Classes of Service. The VM COS attributes include user greeting length, E-Mail notifications, message retention and optional message marking.

PROCEDURE:		
ENTER PGM NUMBER	1. Press the [PGM] button and dial 253.	
VM COS ATTRIBUTE ENTER COS RANGE (1-5)	Enter COS range from 1 to 5.	
1-2 VM COS ATT PRESS FLEX KEY (1-8)	Press flex button 1-8 for the desired setting, refer to Table 3.3.6.25-1.	
	Use the dial-pad to enter the desired data, refer to Table 3.3.6.25-1.	
	Press the [Save] button to store the data entry.	

Table 3.3.6.25-1 VM COS ATTRIBUTES (PGM 253)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	GREETING LENGTH (00-99) : 60	This defines maximum user greeting length.	00-99	60
2	MESSAGE LENGTH (000-600) : 000	This defines maximum user message recording time.	000-600	000
3	NUMBER OF MESSAGE (000-250) : 000	This defines maximum number of voice mail message.	000-250	000
4	RETENTION TIME (00-99) : 00 (DAYS)	Voice mail messages will be automatically deleted after this amount of days.	00-99	00
5	E-MAIL NOTIFICATION (0-2) : NOTI. DELETE	E-mail notification can be enabled or disabled.	0: OFF 1: Notification 2: Notification & Delete	Notification & Delete
6	FUTURE DELEVERY MSG (1 :ON /0 :OFF) : OFF	Future Delivery message can be enabled or disabled.	0: OFF 1: ON	OFF
7	CONFIRM MSG RECEIPT (1 :ON/0 :OFF) : OFF	Confirm message receipt can be enabled or disabled.	0: OFF 1: ON	OFF
8	PRIVATE MSG MARK (1 :ON/0 :OFF) : OFF	Private message mark can be enabled or disabled.	0: OFF 1: ON	OFF

3.3.6.26 Personal Group – PGM 260

Several stations can share same station number. That means Personal Group is extended feature of Linked Pair.

A Personal Group is composed with a master station and several member stations.

A master station and all member stations share master station's number.

By using this shared number, almost features (Call To xxx / Call From xxx / SMDR / Message Wait...) can be activated.

But, some features can be chosen by PGM 261 attribute about all station activating or individual station working.

In PGM 260, Personal group master and member can be assigned.

In PGM 261, Personal group attribute can be set.

PROCEDURE:	
PERSONAL GRP ASSIGN ENTER GRP NUM (01–70)	 Press the [PGM] button and dial 260. And Enter Group number (eMG80:1~7 /eMG800:1~600)
PERSONAL GRP 01 F1 : MASTER STA F2 : MEM	Press Flex button 1, register Master station. Press Flex button 2, register member stations.
	Use the dial-pad to enter the desired data.
	Press the [Save] button to store the data entry.

3.3.6.27 Personal Group Attribute – PGM 261

In PGM 261, Personal group attribute can be set.

PROCEDURE:	
PERSONAL ATTRIBUTE ENTER GRP NUM (01–70)	 Press the [PGM] button and dial 261. And Enter Group number.(eMG80:1~70 /eMG800:1~600)
PERSONAL GRP 01 PRESS FLEX KEY (1-3)	 Press the Flex button 1~4 for the desired setting, refer to Table 3.3.6.27-1.
	Use the dial-pad to enter the desired data, refer to Table 3.3.6.27-1.
	Press the [Save] button to store the data entry.

Table 3.3.6.27-1 PERSONAL GROUP ATTRIBUTES (PGM 261)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01 USE MASTER WAKEUP (1:ON/0:OFF) : OFF	If this value is set to ON, all member wake-up follow by master wake up. If this value is set to OFF, individual wake-up is worked by each station.	0: OFF 1: ON	OFF
2	01 USE MASTER DND (1:ON/0:OFF) : OFF	If this value is set to ON, DND setting affect to Master and all member. If this value is set to OFF, individual DND is worked by each station.	0: OFF 1: ON	OFF
3	01 SET LINKED PAIR (1:ON/0:OFF) : OFF	If this value is set to ON, Master and Member Stations are linked and only one station can be activated.	0: OFF 1: ON	OFF

3.3.7 STATION GROUP DATA – PGM 190 & 192

Stations can be grouped so that incoming calls will search (hunt) for an idle station in the group. The system allows assignment of three hunt processes, Circular, Terminal and UCD. In addition, there are eight (8) functional groups available: ACD (Automatic Call Distribution) based on UCD hunt, Ring, Call Pick-Up, External Voice Mail (SLT connected), VSF-Voice Mail, iPECS Feature Server Voice Mail, Network Voice Mail and UCS Groups.

Certain types of groups can incorporate announcements, which are given to the calling party. The system's VMIU or VMIB can store up to seventy (70) announcements for use with Station Groups.

Note that a station can belong to multiple groups if the groups are all of the same type. Also note that when a station group is assigned to a group type (Station, ACD, VM, FS VM, VSF-VM, Net VM, UCS and Ring), the group attributes are initialized to the default values.

3.3.7.1 Station Group Assignment -PGM 190

Under Station Group Assignments the type, members and Pick-Up attribute are assigned to the Station Group. Note for the Net VM group, the network number must be assigned as the Net VM group member station. Refer to Table 3.3.7.1-1 for a description of the functions, the LCD displays and data entries required.

PROCEDURE:		
STATION GRP ASSIGN ENTER GRP NO(401-440)	1. Press the [PGM] button and dial 190.	
STATION GRP 401 F1:TYPE F2:PKUP F3:MEM	Use the dial pad to enter the desired Station Group number.	
	Press the Flex button for the desired setting; refer to Table 3.3.7.1-1.	
	Use the dial pad to enter the desired Station Group data. Note for group members, enter a station or station range. For an individual station press the desired Flex button for the position of the station in the group and dial the station number. For a range, enter the first and last station number in the range.	
	Press the [Save] button to store the data entry.	

Table 3.3.7.1-1 STATION GROUP ASSIGNMENT (PGM 190)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	STATION GRP 401 CIRCULAR GROUP (00-10)	This entry defines the type of station group.	00: Not Assign 01: Circular 02: Terminal 03: UCD/ACD 04: RING 05: Ext VM 06: PICK-UP 07: VSF-VM 08: UMS 09: NET-VM 10:UCS Server	Not Assign
2	GROUP 401 PICK-UP (1:ON/0:OFF) : OFF	Stations can pick-up group calls ringing at other stations in the group. This does not apply to VSF groups.	0: OFF 1: ON	OFF
3	CIRCULAR GROUP 401	This entry assigns stations as members of a station group, or for Net VM, the Network number.		

3.3.7.2 Station Group Attributes – PGM 191

Each type of group has a different set of available attributes relating to announcements, timers, overflow, etc. Table 3.3.7.2-1 through Table 3.3.7.2-8 provides descriptions for the attributes, LCD displays and data entries required. The attributes for the Circular and Terminal Hunt groups are given in Table 3.3.7.2-1 and the UCD attributes include the ACD functions Table 3.3.7.2-2. In addition, there are no attributes for a group assigned as a Net VM group in PGM 190.

PROCEDURE:	
STATION GRP ATT ENTER GRP NO(401-440)	1. Press the [PGM] button and dial 191.
CIRC GRP 401 PRESS FLEX KEY (01-21)	Use the dial pad to enter the desired Station Group. The system will display the type of group from the Station Group Assignment PGM 190 data (Ex. 01 Circular).
	Press the Flex button for the desired attribute; refer to Table 3.3.7.2-1 to Table 3.3.7.2-8.
	Use the dial pad to enter the desired Group Attributes data, refer to Table 3.3.7.2-1 to Table 3.3.7.2-8.
	Press the [Save] button to store the data entry.

Table 3.3.7.2-1 STATION GROUP ATTRIBUTES — CIRCULAR & TERMINAL GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	CIRC 401 ANNC 1 TMR(1s) (000 - 999) : 015	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds 1 st Announcement Timer, the call may be sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
2	CIRC 401 ANNC 2 TMR(1s) (000 - 999) : 000	After the 1 st announcement, the 2 nd ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2 nd VSF announcement.	000~999 (seconds)	000

Table 3.3.7.2-1 STATION GROUP ATTRIBUTES — CIRCULAR & TERMINAL GROUPS (PGM 191)

DTN			DANOF	
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	CIRC 401 ANNC1 LOC VSF ANNC (01 – 70)	The Station Group can be assigned an announcement, which is played if the call remains queued beyond the ANNC 1 TMR duration. The announcement location is the VSF ANNC1 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
4	CIRC 401 ANNC2 LOC VSF ANNC (01 – 70)	The Station Hunt Group can be assigned a 2 nd announcement, which is played if the call remains queued beyond the ANNC 2 TMR duration. The announcement location is the VSF ANNC2 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
5	CIRC 401 ANNC2 RPT TMR (000 - 999) : 000.	The 2 nd announcement can be repeated to calls that remain in queue at intervals of the Announcement 2 Repeat Timer. NOTE Repeating must be "ON" under button 6 below.	000~999 (seconds)	000
6	CIRC 401 ANNC 2 RPT (1: ON / 0: OFF): OFF	After the 2 nd announcement, if the call remains queued to the group, the 2 nd VSF announcement can be repeated at the Announcement Repeat Timer interval.	0: OFF 1: ON	OFF
7	CIRC 401 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or will pass to the assigned Overflow Destination.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	
8	CIRC 401 OVERFLOW TMR (000 - 600) : 180	A call to a group will remain at the last station in the group or can be sent to the assigned Overflow Destination after expiration of the OVERFLOW Timer.	000~600 (seconds)	180

Table 3.3.7.2-1 STATION GROUP ATTRIBUTES — CIRCULAR & TERMINAL GROUPS (PGM 191)

BTN			DANCE	
	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	CIRC 401 WRAP-UP TMR (000 - 999) : 002	After terminating any call, a Group member will be maintained in a busy state for the duration of the WRAP-UP Timer.	000~999 (seconds)	002
10	CIRC 401 NO ANS TMR(1s) (00 – 99) : 15	Calls to a station in the group are directed to the station, if unavailable or unanswered in the NO Answer Timer, the call can be routed based on the assigned hunt process.	00~99 (seconds)	15
11	CIRC 401 PILOT HUNT (1 : ON/ 0: OFF) : ON	A circular/terminal hunt group can be set so that only calls to the pilot number (Station Group number) will hunt.	0: OFF 1: ON	ON
12	CIRC 401 RPT NO MEMBER (1 : ON/ 0: OFF) : OFF	If a call is received and no members are on-duty, an ICM call will return re-order tone, while a CO/IP call will be routed to the overflow destination.	0: OFF 1: ON	OFF
13	CIRC 401 MUSIC SRC (00–10) : 01	A Music source is assigned so that calls to the group receive audio from the source in place of ring- back tone.	00: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH3	01
14	CIRC 401 MBR FORWARD (1 : ON/ 0: OFF) : ON	A member activating Call forward may be placed in an unavailable state for hunt group calls (ON). When OFF, group calls are sent to the member as normal.	0: OFF 1: ON	ON
15	MAILBOX MSG WAIT STA	When a group calls overflows or routes to the VM group, a station number is used to identify the Mailbox for the Circular group messages.	Station	
16	MAILBOX PASSWORD	The password associated with a group Mailbox is defined here. The password is used in conjunction with the Circular group as with a normal station.	12 digits	

Table 3.3.7.2-1 STATION GROUP ATTRIBUTES — CIRCULAR & TERMINAL GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
17	CIRC 401 FORCED DEST S/H/V/SPD (DIAL 1-4)	When a call is delivered to the group the system can redirect the call to the Forced destination if enabled under button 18 below.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	-
18	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF	Enables the system to redirect group calls to the Forced destination defined under button 17 above.	0: OFF 1: ON	OFF
19	WAIT IF 1ST ANNC BUSY (1:ON/0:OFF): ON	When a call assigned to receive an announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement.	0: OFF 1: ON	ON
20	GROUP NAME	A hunt group name can be designated.	20 character	
21	CIRC 401 MAX QUE C-CNT (00-99) : 99	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF AA announcement, if assigned, is played.	00-99	99

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ACD 403 ANNC 1 TMR(1s) (000 – 999) : 015	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds this 1 st Announcement Timer, the call may be sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
2	ACD 403 ANNC 2 TMR(1s) (000 – 999) : 000	After the 1 st announcement, a 2 nd ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2 nd VSF announcement.	000~999 (seconds)	000

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	ACD 403 ANNC1 LOC VSF ANNC (01–70)	Each Station Hunt Group can be assigned an announcement, which is played if the call remains queued beyond the ANNC 1 TMR duration. The announcement location is a VSF ANNC1 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
4	ACD 403 ANNC2 LOC VSF ANNC (01–70)	The Station Hunt Group can be assigned a 2 nd announcement, which is played if the call remains queued beyond the ANNC 2 TMR duration. The announcement location is a VSF ANNC2 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
5	ACD 403 ANNC2 RPT TMR (000 – 999) : 000	The 2 nd announcement can be repeated to calls that remain in queue at intervals of the Announcement 2 Repeat Timer. Note repeating must be "ON" under button 6 below.	000~999 (seconds)	000
6	ACD 403 ANNC2 RPT (1: ON / 0: OFF): OFF	After the 2 nd announcement, if the call remains queued to the group, the 2 nd VSF Announcement can be repeated at the Announcement Repeat Timer interval.	0: OFF 1: ON	OFF
7	ACD 403 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group will continue to route through the group until answered or all group members have been tried. The call will then queue to the group or route to the assigned Overflow Destination.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	
8	ACD 403 OVERFLOW TMR (000 - 600) : 180	A call to a group will remain queued to the group or be sent to the assigned Overflow Destination after expiration of the OVERFLOW Timer.	000~600 (seconds)	180
9	ACD 403 WRAP-UP TMR (000 - 999) : 002	After terminating any call, a Hunt Group member will be maintained in a busy state for the duration of the WRAP-UP Timer.	000~999 (seconds)	002

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
10	ACD 403 RPT NO MEMBER (1 : ON/ 0: OFF) : OFF	If a call is received and no members are on-duty, an ICM call will return re- order tone, while a CO/IP call will be routed to overflow destination.	0: OFF 1: ON	OFF
11	ACD 403 MUSIC SRC (00– 10) : 01	A Music source can be assigned so that calls to the group will receive audio from the assigned source in place of ring-back tone while in Queue.	00: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH3	01
12	ACD 403 ACD WARN TONE (1 : ON/ 0: OFF) : OFF	An ACD supervisor can monitor agent conversations. A warning tone can be provided to the agent and connected party when the supervisor activates the monitor feature.	0: OFF 1: ON	OFF
13	ACD 403 ALTER DEST S/H/SPD (Dial 1-3)	When a call comes into the group and there are no group members available, the call will be routed to the assigned alternate destination.	1-3 (1:Station 2:Station group 3:System speed)	
14	ACD 403 SP-VISOR TMR (000-999) : 030	When calls have been in queue longer than the Supervisor Timer, the ACD supervisor is notified by a display of the longest queue time.	000~999 (seconds)	030
15	ACD 403 SP-VISOR C-CNT (00-99) : 00	When the number of calls in queue exceeds the Supervisor Call Counts, the ACD Supervisor is notified by a display of queued calls count.	00~99	00
16	WAIT IF 1ST ANNC BUSY (1:ON/0:OFF): ON	When a call assigned to receive an announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement.	0: OFF 1: ON	ON
17	ACD 403 MAX QUE C-CNT (00-99) : 99	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF AA announcement, if assigned, is played.	00-99	99
18	ACD 403 SUPERVISOR	Any valid IP Phone can be assigned as a Supervisor, max. 5 ACD Supervisors.	Station	

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
19	100 110 123 124 0 0 0 0	ACD Group members may be assigned a priority, 0-9. Members with the highest priority are sent calls ahead of lower priority members. This field is the same as PGM 112-button 16.	0~9	0
20	ACD 403 ACD_DND W_TMR (002-200) : 010	ACD agents are placed in the Wrap-up mode for the Wrap-up timer duration after call completion.	002~200 sec	010
21	ACD 403 ICLID USAGE (1:ON/0:OFF) : OFF	Within 5 seconds of a guaranteed announcement, the caller may dial digits as an ICLID. The User dialed digits are compared to the ICLID Table entries, PGM 203 for routing or, for a single dialed digit, to the ACD CCR table PGM 191 BTN 23.	0: OFF 1: ON	OFF
22	GROUP NAME	An ACD group name can be designated.	20 character	:
23	ACD 403 CIQ ROUTE PRESS FLEX KEY (01-10)	CCR for ACD Calls-in-queue permits caller to re-route the call by dialing a single digit. The destination is assigned to Flex button 1 ~ 10 for digits 1 ~ 9 & 0.	FLEX 1 ~ FLEX 10	
23- 1~23- 10	ACD 403 CIQ ROUTE INPUT 1 : NOT ASSIGNED	When an ACD call is queued and the caller may exit this queue by entering one digit. The queued call can be routed to station, hunt, system-speed bin, or network station. Dial 1: Enter a station number. Dial 2: Enter a hunt group number. Dial 3: Enter a system speed bin. Dial 4: Enter a network station number.	-	-
24	ACD 403 ADDED ATTR PRESS FLEX KEY (01-24)	To select an ACD group "Added Attribute", press flex button 24, then select button 1~24 for the attribute desired.	FLEX 1 ~ FLEX 24	
24-1	ZAP TONE (1:ON/0:OFF) : OFF	Agents, using a headset can have ACD calls connected to them automatically preceded by a tone (Zap tone).	0: OFF 1: ON	OFF
24-2	MAILBOX MSG WAIT STN	When an ACD call overflows or routes to the VM group, a station number is used to identify the Mailbox for the ACD group messages.	Station	
24-3	MAILBOX PASSWORD	The password associated with an ACD group Mailbox is defined here. The password is used in conjunction with the ACD group as with a normal station.	12 digits	

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-4	CIQ AGENT DISPLAY (1:ON/0:OFF) : OFF	When an ACD call is in queue, the Call in queue information can be displayed on LCD of agent and supervisor telephones.	0: OFF 1: ON	OFF
24-5	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF	Enables the system to redirect group calls to the Forced destination defined under button 24-24 below.	0: OFF 1: ON	OFF
24-6	CIQ #1 THRESHOLD (00-99) : 10	If the queued call count exceeds the threshold, the system plays the CIQ #1 Announcement (button 7 below) to the CIQ #1 Page Zone (button 8 below) after the CIQ #1 Announcement Delay Timer (button 9 below). Announcements are repeated at intervals of the CIQ #1 Announcement Repeat Timer (button 10 below).	00-99	10
24-7	CIQ #1 ANNC LOC VSF ANNC (00-200)	VSF announcement number for the CIQ #1 Announcement.	00-200	
24-8	CIQ #1 PAGE ZONE (00-40) : 00	Page Zone to receive CIQ #1 Announcement.	eMG80:00~15 or 00~40, eMG800:0~105	00
24-9	CIQ #1 ANNC DELAY TMR (000-180) : 015	Delay timer for CIQ #1 Announcement.	000-180	015
24-10	CIQ #1 ANNC REPEAT TMR (000-180) : 045	Interval for repeating the CIQ #1 Announcement.	000-180	045
24-11	CIQ #2 THRESHOLD (00-99) : 20	If the queued call count exceeds the threshold, the system plays the CIQ #2 Announcement (button 12 below) to the CIQ #2 Page Zone (button 13 below) after the CIQ #2 Announcement Delay Timer (button 14 below). Announcements are repeated at intervals of the CIQ #2 Announcement Repeat Timer (button 15 below).	00-99	20
24-12	CIQ #2 ANNC LOC VSF ANNC (00-200)	VSF announcement number for the CIQ #2 Announcement.	00-200	
24-13	CIQ #2 PAGE ZONE (00-40) : 00	Page Zone to receive CIQ #2 Announcement.	eMG80:00~15 or 00~40, eMG800:0~105	00
24-14	CIQ #2 ANNC DELAY TMR (000-180) : 015	Delay timer for CIQ #2 Announcement.	000-180	015
24-15	CIQ #2 ANNC REPEAT TMR (000-180) : 025	Interval for repeating the CIQ #2 Announcement.	000-180	025

BTN	- ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
24-16	CIQ #3 THRESHOLD (00-99) : 30	If the queued call count exceeds the threshold, the system plays the CIQ #3 Announcement (button 17 below) to the CIQ #3 Page Zone (button 18 below) after the CIQ #3 Announcement Delay Timer (button 19 below). Announcements are repeated at intervals of the CIQ #3 Announcement Repeat Timer (button 20 below).	00-99	30
24-17	CIQ #3 ANNC LOC VSF ANNC (00-200)	VSF announcement number for the CIQ #3 Announcement.	00-200	
24-18	CIQ #3 PAGE ZONE (00-40) : 00	Page Zone to receive CIQ #3 Announcement.	eMG80:00~15 or 00~40, eMG800:0~105	00
24-19	CIQ #3 ANNC DELAY TMR (000-180) : 015	Delay timer for CIQ #3 Announcement.	000-180	015
24-20	CIQ #3 ANNC REPEAT TMR (000-180) : 005	Interval for repeating the CIQ #3 Announcement.	000-180	005
24-21	CIQ MENT ON/OFF (1:ON/0:OFF) : OFF	If enabled, queued callers receive the CIQ message (You are # in queue) after the 1 st and 2 nd announcement.	0: OFF 1: ON	OFF
24-22	ACD NO ANS TMR (000-180) : 000	Calls to an agent in the group are directed to the station, if unanswered in the NO ANSWER TIMER, the call is routed to another agent.	000-180	000
24-23	ACD 403 MBR FORWARD (1 : ON/ 0: OFF) : ON	A member activating Call Forward may be placed in an unavailable state for hunt group calls (ON). When OFF, group calls are sent to the member as normal.	0: OFF 1: ON	ON
24-24- 1	ACD 403 FORCED DEST S/H/V/SPD (DIAL 1-4)	When a call is delivered to the group the system can redirect the call to the Forced destination, if enabled under button 24-5 above.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	-
24-24- 2	ACD Q CALL INDI 0(OFF)1(R/LED)2(LED):0	If there are queued group calls, the queuing indication can be served to group members by Mute Ring and LED button flashing.	0:OFF 1:RING& LED 2: LED only	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
2	RING 405 ANNC1 TMR(1s) (000 – 999) : 015	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds this 1 st Announcement Timer, the call may be sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
2	RING 405 ANNC 2 TMR(1s) (000 – 999) : 000	After the 1 st announcement, a 2 nd ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000~999 (seconds)	000
3	RING 405 ANNC1 LOC VSF ANNC (01–70)	Each Ring Group can be assigned an announcement, which is played if the call remains queued beyond the ANNC 1 TMR duration. The announcement location is a VSF ANNC1 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
4	RING 405 ANNC2 LOC VSF ANNC (01–70)	The Ring Group can be assigned a 2 nd announcement, which is played if the call remains queued beyond the ANNC 2 TMR duration. The announcement location is a VSF ANNC2 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none
5	RING 405 ANNC2 RPT TMR (000 – 999) : 000	The 2 nd announcement can be repeated to calls that remain in queue at intervals of the Announcement 2 Repeat Timer. Note repeating must be "ON" under button 6 below.	000~999 (seconds)	000
6	RING 405 ANNC2 RPT (1: ON / 0: OFF): OFF	After the 2 nd announcement, if the call remains queued to the group, the 2 nd VSF announcement can be repeated at the Announcement Repeat Timer interval.	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	RING 405 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group rings at member stations until the Overflow timer expires then the call passes to the assigned Overflow Destination.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	
8	RING 405 OVERFLOW TMR (000 - 600) : 180	A call to a ring group will continue to ring stations in the group or be sent to the assigned Overflow Destination after expiration of the OVERFLOW Timer.	000~600 (seconds)	180
9	RING 405 WRAP-UP TMR (000 - 999) : 002	After terminating any call, a Ring Group member will be maintained in a busy state for the duration of the WRAP-UP Timer.	000~999 (seconds)	002
10	RING 405 MUSIC SRC (00–10) : 01	A Music source is assigned so that calls to the group will receive audio from the assigned source in place of ring-back tone.	00: Ring-back 01: Int music 02: Ext music 03: VSF MOH 04: SLTMOH1 05: SLTMOH2 06: SLTMOH3 07: SLTMOH4 08: SLTMOH5 09: VSFMOH2 10: VSFMOH3	01
11	RING 405 MAX QUE C-CNT (00-99) : 99	When the number of calls queued is reached, new calls will receive error tone and be disconnected after the VSF AA announcement, if assigned, is played.	00-99	99
12	RING 405 MBR FORWARD (1 : ON/ 0: OFF) : ON	A member activating Call Forward may be placed in an unavailable state for hunt group calls (ON). When OFF, group calls are sent to the member as normal.	0: OFF 1: ON	ON
13	MAILBOX MSG WAIT STA	When a group calls overflows or routes to the VM group, a station number is used to identify the Mailbox for the Ring group messages.	Station	
14	MAILBOX PASSWORD	The password associated with a group Mailbox is defined here. The password is used in conjunction with the Ring group as with a normal station.	12 digits	
15	RING 405 FORCED DEST S/H/V/SPD (DIAL 1-4)	When a call is delivered to the group the system can redirect the call to the Forced destination if enabled under button 16 below.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	-

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
16	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF	Enables the system to redirect group calls to the Forced destination defined under button 15 above.	0: OFF 1: ON	OFF
17	WAIT IF 1ST ANNC BUSY (1:ON/0:OFF): ON	When a call assigned to receive an announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement.	0: OFF 1: ON	ON
18	GROUP NAME	A Ring group name can be designated.	20 character	
19	RING Q CALL INDI 0(OFF)1(MUTE)2(BURST):1	When a station calls a Ring Group, DSS/BLF buttons assigned for the calling station will flash and muted ring is received.	0:OFF 1: Mute 2: Burst	Mute

Table 3.3.7.2-4 STATION GROUP ATTRIBUTES — EXTERNAL VM GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VM 407 WRAP-UP TMR (000 – 999) : 002	After terminating any call, the VM port will be maintained in a busy state for the duration of the WRAP- UP Timer.	000~999 (seconds)	002
2	VM 407 PUT MAIL INDEX (1 – 4) : 1	For external analog Voice Mail groups, an index to the Voice Mail Dial Table, this contains the "Put Mail" dial code.	1~4	1
3	VM 407 GET MAIL INDEX (1 – 4) : 2	For external analog Voice Mail groups, an index to the Voice Mail Dial Table, which contains the "Get Mail" dial code?	1~4	2
4	VM 407 HUNT TYPE (1 : CIR/ 0 : TERM): TERM	The type of Hunt process applied to the SLT ports connected to the VM can be assigned as Circular or Terminal.	0: TERM 1: CIRC	TERM
5	VM 407 OVERFLOW TMR (000 - 600) : 180	A call to a group will remain queued to the group or be sent to the assigned OVERFLOW DEST after expiration of the OVERFLOW TMR.	000~600 (seconds)	180
6	VM 407 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or routes to the assigned OVERFLOW DEST.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	-

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF	When a call is delivered to the group the system can redirect the call to the Forced destination if enabled under button 8 below.	0: OFF 1: ON	OFF
8	VM 407 FORCED DEST S/H/V/SPD (DIAL 1-4)	Enables the system to redirect group calls to the Forced destination defined under button 7 above.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	-
9	GROUP NAME	A hunt group name can be designated.	20 character	
10	VM 407 SERVER TYPE (0:IPCR/1:3RD) : 3RD	Server Type can set 3 rd or IPCR.	0: IPCR 1: 3RD	3RD
11	VM 407 SERVER NUMBER (01-10) :	Sever Number can set 01 ~ 10 for 237 table.	01-10	
12	VM 407 MEMBER TYPE (0:SIP/1:SLT) : SLT	Server Member can set SIP or SLT.	0: SIP 1: SLT	SLT
13	VM 407 SERVER CAPACITY (001-140) : 000	Maximum number of channels of SIP VM (UMS).	eMG80:00~140, eMG800:0~1200	0

Table 3.3.7.2-4 STATION GROUP ATTRIBUTES — EXTERNAL VM GROUPS (PGM 191)

Table 3.3.7.2-5 STATION GROUP ATTRIBUTES — PICK-UP GROUPS (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	PICK UP 408 AUTO PICKUP (1 : ON/ 0: OFF) : OFF	If a Pick-Up Group member is ringing, another member of the Pick-Up Group can Pick-Up a call ringing at another member by simply going "off-hook".	0: OFF 1: ON	OFF
2	PICK UP 408 ALL RING (1 : ON/ 0: OFF) : OFF	When a call is offered to a member of the Pick-Up Group in the Tone Ring mode, all members will ring. NOTE Auto Pickup, Button 1 must be "ON".	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VSF-VM 409 RETENSION (1d) (00 – 99) : 00	When voice messages are stored in the VSF, the system will maintain (store) the message for the maximum number of days set in this program (1 to 99 days). (Not used currently)	(day)	00
2	VSF-VM 409 DIAL TIME (1s) (00 – 99) : 15	This timer determines the inter-digit time employed during a VSF-VM session. If this timer expires while the VSF-VM is awaiting user input, the system will assume the remote party has disconnected and will return the channel to idle.	00-99 (seconds)	15
3	VSF-VM GROUP NAME	A VSF-VM group name can be designated.	20 character	

Table 3.3.7.2-6 STATION GROUP ATTRIBUTES — VSF-VM GROUP (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	UMS 410 ANNC 1 TMR(1s) (000 - 999) : 015	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds this 1 st Announcement Timer, the call may be sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
2	UMS 410 ANNC 2 TMR(1s) (000 - 999) : 000	After the 1 st announcement, the 2 nd ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2 nd VSF announcement.	000-999 (seconds)	000
3	UMS 410 ANNC1 LOC VSF ANNC (01 – 70)	The Station Group can be assigned an announcement, which is played if the call remains queued beyond the ANNC 1 TMR duration. The announcement location is the VSF ANNC1 number. An entry of 00 indicates no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement.	01~70	00: none

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
4	UMS 410 ANNC2 LOC VSF ANNC (01 – 70)	The Station Hunt Group can be assigned a 2 nd announcement, which is played if the call remains queued beyond the ANNC 2 TMR duration. The announcement location is the VSF ANNC2 number. An entry of 00 indicates	01~70	00: none
5	UMS 410 ANNC2 RPT TMR	no announcement. Including '#' at the end of an entry instructs the system to disconnect after the announcement. The 2 nd announcement can be repeated to calls that remain in	000~999 (seconds)	000
	(000 - 999) : 000.	queue at intervals of the Announcement 2 Repeat Timer. Note; repeating must be "ON" under button 6 below.		
6	UMS 410 ANNC 2 RPT (1: ON / 0: OFF): OFF	After the 2 nd announcement, if the call remains queued to the group, the 2 nd VSF announcement can be repeated at the Announcement Repeat Timer interval.	0: OFF 1: ON	OFF
7	UMS 410 OVERFLOW DEST S/H/V/SPD (Dial 1-4)	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or routes to the assigned Overflow Destination.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	
8	UMS 410 OVERFLOW TMR (000 - 600) : 180	A call to a group will remain at the last station in the group or can be sent to the assigned Overflow Destination after expiration of the OVERFLOW Timer.	000~600 (seconds)	180
9	UMS 410 NANS TMR(1s) (00 – 99) : 15	Calls to a station in the group are directed to the station, if unavailable or unanswered in the NO Answer Timer, the call can be routed based on the assigned hunt process.	00~99 (seconds)	15
10	UMS 410 PILOT HUNT (1 : ON/ 0: OFF) : ON	A FS VM group can be set so that only calls to the pilot number (station group number) will hunt.	0: OFF 1: ON	ON
11	UMS 410 ALTER DEST STA/HUNT	When a call comes into the group and there are no group members available, the call will be routed to the assigned Alternate Destination.	Station or Group Number	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
12	UMS 410 HUNT TYPE (1 : CIRC/ 0 : TERM): CIR	When a call is offered to the group, the Hunt process can be defined for Circular or Terminal hunt group.	0: TERM 1: CIR	CIR
13	UMS 410 WRAP-UP TMR (002 – 999) : 002	After terminating any call, the VM port will be maintained in a busy state for the duration of the WRAP-UP Timer.	002~999 (seconds)	002
14	FORCED FWD DEST USAGE (1:ON/0:OFF): OFF	Enables the system to redirect group calls to the Forced destination defined under button 15 below.	0: OFF 1: ON	OFF
15	UMS 410 FORCED DEST S/H/V/SPD (DIAL 1-4)	When a call is delivered to the group the system can redirect the call to the Forced destination if enabled under button 14 above.	1-4 (1:Station 2:Station group 3:VSF Announce 4:System speed)	-
16	GROUP NAME	A hunt group name can be designated.	20 character	

Table 3.3.7.2-8 STATION GROUP ATTRIBUTES — UCS SERVER GROUP (PGM 191)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	UCS SVR [411] ASSIGNED UC Server 1 (01–16)	UCS Server number, this value must be set to 1.	01-16	1

3.3.7.3 Pick Up Group Assignment – PGM 192

Under Pick-Up Group Assignments members are assigned to the Station Pick Up Group.

PROCEDURE:	
PICKUP GRP ASSIGN ENTER GRP NUM(00-49)	 Press the [PGM] button and dial 192 and enter group number (Ex. 00). (eMG80:00~49/ eMG800:0~199)
PICKUP GRP 00	Use the dial pad to enter the desired Pickup Group. The system will display the member of pickup group.
PICKUP GRP 00	Note for group members, enter a station or station range. For an individual station press the desired Flex button for the position of the station in the group and dial the station number. For a range, enter the first and last station number in the range.
	Press the [Save] button to store the data entry.

3.3.8 ISDN LINE & ICLID ROUTING DATA – PGM 200-206

Each ISDN (Integrated Services Digital Network) Line provides digital services to the end-user. Basic Rate Lines have three (3) channels, 2 B channels and a D channel. The 2 B channels provide 64 Kbps each, a total of 128 Kbps for "Bearer" or voice channels. The D channel provides a 16 Kbps signaling channel. Primary Rate Lines have 23/30 64 Kbps 'B' channels and 1/2 64 Kbps signaling channels. For proper operation, entries are required for various attributes in PGM 200 ~ 202 to match the ISDN circuit and services from the PSTN.

3.3.8.1 ISDN Attributes – PGM 200

ISDN attributes define several characteristics of the ISDN interface. ISDN call cost services (Advice of Charge), CLI modification, voice encoding, and other characteristics of the interface are defined.

PROCEDURE:	
SYSTEM ISDN ATT PRESS FLEX KEY (1-3)	1. Press the [PGM] button and dial 200.
	Press the Flex button for the desired Attribute; refer to Table 3.3.8.1-1.
	Use the dial pad to enter the desired Attribute data.
Press the [Save] button to store the Attribute data entr	

Table 3.3.8.1-1 ISDN LINE ATTRIBUTES (PGM 200)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	CO ATD CODE (2DGT) 	When the system is set to send the station number with ISDN CLIP or COLP, either the station number or this ATD code will be sent based on PGM 114 button 11.	1~2 digits	
2	CLI PRINT TO SERIAL (1:ON/0:OFF) : OFF	The ISDN Calling Line Id may be included in call records output over the serial port assigned for "Call Information", PGM 175 button 5.	0: OFF 1: ON	OFF
3	DISPLAY DID INFO (1:ON/0:OFF) : OFF	Display DID digit information on LCD and print it to serial port.	0: OFF 1: ON	OFF

3.3.8.2 CLIP/COLP Table – PGM 201

Normally, the system will send the primary Directory Number of the ISDN Line in the ISDN call SETUP and CONNECT messages to identify the caller (CLIP) or the answering (COLP) party respectively. Under certain circumstances, it may be desirable to provide a secondary or DID number for the ISDN Line. In these cases, the CLIP/COLP Table may be used to define the digits sent. The number sent is selected based on the index assigned for the ISDN Line under CO/IP Attributes III (PGM 143).

For the CLIP/COLP Table entry, the CLI Station Number (PGM 114) is sent in place of the station number. For all other CLIP/COLP Table entries, the station number is sent as a suffix to the number in the Table. Note that this number is sent only if CLIR and COLR are disabled under the CLIR Service and COLR Service assignments in the Station ISDN Attributes (PGM 114).

PROCEDURE:	
CLIP/COLP TABLE ENTRY ENTER BIN NO (00 –4 9)	1. Press the [PGM] button and dial 201 and enter the bin number (Ex.00).
CLIP/COLP TABLE 00	Use the dial pad to enter the desired Bin number (00-49)
	Use the dial pad to enter the desired CLIP/COLP data, maximum 10 digits.
	Press the [Save] button to store the CLIP/COLP data entry.

3.3.8.3 MSN Table – PGM 202

When an ISDN Line assigned for DID operation, receives an incoming call, the call will be routed to a station based on the Flexible DID Table Index in the MSN Table.

PROCEDURE:	
MSN TABLE ATT ENTER BIN NO (001 – 500)	1. Press the [PGM] button and dial 202 and enter the bin number (Ex.121). (eMG80:001~500/ eMG800:1~1500)
MSN TABLE 121 PRESS FLEX KEY (1-3)	Use the dial pad to enter a MSN Table index number.
	Press the Flex button for the desired MSN Table entry; refer to Table 3.3.8.3-1.
	Use the dial pad to enter the desired Table data.
	Press the [Save] button to store the Table data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	MSN TABLE 121 CO RANGE	CO Line number associated with the MSN.		None
2	MSN TABLE 121 INDEX : NOT ASSIGNED	Index to the Flexible DID Table, PGM 231.	000~999	None
3	TABLE 121 TEL NUMBER	Telephone Number (called number)	23 Digits	None

Table 3.3.8.3-1 MSN ATTRIBUTES (PGM 202)

3.3.8.4 ICLID Route Table – PGM 203

The system can employ ICLID (Incoming Calling Line Id) to determine the routing of incoming external calls. Each CO/IP Line and ACD group may be assigned to employ ICLID routing. The system will compare the received ICLID to entries in the ICLID Route Table and, if a match is found, will route the call to the destination indicated by the index (bin) number of PGM 204.

PROCEDURE:	
ICLID ROUTE TABLE ATT ENTER BIN NO (001-250)	1. Press the [PGM] button and dial 203 and enter the bin number (Ex.001).
ICLID ROUTE TABLE 001 PRESS FLEX KEY (1-4)	To program ICLID Route table, dial Bin No (001 – 250).
	Press the Flex button for the desired ICLID Table entry; refer to Table 3.3.8.4-1.
	Use the dial pad to enter the desired Table data
	Press the [Save] button to store the Table data entry.

Table 3.3.8.4-1 ICLID ROUTE INDEX (PGM 203)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ROUTE TABLE 001 INDEX : NOT ASSIGNED	Index to the ICLID Ring Assignment Table PGM 204 that determines the call routing.	001~250	Not assigned
2	TABLE 001 ICLID NUMBER	ICLID (Incoming Caller Id) to match for the index. If the Caller Id matches the Table entry, the index is used to select the route from PGM 204.	24-digits 0 ~ 9 & '*' and '#' as a wild-card.	None
3	TABLE 001 ICLID NAME	ICLID name that is sent by the system to the destination for the ICLID routed call.	12.Character	None
4	TABLE 001 ICLID TONE	If the ICLID Number is matched with CID of caller, the Ring tone is followed this ICLID Tone.	2 digits.01~12	None

3.3.8.5 ICLID Ring Assignment – PGM 204

If the Incoming Caller ID matches an entry in the ICLID Route Table, the index from the Table is used to determine the call routing from the ICLID Ring Assignment Table. Separate ring assignments are made for Day, Night, and Timed Ring mode for each index, 001 to 250, in this table. When assigned to ring to a VSF announcement, the call can be automatically dropped after the announcement by entering '#' after the announcement number.

When CO Lines are programmed to Ring an external AA/VM, VSF or Feature Server Group as an Automated Attendant, the Ring signal can be on an immediate or delayed basis allowing other stations/groups to be assigned Ring and answer prior to signaling the AA. The delay is defined in seconds from 00 to 30.

PROCEDURE:	
ICLID RING ASN TBL ATT ENTER BIN NO (001-250)	1. Press the [PGM] button and dial 204 and enter the bin number (Ex.001).
PRESS KEY DAY NIGHT TIMED-R	Use the dial pad to enter the Index or Bin number (001 – 250).
	Press the desired Flex button:
	Button 1: Day Ring
	Button 2: Night Ring
	Button 3: Timed Ring
	Use the dial pad to select the destination type:
	Dial 1: Station
	Dial 2: Hunt Group
	Dial 3: VSF Announcement
	Dial 4: AA Ring Time
	Dial 5 : Net number
	Use the dial pad to enter a value for the selected destination type.
	Press the [Save] button to store the data entry.

3.3.8.6 PPP Attributes – PGM 205

In addition to remote access via an IP network connection, the system database may be accessed remotely via MODU. The system will request a user id and password, which must match one of the User Ids and passwords assigned. After matching id and password are entered, the iPECS Home page is provided and Web Admin is available as explained in section 4.

PROCEDURE:	
PPP ATTRIBUTES PRESS FLEX KEY (1-7)	1. Press the [PGM] button and dial 205.
	Press the desired Flex button; refer to Table 3.3.8.6-1.
Used the dial pad to enter desired data, refer to Tabl 3.3.8.6-1 for appropriate entries.	
	Press the [Save] button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	PPP DEST STA 	If the incoming capability is 64 Kbps unrestricted digital and the called party number matches the PPP destination, the system will automatically answer the call and request PPP ID and password.	Station number	None
2	PPP USER ID 1 likppp01	System accepts this PPP ID 1.	12 Character	likppp01
3	PPP PASSWORD 1 Ipkts01	The password entered is used to authorize PPP ID 1.	12 Character	lpkts01
4	PPP USER ID 2 likppp02	System accepts this PPP ID 2.	12 Character	likppp02
5	PPP PASSWORD 2 Ipkts02	The password entered is used to authorize PPP ID 2.	12 Character	lpkts02
6	PPP SERVER IP ADDR 10 . 0 . 0 . 3	Operator can configure PPP Server IP Address with this option. To apply this option, system must be restarted.		10.0.0.3
7	PPP CLIENT IP ADDR 10 . 0 . 0 . 2	Operator can configure PPP Client IP Address with this option. To apply this option, system must be restarted.		10.0.0.2

Table 3.3.8.6-1 PPP ATTRIBUTES (PGM 205)

3.3.8.7 Prefix Dialing Table – PGM 206

With this table, three features can be supported.

- 1. Analog CO Call Charge with NPR metering.
- 2. SIP direct dialing with no wait inter-digit timer.
- 3. ISDN Prefix Call ISDN en-block Dialing with Prefix Call Setup.

If first some digits (up to 8 digits) of outgoing dial number are matched with Prefix Code of each table, this table can start work. By each CO-line (PGM 142 - F20), Table ID (0-6) can be set. This table ID (PGM 142 - F20) is associated with PGM 206 - each table ID.

PROCEDURE:		
PREFIX DIALING TABLES ENTER BIN NO (001-500)	1. Press the [PGM] button and dial 206 and enter the bin number (Ex.001).	
PREFIX TABLE 001 PRESS FLEX KEY(01-10)	Use the dial-pad to enter the Table index number (bin).	
Refer to Table 3.3.8.7-1 DISPLAY	2. Press the desired Flex button, refer to Table 3.3.8.7-1	
	Use the dial pad to enter desired data, refer to Table 3.3.8.7- 1	
	Press the [Save] button to store the data entry.	

Table 3.3.8.7-1 Prefix Dialing Table (PGM 206)

ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
001 PREFIX CODE	Enter the Prefix code. (Max 8 digits)		
001 TABLE ID (0 - 6) : 0	Enter Table ID (0-6). 0 means NOT used.	0-6	0
001 MIN DIGIT (00 – 30) : 00	Select the minimum dial digits (00- 30)	00-30	00
001 MAX DIGIT (00 – 30) : 00	Select the minimum dial digits (00- 30)	00-30	00
001 NUM OF TYPE(0-6) UNKNOWN(0)	Select Number of Type (0~6). Unknown/International/National/ Network Spec/Subscriber/ Abbreviated /Reserved	0-6 (0:Unknown 1:International 2:National 3:Network Spec. 4:Subscriber 5:Abbreviated	UNKNOWN(0)
	$\begin{array}{c} 001 \ \text{PREFIX CODE} \\ \dots \\ 001 \ \text{TABLE ID} \\ (0 - 6) : 0 \\ \hline \\ 001 \ \text{MIN DIGIT} \\ (00 - 30) : 00 \\ \hline \\ 001 \ \text{MAX DIGIT} \\ (00 - 30) : 00 \\ \hline \\ 001 \ \text{NUM OF TYPE}(0-6) \\ \hline \end{array}$	001 PREFIX CODEEnter the Prefix code. (Max 8 digits)001 TABLE ID (0 - 6) : 0Enter Table ID (0-6). 0 means NOT used.001 MIN DIGIT (00 - 30) : 00Select the minimum dial digits (00-30)001 MAX DIGIT (00 - 30) : 00Select the minimum dial digits (00-30)001 NUM OF TYPE(0-6) UNKNOWN(0)Select Number of Type (0~6). Unknown/International/National/ Network Spec/Subscriber/	001 PREFIX CODEEnter the Prefix code. (Max 8 digits)001 TABLE ID (0 - 6) : 0Enter Table ID (0-6). 0 means NOT used.0-6001 MIN DIGIT (00 - 30) : 00Select the minimum dial digits (00- 30)00-30001 MAX DIGIT (00 - 30) : 00Select the minimum dial digits (00- 30)00-30001 NUM OF TYPE(0-6) UNKNOWN(0)Select Number of Type (0~6). Unknown/International/National/ Network Spec/Subscriber/ Abbreviated /Reserved0-6 (0:Unknown 1:International 3:Network Spec. 4:Subscriber

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	001 NUM PLAN(0-6) UNKNOWN(0)	Select Numbering Plan (0~6). Unknown/ISDN/Data Numbering/Telex/National Standard/Private /Reserved	0-6 (0:Unknonw 1:ISDN/Telephony 2:Data numbering 3:Telex 4:National standard 5:Private 6:Reserved)	UNKNOWN(0)
7	001 SENDING COMPLETE (1:ON/0:OFF) : OFF	Select Sending Complete option. (On/Off)	0-1	OFF
8	001 CALL TYPE (0-5) UNKNOWN(0)	Call Charge Type (0~5). Unknown/Local/Long Distance/ International/Mobile/reserved	0-5 (0:Unknown 1:Local 2:Long Distance 3:International 4:Mobile 5:reserved)	UNKNOWN(0)
9	001 CALL TIMER(sec) (000 – 999) : 000	Call Charge Timer can be assigned. By this timer value Call Metering can be established.	000-999	000
10	001 CALL COST 000000	Call Cost is calculated by CALL TIMER. (ex : timer is 1 min, cost is 000020, then after 3 minute call, total call cost is calculated to 000060)	000000-9999999	000000
11	001 FLAT RATE (1:ON/0:OFF) : OFF	If Flat Rate is ON, Flat Rate is applied by CALL COST per a call	0-1	OFF
12	PREFIX TABLE INIT PRESS [HOLD] TO INIT	Initialize Prefix table.		

Table 3.3.8.7-1 Prefix Dialing Table (PGM 206)

3.3.9 TABLES DATA - PGM 220 to 235

3.3.9.1 LCR Assignment Tables - PGM 220 to 223

The LCR Tables provide a mechanism to define the database, which will route outgoing calls, particularly long distance, using the most cost effective route. User dialed digits are compared to table entries and modified appropriately based on time of day, day of week, and assigned routes. There are four LCR Tables, LCR Control Attributes, LCR Leading Digit Table, LCR Digit Modification Table, and LCR Initialization Table.

3.3.9.1.1 LCR Control Attributes - PGM 220

The LCR Control Attributes, among others items, allows access to the LCR Access Mode assignments. The LCR Access Modes define the user operations that will access the LCR feature.

The LCR Access Modes are:

Mode 00:	LCR Disabled
Mode 01:	Loop (user dials '9' or CO/IP Group code (8xx) or presses a Loop button)
Mode 02:	Loop and Internal (user dials digits without a CO/IP Access Code prefix)
Mode 11:	Loop and Direct CO Line (user dialed CO Line Access Code, or presses {CO} button).
Mode 12:	Loop, Direct CO Line, and Internal
Mode 13:	Loop, Direct CO Line, Internal and Direct

In addition, days of the week are grouped into zones (Day Zones) and the time of day can be set into three groups (Time Zones). Table 3.3.9.1.1-1 provides general descriptive information and input ranges.

- PROCEDURE:	
LCR CONTROL ATTRIBUTES PRESS FLEX KEY (1-5)	1. Press the [PGM] button and dial 220.
	Press Flex button 1~5, refer to Table 3.3.9.1.1-1.
	For LCR Access Mode and Time Zones, use the dial-pad to enter desired data and proceed to step 5). Refer to Table 3.3.9.1.1-1 for input ranges. For Day Zones press the Flex button 1~7 to select the day of week, Monday: Flex button 1 to Sunday: Flex button 7.
	For Day Zones, after selecting the desired day of week Flex button, use the dial pad to enter the desired zone, 1~3. Press the [Save] button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	LCR ACCESS MODE (1-6) (M00) DISABLE LCR	This entry defines the effective LCR modes, the modes by which the user can access LCR.	M00: 1 M01: 2 M02: 3 M11: 4 M12: 5 M13: 6	1
2	DAY ZN 1:1234567 2: 3: M1 T2 W3 T4 F5 SA6 SU7	For each day of the week, a Day Zone (1 to 3) is assigned. The active Day Zone is the Zone assigned to the current day of the week (Flex button 1~7).	Flex 1~7 + 1~3	Zone 1: all days of the week
3	TIME ZONE 1 1:00-24 2: 3:	This entry defines the hours of the day during which Time Zone 1 is active. Note hours not defined in Time Zone 2 and 3 are automatically part of Time Zone 1.	00~24	00~24
4	TIME ZONE 2 1:00-24 2: 3:	This entry defines the hours of the day during which Time Zone 2 is active.	00~24	00~24
5	TIME ZONE 3 1:00-24 2: 3 :	This entry defines the hours of the day during which Time Zone 3 is active.	00~24	00~24

Table 3.3.9.1.1-1 LCR CONTROL ATTRIBUTES (PGM 220)

3.3.9.1.2 LCR Leading Digit Table — PGM 221

The Leading Digit Table is used to analyze the user-dialed digits to determine an appropriate Digit Modification Table Index. LDT Tables are provided for 32 LDT Table for iPECS-1200, 10 for the other systems. The Table is divided into bins. The applicable LCR Access Modes (LCR Type) and the digits (up to the first 12) to be compared with the number dialed by the user are entered in the Leading Digit Table bin. In addition, indices to the Digit Modification Table are defined for each Time Zone of each Day Zone; refer to LCR Control Attributes PGM 220.

Note the mode used to access LCR must match the LCR Type and must be within the effective LCR Access Mode assigned in PGM 220 to access the Digit Modification Table index. The allowed LCR Types are:

- 1. **CO Line or Loop access**: User dials CO Line Access Code, CO/IP Group Access Code (8xx), Any CO Line Access Code '9', or presses a CO Line, CO/IP Group or Loop button.
- 2. **Internal**: User dials outgoing call while receiving Intercom dial tone with no CO/IP access code.
- 3. Both: Both COL and Internal.

In addition, each Leading Digit Table bin has the option to require an authorization code entry. When the user-dialed digits match an entry in the LCR Leading Digit Table, the system will check the Authorization option for the LDT Table bin. If the Authorization option is enabled, the user must enter a valid Authorization code to place the call.

PROCEDURE:	
LDT TABLE ENTER LDT TBL NO (01-10)	1. Press the [PGM] button and dial 221 and enter LDT Table number (Ex.01).(eMG80:01~10/eMG800:1~32)
LDT 01 TABLE ENTER LDT BIN (000)	Enter the LDT Table number (Ex.000).
000 BOTH CD:	The system displays the first available bin (000~249) of the Leading Digits Table. To select a different bin, use the dial pad to enter the desired bin number.
	Press the desired Flex button (1~6), refer to Table 3.3.9.1.2- 1.
	Use the dial pad to enter the desired Leading Digit Table data, refer to Table 3.3.9.1.2-1.
	Press the [Save] button to store the data entry. Note, as the data is stored, the system sorts the LDT bins in ascending order to allow rapid "look-up" of data. Thus, the bin number will be changed appropriately.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1		This entry defines the LCR modes that	1: Internal	Both
	LDT 01/000 : LCR TYPE	will apply to this Leading Digit Table bin.	2: CO Line	
	LCR MODE : BOTH (3)	To apply the DMT index, the LCR Type	3: Both	
		must be part of the LCR Mode defined		
		in PGM 220.		
2	LDT 01/000 : LCR CODE	Up to 12 digits that, if matched by the	12 digits	
	EDT 01/000 · ECIT CODE	user dialed digits, will access the DMT	0 ~ 9 and	
	· · · · · · · · · · · · · · · · · · ·	entry for the index assigned for the Day	'*' as a	
		and Time zone below.	wildcard	
3	LDT 01/000 : DAY 1 DMT	This entry defines the Digit Modification	00~99	
	INDEX(6DGT):	Table index (00~99) for each Time	3 DMT	
		Zone for Day Zone 1. The appropriate	indices	
		index will be selected for the current		
		Day and Time Zone. An entry of 6 digits		
		(2 per Time Zone) must be entered.		
4	LDT 01/000: DAY 2 DMT	This entry defines the Digit Modification	00~99	
	INDEX(6DGT):	Table index (00~99) for each Time	3 DMT	
		Zone for Day Zone 2. The appropriate	indices	
		index will be selected for the current		
		Day and Time Zone. An entry of 6 digits		
		(2 per Time Zone) must be entered.		
5	LDT 01/000: DAY 3 DMT	This entry defines the Digit Modification	00~99	
	INDEX(6DGT):	Table index (00~99) for each Time	3 DMT	
		Zone for Day Zone 3. The appropriate	indices	
		index will be selected for the current		
		Day and Time Zone. An entry of 6 digits		
		(2 per Time Zone) must be entered.		
6	LDT 01/000: CHK PASSWORD	If enabled (ON), when the dialed digits	0: OFF	OFF
	(1:ON / 0:OFF) : OFF	match the LDT table digits, the system	1: ON	
		will send second dial tone to request the		
		user input a valid Authorization code.		
7	LDT 01/000: ZONE NO	If the LDT Zone Number of a station/co	001-100	001
	(001-100) : 001	line is equal to this value, this LDT table		
		is available to the station/co line.		

Table 3.3.9.1.2-1 LCR LEADING DIGITS (PGM 221)

3.3.9.1.3 LCR Digit Modification Table — PGM 222

Using the index determined from the analysis of the LCR Leading Digits Table PGM 221, the dialed number is modified in accordance with the Digit Modification Table and sent over the CO/IP group assigned for the index.

Digits of the dialed number can be deleted based on the "Removal Position (RP)" and "Number of Remove digits (NR)" and a digit stream can be inserted in the resulting number. Counting from the first dialed digit, the Removal Position defines the location of the digit where removal begins and, NR defines the number of digits to remove. The "Add Digit Stream" is then inserted in the resulting number at the digit position assigned by the Add Position entry. The resulting number is then dialed over the CO/IP path assigned. If the assigned path is not available, the "Alternate DMT index" is used to determine the number and CO/IP path to be used.

Table 3.3.9.1.3-1 provides the displays, descriptions and entry ranges for the Digit Modification Table.

PROCEDURE:	
DMT TABLE ENTER DMT BIN (00-99)	1. Press the [PGM] button and dial 222 and enter DMT bin number (Ex.55).
55 A: RP01 NR00 AP01 CG01 AD	Using the dial pad enter the desired Digit Modification Table index.
	Press the Flex button (1~6) for the desired Table entry, refer to Table 3.3.9.1.3-1.
	Use the dial pad to enter the desired Digit Modification Table data, refer to Table 3.3.9.1.3-1.
	Press the [Save] button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	DMT 55 ADDED DGT	This entry defines the digit stream to insert in the number after digits are removed. Digits 0~9, '*', '#', and special characters: [HOLD]: timed Pause [DND]: Dial tone detect [FLASH]: Billing station number	25 digits	
2	DMT 55 REMOVAL POSITION (01-12) : 01	This entry defines the position of the digit where removal is to begin, starting with the 1st dialed digit (01).	01~12	01
3	DMT 55 NUM OF REMOVE DIGITS (00-12) : 00	This entry defines the number of digits to remove starting at the "Removal Position".	00~12	00
4	DMT 55 ADD POSITION (01-13) : 01	This entry defines the position in the number (after digits are removed) where the Add Digits are inserted.	01~13	01
5	DMT 55 CO/IP GROUP (01-21) : 01	This entry defines the CO/IP Group that the system will attempt to use for the call.	01~21	01
6	DMT 55 ALT INDEX (00-99) :	This entry defines an Alternate Digit Modification Table Index to use if no path is available in the assigned CO/IP Group.	00~99	

Table 3.3.9.1.3-1 LCR DIGIT MODIFICATION (PGM 222)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	DMT 55 NET NUM PLAN BIN (000-251) :	This entry defines the Net Number Plan Table bin that the system will attempt to use for the transit out call.	000~251	
8	DMT 55 SMDR CODE	This only used for TNET with CM. This code will be send to CM when the TNET status is changed from Local survival mode to bypass mode.	4 digit	

Table 3.3.9.1.3-1 LCR DIGIT MODIFICATION (PGM 222)

3.3.9.1.4 LCR Table Initialize — PGM 223

The LCR Table Initialize allows global values to be assigned to the various Digit Modification Table entries. In addition, the LCR Leading Digits and LCR Digit Modification Tables can be initialized, no entries state.

PROCEDURE:	
INITIALIZE LCR DB PRESS FLEX KEY (1-6)	1. Press the [PGM] button and dial 223.
	Press the Flex button (1~6) for the desired Table entry, refer to Table 3.3.9.1.4-1.
	Use the dial pad to enter the desired LCR data, refer to Table 3.3.9.1.4-1.
	Press the [Save] button to store the data entry.

Table 3.3.9.1.4-1 LCR TABLE INITIALIZE (PGM 223)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENTER DMT INIT VAL(DAY1)	This entry permits the global setting of the Digit Modification Table Time Zone 1 to 3 indices for Day Zone 1.	00~99 3 DMT indices	
2	ENTER DMT INIT VAL(DAY2)	This entry permits the global setting of the Digit Modification Table Time Zone 1 to 3 indices for Day Zone 2.	00~99 3 DMT indices	
3	ENTER DMT INIT VAL(DAY3)	This entry permits the global setting of the Digit Modification Table Time Zone 1 to 3 indices for Day Zone 3.	00~99 3 DMT indices	
4	ENTER CO GRP INIT VAL	This entry permits the global setting of the CO/IP Group to be used for LCR calls.	01~21	
5	ENTER ALT INDEX INIT VA	This entry permits the global setting of the Digit Modification Alternate Index.	00~99	
6	INITIALIZE ALL LCR ?	Pressing [Save] will return the LCR LDT and DMT tables to the default (no entries) setting.		

3.3.9.2 Toll Tables – PGM 224

There are five Toll restriction Tables and each has a pair of Table entries. Each pair consists of an Allow and a Deny entry. Allow and Deny entries for Table 'A' apply to Station and DISA Class of Service 2, 4 and 11. Allow and Deny entries for Table 'B' apply to Station and DISA Class of Service 3, 4 and 11. Allow and Deny entries for Table 'C' apply to Station and DISA Class of Service 5 and 6. Allow and Deny entries for Table 'D' apply to Station and DISA Class of Service 8, 10 and 11. Allow and Deny entries for Table 'E' apply to Station and DISA Class of Service 9, 10 and 11.

For each Table, there can be up to 50 separate Allow and Deny entries (total of 100) of up to 20 digits. Entries in the Tables can be any digit (0-9), "#" as a wild card (don't care) digit, or "*" as an end of entry digit.

Based on Table entries, stations or DISA users are allowed or denied dialing specified numbers. The following rules apply to establishing restrictions based on the Table entries:

- If the appropriate Allow/Deny Table pair has no entries and COS is 2 to 4, or 8 to 9, no restrictions are applied. If the COS is 5 or 6, no Long Distance dialing is allowed.
- If entries are only made in the Allow Table, only those numbers entered can be dialed, all other dialed numbers will be restricted.
- If entries are only made in the Deny Table, only those numbers entered will be restricted and all other numbers can be dialed.
- When there are entries in both the Allow and Deny Table pair, if the number is in the Deny Table, the number will be restricted otherwise the number can be dialed without restriction.

PROCEDURE:	
TOLL EXCEPTION TABLES PRESS FLEX KEY (01-10)	1. Press the [PGM] button and dial 224.
ALLOW TABLE A ENTER BIN NO (01-50)	Press Flex button 1~10: Button 1: Allow Table A Button 2: Deny Table A Button 3: Allow Table B Button 4: Deny Table B Button 5: Allow Table C Button 6: Deny Table C Button 7: Allow Table D Button 8: Deny Table D Button 9: Allow Table E Button 10: Deny Table E
	Use the dial-pad to select a bin number (01~50).
	Use the dial-pad to enter the dialed number desired (up to 20 digits). Use "#" as a wild card to represent any digit and, at the end of an entry, dial "*" to end the entry. To delete a Toll Table entry, press the [SPEED] button.
	Press the [Save] button to store the data entry.

3.3.9.3 Emergency Code Table – PGM 226

The Emergency Code Table is used to identify emergency numbers which, when dialed, will override all COS dialing restrictions. An Emergency Code number may be up to fifteen (15) digits in length.

PROCEDURE:	
EMERGENCY SVC CALL ENTER BIN NO (01 - 10)	1. Press the [PGM] button and dial 226 and enter the bin number (Ex.01).
EMERGENCY SVC CALL BIN 01: 911	Use the dial-pad for the desired Emergency code entry, 01 \sim 10.
	Use the dial-pad to enter the Emergency code number. After entering the number dial "*", the number is displayed with an "E" indicating END of entry.
	Press the [Save] button to store the data entry.

3.3.9.4 Authorization Codes Table – PGM 227

Authorization codes are employed to control access to the system resources and facilities. Walking COS, CO/IP Group access, DISA callers, and certain Call Forward types may require input of a valid Authorization code. Codes up to 12 digits may be entered into the system database. The station has an associated Station Authorization bin, which can be assigned by the user from the user's telephone. The System Authorization codes are stored in System bins and are entered or deleted only through Admin.

PROCEDURE:		
AUTHORIZATION CODE F1:STA_AUTH F2:SYS_AUTH	1. Press the [PGM] button and dial 227.	
	Press Flex button 1 or 2 to select the desired entry:	
	Flex button 1 - Station authorization code	
	Flex button 2 - System Authorization code	
For Flex button 1 enter a station range, enter the same station number twice for a single station entry.		
	Then press Flex button 1 to set the password and Flex button 2 to set the COS (Day, Night and Timed).	
	Use the dial-pad to enter the Authorization code or COS.	
	Press the [Save] button to store the data entry.	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	AUTHORIZATION CODE ENTER STA RANGE	Authorization code for each station can be assigned up to 12 digits in length (enter STA range (Ex. 100110)).		
1-1	STATION AUTHORIZATION 100-110 :	Authorization codes for system-wide use can be assigned up to 12 digits in length.	100-239	
2	AUTHORIZATION CODE ENTER BIN NO(001-360)	Selects attribute, code or Class of Service.	eMG80:001~360, eMG800:1~1200	
	SYSTEM AUTHORIZATION F1:SET_PWD F 2:SET_COS	Press Flex button 1 or 2 to select the desired entry: Flex button 1 – Set Password Flex button 2 – Set class of service	Flex button1-2	
2-1	SYSTEM AUTHORIZATION 001:	A password of up to 12 digits is defined.		
2-2	SET COS : F1:DAY F2 :NIGHT F3 :TIME	Establishes the COS associated with the System Authorization code during Day, Night and Timed Service modes.	Flex button1-3	

Table 3.3.9.4-1 AUTHORIZATION CODES (PGM 227)

3.3.9.5 Customer Call Routing/VSF AA Table – PGM 228

The system incorporates IVR (Integrated Voice Response) capabilities called CCR (Customer Call Routing). After or during a VSF AA Announcement, a caller may dial a digit to select a destination or route for the call. The CCR/VSF-AA Routing Audio Text Table defines the destination associated with digits dialed by the caller in response to the VSF AA Announcement (01-70). Up to 70 single-level Audio Text menus may be assigned or, multi-level menu structures (maximum 70 levels) can be established using one menu as a destination for the previous level.

PROCEDURE:	
CUSTOM CALL ROUTING SELECT CCR TABLE (01-70)	1. Press the [PGM] button and dial 228 and select CCR table (Ex.01).
CCR TABLE 01 PRESS FLEX KEY (01-14)	Use the dial-pad to select a CCR Table index, 01~70. The index number 01-70 is the VSF Announcement number.

PROCEDURE:	
CCR TABLE 01 INPUT 1 : NOT ASSIGNED	 2. Press a Flex button (1~13, 10=0) to assign a route for the associated CCR dialed digit. (11~13 is assigned to busy, no answer, error destinations) Flex button 01-10 is matched with input dial digit from outside user. The flex key number 10 is matched with dial digit 0. Flex button 11-13 is related with CCR re-route Busy / Error / No Answer destination – The destination type is Tone / Attendant / Hunt Group / VSF Announcement. Flex button 14 is CCR One Digit Only option. If this option is set to ON, user can dial only one digit. If this option is set to OFF, user can dial more than one digit. That means CCR or DISA service can be possible.
CCR TABLE 01 INPUT 1 :	Use the dial-pad to enter the Type and Value for Destination, refer to Table 3.3.9.5-1 for Type and value codes.
	Press the [Save] button to store the data entry.

Table 3.3.9.5-1 CCR DESTINATIONS (PGM 228)

TYPE	DESCRIPTION
01	Route to a Station
02	Route to a Hunt Group
03	Route with System Speed Dial
04	Route as PBX Transfer with System Speed Dial (Flash then dial speed dial digits)
05	Route to VSF Announcement
06	Route to VSF Announcement and disconnect
07	Route to Networked Station
08	Conference Room
09	Internal Page (eMG80:1~35 / eMG800:1~100)
10	External page
11	All Call Page
12	Route to voice mail (station group/station number)
13	Company Directory (USA Only)
14	Record VM Greeting (USA Only)
15	UCS system conference group (eMG80:100~139 / eMG800:100~259)

3.3.9.6 Executive/Secretary Table – PGM 229

Stations can be paired as Executive/Secretary pairs so that when the Executive enters DND, intercom and transferred calls are automatically routed to the Secretary. An Executive may have only one Secretary however, a Secretary can be assigned to multiple Executives. A Secretary of one pair may be the Executive of another however, assignments that form a loop-back are not allowed. In addition, when active, the Secretary can be assigned to receive the Executive's voice messages, refer to Station Attributes III PGM 113 button 10.

PROCEDURE:	
EXEC/SEC PAIRS ENTER BIN NO (01-36)	1. Press the [PGM] button and dial 229 and enter the bin number (Ex.01).
EXEC/SEC PAIR 01 PRESS FLEX KEY(1-7)	Use the dial-pad to enter the desired Executive/Secretary pair bin.
	Press the desired Flex button; refer to Table 3.3.9.6-1.
	Press the [Save] button to store the data entry.

	Table 3.3.9.0-1 EXECUTIVE/SECRETART PAIRS (FGW 229)					
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT		
1	EXEC/SEC PAIR 01 PAIR 1 : /	Assigns Executive/Secretary pair stations.				
2	CO CALL TO SEC (1:ON/0:OFF) : OFF	If desired, all incoming CO calls to the Exec. The call is routed to the Secretary's station regardless of the Executive's status.	0: OFF 1: ON	OFF		
3	CALL EXEC IF SEC DND (1:ON/0:OFF) : OFF	If the Secretary is in DND, Executive calls can be routed back to the Executive.	0: OFF 1: ON	OFF		
4	EXEC GRADE (01-12): 12	Higher (or equal) grade Executives can override the Executive/Secretary Forward feature (5 th : ICM call to SEC) to call a lower grade Executive. Highest grade: 01, Lowest grade: 12.	01~12	12		
5	ICM CALL TO SEC (1:ON/0:OFF) : OFF	If this option is ON, all internal calls to the executive station (except for calls from higher or same grade executive) are routed to the Secretary's station regardless of the Executive's status. 8801 Default value Korea, India, Israel, Turkey, Thailand : ON / Otherwise : OFF	0: OFF 1: ON	OFF		
6	SEC. AUTO ANS (1:ON/0:OFF) : OFF	When executive call to the secretary who is in 'T' mode. The call will be answered by hands free mode if it is ON.	0: OFF 1: ON	OFF		
7	EXEC GROUP (00-50) : 00	If Group is greater than 1, it works that lower grade executive can call to higher grade executive directly when they are same group.	00-50	00		

Table 3.3.9.6-1 EXECUTIVE/SECRETARY PAIRS (PGM 229)

3.3.9.7 Flexible DID Conversion Table – PGM 231

When the received DID digits are converted as in PGM 230, the resulting 4 digit number may be used as an index to the Flexible DID Conversion Table. The Flexible DID Table index is used when DID Line is assigned a Conversion type 2; refer to PGM 145 Flex button 2. Based on the index from PGM 230 and the system mode (Day, Night or Timed) a destination for the DID call is determined. The destination can be a VSF AA Announcement with CCR assigned allowing further routing of the call or can route using the ICLID routing tables.

PROCEDURE:	
FLEX DID CONV TABLE F1:INPUT F2:INIT F3:DEL	1. Press the [PGM] button and dial 231.
FLEX DID CONV TBL INPUT ENTER BIN NO (0000-9999)	Select Flex button 1~3: Flex button 1: Input new data
	Flex button 2: Initialize Table
	Flex button 3: Delete entry
TABLE BIN 001 PRESS FLEX KEY (1-9)	Enter the bin number (Ex.0001) Use the dial pad to enter a Table index (0000~9999).
	Press Flex button 1~9 to select the desired destination, refer to Table 3.3.9.7-1.
	Use the dial pad to enter the desired type and value for the destination, refer to Table 3.3.9.7-2.
	Press the [Save] button to store the data entry.

Table 3.3.9.7-1 FLEXIBLE DID CONVERSION (PGM 231)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	TABLE 001 NAME	Name associated with the destination.	11 characters	
2	TABLE 001 DAY DEST NONE (01-15)	Destination setting for Day Ring mode.	01-15	
3	TABLE 001 NIGHT DEST NONE (01-15)	Destination setting for Night Ring mode. Table 3.3.9.7-2.	01-15	
4	TABLE 001 TIMED_R DEST NONE (01-15)	Destination setting for Timed Ring mode. Table 3.3.9.7-2.	01-15	
5	TABLE 001 REROUTE DEST NONE (01-15)	Destination setting for Reroute Dest mode. Table 3.3.9.7-2.	01-15	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	TABLE 001 USE ICLID (1:ON/O:OFF) : OFF	A DID Conversion Table index can be assigned to employ ICLID routing, section 3.3.8.4.	0: OFF 1: ON	OFF
7	TABLE 001 AUTO RING TBL (00-16),16:N/A) : 00	A DID Conversion Table Index can be assigned to employ an Auto ring mode table, section 3.3.9.9.	00-16	00
8	TABLE 001 MOH : (00-10) REFER TO CO HOLD(00)	A Music source is assigned so that calls to the destination receive audio from the source in place of ring-back tone.	00-10 (00: Refer to CO Hold 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH3	Refer to CO Hold
9	TABLE 001 RING TONE (00-16, 0:N/A) : 00	Ring tone of destination is followed this ring tone value.	2 digits. 00~16	00

Table 3.3.9.7-1 FLEXIBLE DID CONVERSION (PGM 231)

Table 3.3.9.7-2 FLEXIBLE DID DESTINATION (PGM 231)

TYPE	DESCRIPTION		
01	Route to a Station		
02	Route to a Hunt Group		
03	Route with System Speed Dial		
04	Route as PBX Transfer with System Speed Dial		
	(Flash then dial speed dial digits)		
05	Route to VSF AA Announcement		
06	Route to VSF AA Announcement and disconnect		
07	Route to a Networking Station		
08	Conference Room		
09	Internal Page		
10	External page		
11	All Call Page		
12	Voice Mail Box Group		
	Voice Mail Box Station		
13	ICLID Ring Assignment Table		
14	Company Directory		
	(USA Only)		
15	Record VM Greeting		
	(USA Only)		

3.3.9.8 System Speed Zone Table – PGM 232

The System Speed Dial numbers can be grouped into zones. Only stations allowed can access numbers within a zone, allowing System Speed Dials to be partitioned. Each zone can be assigned to apply the appropriate Station and CO Line COS for the Speed Dial number prior to dialing.

PROCEDURE:	
SYSTEM SPEED ZONE PGM ENTER BIN NO (01-10)	1. Press the [PGM] button and dial 232 and enter the bin number (Ex.01).
SYSTEM SPEED ZONE 1 F1:ZN F 2:ST F3:TK F4:AK	Using the dial-pad, enter the zone number, 01~10.
	Press Flex button 1~3 for the desired zone characteristic, refer to Table 3.3.9.8-1.
	Using the dial pad, enter the desired data as indicated in Table 3.3.9.8-1.
	Press the [Save] button to store the data entry.

Table 3.3.9.8-1 SPEED ZONE (PGM 232)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENTER NEW ZONE RANGE ZONE 1 : 2200- 4999	Speed Dial Bin range for zone.	2200-4999	eMG80:2200~4999, eMG800:2200~9999
2	ENTER STA RANGE ZONE 1 : 100 – 239	Station range for zone.	100-239	eMG80:100~239, eMG800:1000~2199
3	SPEED ZONE 1 TOLL CHK (1:ON/0:OFF) : ON	Assignment to apply toll restriction.	0: OFF 1: ON	ON
4	SPEED ZONE 1 AUTH CHK (1:ON/0:OFF) : ON	Speed Dial Authorization Check for zone.	0: OFF 1: ON	ON

3.3.9.9 Auto Ring Mode – PGM 233

The system can automatically select the Ring and COS Mode based on time of day and day of week. Three Ring and COS modes are supported, Day, Night, and Timed modes. The ring assignments are as defined in CO/IP Ring Assignment - PGMs 144. The COS assignments are defined in the DISA COS - PGM 166.

The start times for Day, Night and start and end times for timed modes are entered for each day of week. When the Timed mode ends, the system reverts to the appropriate mode based on the Day/Night settings and the time-of-day. The Attendant can override the automatic selection and select the desired system Mode (Day, Night, and Timed). A separate Auto Ring Table can be established for each ICM Tenancy Group - PGM 125 (indices $1 \sim 15$) and for the system (index 00).

PROCEDURE:	
WEEKLY TIME TABLE DIAL DIGIT (00-15)	1. Press the [PGM] button and dial 233 and enter Dial digit (Ex.00).(eMG80:00~15/eMG800:00~32)
WEEKLY TIME TBL 0 PRESS FLEX KEY (1-7)	Use the dial-pad to enter a tenant Table index or 00 for the system (00~15).
	Press the Flex button 1~7 for the desired day of week (Monday ~Sunday) followed by Flex button 1~3 for the desired ring mode (Day, Night, Timed), refer to Table 3.3.9.9-1.
	Use the dial-pad to enter a time (military time), 0000 to 2359.
	Press the [Save] button to store the data entry.

Table 3.3.9.9-1 AUTO RING MODE ASSIGNMENT (PGM 233)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	MON DAY-09:00 NITE-18:00 TDS: TDE:	Monday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::
2	TUE DAY-09:00 NITE-18:00 TDS: TDE:	Tuesday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::
3	WED DAY-09:00 NITE-18:00 TDS: TDE:	Wednesday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::
4	THU DAY-09:00 NITE-18:00 TDS: TDE:	Thursday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::
5	FRI DAY-09:00 NITE-18:00 TDS: TDE:	Friday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS:: TDE::

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
6	SAT DAY-09:00 NITE-18:00 TDS: TDE:	Saturday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS: TDE:
7	SUN DAY-09:00 NITE-18:00 TDS TDE	Sunday DAY/NIGHT/TIMED ring mode start times and TIMED mode end times.	0000~2359	DAY: 9:00 NITE: 18:00 TDS: TDE:

Table 3.3.9.9-1 AUTO RING MODE ASSIGNMENT (PGM 233)

3.3.9.10 Voice Mail Dialing Table – PGM 234

When an external Voice Mail system is used that employs in-band signaling, a digit sequence must be defined for the system to signal various call characteristics to the Voice Mail system. The voice mail uses the sequences to determine appropriate announcements or further call routing. The Table permits the definition of digits as either a prefix or suffix to other digits (station number for mailbox identification). Sequences are defined for such call characteristics as Put Mail, Get Mail, No Answer call, etc.

PROCEDURE:	
VOICE MAIL DIALING TBL DIAL DIGIT (1-9)	1. Press the [PGM] button and dial 234.
	Use the dial-pad to enter a table entry (1~9), refer to Table 3.3.9.10-1.
	Use the dial-pad to select Prefix or Suffix and the digit sequence, use the [MSG/CALLBK] button to enter a Pause, refer to Table 3.3.9.10-1.
	Press the [Save] button to store the data entry.

Table 3.3.9.10-1 VOICE MAIL DIAL (PGM 234)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VOICE MAIL 1 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive call to record a message. Put Mail	1: Prefix 2: Suffix Any digits	P#
2	VOICE MAIL 2 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to playback recorded messages. Get Mail	1: Prefix 2: Suffix Any digits	P##
3	VOICE MAIL 3 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive a call while the user is busy. Busy Mail	1: Prefix 2: Suffix Any digits	P#*3P
4	VOICE MAIL 4 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive a call while the user is in DND. DND Mail	1: Prefix 2: Suffix Any digits	P#*4P

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
5	VOICE MAIL 5 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive a call when the user did not answer. No Answer Mail	1: Prefix 2: Suffix Any digits	P#*5P
6	VOICE MAIL 6 PREFIX OR SUFFIX (1-2)	Code sent when the voice mail is to receive a call when a dialing error exists. Error Mail	1: Prefix 2: Suffix Any digits	P#*6P
7	VOICE MAIL 7 PREFIX OR SUFFIX (1-2)	It is reserved.	1: Prefix 2: Suffix Any digits	
8	VOICE MAIL 8 PREFIX OR SUFFIX (1-2)	It is reserved.	1: Prefix 2: Suffix Any digits	
9	VOICE MAIL 9 DISCONNECT [DIAL DGT_1]	Code sent when the voice mail is to disconnect a call. Disconnect Mail	1: Prefix 2: Suffix Any digits	****

Table 3.3.9.10-1 VOICE MAIL DIAL (PGM 234)

3.3.9.11 Registration & Fractional Module Table – PGM 235

When multiple iPECS eMG are located on the same LAN, it may be desirable to register add-on devices employing the Registration Table.

PROCEDURE:	
REGISTRATION TBL ENTER TBL NO(1-5)	1. Press the [PGM] button and dial 235 and enter Table number (Ex.1).
REG TBL 1: NO MAC INFO MAX PORT : 00, DEV ID:	Use the dial-pad to select a Table entry (1~5).
	Press the desired Flex button; refer to Table 3.3.9.11-1.
	Use the dial-pad to enter the desired data, refer to Table 3.3.9.11-1.
	Press the [Save] button to store the data entry.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	TBL 1: SET MAC ADDR MAC 1:	Enter the MAC address of the device to register.		
2	TBL 1: SET MAX PORT NO OF PORT : 00	Enter maximum number of ports (channels) for the device. For a 00 entry the system will accept physical port number.	00-99	00

Table 3.3.9.11-1 MAC REGISTRATION (PGM 235)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
3	TBL 1: DEVICE ID DEVICE ID :	Enter device ID when it has multiple device ID in Board/Gateway.	0-255	0 (N/A)

Table 3.3.9.11-1 MAC REGISTRATION (PGM 235)

3.3.9.12 Mobile Extension Table – PGM 236

A mobile phone can be used in conjunction with an iPECS Phone. The Mobile phone can access system resources available to the user's wired phone and will receive ring for incoming iPECS calls. The user may be allowed to enable the Mobile extension and define the mobile number. The system can be defined to employ a specific CO/IP Line Group to place calls to the Mobile phone.

The Mobile Extension Table also defines Notification of new VSF messages. When a new message is received for a user in the VSF, the system will call the assigned 'Tel Number' notifying the user of the new message.

PROCEDURE:		
MOBILE EXTENSION TABLE ENTER STA NUMBER	 Press the [PGM] button and dial 236 and enter STA number (Ex.100). 	
100 : MOBIL EXT ATTR PRESS FLEX KEY (01-14)	Use the dial-pad to enter the desired station number.	
	Press the Flex button for the desired item; refer to Table 3.3.9.12-1.	
	Use the dial-pad to enter the required data.	
	Press the [Save] button to store the data entry.	

Table 3.3.9.12-1 MOBILE EXTENSION (PGM 236)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	100 : PGM AUTHORITY (1:ON/0:OFF) : OFF	The user may be allowed to activate the mobile extension feature.	0: OFF 1: ON	OFF
2	100 : USAGE DISABLE (0 -2)	Mobile extension feature can be enabled and Fail Over to Mobile extension can be included	0: DISABLE 1: MOBILE EXT 2: FAIL OVER	DISABLE
3	100 : ACCESS CO GRP CO GRP : 01	CO group used to call (ring) the mobile extension.	eMG80:1-21 eMG800:1~201	01

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
4	100 : TEL NUMBER	Telephone number of the Mobile extension.		Not assigned
5	TABLE 001 CLI	When the mobile Telephone number and CLI do not match, the CLI entered here is used to authorize incoming calls from the mobile.		Not assigned
6	100 : HUNT CALL ENABLE (1:ON/0:OFF) : OFF	When the paired station is a member of a hunt group (ACD, Circular or Terminal), group calls can be sent to the active mobile extension.	0: OFF 1: ON	OFF
7	100 : VSF NOTIFY (1:ON/0:OFF) : OFF	Enables outbound notification by the system when the VSF has unheard messages.	0: OFF 1: ON	OFF
8	100 : NOTIFY RETRY CNT (1~9) : 3	Defines the number of attempts the system will make to complete a notification when receiving busy/no-answer.	1~9	3
9	100 : NOTIFY RETRY INT (1~3) : 3	Defines the time between notification attempts. If a notification fails, the system will retry after the timer expires.	1~3 (Minutes)	3
10	100 : NOTIFY BY MY CLI (1:ON/0:OFF) : OFF	When the system sends CLI to the mobile extension, the CLI can be either the original caller's CLI or the CLI of station.	0: OFF 1: ON	OFF
11	100 : CALL BACK (1:ON/0:OFF) : OFF	If it is set to "ON", incoming mobile extension call will be released before answered and system places a call to mobile extension. After mobile extension answers, the dial tone is provided and mobile extension can make internal or external call.	0: OFF 1: ON	OFF
12	100 : DELAY TIMER (000-255) : 000	Mobile extension call will be placed after delay time.	000~255	0
13	100 : ANNOUNCE (00-200) : 00	It can be announced for remote control.	0~200	0
14	100 : SUFFIX DID TBL T (1:ON/0:OFF) : OFF	It provide flexible DID table index when DID type 2 is used.	0: OFF 1: ON	OFF

Table 3.3.9.12-1 MOBILE EXTENSION (PGM 236)

3.3.9.13 Hot Desk Attributes – PGM 250

A Hot Desk station allows a user to login for access to the system features and resources. Once logged in, the user is provided access to system features and resources employing the database for the user's assigned station.

PROCEDURE:	
HOTDESK ATTRIBUTE PRESS FLEX KEY (1-3)	1. Press the [PGM] button and dial 250.
	Press the desired Flex button; refer to Table 3.3.9.13-1.
	Use the dial-pad to enter the appropriate data.
	Press the [Save] button to store the data entry.

Table 3.3.9.13-1 HOT DESK ATTRIBUTES (PGM 250)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	NO OF AGENT (000-140) 000	Assign number of hot desk agents.	0-140	000
2	VIEW AGENT RANGE N/A	View the assigned station number for agents.		
3	AUTO LOGOUT TMR (hour) (00-24) : 00	A Hot desk station will return to inactive if the logged in user takes no action for the Auto Logout timer.	0~24 Hrs.	00

3.3.9.14 CO Call Rerouting – PGM 252

System can reroute incoming call to CO. If called number matched with compare digits of Table 252, the call are routed to Rerouting number.

PROCEDURE:	
CRR ATTRIBUTE PRESS FLEX KEY (1-3)	1. Press the [PGM] button and dial 252.
	Press the desired Flex button; refer to Table 3.3.9.14-1.
	Use the dial-pad to enter the appropriate data.
	Press the [Save] button to store the data entry.

Table 3.3.9.14-1 CALL REROUTING ATTRIBUTES (PGM 252)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENABLE CRR (1:ON/0:OFF) : OFF	Enable CRR	0: OFF 1: ON	OFF
2	INIT CRR PRESS [Save] KEY	Initialize all data		
3	CRR ATTRIBUTES ENTER BIN NO (000-169)	If PGM 252-BTN1 is set 'ON', BTN3 is available. (Ex. enter the bin number 000)	000-169	
	CRR TABLE 000 PRESS FLEX KEY (1-4)	Press the desired Flex button, refer to Table 3.3.9.14-2	Flex button 1-4	

Table 3.3.9.14-2 CRR TABLE ATTRIBUTES (PGM 252)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	CRR 000 COMPARE CO GRP GRP NO (01-20) : 01	Enter group number for compare digits in incoming.	01-20	01
2	CRR 000 RECEIVE DGTS	Enter receive digits.		
3	CRR 000 CO+TEL NUMBER	Enter co group (or individual co, access co) plus telephone number.		
4	CRR 000 TYPE 	N/A : press digit '0' NET TYPE : '1' for transit out DISA TYPE : '2' for using DISA	0-2	N/A

3.3.9.15 Digit Conversion Tables – PGM 270

The Digit Conversion Table index is assigned to the Station and CO line. And the digit conversion can be applied according to the Apply Time Type (Unconditional, Day/Night/Timed or LCR Day/Time) differently.

Each Table includes 200 entries of up to 16 digits; entries in the Tables can be any digit (01–15), or "*", "#". Each Index can be applied by Apply Option. (All/Station/CO line/Disable)

PROCEDURE:	
DIGIT CONVERSION TABLE ENTER TABLE NO (01–15)	1. Press the [PGM] button and dial 270 and enter the table number (Ex. 01).(eMG80 : 1-15 / eMG800:1-32)
01 DIGIT CONVERSION ENTER BIN NO (001–200)	2. Dial Digit Conversion Table Number (01–15) and enter the bin umber (Ex.001).
01/001 DIGIT CONV. PRESS FLEX KEY (01–18)	 3. Dial conversion Bin No (001–200). Flex 1: Apply Time Type Flex 2: Dialed Digit Flex 3: Unconditional Changed Digit Flex 4-6: Day/Night Timed Changed Digit Flex 7-15: LCR Time (Day/Time Zone Changed Digit) Flex 16 : Ring mode table Flex 17 : Apply Option Flex 18: ARS CO Access CO
4. Use the dial-pad to enter the dialed numbe	
	5. Press the [Save] button to store the data entry.

Table 3.3.9.15-1 DIGIT CONVERSION TABLE ATTRIBUTES (PGM 270)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01/001 APPLY T–TYPE (0–2): UNCONDITIONAL	The Apply time type to be applied when the dialed digit is dialed.	0: Unconditional 1: Follow DNT 2: Follow LCR	Unconditional
2	01/001 DIALED DIGIT	The dialed digits	Max. 24 digits	
3	01/001 UNCOND CHANGED	The dialed digits are converted to this digit stream unconditionally.	Max. 24 digits	
4	01/001 DAY CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW DNT' and current ring mode is DAY.	Max. 24 digits	
5	01/001 NIGHT CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW DNT' and current ring mode is NIGHT.	Max. 24 digits	
6	01/001 TIMED CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW DNT' and current ring mode is TIMED.	Max. 24 digits	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
7	01/001 D1/T1 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 1 and time zone is 1.	Max. 24 digits	
8	01/001 D1/T2 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 1 and time zone is 2.	Max. 24 digits	
9	01/001 D1/T3 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 1 and time zone is 3.	Max. 24 digits	
10	01/001 D2/T1 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 2 and time zone is 1.	Max. 24 digits	
11	01/001 D2/T2 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 2 and time zone is 2.	Max. 24 digits	
12	01/001 D2/T3 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 2 and time zone is 3.	Max. 24 digits	
13	01/001 D3/T1 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 3 and time zone is 1.	Max. 24 digits	
14	01/001 D3/T2 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 3 and time zone is 2.	Max. 24 digits	
15	01/001 D3/T3 CHANGED	The dialed digits are converted to this digit stream when Apply Time type is 'FOLLOW LCR' and day zone is 3 and time zone is 3.	Max. 24 digits	
16	01/001 RING MODE TBL (00–15) : 0	The dialed digits are converted according to the auto ring mode time.	00-15	0
17	01/001 APPLY OPTION (0–3): ALL	The Apply Option can be applied according to the caller.	0. All 1. Reserved 2. CO Line 3. Disable	All
18	01/001 ARS CO ACCESS CO	If a selected path is not available for some reason (All Busy, Line Fault etc.) after digit conversion, Alternative Route Selection (ARS) will connect calls using predefined designated ARS digit in digit conversion table.	Max. 8 Digits	

3.3.10 NETWORKING DATA – PGM 320 to 324

3.3.10.1 Network Basic Attribute - PGM 320

PROCEDURE:	
NET BASIC ATTRIBUTE PRESS FLEX KEY (1-8)	1. Press the [PGM] button and dial 320.
	Press the Flex button 1~8 for the desired setting, refer to Table 3.3.10.1-1.
	Use the dial-pad to enter the required data.
	Press the [Save] button to store the new data.

Table 3.3.10.1-1 NETWORK BASIC ATTRIBUTE (PGM 320)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	NET ENABLE (1:ON/:OFF) :OFF	Enable Networking function	0: OFF 1: ON	OFF
2	NET RETRY COUNT (00-99) :00	Not used.	00-99	00
3	NET CNIP ENABLE (1:ON/:OFF) :ON	The name of calling station is sent to the called system between iPECS eMG. CNIP is displayed at called party stations display based on the programming.	0: OFF 1: ON	ON
4	NET CONP ENABLE (1:ON/:OFF) :OFF	Reserved for future usage.	0: OFF 1: ON	OFF
5	NET SIGNAL METHOD (1:FAC/:UUS) :FAC	Select the information element type for QSIG supplementary service message.	0: UUS 1: FAC	FAC
6	NET CAS ENABLE (1:ON/:OFF) :OFF	Not used.	0: OFF 1: ON	OFF
7	NET VPN ENABLE (1:ON/:OFF) :OFF	Not used.	0: OFF 1: ON	OFF
8	NET CC RETAIN MODE (1:ON/:OFF) :OFF	Not used.	0: OFF 1: ON	OFF

3.3.10.2 Network Supplementary Attribute – PGM 321

PROCEDURE:	
NET SUPPLEMENTARY ATTR PRESS FLEX KEY (1-9)	1. Press the [PGM] button and dial 321.
	Press Flex button 1~9 for the desired setting, refer to Table 3.3.10.2-1.
	Use the dial-pad to enter the required data, refer to Table 3.3.10.2-1.
	Press the [Save] button to store the new data.

Table 3.3.10.2-1 NETWORK SUPPLEMENTARY ATTRIBUTE (PGM 321)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	NET TRANSFER MODE (1:RERT/0:JOIN) :REROUT	Select type for Transfer and Call forward – Rerouting or Join	1: RERT 0: JOIN	REROUT
2	TCP PORT FOR BLF (9500-9999) :9500	TCP port for sending BLF message to BLF Manager	0000-9999	9500
3	UDP PORT FOR BLF (9500-9999) :9501	UDP port for sending BLF message to BLF Manager	0000-9999	9501
4	BLF MANAGER IP 0 . 0 . 0 . 0	IP Address of BLF Server used only when iPECS is configured with LDK systems for Voice Networking		0.0.0.0
5	DURATION OF BLF STS (01-99) 100 mm sec : 10	Duration of BLF status message sending to BLF Server.	01-99 (msec)	10
6	MULTI CAST IP 0 . 0 . 0 . 0	IP address of Multicast for BLF service.		0.0.0.0
7	NET TRANS FAULT RCL TMR (001-300)sec : 010	Network transfer fault recall timer to be used when no responses from other systems.	001-300 (seconds)	10
8	VOIP CALL REROUTE CO GR (00-20) : 00	SIP outgoing call is rerouted via alternative backup CO line when call is failed or there is no answer during 3 seconds.	eMG80:1-20 eMG800:1~200	00
9	BLF SERVICE USAGE (1:ON/:OFF) :ON	Enable/disable for BLF manager function.	0: OFF 1: ON	ON

3.3.10.3 Network CO LINE Attribute – PGM 322

PROCEDURE:	
NET COL ATTRIBUTE ENTER CO RANGE	1. Press the [PGM] button and dial 322 and enter CO range (Ex. 0101).(eMG80 : 1-74 / eMG800: 1-600)
01-01 NET COL PGM PRESS FLEX KEY (1-2)	Use the dial-pad to enter the CO Range.
	Press the Flex button 1~2 for the desired setting, refer to Table 3.3.10.3-1.
	Use the dial-pad to enter the required data, refer to Table 3.3.10.3-1.
	Press the [Save] button to store the new data.

Table 3.3.10.3-1 NETWORK BASIC ATTRIBUTE (PGM 322)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01-01 NET CO GRP (00 – 24): 00	Networking CO group programming for Networking call.	00-24	00
2	01-01 NET CO TYPE (0:PSTN/1:NET) : PSTN	Select network CO Line Type	0: PSTN 1: NET	PSTN

3.3.10.4 NET Numbering Plan Table – PGM 324

PROCEDURE:	
NET NUM PLAN TABLE ENTER BIN NO (000-251)	1. Press the [PGM] button and dial 324 and enter bin number (Ex.001).
001 NET NUM PLAN TBL PRESS FLEX KEY (01 – 16)	Use the dial-pad to enter the 3-digit Table index (bin) number, 000 ~ 251.
	Press the Flex button, 1~16 for the desired setting, refer to Table 3.3.10.4-1.
	Use the dial-pad to enter the required data, refer to Table 3.3.10.4-1.
	Press the [Save] button to store the new data.

Table 3.3.10.4-1 NETWORK NUMBERING PLAN (PGM 324)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	001 SYSTEM USAGE (0:NET/1:PSTN) : NET	Select system usage	0: NET 1: PSTN	NET
2	001 NUM PLAN CODE	 '*' means any digits can be inserted between 0 ~ 9. The digits followed by '#' are an internal station number. 	16 digits	
3	001 NUM PLAN CO GRP (00 - 24) :	'00' means an internal net station number	00-24	
4	001 CPN INFORMATION PRESS FLEX KY (1-4)	Flex 1: ISDN CPN INFORMATION Flex 2: (Flex button 1-4) 1: 00 CPN INFORMATION 01 2: 00 CPN INFORMATION 02 3: 00 CPN INFORMATION 03 4: 00 CPN INFORMATION 04	16 digits	
5	001 ALT SPD BIN (2000-4999) :	Alternative Dial Number (System SPD Bin) when the networking path has a fatal problem.	eMG80:2000~4999 eMG800:2000~9999	
6	DEST SYSTEM IP ADDR 0 . 0 . 0 . 0	IP Address of destination MPB system only when iPECS eMG is configured for Voice Networking.		0.0.0.0
7	DEST SYSTEM PORT NO (0000-9999) : 5588	Port Number of destination system for Networking.	0000-9999	5588
8	001 DIGIT REPEAT (0:NO/1:YES): NO	When the number plan code (Flex 2) is for PSTN call or transit-call, this number code can be enveloped in SETUP message or not whether if this field is set or not.	0: NO 1: YES	NO

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
9	001 NET PSTN ENBLOCK (0:NO/1:YES) : NO	Choose "Transit-out Public Line" to En-block or Over-lap.	0: NO 1: YES	NO
10	001 CO ATD CODE CLI (1:ON/0:OFF) : OFF	Determine whether if Centralized ATD CLI is sent or not when slave system makes transit call.	0: OFF 1: ON	OFF
11	001 FIREWALL ROUTING (1:ON/0:OFF) : ON	Select IP address (Firewall IP address or Non-firewall IP address). If the destination system (VOIB) is in same VPN then Non-firewall IP address should be sent. Otherwise the firewall IP address should be sent. ON : Send firewall IP address OFF : Send Non-firewall (Internal) IP address	0: OFF 1: ON	ON
12	001 AUTHO CODE COS USE (0:NO/1:YES): NO	When there's a transit out call request from user of slave system by seizing CO line, apply COS according to the authorization code.	0: NO 1: YES	NO
13	001 SMDR DIAL HIDDEN (0:NO/1:YES): NO	Determine to display dialed digit of transit out call or not at the slave system; it can contain authorization code.	0: NO 1: YES	NO
14	001 NET PSTN CLI (0:NET/1:PSTN): NET	NET: Send network station number for CLI PSTN: Send full CLI (e.g., 02-450-1000)	0: NET 1: PSTN	NET
15	001 SITE NAME	It is comment field to set name of network site.	Max. 12 characters	
16	001 EMERGENCY RERTE TMR (00-10) : 00	When timer is '0': The reroute emergency call is not work. When timer is set '1'~'10': The reroute emergency call is activated after this timer. This is only work when PGM 112-18th is transit-out CO group.	00-10	00

Table 3.3.10.4-1 NETWORK NUMBERING PLAN (PGM 324)

3.3.10.5 Network Feature Code Table – PGM 325

PROCEDURE:	
NET FEATURE CODE TBL ENTER BIN NO (01-20)	1. Press the [PGM] button and dial 325 and enter the bin number (Ex.01).
01 NET FEATURE CODE TBL PRESS FLEX KEY (1-2)	Use the dial-pad to enter the bin no.
	Press the Flex button 1~2 for the desired setting, refer to Table 3.3.10.5-1.
	Use the dial-pad to enter the required data, refer to Table 3.3.10.5-1.
	Press the [Save] button to store the new data.

Table 3.3.10.5-1 NETWORK FEATURE CODE TABLE (PGM 325)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	01 NET FEATURE CODE	Networking Feature Code programming for Networking paging call.	16 digits	
2	01 NET DEST NONE (1-6)	 Select network feature type (1-6) and dial associated number. INT PAGE ZONE (eMG80:01- 35/eMG800:1-100) EXT PAGE ZONE : (1-1) ALL CALL PAGE ZONE : (1-3 : 1(INT), 2(EXT), 3(ALL)) DOOR OPEN : 1~2 Conference Room (1-9) Call park (eMG80:01- 19/eMG800:1-200) 	1 : INT PAGE 2 : EXT PAGE 3 : ALL CALL PAGE 4: DOOR OPEN 5:Conference Room (1-9) 6:Call park (01- 19)	N/A

3.3.11 TNET (Centralized Networking) - PGM 330 ~ 336

In a Centralized Control TNET (Transparent Networking), remote devices may be registered to a Central MPB/MPB (CM) and to a Local MPB/MPB (LM). In this way, the CM maintains control of the remote device. Should the WAN connection between an LM and CM fail (2 second polling error), the LM will initiate operational control of the locally registered devices. Calls between the systems (CM & LM) can automatically shift to PSTN Modules registered with the LM for Fail-over operation. The configuration and characteristics of LMs and CM are configurable as is Fail-over operation.

3.3.11.1 TNET Basic Attributes – PGM 330

Each MPB in a Central Control network environment must be enabled for TNET operation in order to function as part of the network.

PROCEDURE:	
TNET BASIC ATTRIBUTES PRESS FLEX KEY (1 – 1)	1. Press the [PGM] button and dial 330.
TNET ENABLE (1:ON/0:OFF) : OFF	Press Flex button 1.
	Use the dial-pad to enable or disable TNET, Central Control networking.
	Press the [Save] button to store the new data.

3.3.11.2 TNET CM Attributes – PGM 331

Each LM (Local MPB), which is part of a Central Control Network, must be defined with the IP Address of the CM (Central MPB) as well as the LM configuration data that will be sent to the CM at the time the LM registers with the CM. The port counts define the ports, which are allocated in the CM database for use by devices registered to the LM. The number of ports defined in the database of each LM must be equal or less than the ports defined in the CM for the LM, see PGM 332, in order to register properly.

PROCEDURE:	
TNET CM ATTRIBUTES PRESS FLEX KEY (1 – 10)	1. Press the [PGM] button and dial 331.
	Press the Flex button, 1~6 for the desired setting, refer to Table 3.3.11.2-1.
	Use the dial-pad to enter the required data, refer to Table 3.3.11.2-1.
	Press the [Save] button to store the new data.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	CM REGISTER REQ (1:ON/0:OFF) : ON	This field informs the LM to attempt registration with the CM. This field must be set to ON for proper registration.	0: OFF 1: ON	OFF
2	CM SERVER TYPE 0:LIK / 1:CM : LIK(0)	This field defines Central Call Manager type. The LIK is eMG/UCP even though the display is LIK.	0:LIK 1: CM	LIK
3	CM1 IP ADDRESS 0 .0 .0 .0	This field defines the IP address of the CM1 that will be used by the LM.	IPv4 address	
4	CM2 IP ADDRESS 0 .0 .0 .0	This field defines the IP address of the CM2 that will be used by the LM.	IPv4 address	
5	CM1 MAC ADDRESS 00000000000	This field defines the MAC address of the CM1 that will be used by the LM.		
6	CM2 MAC ADDRESS 00000000000	This field defines the MAC address of the CM2 that will be used by the LM.		
7	CM IPKTS PORT (0001 - 9999) :5588	In the TNET environment, the IP KTS protocol signaling UDP port is defined. At present this field is not used, do not change this port number.	0000-9999	5588

Table 3.3.11.2-1 TNET CM ATTRIBUTES (PGM 331)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
8	CM TOTAL PORT (000 – 999) : 011	This field defines the total number of ports the LM will request be allocated by the CM for devices attached to the LM. This value must be equal to or less than the port count in the CM for the LM devices.	000-999	000
9	POLLING COUNT (00 – 99) : 05	This field defines the maximum polling failures an LM considers a WAN fault.	00-99	05
10	POLLING INTERVAL (00 – 99) : 02	This field defines the interval time between LM to CM polling attempts.	00-99	02

Table 3.3.11.2-1 TNET CM ATTRIBUTES (PGM 331)

3.3.11.3 TNET LM ATTRIBUTES – PGM 332

The CM (Central MPB/MPB) must be programmed with the MAC and IP address of each LM (Local MPB) in the Centralized Control network as well as the maximum configuration of each LM. The port counts define the ports, which are allocated in the CM database for use by devices registered to the LM. The number of ports defined in the database of each LM, sees PGM 331, must be equal to or less than the ports defined in the CM for the LM, in order to register properly. VoIP channels are needed to support RTP Packet relay or codec translation between other devices. The CO port count must include any VoIP channels required.

PROCEDURE:	
TNET LM ATTRIBUTES ENTER BIN NO(01-15)	1. Press the [PGM] button and dial 332.
TNET LM(01) ATTRIBUTES PRESS FLEX KEY (1- 4)	Use the dial pad to enter the bin number associated with the LM.
	Press the Flex button, 1~4 for the desired setting, refer to Table 3.3.11.3-1.
	Use the dial-pad to enter the required data, refer to Table 3.3.11.3-1.
	Press the [Save] button to store the new data.

Table 3.3.11.3-1 TNET LM ATTRIBUTES (PGM 332)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	LM(01) MAC ADDRESS 0000000000000	This field defines the MAC address of the LM that will be part of the TNET environment and is used by the CM for authorization.	MAC address	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
2	LM(01) IP ADDRESS 0 .0 .0 .0	This field displays the IP address of the LM.	IPv4 address	
3	LM(01) IPKTS PORT (0001 - 9999) :5588	In the TNET environment, the IP KTS protocol signaling UDP port is defined. At present this field is not used, do not change this port number.	0000-9999	5588
4	LM (01) TOTAL PORT (000 – 999) : 000	This field defines the total number of ports the LM will request be allocated by the CM for devices attached to the LM. This value must be equal to or more than the available port count in the LM.	000-999	000
5	LM (01) MULTICAST IP 239.20.19.1	This field defines the multicast IP address that could be used in TNET branch site.	IPv4 address	

Table 3.3.11.3-1 TNET LM ATTRIBUTES (PGM 332)

3.3.11.4 FoPSTN Attributes – PGM 333

The Fail-over function allows the systems in a Centralized Control network (TNET) environment to complete calls from system to system over a PSTN (analog or digital) line should the WAN connection to the CM fail. A CO Gateway/Board must be registered to the LM for local control and access CO services. Users may call others in the normal manner and the call is routed over CO facilities to the remote CM. When calls are directed to a DID line at the receiving system, the system will select a line from the assigned CO Group and dial the Tel Number with the station number dialed as the trailing digits.

PROCEDURE:	
FoPSTN ATTRIBUTES PRESS FLEX KEY (1–3)	1. Press the [PGM] button and dial 333.
	Press the Flex button 1~3 for the desired setting, refer to Table 3.3.11.4-1.
	For Flex button 1 enable or disable FO. For Flex button 2, press the [Save] button to reset the FO table. For Flex button 3, dial the table bin number to input data.
	For Flex button 3, use the dial-pad to enter the required data, refer to Table 3.3.11.4-1.
	Press the [Save] button to store the new data.

Table 3.3.11.4-1 FAIL-OVER ATTRIBUTES (PGM 333)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ENABLE FoPSTN (1:ON/0:OFF) : ON	This field is used to enable or disable Fail-over operation from the CM or LM.	0: OFF 1: ON	OFF

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
2	INIT FoPSTN TABLE PRESS [Save] KEY	This field is used to initialize the FO table.		
3	FoPSTN ATTRIBUTES ENTER BIN NO(000-199)			
3-1	FoPSTN 001 NUM PLAN xxxxxxxx	Station numbers associated with the remote system. A range can be indicated by using "*" to indicate the range.	Max 8 digits	
3-2	FoPSTN 001 CO GROUP GRP NO (00-21) : 01	This field defines the CO Group of the local system that will be used to place calls to the stations entered in the FO Numbering Plan, should WAN failure occur.	eMG80:1~20 eMG800:1~200	
3-3	FoPSTN 001 TEL NUMBER xxxxxxxxxxxxxxxxxxxx	This field defines the telephone number the system should dial to place a call to the stations entered in the FO Numbering Plan, should Wan failure occur. An "*" may be entered as a wild-card to indicate insertion of the dialed station number.		

Table 3.3.11.4-1 FAIL-OVER ATTRIBUTES (PGM 333)

3.3.11.5 TNET LM External Contact Attributes – PGM 334

Each LM incorporates relay contacts, which can be employed as a Door Lock Release. The contact activates a 3rd party Door Lock Release mechanism activated by dialing the Door Unlock code at a local station. Note assigning other functions to the contact may cause unexpected operation.

PROCEDURE:		
TNET LM EXT CONTACT ENTER BIN NO (01-15)	 Press the [PGM] button and dial 334. The range is : eMG80 : 1-15 / eMG800: 1-32 	
LM(01) EXT CONTACT PRESS FLEX_KEY (1-4)	Select LM number	
	Select Flex button 1~4 for the desired External Control contact.	
	Use the dial-pad to enter desired data.	
	1. LBC + station number, (ex. 150)	
	2. Door Lock Release	
	3. External Page 1 access	
	4. External Page 2 access	
	Press the [Save] button to store the External Contact data entry.	

3.3.11.6 TNET LM Music Attributes – PGM 335

The CM does not provide BGM/MOH to an LM. The LM employs local BGM and MOH facilities, which reduces traffic load on the WAN and IP channel processors. The LM uses IP Multicast for local BGM and MOH transport.

PROCEDURE:		
TNET LM MUSIC ATTR ENTER BIN NO (01-15)	1. Press the [PGM] button and dial 335	
MUSIC ASSIGN PRESS FLEX_KEY (1-3)	-3) Select LM number	
Refer to Table 3.3.11.6-1 DISPLAY	Select the desired Flex button; refer to Table 3.3.11.6-1.	
	Use the dial-pad to select the desired Music Source, refer to Table 3.3.11.6-1.	
	To save the Music Source, press the [Save] button.	

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	BGM TYPE (0-3)	Assigns the source for	00: Ring-back	Music 1
	MUSIC 1 (1)	BGM.	01: Int music	
			02: Ext music	
			03: VSF MOH	
			04: SLTMOH1	
			05: SLTMOH2	
			06: SLTMOH3	
			07: SLTMOH4	
			08: SLTMOH5	
			09: VSFMOH2	
			10: VSFMOH3	
2		Assign the source for	00: Ring-back	Music 1
	MOH TYPE (0-3) MUSIC 1 (1)	MOH.	01: Int music	
			02: Ext music	
			03: VSF MOH	
			04: SLTMOH1	
			05: SLTMOH2	
			06: SLTMOH3	
			07: SLTMOH4	
			08: SLTMOH5	
			09: VSFMOH2	
			10: VSFMOH3	
3	INT/EXT1 MUSIC	Assigns the input for	0: Internal	Internal
	(0:INT/1:EXT1): INT	source 1 (Internal or	1: Ext. Music 1	
		External)		

Table 3.3.11.6-1 MUSIC SOURCES FOR MOH & BGM (PGM 335)

3.3.11.7 TNET LM Alarm Attributes – PGM 336

The LM incorporates circuitry to monitor an external contact. This contact is most often employed as an Alarm indicator or Doorbell. The Alarm attributes define the operation of the monitoring circuitry. For the Alarm, the signal to the LM stations can be repeating or a single burst, the former is often desired. For the Doorbell, a single tone is sent each time the contact activates.

PROCEDURE:	
TNET LM ALARM ATTR ENTER BIN NO (01-15)	1. Press the [PGM] button and dial 336.
LM(01) ALARM ATTR PRESS FLEX KEY (1-4)	Select LM number
	Press the desired Flex button; refer to Table 3.3.11.7-1.
	Use the dial-pad to enter desired data for the attribute, refer to Table 3.3.11.7-1.
	Press the [Save] button to store the data entry.

Table 3.3.11.7-1 ALARM ATTRIBUTES (PGM 336)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ALARM ENABLE (1:ON/0:OFF) : OFF	This parameter enables the external contact monitoring circuitry.	0: OFF 1: ON	OFF
2	ALARM CONTACT TYPE (1:CLOSE/0:OPEN) : CLOSE	This parameter establishes the contact state that will activate the Alarm, close or open.	0: Open 1: Close	CLOSE
3	ALARM/DOORBELL MODE (1:ALARM/0:BELL): ALARM	The contact can be treated to function as a doorbell instead of an alarm.	0: Bell 1: Alarm	ALARM
4	ALARM SIGNAL MODE (1:RPT/0:ONCE) : RPT	The assigned stations will receive a Repeating signal or single burst (ONCE) of alarm tone.	0: Once 1: Repeat	RPT

3.3.12 Zone Data - PGM 436 - 441, 444

Zone data is a tool employed to easily manage the characteristics of groups of devices under the control of an MPB. Often, devices are installed in groups with common characteristics. Such devices can be grouped to a Zone to define common characteristics including Country Code, DSCP, RTP packet handling, etc. Common attributes are defined at the device, Zone and Interzone level. Device settings have priority over Zone settings, while Zone settings have priority over system settings.

Generally, transport of RTP packets should be a peer-to-peer communication over either a LAN or VPN. If iPECS devices are separated by a NAPT server or direct peer-to-peer communications is not available, packet relay must be employed to assure communication. In packet relay, RTP packets are received by a local VoIP channel (MPB or VOIB), which is under control of the MPB, and the IP address is translated from a public to the device's private address. The VoIP channels implement a secure channel using IPSec protocol. Devices can be assigned as part of an "RTP Relay group" to use the same VoIP channels to implement relay of RTP packets. Packet relay groups also provide for conversion of multi-cast packets from the MPB to uni-cast and back again at the group level to multi-cast. Note packet relay requires an MPB or VoIP channel be available locally for each simultaneous call that requires packet relay. Programs 436 to 441 define device zone assignments and zone configurations. These programs are available only in Web admin. Holiday and Vacation assignments for each zone are defined in Program 444.

3.3.12.1 Zone Holiday Assignment – PGM 444

Holidays and vacation day intervals for each zone can be established to define a specified Service mode (Day, Night, and Timed) Up to 40 holidays and 5 vacation intervals can be defined.

PROCEDURE:	
ZONE HOLIDAY ASSIGNMENT ENTER BIN (01-32)	1. Press the [PGM] button and dial 444 and enter the bin number (Ex.01).
ZONE(01) HOLIDAY ATTR PRESS FLEX KEY (1-3)	Use the dial-pad to enter the bin (Zone) number (01~32).
	Press the Flex button, $1 \sim 3$, for the desired setting, refer to Table 3.3.12.1-1.
	Use the dial pad to enter the required data, refer to Table 3.3.12.1-1.
	Press the [Save] button to save any changes.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	ZONE(01) RING MODE(0-3) TIMED-R	Enter the desired Service mode for the Holiday or Vacation.	0 -3 0: DAY 1: NIGHT 2: TIMED 3: N/A	TIMED
2	ZONE(01) VACATION ENTER BIN NO(1-5)	Assign a date range for the vacation entering the start and end dates as yymmdd - yymmdd.	12 digits	None
3	ZONE(01) HOLIDAY ENTER BIN NO(01-40)	Assign a date for the holiday for the Zone as MMDD.		None

Table 3.3.12.1-1 ZONE HOLIDAY ASSIGNMENT (PGM 444)

3.3.13 GREEN MODE

The system can disable the power of a Digital Phone or SLT (Single Line Telephone) installed in the system at night or during holiday mode. The power On/Off can be controlled by Web Admin manually or automatically according to the assigned power On/Off time.

3.3.13.1 Green mode activation – PGM 500

It is applied for SLIB, DSIB and HYIB. Regarding the exact board related to terminal, refer to iPECS eMG Hardware Description and Installation Manual.

PROCEDURE:	
GREEN MODE ACTIVATION PRESS FLEX KEY (1-4)	1. Press the [PGM] button and dial 500.
	Press the Flex button, $1 \sim 4$, for the desired setting, refer to Table 3.3.13.1-1.
	Use the dial pad to enter the required data, refer to Table 3.3.13.1-1.
	Press the [Save] button to save any changes.

Table 3.3.13.1-1 GREEN MODE ACTIVATION (PGM 500)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	POWER SAVE USAGE (1:EN/0:DIS) : DISABLE	Enable or Disable power usage.	0: Disable 1: Enable	DISABLE
2	POWER ON/OFF (1:ON/0:OFF) : ON	Power ON/OFF manually all of stations in Power Save used board.	0: OFF 1: ON	ON
3	POWER SAVE MODE PRESS SLOT BTN (F1-F6)	Enables or Disables Power Save Usage Mode of each board.	Flex button1-6	
4	POWER CURRENT STATE CHECK SLOT BTN (F1-F6)	Displays the current status of board power ON/OFF.	Flex button1-6	

3.3.13.2 Green mode time setting – PGM 501

It is applied for SLIB, DSIB and HYIB. Regarding the exact board related to terminal, refer to iPECS eMG Hardware Description and Installation Manual.

PROCEDURE:	
GREEN MODE TIME ENTER WEEK DAY NO (1-7)	 Press the [PGM] button and dial 501 and enter the day from 1 to 7 by dial pad (Ex.1).
(MON) GREEN MODE TIME F1:ON TIME F2:OFF TIME	Press the desired Flex button 1 or 2.
	Press the Flex button, $1 \sim 2$, for the desired setting, refer to Table 3.3.13.2-1.
	Use the dial pad to enter the required data, refer to Table 3.3.13.2-1.
	Press the [Save] button to save any changes.

Table 3.3.13.2-1 GREEN MODE TIME (PGM 501)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	POWER ON TIME (HH:MM) NOT ASSIGNED	Enable power on time		Not assigned
2	POWER OFFIME (HH:MM) NOT ASSIGNED	Enable power off time		Not assigned

3.3.14 INITIALIZATION — PGM 450

The system has been pre-programmed with certain features, which are based on the default database. The defaults are loaded into memory when the system is initialized. The system should always be initialized when installed or the database is suspected of being corrupt. The system can be initialized manually during installation, refer to the *iPECS eMG Hardware Description & Installation Manual*.

This program allows all or any of several distinct portions or the database to be initialized, returned to default.

PROCEDURE:	
INITIALIZATION PRESS FLEX KEY (01-17)	1. Press the [PGM] button and dial 450.
	Select a Flex button to initialize the desired data, refer to Table 3.3.14-1.
	Press the [Save] button, the selected data is initialized and confirmation tone is received.

Table 3.3.14-1 INITIALIZATION DATA (PGM 450)

BTN	DISPLAY	REMARK
1	INITIALIZATION FLEX NUM PLAN	It will initialize numbering plan.
2	INIT STATION DATA STATION DATA(ENT STA RNG)	It will initialize station attributes for selected stations.
3	INIT COL DATA COL DATA(ENT COL RNG)	It will initialize CO line attributes for selected CO lines.
4	INIT COL DATA SYSTEM DATA	It will initialize system attributes.
5	INITIALIZATION STATION GROUP	It will initialize hunt attributes.
6	INITIALIZATION ISDN TABLES	It will initialize ISDN related attributes. (MSN/Flexible DID, COLP, DID conversion)
7	INITIALIZATION SYSTEM TIMER	It will initialize system timer attributes.
8	INITIALIZATION TOLL TABLES	It will initialize toll tables.

BTN	DISPLAY	REMARK
9	INITIALIZATION LCR DATA	It will initialize LCR attributes.
10	INITIALIZATION OTHER TABLES	It will initialize miscellaneous tables. (Exec/Sec, CCR, Prefix, Authorization code, Auto ring mode, VM prefix, System SPD Zone, Multicast table, Mobile Extension)
11	INITIALIZATION FLEX BUTTON	It will initialize flexible button and DSS/LSS.
12	INITIALIZATION NET DATA	It will initialize networking attributes.
13	INITIALIZATION ALL DATA	It will initialize all programs.
14	SYSTEM RESTART RESTART NOW	It will restart the MPB.
15	UNUSED	
16	INITIALIZATION PERSONAL GROUP	It will initialize Personal Group.
17	INITIALIZATION Default password *	It will initialize(remove) password if it is *
18	INITIALIZATION HOTEL DATA	

Table 3.3.14-1 INITIALIZATION DATA (PGM 450)

3.3.15 PRINT-OUT DATABASE — PGM 451

The system can output all or portions of the system database in order to provide a 'hard-copy'. The data is output over the appropriate Serial port (Serial 1 or Serial 2).

PROCEDURE:	
DATABASE PRINT OUT PRESS FLEX KEY (01-22)	1. Press the [PGM] button and dial 451.
	Select Flex button 1~22 to output the desired data, refer to Table 3.3.15-1.
	For Station, Station Flex buttons, and CO/IP line data, use the dial pad to enter the desired range for stations or CO/IP lines, or for all skip this step.
	Press the [Save] button, after output, confirmation tone is heard.

BTN	DISPLAY	REMARK
1	DATABASE PRINT OUT FLEX NUM PLAN	
2	DATABASE PRINT OUT IP SETTING PLAN	
3	DATABASE PRINT OUT STA DATA(ENT STA RNG)	A station range must be entered to output the Station data.
4	DATABASE PRINT OUT COL DATA(ENT COL RNG)	A CO/IP line range (01~21) must be entered to output CO/IP data.
5	DATABASE PRINT OUT SYSTEM DATA	
6	DATABASE PRINT OUT STATION GROUP	
7	DATABASE PRINT OUT ISDN TABLES	
8	DATABASE PRINT OUT SYSTEM TIMER	
9	DATABASE PRINT OUT TOLL TABLES	

Table 3.3.15-1 DATABASE PRINT OUT (PGM 451)

BTN	DISPLAY	REMARK
10	DATABASE PRINT OUT LCR DATA	
11	DATABASE PRINT OUT OTHER TABLES	
12	DATABASE PRINT OUT NATION SPECIFIC	
13	DATABASE PRINT OUT FLX BTN(ENT STA RNG)	A station range must be entered to output the Station Flex button data. Data may be output in 20 or 10 character format, see Flex button 17 below.
14	DATABASE PRINT OUT ALL DATA	
15	DATABASE PRINT OUT LCD PRINT(0-2):NORMAL 24	
16	DATABASE PRINT OUT TO QUIT PRESS [Save]	
17	STRING LENGTH (1:20/0:10): 20(CHAR)	The Station Flex button print out can be provide in a 20 or 10 character format, default is 20 characters.
18	DATABASE PRINT OUT BOARD ATTRIBUTES	
19	DATABASE PRINT OUT NETWORKING TABLE	
20	DATABASE PRINT OUT HOTEL DATA	
21	FLEX BTN LCD PRINT STR LEN(0-1): 20	Print out strings those are used in flexible button to display the content.
22	WORKING LCD PRINT	Print out strings those are used to activate some features.

Table 3.3.15-1 DATABASE PRINT OUT (PGM 451)

3.3.16 VIRTUAL TRACE DIP-SWITCH — PGM 452

The Virtual Trace Dip-switch is used to enable and disable traces for various functions as defined in Table 3.3.16-1.

PROCEDURE:	
VIRTUAL TRACE DIP SW PRESS FLEX KEY (01-22)	1. Press the [PGM] button and dial 452.
	To enable trace, press the desired trace button 1-9. The Flex button LEDs indicate trace setting, On/Off, press the desired Flex button to toggle Trace Enable,
	LED on: trace enable LED off: trace disabled.
	To enable selected trace settings, press the [Save] button.

Table 3.3.16-1 VIRTUAL TRACE DIP-SWITCH (PGM 452)

	Table 3.3.10-1 VIRTUAL TRACE DIF-SWITCH (FGM 452)						
BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT			
1	VIRTUAL TRACE DIP SW CALL TRACE : (OFF)	'Call Trace' is enabled for output.	0: OFF 1: ON	OFF			
2	VIRTUAL TRACE DIP SW VOIP TRACE : (OFF)	VoIP Trace is enabled for output.	0: OFF 1: ON	OFF			
3	VIRTUAL TRACE DIP SW HTTP TRACE : (OFF)	HTTP Trace is enabled for output.	0: OFF 1: ON	OFF			
4	VIRTUAL TRACE DIP SW MULTICAST TRACE : (OFF)	Multicast Data (normally registration data between MPB and local mode device) Trace is enabled for output.	0: OFF 1: ON	OFF			
5	VIRTUAL TRACE DIP SW CTI TRACE : (OFF)	CTI Device Trace is enabled for output.	0: OFF 1: ON	OFF			
6	VIRTUAL TRACE DIP SW RAW DATA TRACE : (OFF)	Detailed Data Trace is enabled.	0: OFF 1: ON	OFF			
7	VIRTUAL TRACE DIP SW MPMP TRACE: (OFF)	MPB to MPB Data Trace is enabled for output.	0: OFF 1: ON	OFF			
8	VIRTUAL TRACE DIP SW CPU RE TRACE: (OFF)	CPU Redundancy Data Trace is enabled for output. It is not used.	0: OFF 1: ON	OFF			
9	VIRTUAL TRACE DIP SW MISU/VMIU TRACE:(OFF)	MISU/VMIU Trace is enabled for output.	0: OFF 1: ON	OFF			
10	VIRTUAL TRACE DIP SW DSP TRACE (OFF)	DSP Trace is enabled for output.	0: OFF 1: ON	OFF			

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
11	VIRTUAL TRACE DIP SW SIP TRACE (OFF)	SIP Trace is enabled for output.	0: OFF 1: ON	OFF
12	VIRTUAL TRACE DIP SW ISDMR TRACE (OFF)	ISMDR Trace is enabled for output.	0: OFF 1: ON	OFF
13	VIRTUAL TRACE DIP SW SIP MSG TRACE (OFF)	SIP MSG Trace is enabled for output.	0: OFF 1: ON	OFF
14	VIRTUAL TRACE DIP SW FULL SIP TRACE (OFF)	FULL SIP Trace is enabled for output.	0: OFF 1: ON	OFF
15	VIRTUAL TRACE DIP SW HOTEL TRACE (OFF)	Hotel trace is enabled for output.	0: OFF 1: ON	OFF
16	VIRTUAL TRACE DIP SW SIP EXT TRACE (OFF)	SIP EXT Trace is enabled for output.	0: OFF 1: ON	OFF
17	VIRTUAL TRACE DIP SW DEBUG TRACE (OFF)	DEBUG Trace is enabled for output.	0: OFF 1: ON	OFF
18	VIRTUAL TRACE DIP SW IPATD TRACE (OFF)	IPATD Trace is enabled for output.	0: OFF 1: ON	OFF
19	VIRTUAL TRACE DIP SW ISDN TRACE (OFF)	ISDN Trace is enabled for output.	0: OFF 1: ON	OFF
20	VIRTUAL TRACE DIP SW SPI TRACE (OFF)	SPI Trace is enabled for output.	0: OFF 1: ON	OFF
21	VIRTUAL TRACE DIP SW DECT TRACE (OFF)	DECT Trace is enabled for output.	0: OFF 1: ON	OFF
22	VIRTUAL TRACE DIP SW HTTPXML T RACE (OFF)	HTTPXML Trace is enabled for output.	0: OFF 1: ON	OFF

Table 3.3.16-1 VIRTUAL TRACE DIP-SWITCH (PGM 452)

3.3.17 VIRTUAL DIP-SWITCH — PGM 453

The Virtual Dip Switch is employed to change from in-band to SMDI for External Voice Mail communications and manually poll each IP KTS device.

PROCEDURE:	
VIRTUAL DIP SWITCH PRESS FLEX KEY (1-6)	1. Press the [PGM] button and dial 453.
	To enable trace, press desired Flex button 1~6. The Flex button LEDs indicates Dip switch setting, On/Off. Press the desired Flex button to toggle setting,
	LED On: enabled
	LED Off: disabled To enable call trace, press the [Save] button.

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	VIRTUAL DIP SWITCH DEVICE POLLING: (ON)	'Device polling'. If enabled (On), the system will check each registered device, Gateway/Board and iPECS Phone to determine if the device is alive or not.	0: OFF 1: ON	ON
2	VIRTUAL DIP SWITCH SMDI SETTING: (OFF)	SMDI setting is enabled for output.	0: OFF 1: ON	OFF
3	VIRTUAL DIP SWITCH MULTICAST LED: (OFF)	If this value is set, the LED commands from MPB will be sent to Gateway/boards and terminals in the multi-cast mode.	0: OFF 1: ON	OFF
4	VIRTUAL DIP SWITCH AUTO NEGO: (MANUAL)	This field enables negotiation of speed between the LAN switch port and the system.	0: AUTO 1: MANUAL	MANUAL
5	VIRTUAL DIP SWITCH FULL-HALF: (FULL)	The duplex mode of LAN connections can be set according to this field.	0: FULL 1: HALF	FULL
6	VIRTUAL DIP SWITCH 10-100 TX: (100)	The speed of the Ethernet interface is established based on this field, 10 Base T or 10/ 100 Base T.	0: 100 1: 10	100

Table 3.3.17-1 VIRTUAL DIP-SWITCH (PGM 453) Image: Comparison of the second second

3.3.18 DECT ATTRIBUTES — PGM 491

DECT Attributes define functions associated with the DECT equipment and operation. Generally, the entry will turn the feature ON (enable) or OFF (disable).

PROCEDURE:	
DECT ATTRIBUTES PRESS FLEX KEY (1-4)	1. Press the [PGM] button and dial 491.
	Press the Flex button for the desired Attribute; refer to Table 3.3.18-1.
	Use the dial pad to enter the required data.
	Press the [Save] button to store the data entry.

Table 3.3.18-1 DECT ATTRIBUTES (PGM 491)

BTN	ATTRIBUTE/DISPLAY	DESCRIPTION	RANGE	DEFAULT
1	AUTO CALL RLS (1:ON/0:OFF) : OFF	If enabled, when the other party of an active internal call disconnects, GDC-450H/480H/500H returns to idle.	0: OFF 1: ON	OFF
2	BASE FAULT ALARM (1:EN/0:DIS) : DISABLE	If enabled, DECT Base station (GDC-600BE) alarms are sent to the Attendant.	0: Disable 1: Enable	Disable
3	CHAIN FAULT ALARM (1:EN/0:DIS) : DISABLE	Not used.	0: Disable 1: Enable	Disable

4. WEB SERVICE

4.1 General

The iPECS system incorporates a Web Server, which is employed by the system's Web Service. Using a Web browser the system's Web Server can be accessed and the database managed in a user-friendly environment. In addition to modifying the system database, Web Admin provides for Maintenance such as system file upload, remote upgrade, database download and maintenance functions.

We provide On-line web user guide to a user. You can get the information about the frequent use of features by clicking [User's guide] in the login page.

The default database includes assignment of a private IP address to the system. This address (10.10.10.2) may be used to access the system from the LAN. However, a routable IP address must be assigned for access from a remote location.

To access the iPECS Web Server requires:

- 1) Operating iPECS series system
- 2) IP address assigned in the system and is known
- 3) TCP port assigned for the KSU LAN port and is known
- 4) iPECS system connected to an accessible LAN
- 5) iPECS system password (Keyset Admin, Remote access, and CID) if any, is known

4.1.1 PC/Browser

- MS Explore 10.0, Chrome 24.0, Firefox 18.0 or higher version is recommended (HTML5 support required)
- Windows PC, at least 32MB RAM (64MB or more RAM is recommended)
- NIC (Network Interface Card)

4.1.2 Environment for LAN connection

- IEEE 802.3, 10/100 Base T
- Static/DHCP addressing
- Firewall, requires Network Administrator to allow access.
- Remote access requires a routable IP address for the iPECS system Web Server. This
 must be assigned to the system prior to access.

4.1.3 Web Browser setting

Web browsers may store (cache) a copy of the iPECS Web pages in a cache memory. The Web browser may use these copies to provide a "quick view". If the Web page has been altered by data entered in Station Admin or a file upgrade, the cached copy will be out-of-date and could cause unexpected system operation. To assure proper page views and data entry, the browser should be set to eliminate the use of the cached pages. For Explorer, in "Internet Options", enable refresh on "Every visit to the page", for other browser, the procedure may be different.

4.1.4 Password Encryption

When enabled in PGM 162, iPECS system implements decryption of the password employing RC-6 block encryption. iPECS system employs a Sun Java Virtual Machine applet to implement AES encryption. The PC entering the Password must have a JAVA Virtual Machine and the JRE (Java Runtime Environment) Explorer option enabled to properly handle encrypted passwords. The Sun JVM is downloaded from the Java home page (www.java.com). Once downloaded, execute the downloaded file. To enable the Explorer JRE option,

- 1. From the Explorer menu select Internet Options-Advanced.
- 2. From the Advanced Internet Options check the [Use JRE....] Option.

Internet Options	2 🔀
General Security Privacy Content Connections Programs	Advanced
Settings:	
Use Passive FTP (for firewall and DSL modem compatibility Use smooth scrolling HTTP 1.1 settings Use HTTP 1.1 Use HTTP 1.1 through proxy connections	y) 🔨
Use JRE 1.5.0_04 for <appleb (requires="" restart)<="" td=""><td></td></appleb>	
Middinedu Enable Automatic Image Resizing Enable Image Toolbar (requires restart) Play animations in web pages Play videos in web pages Play videos in web pages Show image download placeholders Show pictures Smart image dithering	
Bestore Del	
OK Cancel	Apply

 After restarting the computer, access iPECS system Web Manager, section 4.2.
 "Applet iPECSPwd started" will display in the bottom left corner to indicate password encryption is active.

4.2 iPECS system Web Access & Login

In the browser 'ADDRESS' field, enter the MPB or UCP IP address (default is 10.10.10.2) and TCP port. Select GO; the Web server returns iPECS system Web Services Login page, Figure 4.2.1-1. The Web services include the Admin and Maintenance functions and the Station Program User Portal. To access the Admin and Maintenance function, User ID and Password should be matched with the assignments in the User Management. The default Maintenance User ID is 'admin' and the password is '1234'. The system will return the Admin & Maintenance Main page, section 4.3.

To access the Station program, the user must enter their Station number and full Authorization code (station number and Auth code) in Tables Data – Station Authorization Code (PGM 227). The system will return the Station Program Main page as shown in section 4.6.

	iPECS
iPECS eMG80	
User ID Password Login User's Guide	
₽ NICSSON	
	iPECS
	iPECS
iPECS eMG800	iPECS
ipecs emg8000 User ID Password Login User's Guide	iPECS
User ID Password Login	;PECS



Figure 4.2-1 iPECS eMG80 & eMG800 & UCP600 Home page

For reference, we explain Admin and Maintenance based on UCP600. The home page is displayed according to eMG80, eMG800 & UCP type (UCP100, UCP600, UCP2400).

To access User portal, the user must enter **Station number and full Authorization code** (station number and Auth code) as defined in *Tables Data – Station Authorization Codes (PGM 227)*. The system will go to the user portal Main page as below. For detail information, refer to *"User Portal User Guide" provided*.

My Attribute My Profile Voice Mail Button Setting Directory Call Forward • ON • OFF Call Forward Condition • Select Condition • Destination Type Select Destination Type • Destination Number • ON • OFF Destination Number • ON • OFF Pre-Selected Message • ON • OFF Show Text Message to an internal caller Select a message • Voice message play to an outside caller OFF • Off-Duty Reason • • • • • • • • • • • • • • • • • • •	STA 1001						•••
Call Forward • ON • OFF Call Forward Condition Select Condition • Destination Type Select Destination Type • Destination Number • ON • OFF Other Destination Number • ON • OFF Off Duty Message to an internal caller • ON • OFF Station Group Number • ON • OFF Off-Duty Reason • • • • • • • • • • • • • • • • • • •	My Attributes	My Profile	Voice Mail	Button Setting	Directory		
Call Forward Condition Destination Type Destination Type Destination Number Mobile Extension ON * OFF Destination Number Pre-Selected Message Show Text Message to an internal caller Voice message play to an outside caller OFF • Agent Duty Off-Duty Reason Off-Duty Reason							Save
Destination Type Destination Number Mobile Extension Mobile Extension ON * OFF Destination Number Pre-Selected Message Show Text Message to an internal caller Voice message play to an outside caller OFF • Agent Duty Off-Duty Reason Off-Duty Reason	Call Forward					● ON ○ OFF	
Destination Number Mobile Extension Destination Number Pre-Selected Message Show Text Message to an internal caller Voice message play to an outside caller OFF Agent Duty ON * OFF Station Group Number Off-Duty Reason 0	Call Forward	d Condition				Select Condition •	
Mobile Extension Destination Number Pre-Selected Message Show Text Message to an internal caller Voice message play to an outside caller OFF • Agent Duty ON • OFF Station Group Number Off-Duty Reason 0	Destination	Туре				Select Destination Type 🔹	
Destination Number Pre-Selected Message Show Text Message to an internal caller Voice message play to an outside caller OFF • Agent Duty ON * OFF Station Group Number Off-Duty Reason Off-Duty Reason	Destination	Number					
Pre-Selected Message Show Text Message to an internal caller Voice message play to an outside caller OFF • Agent Duty ON • OFF Station Group Number Off-Duty Reason	Mobile Extens	ion				ON OFF	
Show Text Message to an internal caller Select a message Voice message play to an outside caller OFF Agent Duty ON OFF Station Group Number Off-Duty Reason Off-Duty Reason 0	Destination	Number					
Voice message play to an outside caller Agent Duty OFF Station Group Number Off-Duty Reason 0	Pre-Selected N	lessage					
Agent Duty ON OFF Station Group Number	Show Text N	lessage to an int	ernal caller			Select a message •	
Station Group Number Off-Duty Reason 0 •	Voice mess	age play to an ou	tside caller			OFF •	
Off-Duty Reason 0 •	Agent Duty					◎ ON [®] OFF	
	Station Grou	up Number					
	Off-Duty Re	ason				0 •	
							(\blacksquare)

Figure 4.2-2 iPECS User Portal main page

4.3 Web Admin & Maintenance Main Page Overview

In the Web Admin Login screen (see section 4.2), enter the User ID and Password then click the **[Login]** button to access the iPECS Admin & Maintenance Main Page as shown in Figure 4.3-1.

	IPECS UCP600	Administration Maintenance		Change Language Log Out
	PGM Base Function Base	Favorite PGM		×
	Q PGM Search			Edit
	System ID & Numbering Plans	System ID & Numbering Pla System ID & Numbering Pla		Common Attributes(111) Station Data
	Station Data			
	Board Based Data	Flexible Buttons(115/129) Common Attributes Station Data CO Line Data	(140) CO/IP Ring Assignment(144) CO Line Data	CID/CPN Attributes(151) CO Line Data
	CO Line Data			
	System Data	System Attributes(160~161) System Data System Data	162) Station Group Assignmen Station Group Data	Station Group Attributes(1 Station Group Data
	Station Group Data			
	ISDN Line Data	Station Authorization Cod System Authorization Tables Data Tables Data	Cod Flexible DID Conversion(2 Tables Data	
	SIP Data			
<	Tables Data			
	Networking Data			
	H.323 Routing Table			
	T-NET Data			
	Zone Data			
	Device Login			
	UCS Data			
	DECT Data			
	Hotel Data			
	Redundancy Data			
	Initialization			
	[Version] Appl(R2.1.11), Boot(1.0Da), Kernel(R1.1.7	H/W(1) Copyright© 2013 Ericsson-LG	Enterprise Co., Ltd.	

Figure 4.3-1 iPECS UCP Admin & Maintenance Main Page

The Admin & Maintenance Main Page has three sections,

Menu bar – Upper frame

Directory & Navigation section – Left frame

Favorite Programs and Entry section – Central frame

Items in the Menu bar are mouse-clickable for selections of:

Administration – accesses the system database.

Maintenance – SW upgrade, Database, Multi Language, SMDR, VSF, Voice Mail, Trace, etc.

Change Language – change the desired language.

Log out - log out the web server

What is the meaning about Buttons and Text on page?

- 1) Hide menu by clicking the left arrow in the middle of window on left side.
- 2) X button at the top of the page on the right side functions whether the current tab or all tabs are closed or not.
- 3) v button will display all PGM by click and check which PGM is using.
- 4) The Application, Boot, and Kernel version can find at the left side of bottom.
- 5) User can check the status indicator at the bottom on the right side of page by displaying the text such Disconnected or Read Only User.
 - Disconnected: discconected to Web Admin Server without working for a long time. User can connect to Web Admin Server by clicking Refresh button.
 - Read Only User: User who access to Web Admin Sever has no authority to set the function as the maintenance user and just is only for read.

_ſ	Notification	
em Ta	Notification Connection Lost. If you want to reconnect, Click button Refresh. Refresh Cancel	
	Copyright Ericsson-LG Enterprise Co., Ltd. 2013.	Disconnected

License State Display

If "Installation Period" or the color of SW Maint. is GREEN, system software can be upgraded. Major version upgrade is possible in "Installation" or "Maintenance" Period but Minor version upgrade is possible in "Warranty" Period. In other states, both upgrade and downgrade are not allowed.



- First LED : SW maintenance
- Second LED: Temporary License
- > Third LED: T-Net (eMG & UCP) / Redundancy (UCP only)

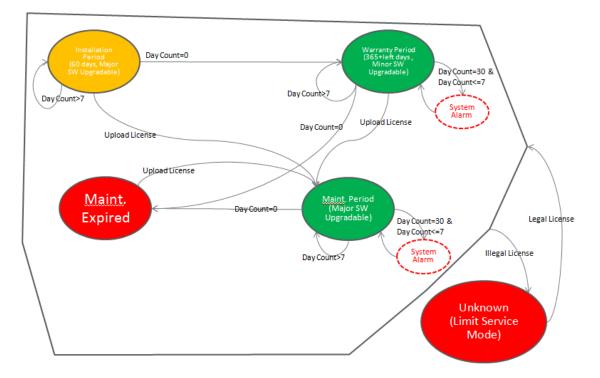
Note)

- To turn off the alarm, Administrator can set 'Alarm Enable' to OFF in System Data > Alarm Attributes (163) > Alarm enable: OFF. For more information, refer to Alarm Attributes.
- To turn off the alarm on Phone, press 'Alarm reset' PGM code *565 to stop. It's a onetime thing. Please check the exact alarm reset code in Flexible Numbering Plan (106~109) because the code is different according to the numbering plan.

SW Maintenance State

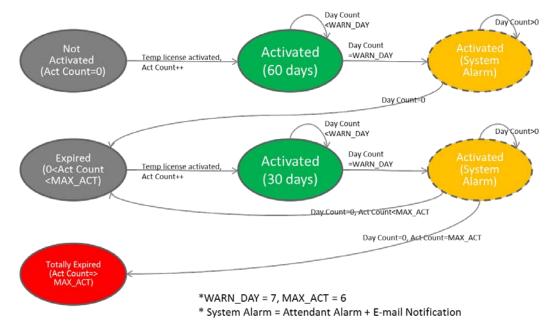
The following figure is SW Maintenance state for SMB. System Alarm (Attenant alarm & E-mail notification) occurs once 30 days before expiration and daily during 7 days before expiration.

If the system goes to the limited service mode, the station COS is changed to 7.



Temp License State

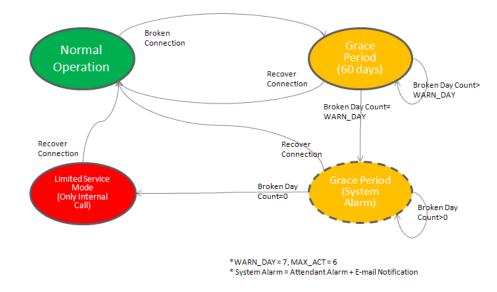
Temp License can be activated totally 6 times. It is valid for 60 days at first activation and is valid 30 days from second activation to the last. System Alarm occurs daily during 7 days before expiration.



T-Net or Redundancy State

T-Net LCM license is valid for 60 days if the connection is broken. And Redundancy for UCP system is valid for 60 days if System is slave, active state, and the connection is broken. But the limitation is not applied in Master system. System Alarm occurs daily whenever the broken day coutner is smaller than 7 and the alarm will be stopped if the connection is restored.

- Below cases are always "Normal".
- 1. TNLS license
- 2. Master system when redundancy



4.3.1 Favorite Program Groups

To ease access to frequently used program, the iPECS Admin Main Page displays a Favorite PGM list. The Favorite PGM list buttons, when selected, return the associated Web page. Up to 20 favorites are configured using the Edit button in the upper right of the page.

PGM Base Function Base	< Favorite PGM			×
Q PGM Search				Edit
System ID & Numbering Plans	System Overview System ID & Numberin	System IP Plan(102) System ID & Numberin	Device IP Plan(103) System ID & Numberin	Common Attributes(111) Station Data
Station Data Board Based Data	Flexible Buttons(115/ Station Data	Common Attributes(140) CO Line Data	CO/IP Ring Assignme CO Line Data	CID/CPN Attributes(151) CO Line Data
CO Line Data				
System Data	System Attributes(16 System Data	System Password(162) System Data	Station Group Assign Station Group Data	Station Group Attribut Station Group Data
Station Group Data				
ISDN Line Data	Station Authorization Tables Data	System Authorization Tables Data	Flexible DID Conversi Tables Data	
SIP Data				
Tables Data				
< Networking Data				
H.323 Routing Table				
T-NET Data				
Zone Data				

Figure 4.3.1-1 Favorite Program

To register a Favorite program, click Edit button. The following page will be displayed.

- Clear button: Clears the check box for all programs.
- Save button: Saves the Web page, PGMs with checked boxes are stored as Favorites, up to 20.
- Back button: Returns to the previous page.

Favorite PGM		
Favorites can be registered up to 2	20	Clear Save Back
System ID & Numbering Plans	 System ID(100) System Overview Device Port Num Change(101) System IP Plan(102) Device IP Plan(103) CO Device Sequence Number(104) Flexible Station Number(105) Flexible Numbering Plan(106~109) 8 Digit Table(238) 	
Station Data	 Station Type(110) Common Attributes(111) Terminal Attributes(112) CLI Attributes(113) Flexible Buttons(115/129) Station COS(116) CO/IP Group Access(117) Internal Page Zone(118) PTT Group Access(119) Preset Call Forward(120) Idle Line Selection(121) Station IP Attributes(122) Station IP Attributes(122) Station ICM Group(125) VM Attributes(127) Station Name Display Station Data Copy Station CTI IP Address 	
Board Based Data	 H.323 VoIP Attributes(130) T1/E1/PRI Attributes(131) Board Base Attributes(132) 	
	 CO Line Overview Common Attributes(140) Analog Attributes(141) VoIP Attributes(142) ISDN Attributes(143) 	

Figure 4.3.1-2 Favorite Program Groups for edit

4.3.2 Using Function Base

Function Base is designed to customize the feature or PGM by configuring the Function base so that customer can be easy to use the desired and frequent feature.

There are two buttons: Common Function List and User Function List. The feature or PGM can register up to 20 as Favorite function.

1) Common Function List

Generally, iPECS system supports the basic function list as default. The available function is 5 (DID Setting Scenario, Network Scenario, SIP Extension Registration, SIP Trunk Configuration, Station Group Scenario). The 5 functions can't be deleted or editable.

PGM Base Function Base	< Favorite Func			*
Q Function Search				Edit
Common Function List ~	DID Setting Scenario Common Function List	Networking Scenario Common Function List	SIP Extension Regi Common Function List	
DID Setting Scenario				
Networking Scenario	SIP Trunk Configur	Station Group Sce		
SIP Extension Registration	Common Function List	Common Function List		
SIP Trunk Configuration				
Station Group Scenario				
User Function List				

Figure 4.3.2-1 Common Function List

2) User Function List

To configure the user function list, click Maintenance button and then you can see the Function Program in the left frame and click the sub menu *'User Function Management'* as the following figure. On this web page, you can add or delete the function.

Q PGM Search O	< System Information	User Function Manage×	×
S/W Upgrade			Add Function
Database			Delete
Multi Language	Check All	Function Name	
SMDR			
File System			
MOH Management			
License Management			
DECT Statistics Feature			
VSF Prompt Message			
VSF System Greeting			
User Greeting			
Company Directory			
Voice Mail Management			
Function Program V			
User Function Management			



Adding Function

This step is divided into 5 steps and you can make the desired function each step. The following is the guide to make Name and add the function on each step:

- 1) To enter the function name, English, Numbering, Underscore (_) and Parentheses are available. Function name has to be filled out.
- 2) To enter the step name, English, Numbering, and Special letters except Double quotation marks are available.
- 3) The step name doesn't need to be filled out, but the function has to be configured each step.
- 4) To cancel or close this tab, click the close button (X) and pop up the blow;

Notification		
All Tabs will be c	losed. Are you OK?	
Close all	without current tab	Cancel

- 1. Click the Add Function button.
- 2. On the below window, click the desired PGM in the left frame. First fill out the function name and step name. To configure the step 1, click the Make table to check the desired function and then click **[Save]** button.
 - ✓ Check All: check all functions
 - ✓ Save: Save the checked functions
 - ✓ Initialize: Initialize the checked functions

< System Information User Function Manag × Add Function ×	
Check All Save - Function Name: Save Function	
	Step 5
Automatic Hold	
Individual CO Access	
CO/IP Line Queuing	
Ringing Line Preference	
Speed Dial Access	
Power-Failure	
Line Release Cost Display	
Active PTT Group Number	
Hot Desk Station	
SMDR Hidden Dialed Digits	
	Check All Save Initialize Make Table Keyset Admin Access CO PGM Automatic Hold Individual CO Access CO/IP Line Queuing Ringing Line Preference Speed Dial Access Atam / Door Bell Station Account Forced SMDR Account Code Loop LCR Account Door Open Fix Button PGM Prefer CO or Group Call Time Restriction PROCTOR MONITORING Power-Failure Line Release Cost Display Active PTT Group Number Hot Desk Station

3. The selected functions are displayed and click **[Save]** button after checking each functions. The rest steps are the same as the step 1.

PGM Search	• <	System Information Us	ser Fund	ction Manag	g ×	Add Function	×			
System ID & Numbering Plans		Check All Save	^	Function N	lame: S	tation 1	2 Save	Function		
station Data	~	Initialize								
Station Type(110)		Make Table Keyset Admin Access		Step Station 1		Step 2	Step	3	Step 4	Step 5
Common Attributes(111)		CO PGM								
Terminal Attributes(112)		Automatic Hold								
CLI Attributes(113)		Individual CO Access								Save
Flexible Buttons(115/129)		CO/IP Line Queuing	E	nter Statior	n Range				Load	
Station COS(116)		Ringing Line Preference								
		Speed Dial Access	S	tation Rang	ge					
CO/IP Group Access(117)		Alarm / Door Bell		Order Che	ck All	Attribute	Value	Range		
Internal Page Zone Overview		Station Account						Runge		
Internal Page Zone(118)		Forced SMDR Account Code		1		Individual CO Access	Disable 🔻			
PTT Group Access(119)		Loop LCR Account		2		CO/IP Line Queuing	Disable 🔻			
Preset Call Forward(120)		Door Open		3		Ringing Line Preference	Disable •			
		Flex Button PGM								
Idle Line Selection(121)		Prefer CO or Group		4		Alarm / Door Bell	Disable 🔻			
Station IP Attributes(122)		Emergency CO or Group		5		Loop LCR Account	OFF V			
Station Timers(123)		ICM Tenancy Group Number								
Linked Station(124)		Call Time Restriction								
		PROCTOR MONITORING								
Station ICM Group(125)		Power-Failure								

4. Finally, click **[Save]** Function to save and then click **[OK]** button.

	Notification	
	This function i closed.	is saved. This tab will be
		Ok
S/W Upgrade	< System Information	User Function Man X
Database		
Multi Language		
SMDR	Check All	Function Name
File System		System 1 Station 1
License Management	·	
DECT Statistics Feature		
Voice Mail Management		
Function Program V		
User Function Management		

5. To check the function, click Function Base button in the left frame and User Function List and you will see the following figure.

You can enable or disable the function by checking each function and then click the save after setting Value. Also move to each step by clicking **[Next]** button or **[Previous]** button.

PGM Base Function Base	Favorite Function Station 1 ×	×
Q Function Search	Step 1 (S Step 2 (Station 2 Attr) Step 3 (S Step 4 (S	Prev Next
Common Function List	Enter Station Range : Coad	Save
User Function List ~	Station Range 1000	
Station 1	Order La Check All Attribute La Value Range	
System 1	1 Line Release Cost Display OFF	
	2 Active PTT Group Number 0-9	

Deleting Function

To delete the user function, click Maintenance at the top of window and then click *the Function Program -> User Function Management*. Check the desired function to delete and click **[Delete]** button.

S/W Upgrade	< System Information	User Function Man ×
Database		
Multi Language		
SMDR	Check All	Function Name
		System 1
File System		Station 1
License Management		
DECT Statistics Feature		
Voice Mail Management		
Function Program V		
User Function Management		

4.3.3 iPECS Web Page Navigation

The Navigation frame appears in the left after login; refer to Figure 4.3-1. Selecting a Program group from either the Navigation pane or the Favorites list will display the selected Web entry page.

Each of the system's data entry Web pages includes a frame for data display and modification. To modify data, click in the data field, either a drop-down menu will appear for entry selection or a cursor will appear in the field and the user may type in the data required. Once all new data for a Web page has been entered, the **[Save]** button must be clicked to send the new page to the system and save the modified data.

In some cases, where mentioned, it may be necessary to reset the system. The system can be reset manually as described in the *iPECS Hardware Description and Installation Manual* by selecting the Reset System button on the Initialization Web page or using the reset button.

4.3.4 General Web Page Features

4.3.4.1 Web Page Range Entries

On many of the Web pages for Station, CO Line and Tables Data a range of station, lines or table indices must be entered to display the appropriate data entry page. In this case, a range of devices or indices can be selected by entering the lowest and highest device number separated by a dash. In addition, a comma can be used to enter non-sequential numbers. Note no space characters should be entered before or after the dash or comma. Note the data entry page displays the data for the lowest device or table index entered.

4.3.4.2 Table Check Boxes

Data entry pages that require a range entry, only display the data for the lowest device number or Table index entered in the range. To assure that only the appropriate data is changed for all entries in the range, a check box is located in front of each attribute. When the page is saved, only data for attributes with the box checked are saved for the range while data for unchecked attributes are not modified.

4.3.4.3 Sorting Displayed Data

Charts in the data pages typically allow the data to be sorted based on a given column in either ascending or descending order. In the column header, the sorting symbol displays to indicate the sorting function is available for the column.

4.3.5 Install wizard

After the system is initialized, the first time Web Admin is accessed, the Install Wizard is displayed. The Wizard presents 9 pages in sequence with parameters that should be verified or commonly need modification prior to operation of the system including:

- 1) System Upgrade
- 2) Nation Code
- 3) System Time & Date
- 4) Station Number
- 5) Flexible Numbering Plan
- 6) CO Ring Assignment
- 7) License Upload
- 8) Maintenance ID & Password
- 9) IP Information

4.3.5.1 System Upgrade

Click the Select files button and then open the pop-up folder. Select the desired file to upload to the system's memory and click the **[Start]** button. The file is sent to the system's memory, saved and automatically loaded upon a system reset or restart.

iPECS Install Wizard							Change	e Language Exi	t
Step 1 (Syste	Step 2 (Set Nat	Step 3 (Set Sy	Step 4 (Set Sta	Step 5 (Set Fle	Step 6 (Set CO	Step 7 (License	Step 8 (Set Mai	Step 9 (Set IP I	
Select Upload File a	nd Wait for Uploading	to end!!						Next	t
+ Select File		23.55 Mbit/s (00:00:00 100.00 % 2	0.17 MB / 20.17 MB					
S-UCP-RIs1511-1.1.	3-Ker.rom 20.17 MB		• Sta	art 🖉 Cancel					

Figure 4.3.5.1-1 System upgrade

4.3.5.2 Nation Code

During initialization, the system employs the Nation Code to establish the default gains and tones for the various interfaces (analog CO Lines, ISDN lines, etc.), as well as the numbering plans for the specific country. The gains, in particular must be set to comply with the local regulatory requirements. Normally, the Nation Code will be set at the factory, however, assure the Nation code matches the system location.

Changing Nation Code

- 1) Dip Switch pole 4 of UCP100 (or UCP600, UCP2400) moves to ON. Dip Switch pole 2 of KSU (eMG) moves to ON.
- 2) Change Nation Code by clicking in the combo box.
- 3) Click **[Save]** button and then the system start resetting to apply.

In addition, all other data will be initialized, so the Nation Code should be properly set prior to other programming. You can change the numbering plan for your situation.

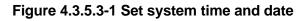
Step 1 (Syste	Step 2 (Set Na	Step 3 (Set Sy	Step 4 (Set St	Step 5 (Set Fle	Step 6 (Set CO	Step 7 (Licens	Step 8 (Set Ma	Step 9 (Set IP .
								Prev Ne
								Sav
								04
ou can't change Nation								
ou can't change Nation you want to change Na			N status.					
			N status.					
				nge				
you want to change Na		e Dip Switch 4 as O Value		nge				
you want to change Na Attribute	ation Code, then make	e Dip Switch 4 as O Value						
you want to change Na Attribute Nation Code	ation Code, then make	e Dip Switch 4 as O Value	Rai					

Figure 4.3.5.2-1 Set Nation Code Wizard

4.3.5.3 Set System Time and Date

You can set System time and date in this page.

Step 1 (Syste	em U Step 2 (Set	Natio Step 3	(Set Syst	Step 4 (Set Statio	Step 5 (Set Flexi	Step 6 (Set CO R	Step 7 (License U	Step 8 (Set Maint	Step 9 (Set IP Inf
									Prev Ne
Order	Attribute		Value		Range				
1	Time	Hour	10	00	-23				
	Time	Minute	59	00	-59				
		Month	10	01	-12				
2	Date	Day	05	01	-31				
		Year	15	00	-99				



4.3.5.4 Set Station Number

You want to change the current station number to New station number. In this page, you can change the station number.

	EC Wizard								Change	Language
Ste	ep 1 (Sy	st Step 2 (\$	Set N Ste	p 3 (Set S	Step 4 (Set .	Step 5 (Set F	Step 6 (Set C	Step 7 (Licen	Step 8 (Set	Step 9
ter	Station	Index Range (1 -	2400) : Default	: 1-100			2 Load			Prev
atio	on Index	Range 1-50								
			Multiple Statio	on Number to	change					
\circ	Enter	ndex Range :			Start Station N	lumber :				
	Enter	Station Range :			Start Station N	lumber :				
-			R	ange Save						
				J						
	Index	Station Number	Туре	IP Address	MAC Address	New Station Number				
	1	1000	LIP-8012E	10.10.10.10	00405a2e5176	1000				
)	2	1001	SLTM8 GW #1	10.10.10.11	b40edcb0a3ca	1001				
	3	1002	SLTM8 GW #2	10.10.10.11	b40edcb0a3ca	1002				
)	4	1003	SLTM8 GW #3	10.10.10.11	b40edcb0a3ca	1003				
)	5	1004	SLTM8 GW #4	10.10.10.11	b40edcb0a3ca	1004				
	6	1005	SLTM8 GW #5	10.10.10.11	b40edcb0a3ca	1005				
	7	1006	SLTM8 GW #6	10.10.10.11	b40edcb0a3ca	1006				
	8	1007	SLTM8 GW #7	10.10.10.11	b40edcb0a3ca	1007				
	9	1008	SLTM8 GW #8	10.10.10.11	b40edcb0a3ca	1008				
ו	10	1009	DTIM8 GW #1	10.10.10.12	b061c702d7ec	1009				
)	11	1010	DTIM8 GW #2	10.10.10.12	b061c702d7ec	1010				
	12	1011	DTIM8 GW #3	10.10.10.12	b061c702d7ec	1011				
)	13	1012	DTIM8 GW #4	10.10.10.12	b061c702d7ec	1012				
0	14	1013	DTIM8 GW #5	10.10.10.12	b061c702d7ec	1013				
	15	1014	DTIM8 GW #6	10.10.10.12	b061c702d7ec	1014				
	16	1015	DTIM8 GW #7	10.10.10.12	b061c702d7ec	1015				
	17	1016	DTIM8 GW #8	10.10.10.12	b061c702d7ec	1016				
	18	1017				1017				
	19	1018				1018				
	20	1019				1019				
	21	1020				1020				

4.3.5.5 Set Flexible Numbering Plan

The Flexible Numbering Plan defines the various digit strings (codes) users may dial to access system resources (outside lines, page zones, etc.) and features. In the wizard, codes for features that commonly may require modification are displayed.

Step 1 (Syste Step 2 (Set Na	Step 3 (Set Sy	Step 4 (Set St	Step 5 (Set Fl	Step 6 (Set CO	Step 7 (Licens	Step 8 (Set Ma	Step 9 (Set IP
								Prev Ne Sav
<mark>Order</mark> <u>↓</u> a	Attribute <u>↓</u> ª		Value					
1	Access CO In First CO Group	9						
2	Attendant Call	0						
3	Group Call Pick-Up	*566						
4	Station Group Pilot Number	*401	- *500					

Figure 4.3.5.5-1 Set Flexible Numbering plan

4.3.5.6 Set CO Ring Assignment

CO Ring Assignment establishes how the system will route incoming calls. The wizard assignments cover all CO/IP Lines in the system and the Ring assignments for Day, Night and Timed Ring modes can be established.

Step 1 (Syste	m U St	ep 2 (Set Natio	Step 3 (Set Syste	Step 4 (Set Sta	atio Step	5 (Set Flexi	Step 6 (Set CO R	Step 7 (License U	Step 8 (Set Maint	Step 9 (Set IP Inf.
	1									Prev Ne Sa
Check All	/	Attribute	Value		Range	Station Delay V	alue [Station:Delay]			
	Day	Station Range	Range :	0~9		[1000:0]				
		Station Group								
		© ∨SF	Announcement : Auto Drop :	0 - 2	00 (0 : Unused)				
		AA Ring Time		0~30)					
		Net Station								
		Station Range	Range :	0~9		[1000:0]				
		Station Group								
	Night	© ∨SF	Announcement : Auto Drop :	0 - 2	00 (0 : Unused)				
		AA Ring Time		0~30)					
		Net Station								
		Station Range	Range :	0~9		[1000:0]				
		Station Group								
	Timed Ring	© ∨SF	Announcement :	0 - 2	00 (0 : Unused)				
		AA Ring Time		0~30)					
		Net Station								

Figure 4.3.5.6-1 Set CO Ring Assignment

4.3.5.7 Set License Upload

Before License upload, make sure that the date of system is set correctly. Click **[Select files]** button and then open the pop-up folder. Select a valid license file to upload to the system and click the **[Start]** button. If the file which is sent to the system is "System License File", it will be saved and automatically applied without restart. The enabled features by uploading license file can be shown in "System Overview" page.

iPacs							Change L	anguage Exit		
Step 1 (Syst	Step 2 (Set N	Step 3 (Set S	Step 4 (Set S	Step 5 (Set F	Step 6 (Set C	Step 7 (Lice	Step 8 (Set	Step 9 (Set I		
	Before uploading, check the system date. Some boards may be restarted after uploading license file.									
	Select a License File and Wait for Uploading to end!! Serial No. : 000D08740E000001									
+ Select File										

Figure 4.3.5.7-1 Set License Upload

4.3.5.8 Set Maintenance ID & Password

The Wizard includes a password entry page. It is strongly recommended that a unique User ID and strong password be entered to minimize the risk of admin and maintenance access by unauthorized personnel.

In order to finish the final step, you should register at least a maintenance ID. If not so, the Wizard can't go on to the next.

Also, Keyset admin password can be registered in this page.

							Change L	anguage Exit
Step 1 (Syste	Step 2 (Set N	a Step 3 (Set Sy	Step 4 (Set St	Step 5 (Set Fl	Step 6 (Set C	Step 7 (Licens	Step 8 (Set M	Step 9 (Set IP
							~	Prev Next
								Save
lust register one	or more maintenand	ce account.						
		Add Us	er					
User ID			Max 16 Characters & English Only / First le		t / _ is allowed			
Password		Show Password	Max 16 Characters &	Digits				
		User List						
User ID	Privilege	Tenancy Group N						
а	Maint	1-100	D	elete				
	Kaura	t Admin Password (Save :						
Password	neyse		Max 12 Digits (Includ	o '*' ood '#')				
Password		Show Password	wax 12 Digits (includ	e and #)				

Figure 4.3.5.6-1 Set Maintenance Password

NOTE

1. The new information will be in effect immediately upon saving the information. When a new Admin User ID and Password are saved, the Web login screen appears. A new Admin session will be required using the new login credentials.

Ok

2. The number of Tenancy group for each system is as below:

UCP100/600/2400	100 groups
eMG800	32 groups
eMG80	15 groups

4.3.5.9 Set IP Information

The IP Information page establishes the IP address scheme. DHCP can be enabled or static addressing can be configured. When the system is behind a firewall, the Firewall address must be entered allowing proper operation with remote users, devise and SIP trunks. A DNS (Directory Name Server) for Domain Name resolution should also be entered on this page. Note that changing any IP address in the system requires a system reset; the reset does not initialize data.

Step 1 (Syst.	. Step 2 (Set N	Step 3 (Set S	Step 4 (Set S	Step 5 (Set F	Step 6 (Set C	Step 7 (Licen	Step 8 (Set	Step 9 (Set I
ip switch 4 sta	tus : ON							Prev Finish Save
Check All	Attribute		Value					
	UCP DHCP	OFF V						
	UCP IP Address	10.10.10.2						
	UCP Subnet Mask	255.255.0.0						
	Router IP Address	10.10.10.1						
	System IP Range	10.10.10.10	- 10.10.2	54.254				
	System Subnet Mask	255.255.0.0						
	Firewall IP Address	0.0.0.0						
	DNS IP Address	0.0.0.0						

Figure 4.3.5.2-1 Set IP Information

4.4.1 System ID & Numbering Plans

Selecting the System ID & Numbering Plans expands the Navigation frame to display the available Program groups as shown in the below figure.

PGM Base Function Base	Favorite PGM	
Q PGM Search		
System ID & Numbering Plans	System Overview System IP Plan(102) Device IP Plan System ID & Numbering System ID & Numbering System ID & Numbering	
Station Data		
Board Based Data	Flexible Buttons(115/129) Common Attributes(140) CO/IP Ring Assign Co Line Data Station Data CO Line Data CO Line Data	
CO Line Data		
System Data	System Attributes(160~ System Password(162) Station Group Astronomy System Data System Data Station Group Astronomy	
Station Group Data		
ISDN Line Data	Station Authorization System Authorization Flexible DID Conv. Tables Data Tables Data Tables Data	
SIP Data		
Tables Data		
Networking Data		
H.323 Routing Table		
T-NET Data		
Zone Data		
Device Login		
UCS Data		
DECT Data		
Hotel Data		
Redundancy Data		
Initialization		

Figure 4.4.1-1 System ID & Numbering Plans sub-menu

4.4.1.1 System ID - PGM 100

Selecting System ID will display the following Input Entry page. Click **[Reset System]** to restart the system after changing Nation code, Site name, Site detail, My area code, Multi area code, Numbering Plan, etc.

PGM Base Function Base	< Favorite PC	SM System ID(100) ×		
PGM Search O ystem ID & Numbering Plans V				_[
,	Attribute	Value	Range	Cha
System ID(100)	Nation Code	North America 🔻	rungo	
System Overview	Site Name		Max 24byte	
Device Port Num Change(101)	ono riano			
System IP Plan(102)	Site Detail		Max 100byte	
Device IP Plan(103)			20 No. 6 Di 11	
O Device Sequence Number(104)	My Area Code		Max 6 Digits	
Elexible Station Number(105)				
lexible Numbering Plan(106~109)				
Digit Extension Table(238)				
ation Data				
oard Based Data				
Dased Data				
D Line Data				
vstem Data				
ation Group Data				
DN Line Data				
P Data				
T Data				
ables Data				
etworking Data				
.323 Routing Table	Multi Area Code		Max 6 Digits	
NET Data				
one Data				

Figure 4.4.1.1-1 System ID

Under System ID, the country is identified using the international dial codes (Nation Code). A twenty-four (24) character Site Name, Site detail and the local My Area Code maybe defined. This information is used to set gain, frequencies and other system characteristics specific to the country and regional regulatory requirements. The Site Name is primarily useful for the installer/programmer as a reference to customer.

Note

- 1) In case of eMG, to change Nation code, Dip-switch 1 pole # 2 is ON; you cannot change the Nation code while the switch is OFF.
- 2) In case of UCP, to change the Nation Code or disable the VOIU, the UCP Module "Mode" dip switch pole 4 must be ON; you cannot change the Nation code while the switch is OFF.
- 3) The rest attributes are additional options for Customer's convenience.
- 4) In case of UCP, the built-in VoIP DSP channels (VOIU) can be disabled allowing use of the DSPs for the Multi-party Conference function. Note the capability to disable the VOIU is only available when dip switch 4 of the UCP module is in the ON position.

Numbering Plan

The system employs one of the nine (9) basic Flexible Number Plans as detailed in Appendix B. Individual items from the selected Numbering Plan can be changed under Flexible Numbering Plan in section 4.4.1.7.

Note

The numbering plan on this manual is based on Numbering plan 2. The value (or feature code) may be different according to Numbering plan.

In case of eMG80

Flexible VMIU/VOIU(MPB) channel	VMIU 8 / VOIU 0 V	
Flexible VMIB/VOIB(VVMU) channel	VMIB 4 / VOIB 8 🔻	

- 1. Administrator can select the channel capacity of VoIP and Voice Mail in this filed.
 - In case of VMIU8/VOIU0, the default 2 channel of VoIP can't be used.
- 2. VVMU channel field can't be available if VVMU is not installed.
- 3. Select VoIP and Voice mail channel for Built-in (MPB) and VVMU by referring the below chart.

	ltem	Specification		
		Max. 8 Channels		
VOIU(MPB)	Built-in VoIP	- 2 Channels (by default)		
		- 6 Channels (1 Channel increment by license)		
		Max. 8 Channels		
VMIU(MPB)	Built-in Voice Mail	- 2 Channels (by default)		
		- 6 Channels (1 Channel increment by license)		
	VolP	Max. 8 Channels		
VOIB(VVMU)	VOIP	- 8 Channels (1 Channel increment by license)		
	Voice Mail	Max. 8 Channels		
VMIB(VVMU)		- 8 Channels (1 Channel increment by license)		

In case of eMG800

ible VMIU/VOIU chanr

Flexible VMIU/VOIU channel

You can select one of the following types according to the current configuration using Voice mail and VoIP channel:

- 1) VMIU8 / VOIU0
- 2) VMIU8 / VOIU2
- 3) VMIU8 / VOIU4
- 4) VMIU4 / VOIU8

In case of UCP

You can set VOIU in this page. The MCIU (Audio Conference) channel is flexible according to VoIU 'Enable or Disable' and installing the related module as below:

Channel / System			UCP600		
Channel / System		4CO/2BRI	4BRI	No TDM	No TDM
CO/BRI		4	8	0	0
MISC		2	2	2	4
SLT		2	2	2	0
Built-in MCIU	Built-in MCIU VoIU: Enable (Auido Conference) VoIU: Disable		6	6	6
(Auido Conference)			10	18	18
Built-in VoIP channel	when VoIU is enabled	4	2	6	6
Built-in VoIP (Switchir	ng) by license (8 Ch)		8/16		8/16/24

*VoIU: Built-in VoIP (DSP).

*VoIU set the default value 'Enable or Disable' in Install wizard or PGM100.

*The number of channel for MCIU is flexible according to using VoIU and Option boards as the above

eMG 'Speed Numbering'

You can easily memory the system speed dial code and station dial code by selecting the desired type depending on the situation among the following types:

<u>eMG80</u>

- 1) Type (0): System speed (2000~4999), Station speed (000~099)
- 2) Type (1): System speed (200~999), Station speed (000~099)
- 3) Type (2): System speed (200~999), Station speed (00~19)
- 4) Type (3): System speed (20~99), Station speed (00~19)
- 5) Type (4): System speed (1000~3999), Station speed (000~099)
- 6) Type (5): System speed (100~999), Station speed (000~099)
- 7) Type (6): System speed (100~999), Station speed (00~09)
- 8) Type (7): System speed (10~99), Station speed (00~09)
- 9) Type (8): System speed (1~9), Station speed (0~0)

<u>eMG800</u>

- 1) Type (0): System speed (2000~9999), Station speed (000~099)
- 2) Type (1): System speed (200~999), Station speed (000~099)
- 3) Type (2): System speed (200~999), Station speed (00~19)
- 4) Type (3): System speed (20~99), Station speed (00~19)
- 5) Type (4): System speed (1000~8999), Station speed (000~099)
- 6) Type (5): System speed (100~999), Station speed (000~099)
- 7) Type (6): System speed (100~999), Station speed (00~09)
- 8) Type (7): System speed (10~99), Station speed (00~09)
- 9) Type (8): System speed (1~9), Station speed (0~0)

UCP 'Speed Numbering'

You can easily memory the system speed dial code and station dial code by selecting the desired type depending on the situation among the following types:

- 1) Type (0): System speed (20000~31999), Station speed (000~099)
- 2) Type (1): System speed (2000~9999), Station speed (000~099)
- 3) Type (2): System speed (200~999), Station speed (000~099)
- 4) Type (3): System speed (200~999), Station speed (00~19)
- 5) Type (4): System speed (20~99), Station speed (00~19)
- 6) Type (5): System speed (1000~9999), Station speed (000~099)
- 7) Type (6): System speed (100~999), Station speed (000~099)
- 8) Type (7): System speed (100~999), Station speed (00~09)
- 9) Type (8): System speed (10~99), Station speed (00~09)
- 10) Type (9): System speed (1~9), Station speed (0~0)

The notifications is displayed 'Speed Numbering type is successfully changed. Please refresh this page to reload Speed numbering data." According to selecting Speed numbering type, the range of System speed dial and Station speed dial is changed over the related PGM.

4.4.1.2 System Overview

Selecting System Overview will display the System Overview page. This page displays the system capacity, the system license overview related to Application, Device ID list, and Gateway list. Note that data cannot be entered on this page. Especially, you can check the status of software license and Temp license.

Note

System overview may show different figure between the below and yours according to installing Module, Device, etc.

	PGM Base Function Base	< Favorit	e PGM System	NOVER X				
q	PGM Search O		System Cap	acity Overview				
			max port / slot	used port / slot a	available port /	slot		
	System ID & Numbering Plans 🗸 🗸 🗸	Total	350	63	287			
	· · · ·	CO & STA	214	16	198			
	System ID(100)	CO Line	74	4				
	System Overview Device Port Num Change(101)	Station	140 (include hot desk 0)	12				
	2 · · ·	MISU	14/2	7/1	7/1			
	System IP Plan(102)	VSF	32/4	8/1	24/3			
	Device IP Plan(103)	MCIB	32/1	32/1	0			
	CO Device Sequence Number(104)	WTIB	1	0	1			
	Flexible Station Number(105)							
	Flexible Numbering Plan(106~109)		Board Installation	Information				
	8 Digit Extension Table(238)	VVMU(VO	IB/VMIB) or VOIB48		(X)			
		MEMU or I	MEMU2		(X)			
	Station Data	MODU	MODU (X)					
	Board Based Data			erview				
	CO Line Data			Serial No	b.:000E2FE40			
	CO Line Data		License		Status 214 copy(s)	Currently used	Purchased	
	System Data		Total System Port Expansion				214 copy(s)	
	-,		Total IP Extension			0 (LIP 0 + SIP1st 0)	82 copy(s)	
	Station Group Data		/ SIP Extension		32 copy(s) 140 copy(s)	0	0 copy(s)	
			Mobile Extension			0	92 copy(s)	
	ISDN Line Data		IP Networking or QSIG				Not activated	
			Transparent Network(T-NET) or Local Survivability				Not activated	
	SIP Data	Hotel Feat			Activated		Activated	
	Tables Data	FIDELIO In			Activated	Discourse to d	Activated	
			/ TAPI Interface	- late da a	Activated	Disconnected	Activated	
	Networking Data		SIP Application Serve		2 copy(s)	· ·	2 copy(s)	
			/ SIP Application Chan EV Channel	nel Interlace	140 copy(s)	0	10 copy(s)	
	H.323 Routing Table				74 copy(s) Activated	U	0 copy(s) Not activated	
			RCC Gateway RCC Client(2010)		140 copv(s)	RCC(max:280, set:0, using:0)	0 copv(s)	
			RCC Client(2013)		140 copy(s) 140 copy(s)	RCC(max:280, set:0, using:0) RCC(max:280, set:0, using:0)	0 copy(s)	
	T-NET Data	IN S ETING	RCC or Voice Client(20	10)	140 copy(s) 140 copy(s)	Voice(0)	0 copy(s)	
		MOLYNC		10)	140 copy(s) 140 copy(s)		0 copy(s) 0 copy(s)	
	Zone Data			12)			U CODV(S)	
		MS LYNC	RCC or Voice Client(20	13)				
	Zone Data	MS LYNC ClickCall A	RCC or Voice Client(20 opplication		140 copy(s)	(set:0, using:0)	12 copy(s)	
	Zone Data	MS LYNC ClickCall A UCS Clien	RCC or Voice Client(20 application t Desk Standard with No	on Voice	140 copy(s) 32 copy(s)	(set:0, using:0) 0	12 copy(s) 0 copy(s)	
	Zone Data Device Login	MS LYNC ClickCall A UCS Clien UCS Clien	RCC or Voice Client(20 opplication	on Voice pice	140 copy(s)	(set:0, using:0) 0 0	12 copy(s)	

	PGM Base Function Base	<pre> </pre>	Favorite	e PGM System	• Overview $\frac{x}{C}$					
q	PGM Search	3		System Cap	acity Overview					
				max port / slot	max port / slot used port / slot		/ slot			
	System ID & Numbering Plans		Total	2890	63	2827				
			CO & STA	1200	20	1180				
	System ID(100)		CO Line	600	8					
	System Overview		Station	1200	12					
	Device Port Num Change(101)			(include hot desk 0)						
	System IP Plan(102)		MISU	330 / 33	7/1	323 / 32				
	Device IP Plan(103)		VSF	560 / 35	4 / 1	556 / 34				
	CO Device Sequence Number(104) Flexible Station Number(105)		MCIB	64 / 1	32 / 1	32				
			WTIB	35	0	35				
	Flexible Numbering Plan(106~109) 8 Digit Extension Table(238)									
			System License Overview Serial No. : 000E59E412140323							
					Serial N					
	Station Data Board Based Data			License		Status	Currently used	Purchased		
			Total System Port Expansion			1200 copy(s)		1200 copy(
			Total IP Extension				0 (LIP 0 + SIP1st 0)	600 copy(s		
			Third Party SIP Extension			600 copy(s)	0	600 copy(s		
	CO Line Data		Mobile Extension			1200 copy(s)	0	1200 copy(
	System Data			ing or QSIG		Activated		Activated		
				t Network(T-NET) or Lo	cal Survivability	Activated		Activated		
	System Data		Hotel Feature			Activated		Activated		
	Station Group Data		Hotel Featu	ire		Activated		riotriatoa		
	Station Group Data	_	FIDELIO In	terface		Activated		Activated		
			FIDELIO In Third Party	terface TAPI Interface		Activated Activated	Disconnected	Activated Activated		
	Station Group Data		FIDELIO In Third Party	terface	r Interface	Activated	Disconnected	Activated Activated 5 copy(s)		
	Station Group Data		FIDELIO In Third Party Third Party	terface TAPI Interface		Activated Activated	0	Activated Activated 5 copy(s) 1200 copy(s)		
	Station Group Data		FIDELIO In Third Party Third Party	terface TAPI Interface SIP Application Serve SIP Application Chanr		Activated Activated 5 copy(s) 1200 copy(s) 600 copy(s)	0	Activated Activated 5 copy(s) 1200 copy(s) 600 copy(s)		
	Station Group Data ISDN Line Data SIP Data Tables Data		FIDELIO In Third Party Third Party Third Party MS LYNC B	terface TAPI Interface SIP Application Serve SIP Application Chanr		Activated Activated 5 copy(s) 1200 copy(s) 600 copy(s) Activated	0 0 0 0	Activated Activated 5 copy(s) 1200 copy(s) 600 copy(s) Activated		
	Station Group Data ISDN Line Data SIP Data		FIDELIO In Third Party Third Party Third Party MS LYNC B MS LYNC F	terface TAPI Interface SIP Application Serve SIP Application Chann EV Channel		Activated Activated 5 copy(s) 1200 copy(s) 600 copy(s)	0 0 0 0 RCC(max:2400, set:0, using:0)	Activated Activated 5 copy(s) 1200 copy(s) 600 copy(s) Activated 1200 copy(s)		
	Station Group Data ISDN Line Data SIP Data Tables Data Networking Data		FIDELIO In Third Party Third Party Third Party MS LYNC F MS LYNC F	terface TAPI Interface SIP Application Serve SIP Application Chann EV Channel RCC Gateway		Activated Activated 5 copy(s) 1200 copy(s) 600 copy(s) Activated 1200 copy(s) 1200 copy(s)	0 0 0 RCC(max:2400, set:0, using:0) RCC(max:2400, set:0, using:0)	Activated Activated 5 copy(s) 1200 copy(s) 600 copy(s) Activated 1200 copy(s) 1200 copy(s) 1200 copy(s) 1200 copy(s)		
	Station Group Data ISDN Line Data SIP Data Tables Data		FIDELIO In Third Party Third Party MS LYNC F MS LYNC F MS LYNC F MS LYNC F	terface TAPI Interface SIP Application Serve SIP Application Channe EV Channel RCC Gateway RCC Client(2010) RCC Client(2013) RCC or Voice Client(20	10)	Activated Activated 5 copy(s) 1200 copy(s) 600 copy(s) Activated 1200 copy(s)	0 0 0 RCC(max:2400, set:0, using:0) RCC(max:2400, set:0, using:0)	Activated Activated 5 copy(s) 1200 copy(s) 600 copy(s) Activated 1200 copy(s)		
	Station Group Data ISDN Line Data SIP Data Tables Data Networking Data		FIDELIO In Third Party Third Party MS LYNC F MS LYNC F MS LYNC F MS LYNC F	terface TAPI Interface SIP Application Serve SIP Application Channe EV Channel RCC Gateway RCC Client(2010) RCC Client(2013)	10)	Activated Activated 5 copy(s) 1200 copy(s) 600 copy(s) Activated 1200 copy(s) 1200 copy(s)	0 0 0 RCC(max:2400, set:0, using:0) RCC(max:2400, set:0, using:0)	Activated Activated 5 copy(s) 1200 copy(s) 600 copy(s) Activated 1200 copy(s) 1200 copy(s)		

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iPECS eMG80 & eMG800 & UCP Administration and Programming Manual

PGM Base Function Bas	e <	Favorite PGN	System Ov	verview X			
PGM Search	0		System Capaci	ity Overvie	w		
			max port / slot	used port	/ slot availabl	le port / slot	
System ID & Numbering Plans	~	Total	5916	1	5915		
		CO & STA	199	1	198		
System ID(100)		CO Gateway	199	0			
System Overview Device Port Num Change(101)		Station	199 (include hot desk 0)	1			
System IP Plan(102)		MISC Gateway	300 / 100	0/0	300 / 1	00	
Device IP Plan(103)		VSF Gateway	500 / 100	0/0	500 / 1	00	
CO Device Sequence Number(104		MCIM Gateway	960 / 30	0/0	960		
Flexible Station Number(105)	, i i i i i i i i i i i i i i i i i i i	UCS Server	16	0	16		
Flexible Numbering Plan(106~109)		3rd Party Server	10	0	10		
8 Digit Extension Table(238)		WTIM Gateway	132	0	132		
Station Data Board Based Data		ct) Max 3 WIIMs c	ascade in the same ph			iew.	
Board Based Data		ct) Max 3 WIIMs c		System I	License Overv		
		ct) Max 3 WIIMs c		System I		135552	Purchased
Board Based Data CO Line Data			License	System I	License Overv 000E55E40D1 Status	135552 Currently used	Purchased
Board Based Data CO Line Data System Data		ct) Max 3 W IIMs c Total System Por Total IP Extensio	License t Expansion	System I	License Overv 000E55E40D1	135552	Purchased 199 copy(s) 199 copy(s)
Board Based Data CO Line Data		Total System Por	License t Expansion n	System I	License Overv 000E55E40D1 Status 199 copy(s)	135552 Currently used 1 (STN 1 + CO 0)	199 copy(s)
Board Based Data CO Line Data System Data Station Group Data		Total System Por Total IP Extensio Third Party SIP E	License t Expansion n	System I Serial No. :	License Overv 000E55E40D1 Status 199 copy(s) 199 copy(s)	135552 Currently used 1 (STN 1 + CO 0) 1 (LIP 1 + SIP1st 0)	199 copy(s) 199 copy(s)
Board Based Data CO Line Data System Data Station Group Data		Total System Por Total IP Extensio Third Party SIP E	License t Expansion n ixtension iching Channel(8ch/cop	System I Serial No. :	License Overv 000E55E40D1 Status 199 copy(s) 199 copy(s) 199 copy(s)	135552 Currently used 1 (STN 1 + CO 0) 1 (LIP 1 + SIP1st 0) 0	199 copy(s) 199 copy(s) 199 copy(s)
Board Based Data CO Line Data System Data Station Group Data ISDN Line Data		Total System Por Total IP Extensio Third Party SIP E VOIP Virtual Swit	License t Expansion n ixtension iching Channel(8ch/cop ime Add 10-Hour	System I Serial No. :	License Overv 000E55E40D4 Status 199 copy(s) 199 copy(s) 199 copy(s) 2 copy(s)	135552 Currently used 1 (STN 1 + CO 0) 1 (LIP 1 + SIP1st 0) 0	199 copy(s) 199 copy(s) 199 copy(s) 2 copy(s)
Board Based Data CO Line Data System Data Station Group Data ISDN Line Data SIP Data		Total System Poo Total IP Extensio Third Party SIP E VOIP Virtual Swit VMU Recording T	License t Expansion n xtension tching Channel(8ch/cop ime Add 10-Hour	System I Serial No. :	License Overv 000E55E40D1 Status 199 copy(s) 199 copy(s) 2 copy(s) Activated	135552 Currently used 1 (STN 1 + CO 0) 1 (LIP 1 + SIP1st 0) 0 0 ch	199 copy(s) 199 copy(s) 199 copy(s) 2 copy(s) Activated
Board Based Data CO Line Data System Data Station Group Data ISDN Line Data SIP Data		Total System Por Total IP Extensio Third Party SIP E VOIP Virtual Swit VMU Recording T Mobile Extension IP Networking or	License t Expansion n xtension tching Channel(8ch/cop ime Add 10-Hour	System I Serial No. : Dy)	License Overv 000E55E40D1 Status 199 copy(s) 199 copy(s) 2 copy(s) Activated 199 copy(s)	135552 Currently used 1 (STN 1 + CO 0) 1 (LIP 1 + SIP1st 0) 0 0 ch	199 copy(s) 199 copy(s) 199 copy(s) 2 copy(s) Activated 199 copy(s)
Board Based Data CO Line Data System Data Station Group Data SDN Line Data SIP Data 'ables Data		Total System Por Total IP Extensio Third Party SIP E VOIP Virtual Swit VMU Recording T Mobile Extension IP Networking or	License t Expansion n Extension Ing Channel(8ch/cop Time Add 10-Hour	System I Serial No. : Dy)	License Overv 000E55E40D1 Status 199 copy(s) 199 copy(s) 2 copy(s) Activated 199 copy(s) Activated	135552 Currently used 1 (STN 1 + CO 0) 1 (LIP 1 + SIP1st 0) 0 0 ch	199 copy(s) 199 copy(s) 199 copy(s) 2 copy(s) Activated 199 copy(s) Activated 199 copy(s)
oard Based Data O Line Data ystem Data tation Group Data SDN Line Data IP Data ables Data		Total System Por Total IP Extensio Third Party SIP E VOIP Virtual Swit VMU Recording T Mobile Extension IP Networking or Transparent Netw	License t Expansion n ixtension iching Channel(8ch/cop ime Add 10-Hour QSIG vork(T-NET) or Local Se	System I Serial No. : Dy)	License Overv 000E55E40D1 Status 199 copy(s) 199 copy(s) 2 copy(s) Activated 199 copy(s) Activated Activated	135552 Currently used 1 (STN 1 + CO 0) 1 (LIP 1 + SIP1st 0) 0 0 ch	199 copy(s) 199 copy(s) 199 copy(s) 2 copy(s) Activated 199 copy(s) Activated Activated Activated Activated
Board Based Data CO Line Data System Data Station Group Data ISDN Line Data SIP Data Tables Data Networking Data		Total System Poi Total IP Extensio Third Party SIP E VOIP Virtual Swit VMU Recording T Mobile Extension IP Networking or Transparent Netw Hotel Feature	License t Expansion n ixtension iching Channel(8ch/cop ime Add 10-Hour QSIG iork(T-NET) or Local Si e	System I Serial No. : Dy)	License Overv 000E55E40D1 Status 199 copy(s) 199 copy(s) 2 copy(s) 2 copy(s) Activated 199 copy(s) Activated Activated Activated	135552 Currently used 1 (STN 1 + CO 0) 1 (LIP 1 + SIP1st 0) 0 0 ch	199 copy(s) 199 copy(s) 199 copy(s) 2 copy(s) Activated 199 copy(s) Activated Activated Activated Activated Activated Activated Activated Activated
Board Based Data CO Line Data System Data Station Group Data ISDN Line Data SIP Data Tables Data Networking Data H.323 Routing Table		Total System Por Total IP Extensio Third Party SIP E VOIP Virtual Swit VMU Recording T Mobile Extension IP Networking or Transparent Netw Hotel Feature FIDELIO Interfac Third Party TAPI	License t Expansion n ixtension iching Channel(8ch/cop ime Add 10-Hour QSIG iork(T-NET) or Local Si e	System I Serial No. : Dy)	License Overv 000E55E40D1 Status 199 copy(s) 199 copy(s) 2 copy(s) Activated 199 copy(s) Activated Activated Activated Activated	135552 Currently used 1 (STN 1 + CO 0) 1 (LIP 1 + SIP1st 0) 0 ch 0	199 copy(s) 199 copy(s) 2 copy(s) Activated 199 copy(s) Activated 199 copy(s) Activated
Board Based Data CO Line Data System Data Station Group Data ISDN Line Data		Total System Por Total IP Extensio Third Party SIP E VOIP Virtual Swit VMU Recording T Mobile Extension IP Networking or Transparent Netw Hotel Feature FIDELIO Interfac Third Party TAPI Third Party SIP A	License t Expansion n txtension tching Channel(8ch/cop ime Add 10-Hour QSIG cork(T-NET) or Local St e Interface	System I Serial No. : Dy) urvivability face	License Overv 000E55E4001 199 copy(s) 199 copy(s) 2 copy(s) Activated 199 copy(s) Activated Activated Activated Activated Activated Activated	135552 Currently used 1 (STN 1 + CO 0) 1 (LIP 1 + SIP1st 0) 0 ch 0 0 Disconnected	199 copy(s) 199 copy(s) 2 copy(s) Activated 199 copy(s) Activated 199 copy(s) Activated Activated

Figure 4.4.1.2-3 UCP System Overview

The above information may be different according to installing the related board and license. Especially UCP is different according to UCP type (UCP100, UCP600, UCP2400).

4.4.1.3 Device Port Number Change – PGM 101

Selecting Device Port Num Change (101) will display the input entry page.

PGM Base Function Base			Faur	rite PGM Device Port Num Chang X						1
Puncuon base	Ĩ.		ravo	rite PGM Device Port Num Chang X						
Q PGM Search										Save
System ID & Numbering Plans 🗸 🗸								Virtual	Registration (I	P Device)
System ID & Numbering Plans V	C	Order <u>1</u> ª S	Seq	Logical Num <u>↓</u> ª	Device Ty	pe Device Reset	t Device Delete	Max Port	Current Port	New Por
System ID(100)				CO Device						
System Overview		1	13	1 - 8	VOIU			2	8	
Device Port Num Change(101)				STA						
System IP Plan(102)		1	1	100[LDP 7024D] 101[LDP 7024D] 102[-] 103[-] 104[-] 105[-] 106[-] 107[-] 108 109 110 1	11 DSIB12			12	12	
Device IP Plan(103)				MISU Device						
CO Device Sequence Number(104)		1	17	1 - 7	MISU			7	7	
Flexible Station Number(105)				VSF Device						
Flexible Numbering Plan(106~109)		1	15	1 - 4	VMIU			4	4	
8 Digit Extension Table(238)										
Station Data										
Station Data										
Board Based Data										
CO Line Data										



PGM Base Function Base	<	Favorit	e PGM Device Port Num Change	×						×
Q PGM Search O									Virtual R	Save
System ID & Numbering Plans ~	Order ↓	^B Seq	Logical Num ↓ª		Device Type	Device Reset	Device Delete	Max Port		-
System ID(100)				CO Device						
System Overview	1	19	1 - 8		VOIU			8	8	
Device Port Num Change(101)				STA						
System IP Plan(102)	1	1	1000[-] 1001[-] 1002[-] 1003[-] 1004[-] 1005[-] 10	06 1007 1008 1009 1010 1011	DSIB12			12	12	
Device IP Plan(103)				MISU Device						
CO Device Sequence Number(104)	1	22	1 - 7		MISU			7	7	
Flexible Station Number(105)				VSF Device						
Flexible Numbering Plan(106~109)	1	21	1 - 4		VMIU			4	4	
8 Digit Extension Table(238)										
Station Data										
Board Based Data										
CO Line Data										

Figure 4.4.1.3-2 eMG800 Device Port Num Change

PGM Base Function Base	< Favo	rite PG	M Device	Port Nu ×					
Q PGM Search									-
System ID & Numbering Plans ~	Order 18	Sog	Logical Num ↓ª	Device Type	Dovico Posot	Dovice Delete	Max Port	Current Port	Virtual Registr
	order 7	Seq		Device Type	CO Gateway	Device Delete	Max Port	current Fort	NewFort
System ID(100)	1	2401	1-8	BRIM4 GW			8	8	
System Overview	2	2402	9 - 32	T1IM GW			24	24	
Device Port Num Change(101) System IP Plan(102)	3	2403	33 - 55	ISDN-PRI GW			23	23	
Device IP Plan(103)	4	2404	56 - 63	VOIM8 GW			8	8	
CO Device Sequence Number(104)					STA				
Flexible Station Number(105)	1	1	1000	LIP-8024D			1	1	
Flexible Numbering Plan(106~109)					VSF Gateway				
8 Digit Extension Table(238)	1	3001	1 - 16	UVM GW			16	16	
					MCIM Gateway	/			
Station Data	1	3201	1 - 32	MCIM GW			32	32	
Board Based Data					UCS Server				
	1	3231	[First]	UCS Server			1	1	
CO Line Data					WTIM Gateway				
System Data	1	3257	1	WTIM4 GW			16	1	

Figure 4.4.1.3-3 UCP Device Port Num Change

The system supports changing port count of a device or deleting devices. In this window, the Device ID, Mac address, IP address and port count of the device can be modified. Also checking the **[Device Delete]** check box will delete the device.

Devices may be registered through the Virtual Registration page by accessing to "Device Port Number Change" page. Devices can be registered with or without a MAC address and the number of ports associated with the device may be limited. This may be useful for example to implement a "partial T1" gateway where only some of the T1 channels are available. Note to virtually register a SIP trunk, use the Device Type of CO and device as VOIM, enter the desired number of channels. If you want to use virtual MAC address when you register Device, please check the check box in front of MAC address input field. Click **[Register]** button after finishing the desired value.

PGM Base Function Base	< F	Favorite PGM Device Port Nu	× Virtual Registr	×	
PGM Search O					
ystem ID & Numbering Plans V		vant to use virtual MAC address when you check the check box in front of MAC Add			
System ID(100)	Index	Device ID	MAC Address	Data	
System Overview	1	[Device Type] [Select Device]		Max Port	
Device Port Num Change(101)	2	[Device Type] [Select Device]		Max Port	
System IP Plan(102)	3	[Device Type] [Select Device]		Max Port	
Device IP Plan(103)	4	[Device Type] [Select Device]		Max Port	
CO Device Sequence Number(104)	5	[Device Type] [Select Device]		Max Port	
Flexible Station Number(105)					
Flexible Numbering Plan(106~109)					
8 Digit Extension Table(238)					

Figure 4.4.1.3-2 Virtual Registration

4.4.1.4 System IP Plan - PGM 102

Selecting System IP Plan will display the following input entry page. Use the check boxes to indicate which attributes to modify and the data for checked attributes is stored for the entire range of stations when saved.

PGM Base Function Base	< Favorit	e PGM System II	P Plan(102) ×		
Q PGM Search					
System ID & Numbering Plans V	Dip switch 2 sta				
	Check All	Attribute		Value	
System ID(100)		MPB DHCP	OFF V		
System Overview		MPB IP Address	10.10.10.3		
Device Port Num Change(101)		MPB Subnet Mask	255.255.255.0		
System IP Plan(102)		Router IP Address	10.10.10.1		
Device IP Plan(103)		System IP Range	10.10.10.10	- 10.10.10.254	
CO Device Sequence Number(104) Flexible Station Number(105)		System Subnet Mask	255.255.255.0		
Flexible Numbering Plan(106~109)		Automatic IP Assign	ON V		
8 Digit Extension Table(238)		Second System IP Address	0.0.0.0		
		Second System Net Mask	255.255.255.0		
itation Data		Firewall IP Address	0.0.0.0		
Board Based Data		DDNS Usage of Firewall		in, 1-127) due to DDNS, VOIU boards will b	e restarted!
CO Line Data		Domain Name of Firewall			
System Data	-	51 - 144 - D	Check DNS IP Address		
,		First MAC Range	00000000000	- 00000000000	
tation Group Data		Second MAC Range	00000000000	- 00000000000	
ISDN Line Data		DNS IP Address	0.0.0.0		
SIP Data					

Figure 4.4.1.4-1 eMG System IP Plan

PGM Base Function Base	< Favorite F	PGM System IP Plan(1	02) <mark>×</mark>	
PGM Search 🕲				
	Dip switch 4 sta	tus : ON		
System ID & Numbering Plans V	Check All	Attribute		Value
System ID(100)		UCP DHCP	OFF V	
System Overview		UCP IP Address	10.10.10.2	
Device Port Num Change(101)		UCP Subnet Mask	255.255.0.0	
System IP Plan(102)		Router IP Address	10.10.10.1	
Device IP Plan(103)		System IP Range	10.10.10.10	- 10.10.254.254
CO Device Sequence Number(104) Flexible Station Number(105)		System Subnet Mask	255.255.0.0	
Flexible Numbering Plan(106~109)		Automatic IP Assign	ON V	
8 Digit Extension Table(238)		Second System IP Address	0.0.0.0	
		Second System Net Mask	255.255.0.0	
Station Data		Firewall IP Address	0.0.0.0	
Board Based Data		DDNS Usage of Firewall		n, 1-127) ue to DDNS, VOIP boards will be restarted!
CO Line Data		Domain Name of Firewall	Check DNS IP Address S	Setting
System Data		First MAC Range	00000000000	- 00000000000
Station Group Data		Second MAC Range	00000000000	- 00000000000
•		DNS IP Address	0.0.0.0	

Figure 4.4.1.4-2 UCP System IP Plan

The System IP Plan sets several IP addresses including MPB (UCP) IP address that is required for external VoIP calls, the IP address for the router, and the system's internal private IP address Plan. Note that the LAN and Router addresses must be routable IP addresses for access to an external VoIP network, remote access by an iPECS Phone or remote Web access. When used, the LAN port of the VVMU(eMG80), VOIB(eMG800) or VOIM (Voice over IP device unit) must also have a routable IP address for access to/from an external VoIP network and a remote iPECS device.

When "Automatic IP Assign" is enabled, the system will assign IP addresses to each iPECS IP terminal and gateway Modules including any VOIM using the System IP address range defined. These addresses are used for communications between the system and other VOIMs and terminals.

When "Automatic IP Assign" is enabled, the system will assign IP addresses to each iPECS IP terminal and Board (Gateway Modules) including any VVMU, VOIB or VOIM using the System IP address range defined. These addresses are used for communications between the system and other VVMU (VOIB, VOIM) and terminals.

The system may be connected to a LAN that is segmented by two separate private IP address schemes. This segmenting technique is often used to separate voice and data devices. However, with this segmenting technique, the system will normally treat the segmented devices such as IP soft phones, as remote devices, using valuable WAN bandwidth. Assigning the "Second Sys IP address" with a valid IP address from the second segment permits the system to communicate directly with the devices over the LAN.

iPECS can be installed behind a NAPT server, if the NAPT server provides fixed address translation and port forwarding to the system. In this case, the system will employ the "Firewall IP address" as the fixed IP address for communication with remote devices. This address must be assigned as the "MPB (UCP)" address in the remote device.

ATTRIBUTE	DESCRIPTION	DEFAULT
MPB (UCP) DHCP	Controls the DHCP client function for MPB in the KSU or UCP.	OFF
MPB (UCP) IP Address	Public IP Address of the KSU (UCP) LAN port that required for remote user and external VoIP network access. IPv4 format.	10.10.10.2
MPB (UCP) Subnet Mask	Defines the system subnet for MPB (UCP) IP addresses.	255.255.255.0
Router IP Address	IP Address of router for external network (WAN) access. Required for shared voice and data LAN, external VoIP and remote Web access.	10.10.10.1
System IP Range	Range for private IP addresses of Modules/Terminals.	
System Subnet Mask	Define the system subnet for private IP addresses.	255.255.255.0
Automatic IP Assign	The system automatically assigns IP addresses to modules and terminals (ON) or, when OFF, IP addresses are assigned manually in Device IP Address Table or from the DHCP address assigned to the device.	ON
Second System IP Address	When devices have different address schemes on the same LAN, enter an IP address from the second LAN for use by the system.	0.0.0.0

Table 4.4.1.4-1 SYSTEM IP ADDRESS PLAN

ATTRIBUTE	DESCRIPTION	DEFAULT
Second System Net Mask	Net mask of the second private IP addresses	255.255.255.0
Firewall IP Address	When the system is installed behind a NAPT server, the fixed IP Address provided by the NAPT server must be assigned here. Also, use this IP address to identify the MPB in remote devices.	0.0.0.0
DDNS Usage of Firewall	If the firewall of system has a dynamic IP address, you can use Dynamic DNS by setting 'DDNS Usage of Firewall' and 'Domain	ON/OFF, 1-127 (Min.)
Domain Name of Firewall	Name of Firewall'. Note that after IP address of firewall is changed, VOIP (UCP) / VOIU (eMG) board will be restarted.	
First MAC Range	MAC Address Range to register a device if device MAC address is included in range.	000000000000~ 000000000000
Second MAC Range	MAC Address Range to register a device if device MAC address is included in range.	000000000000 000000000000
DNS IP Address	IP Address of Domain Name Server, which iPECS system will use to resolve a URL to an IP address. The DNS provides the resolution after receiving the name from iPECS.	0.0.0.0

Table 4.4.1.4-1 SYSTEM IP	ADDRESS PLAN
---------------------------	--------------

4.4.1.5 Device IP Plan - PGM 103

Selecting Device IP Plan will display the input entry page.

PGM Base Function Base	<	F	avorite	PGN	1	De	vice IP Pla	an(103) ×							
PGM Search															S
System ID & Numbering Plans 🛛 🗸	Order ⊥ª	Seq	Zone	svc	Logical Num <u>↓</u> ª	Туре	DEV ID	MAC Address	IP Address	Mode	ARP	Register	Version	CPU	Remark
System ID(100)									CO Device	Э					
System Overview	1	7	1		1 - 4	LCOB4	65	b40edc281d56	10.10.10.2	L	OFF v	Multicast v	R2.0.1	MSC1K	
Device Port Num Change(101)	2	14	1		5 - 12	VOIB	100	b40edc281d3a	10.10.10.10	L	OFF •	Multicast •	1.0Ae	MSC1K	
System IP Plan(102)	3	13	1		13 - 20	VOIU	97	b40edc281d56	10.10.10.2	L	OFF •	Multicast •	R2.0.1	MSC1K	
Device IP Plan(103)									STA						
CO Device Sequence Number(104) Flexible Station Number(105) Flexible Numbering Plan(106~109)	1	1	1		100 101 102 103 104 105 106 107	HYIB8	160	b40edc281d56	10.10.10.2	L	OFF V	Multicast •	R2.0.1	MSC1K	
8 Digit Extension Table(238)									MISU Devic	ce					
Station Data	1	17	1		1 - 7	MISU	9	b40edc281d56	10.10.10.2	L	OFF •	Multicast •	R2.0.1	MSC1K	
									VSF Devic	e					
Board Based Data	1	15	1		1 - 4	VMIU	8	b40edc281d56	10.10.10.2	L	OFF T	Multicast •	R2.0.1	MSC1K	
CO Line Data	2	16	1		5 - 8	VMIB	7	b40edc281d3a	10.10.10.10	L	OFF T	Multicast V	1.0Ae	MSC1K	
									WTIB Device	ce					
System Data	1	2	1		1	WTIB4	173	b40edc281d56	10.10.10.2	L	OFF •	Multicast •	R2.0.1/()	MSC1K (M)	
Station Group Data															
ISDN Line Data															

Figure 4.4.1.5-1 eMG Device IP Plan

TDM board is registered with own slot number. It is registered automatically without any configuration.

If the station is assigned to Master or Slave by linked station, the bracket '[M] or [S]' will be displayed by the station number in PGM 101, 103, 105, 124 of Web page.

To register IP device:

As Gateway/board and terminals are registered to the iPECS, a slot number is assigned, which indicates the order of registration. Also, based on the type of device (CO Gateway/board, Terminal or Station board) the system assigns a logical Sequence Number. Thus, Sequence Numbers for CO Gateway/board, Terminals are independently assigned based on the type of Gateway/board. These Sequence Numbers are employed to provide a relationship between the physical MAC address and the logical port numbers of the device.

The system may assign a default private IP address to each Sequence Number. If desired, this program may be used to modify the assigned IP address for each Gateway/board and iPECS Phone.

Each Gateway/board and terminal can be assigned for "Direct Send". With Direct Send enabled, the system will employ the Ethernet MAC address of the device to send iPECS protocol messages to the device. This reduces the overall LAN traffic by eliminating the need for IP address headers in the messages.

The system normally employs IP multi-cast protocol to respond to a registration request from a Gateway/board or terminal. When the device is separated from the system by a router, the system must use the IP uni-cast protocol. This is established by the "Local Device" assignment. When disabled (Off), the system will send an IP uni-cast message to the device in response to a registration request.

PGM Base Function Base	4		Fax	orite Pt	PGM Device IP Plan(103)	×										
PGM Search O																Save
System ID & Numbering Plans 🛛 👻	Order 1	Seq	Zone	SVC	Logical Num 1 ^e	Туре	DEV ID	MAC Address 1ª	IP Address 1*	Mode	ARP	Register	Version	CPU	Remark	
2								O Gateway								
System (D(100)	1	2401	1	0	1+6	VOIU	97	b061c703dc#7	10 10 10 2	L.	OFF .	Multicast *	R112	M5C2K		
System Overview	2	2402	6 A	-63	7 - 36	ISDN-PRI GW	41	b061c7034902	10.10.10.10	L	OFF .	Multicast *	6.0Be	M5828		
Device Port Num Change(101)	3	2403	1	61	37 - 44	LGCM LOOP 8 GW	314	b061c701dc85	10.10.10.12	12	OFF .	Multicast *	6.1Ba	MS828		
System IP Plan(102)								STA								
Device IP Plan(103)	1	1	1	0	1000	LIP-9040	245	B051c7028731	10 10 10 15	L	CFF .	Multicast *	1.DAf	SC14463		
CO Device Sequence Number(104)	2	2	1	63	1001 1002	SLTU2	119	b061c703dce7	10.10.10.2	L	OFF .	Multicast .	R1.1.2	MSC2K		
Flexible Station Number(105)	4	3			1003 1004 1005 1006 1007 1008 1009 1010	SLTM8 GW	119	b061x703a/81	10.10.10.13	11	OFF .	Multicast *	6 1DF	M9828		
Flexible Numbering Plan(106~109)	12	4	1	0	1011	LIP-6024D	201	001a7ea350de	10.10.10.16		OFF .	Multicast •				
8 Digit Extension Table(238)							208	b061c702d7ac	10.10.10.17							
Station Data	13	2	1	- 42	1012[-] 1013[-] 1014[-] 1015[-] 1016[-] 1017[-] 1018[-] 1019]	- DIIW8 GW			10.10.10.17	L	Child a	Multicast •	e ueg	M5828		
						1.		ISC Gateway	Concernance -					and the second of		
Board Based Data	1	3101	91	0	1+4	MISU	9	b061c703dce7	10.10.10.2	L:	OFF .	Multicast .	R1.1.2	MSC2K		
CO Line Data								SF Gateway								
OD Line Data	1				1-4	UVMU	11	b061c703dce7	10.10.10.2	L .	OFF .	Multicast *	R1.1.2	MSC2K		
System Data	2	3002	1	68	5 - 12	UVM GW	10	b051c700e57c	10.10.10.11	L	OFF .	Multicast *	1.0Be	MSC2K		
							M	CIM Gateway								
Station Group Data	1	3201	1	0	1-6	MCIU	115	b051c703dce7	10.10.10.2	L	OFF +	Multicast *	R112	MSC2K		
ISDN Line Data	2	3202	1	8	7-38	MCIM GW	115	b061c702009d	10.10.10.14	L	OFF +	Multicast *	6.0Da	M5828		

Figure 4.4.1.5-2 UCP Device IP Plan

This page displays all of the devices registered to the iPECS UCP by grouping into the type of device (CO, STA, etc.).

If the station is assigned to Master or Slave by linked station, the bracket '[M] or [S]' will be displayed by the station number in PGM 101, 103, 105, 124 of Web page.

Selecting the SVC button for a device will toggle the service mode between in and out-of-service. The device type can be modified as well as the MAC and IP address. Using the SVC check box to place a device out of service, an errant device can be replaced without affecting the database. After placing the device out-of-service, it can be removed, replaced and the MAC address of the new device entered. The SVC check box is used to bring the new device into service employing the database from the replaced device.

The system may assign a default private IP address to each device. If desired, this program may be used to modify the assigned IP address for each Gateway/board and iPECS Phone.

The device mode, connected to a local or remote LAN, is displayed. Each Gateway/board and terminal can be assigned for "*ARP*". With ARP disabled, the system will employ the Ethernet MAC address of the device to send iPECS protocol messages to the device. This reduces the overall LAN traffic by eliminating ARP messages and the need for IP address headers in the messages.

The system normally employs IP multi-cast protocol to respond to a registration request from a Gateway/board or terminal.

When the device is separated from the system by a router, the system must use the IP uni-cast protocol. This is established by the *"Local Device"* assignment. When disabled (OFF), the system will send an IP uni-cast message to the device in response to a registration request.

4.4.1.6 CO Device Sequence Number - PGM 104

Selecting CO Gateway/board Sequence Number will display the input entry page. Selecting the blue colored text in the Table header will sort the table based on the selected column. Click **[Save]** button after changing Value to apply.

PGM Base Function Base	< Favorite PGM	CC	Device X				
PGM Search							S
System ID & Numbering Plans	Ordering Num <u>↓</u> ª	Type <u>↓</u> a	Sequence Number <u></u>	CO Line Num <u>↓</u> a	IP Address <u>↓</u> a	Order	
	1	LCOB4	7	1	10.10.10.2	1	
System ID(100)	2	VOIB	14	5	10.10.10.10	2	
System Overview	3	VOIU	13	13	10.10.10.2	3	
Device Port Num Change(101)							
System IP Plan(102)							
Device IP Plan(103) CO Device Sequence Number(104)							
Flexible Station Number(105)							
Flexible Numbering Plan(106~109)							
8 Digit Extension Table(238)							
Station Data							
Board Based Data							
CO Line Data							

Figure 4.4.1.6-1 eMG CO Device Sequence Number

PGM Base Function Base	<	Favorite PGM	CO Device S.	×			
Q PGM Search	0						
System ID & Numbering Plans		Ordering Num <u>↓</u> a	Type <u>↓</u> a	Sequence Number $\underline{\downarrow}^a$	CO Line Num <u>↓</u> ª	IP Address $\underline{1}^a$	Order
	_	1	VOIU	2401	1	10.10.10.2	1
System ID(100)		2	ISDN-PRI GW	2402	7	10.10.10.10	2
System Overview		3	LGCM LOOP 8 GW	2403	37	10.10.10.12	3
Device Port Num Change(101)							
System IP Plan(102) Device IP Plan(103)							
CO Device Sequence Number(104)							
	•						
Flexible Station Number(105)							
Flexible Station Number(105) Flexible Numbering Plan(106~109)							
Flexible Numbering Plan(106~109)							
Flexible Numbering Plan(106~109) 8 Digit Extension Table(238)	_						

Figure 4.4.1.6-1 UCP CO Device Sequence Number

The system configures the CO/IP Line numbers as discussed in section 2.3. In case of eMG, each slot is assigned the starting CO/IP Line number based on the Order Numbering. With UCP, each Module is assigned the starting CO/IP Line number based on the registration order. In place of the default Order Numbering, the "Order" number assigned in this PGM can be used to reorder the CO/IP numbering.

4.4.1.7 Flexible Station Numbering Plan - PGM 105

Selecting Flexible Station Number will return the data entry page. For convenience, the copy, paste, and drag is available to enter or modify data.

This page permits changes in the Station Numbering Plan using one of three methods:

Enter Station Index Range: eMG80: 1-140 / eMG800: 1-1200 / UCP: 1-2400

<u>Station Index Range</u>: use to change the station numbers associated with a range of "Order Numbers" (the indexes). The "Start Station Number" is assigned to the station with the first index then the station number is incremented by one and assigned to the next station in the range. The process is repeated until the station number with the last index is changed.

<u>Station Number</u>: enter the station number to search. The station number is displayed and then you can change the new station number as you wish.

<u>Multiple Station Number to change</u>: there are two ways to search the station number for change; Enter Index Range or Enter Station Range.

You can change station numbers over a range of stations using the "Start Station Number" as the first station number for the range. The station number is incremented by one for each successive station in the range.

	PGM Base Function Base		<	Favori	te PGM FI	exible Station N	×					[
٩	PGM Search		Ente	r Statior	Index Range (1 - :	2400) : Default :	1-100			2	Load	Save]
	System ID & Numbering Plans v		Stati	on Inde>	Range 1-100								
	System ID(100)		Stati	on Num	ber :	Search							
	System Overview		CID	Passwo	rd :	Go to	Setting						
	Device Port Num Change(101)					Multiple Static	n Number to	change					
	System IP Plan(102)		0	Enter	Index Range :			Start Station N	lumber :				
	Device IP Plan(103)		0		Station Range :			Start Station N					
	CO Device Sequence Number(104)			Litter	Station Range .			Start Station r					
	Flexible Station Number(105)					R	ange Save						
	Flexible Numbering Plan(106~109) 8 Digit Extension Table(238)			Index	Station Number	Туре	IP Address	MAC Address	New Station Number				
	o Digit Extension Table(200)			1	1000	LIP-8012E	10.10.10.10	00405a2e5176	1000				
	Station Data			2	1001	SLTM8 GW #1	10.10.10.11	b40edcb0a3ca	1001				
	Clatton Data			3	1002	SLTM8 GW #2	10.10.10.11	b40edcb0a3ca	1002				
	Board Based Data			4	1003	SLTM8 GW #3	10.10.10.11	b40edcb0a3ca	1003				
	CO Line Data			5	1004	SLTM8 GW #4	10.10.10.11	b40edcb0a3ca	1004				
	CO Line Data			6	1005	SLTM8 GW #5	10.10.10.11	b40edcb0a3ca	1005				
	System Data			7	1006	SLTM8 GW #6	10.10.10.11	b40edcb0a3ca	1006				
				8	1007	SLTM8 GW #7	10.10.10.11	b40edcb0a3ca	1007				
	Station Group Data			9	1008	SLTM8 GW #8	10.10.10.11	b40edcb0a3ca	1008				
	ISDN Line Data			10	1009	DTIM8 GW #1	10.10.10.12	b061c702d7ec	1009				
				11	1010	DTIM8 GW #2	10.10.10.12	b061c702d7ec	1010				
	SIP Data			12	1011	DTIM8 GW #3	10.10.10.12	b061c702d7ec	1011				
	Tables Data			13	1012	DTIM8 GW #4	10.10.10.12	b061c702d7ec	1012				
				14	1013	DTIM8 GW #5	10.10.10.12	b061c702d7ec	1013				
	Networking Data			15	1014	DTIM8 GW #6	10.10.10.12	b061c702d7ec	1014				
	H.323 Routing Table			16	1015	DTIM8 GW #7	10.10.10.12	b061c702d7ec	1015				
	n.525 Routing Lable			17	1016	DTIM8 GW #8	10.10.10.12	b061c702d7ec	1016				
	T-NET Data			18	1017				1017				
	7. 5.			19	1018				1018				
	Zone Data	•		20	1019				1019				

Figure 4.4.1.7-1 Flexible Station Number

Each iPECS IP and LDP Phone and SLT is assigned a logical order number, shown as the "Index" number on the Web page, during the registration process. The station Index number is

incremented from 1 as each terminal device is registered. At registration, station numbers increment sequentially with the index and are assigned starting at Station 100 for eMG80 and at Station 1000 for eMG800/UCP. The Station Numbering Plan allows the station numbers to be two (2) to eight (8) digits in length as long as the number of digits in the Station numbers is the same.

Setting CID Password directly

You can set the CID password to click "*Go to Setting*" button. After clicking it, you will move to the following PGM 162 and set the CID password, and then save CID password to mark tick on the save box and click the **[Save]** button.

CID Password :	Go to Setting	
Q PGM Search	0	Save
System ID & Numbering Plans	Keyset Admin Password (Save :)	
	Enter Current Keyset Admin Password	
Station Data	Enter New Keyset Admin Password (MAX 12 digits, include *** and #)	
Board Based Data	Confirm New Keyset Admin Password	
CO Line Data	Remote Access Password (Save :)	
	Enter Current Remote Access Password	
System Data	Enter New Remote Access Password (MAX 12 characters)	
Quarters Attributes (100, 101)	Confirm New Remote Access Password	
System Attributes(160~161) System Password(162)	CID Password (Save :)	
Alarm Attributes(163)	Enter Current CID Password	
Attendant Assignment(164)	Enter New CID Password (MAX 12 characters)	
Multicast IP/Port(165)	Confirm New CID Password	
DISA COS(166)		

4.4.1.8 Flexible Numbering Plan - PGM 106 ~ 109

Selecting Flexible Numbering Plan will display the input entry page. Selecting the blue colored text in the Table header will sort the table based on the selected column. Click **[Save]** button after changing Value to apply.

PGM Search O					Save
System ID & Numbering Plans V	Order ↓ª	Attribute ↓ª		Value	
System 1D & Numbering Plans V	1	Internal Page Zone	*301	- *400	
System ID(100)	2	Internal All Call Page	*543		
System Overview	3	Meet Me Page	*544		
Device Port Num Change(101)	4	External Page Zone - 1	*545		
System IP Plan(102)	5	External Page Zone - 2	*546		
Device IP Plan(103)	6	External All Call page	*548		
CO Device Sequence Number(104)	7 A	All Call Page	*549		
Flexible Station Number(105) Flexible Numbering	8	SMDR Account Code Enter	*550		
Plan(106~109)	9	Flash Command To CO Line	*551		
8 Digit Extension Table(238)	10	SLT Last Number Redial	*552		
	11	Do-Not-Disturb(DND)	*553		
Station Data	12	Call Forward	*554		
Board Based Data	13	Speed Dial Program	*555		
	14	Activate Message Wait/Call Back	*556		
CO Line Data	15	Message Wait/Call-Back Answer	*557		
System Data	16	SLT Speed Dial Access	*558		
Station Group Data	17	DND/FWD Cancel	*559		
station Group Data	18	SLT CO System Hold	*560		
SDN Line Data	19	SLT Program Mode Access	*561		
SIP Data	20	Attendant Unavailable	*562		
	21	AME Feature	*564		
ables Data	22	Alarm Reset	*565		
Networking Data	23	Group Call Pick-Up	*566		
1.323 Routing Table	24	Universal Night Answer	*567		
1.525 Nouting Table	25	Account Code With Bin	*568		

Figure 4.4.1.8-1 Flexible Number Plan

Feature dial codes for the system can be assigned using the system's Flexible Number Plan. Feature codes should be one (1) to four (4) digit in length and must not conflict. For example, Feature codes 53 and 536 represent a conflict. The system will not update the database until correct data is entered. Table 4.4.1.8-1 provides a brief description for each feature and the default codes as they appear in <u>Numbering Plan 2</u>. The default values for other numbering plans, which may be selected on the title "*System ID (100)*" and other numbering plan is described in Appendix B.

Order	ATTRIBUTE	DESCRIPTION	DEFAULT
1	Internal Page Zone	Internal Page Zone access codes.	eMG80:301~335 eMG800:*301~*400 UCP:*301~*400
2	Internal All Call Page	Internal All Call Page access code.	*543
3	Meet Me Page	Meet-Me-Page answer code.	*544
4	External Page Zone – 1	External Page Zone 1 access code.	*545

Order	ATTRIBUTE	DESCRIPTION	DEFAULT
5	External Page Zone – 2	External Page Zone 1 access code only for UCP.	*546
6	External All Call Page	External All Call Page access code.	*548
7	All Call Page	All Call Page access code.	*549
8	SMDR Account Code Enter	Dial code to signify the start of an SMDR Account Code.	*550
9	Flash Command To CO Line	Dial code to generate a Flash on the active CO Line.	*551
10	SLT Last Number Redial	SLT Last number redial feature access code.	*552
11	Do-Not-Disturb (DND)	Dial code to activate Do-Not-Disturb.	*553
12	Call Forward	Code to activate Call Forward.	*554
13	Speed Dial Program	SLT Speed Dial programming access code.	*555
14	Activate Message Wait/Call Back	Code to activate Message Wait/Call Back.	*556
15	Message Wait/Call-Back Answer	Code to return Message Wait/Call Back.	*557
16	SLT Speed Dial Access	SLT Speed Dial access code.	*558
17	DND/FWD Cancel	Code to cancel DND/FWD/MSG Wait.	*559
18	SLT CO System Hold	Code to place a CO Line call on System Hold.	*560
19	SLT Program Mode Access	SLT user program access code.	*561
20	Attendant Unavailable	Code to make attendant "unavailable".	*562
21	AME Feature	Dial code to assign an Answering Machine Emulation Flex button.	*564
22	Alarm Reset	Code to terminate an Alarm signal.	*565
23	Group Call Pick-Up	Group Call Pick-up code.	*566
24	Universal Night Answer	Universal Night Answer code.	*567
25	Account Code With Bin	Dial code for entering an Account Code.	*568
26	Walking COS	Dial code to activate Walking Class-of-Service.	*569
27	ACD Agent ON/OFF Duty	Code to toggle ACD Supervisor ON and OFF duty.	*571
28	ACD Supervisor Login	Supervisor log-in code.	*572
29	ACD Supervisor Logout	Supervisor log-out code.	*573
30	ACD Help Code	Agent & Supervisor code for Supervisor help.	*574
31	ACD Call In Queue Display	Dial code to display calls in queue.	*575
32	ACD Supervisor Status	Dial code to display group status.	*576
33	ACD Supervisor Monitor	Dial code to activate Supervisor monitor.	*577
34	ACD Reroute Queued Call Answer	Code to reroute call after answer.	*578
35	ACD Reroute Queued Call No Answer	Code to reroute call prior to answer.	*579
36	Camp-On Answer	Dial code to answer a Camped On call.	*621
37	Call Park Locations	Dial code to place/retrieve a call in a system Park Orbit.	eMG80:#601~#619 eMG800:#601~#800 UCP:#601~#800
38	Station Group Pilot Number	Station group pilot number.	eMG80: *401~*440 eMG800: *401~*500 UCP: *401~*500
39	Station User VSF Features Access	VSF feature access code.	66
40	Call Coverage Ring	Code for Call Coverage button.	*76

Order	ATTRIBUTE	DESCRIPTION	DEFAULT
41	Direct Call Pick-Up	Dial code to activate Directed Call Pick-up.	*77
42	Access CO Group	Dial code to access a CO Line from a group.	89
43	Access Individual CO/IP	Dial code to access a specific CO/IP Line.	88
44	Access Held CO/IP	Dial code to access the last CO/IP Line from Hold.	8*
45	Access Held Individual CO/IP	Dial code to access a specific CO/IP Line from Hold.	8#
46	Access CO In First CO Group	Dial code to access the 1 st available CO/IP Line in any accessible group.	9
47	Attendant Call	Dial code to call Main Attendant.	0
48	VM MSG Wait Enable	Dial code for external Voice mail to activate Message Wait indication.	*8
49	VM MSG Wait Cancel	Dial code for external Voice Mail to deactivate Message Wait indication.	*9
50	Door Open	Dial code to activate Door 1 contact.	#*1
51	Door Open	Dial code to activate Door 2 contact.	#*2
52	Door Open	Dial code to activate Door 3 contact only for UCP.	#*3
53	Door Open	Dial code to activate Door 4 contact only for UCP.	#*4
54	MCID Request	Dial code to activate Malicious Caller Id (Except USA version).	*0
55	Unsupervised Conf Timer Extend Code	Dial code to extend unsupervised conference time.	##
56	PTT Group Logon/Logoff	Push-To-Talk group login and logout dial code. The station must have a PTT button for proper operation.	#0
57	ACD Agent Primary Login	ACD Agent Primary Login code.	*581
58	ACD Agent Primary Logout	ACD Agent Primary Logout code.	*582
59	ACD Agent Secondary Login	ACD Agent Secondary Login Code.	*583
60	ACD Agent Secondary Logout	ACD Agent Secondary Logout Code.	*584
61	Wrap-up End	ACD Agent Wrap-up end code.	*585
62	T-NET CM LOGIN/OUT	T-NET CM Login/out code	*586
63	ENTER INTO CONF ROOM	Code for a station to enter a conference room.	*59
64	ENTER INTO CONF-GROUP	Code for a station to initiate a conference group.	*68
65	STATION ICR	Code for a station to activate ICR forward.	*587
66	PICK UP GROUP PICK-UP	Pick Up Group Call Pick-up dialing code.	*588
67	EMERGENCY PAGE	Code for emergency page.	*589
68	REMOTE MEX CONTROL	Code to control the mobile extension settings remotely.	*580
69	Agent ON/OFF Duty In ALL GRP	Code to change the state of the Agent ON/Off duty in all Station groups.	*58*
70	SLT ACNR	Dial code for an SLT to activate ACNR	*58#
71	ACD Supervisor Ring Mode	Code to check and change ACD group Ring mode by ACD group supervisor.	*570
72	Company Directory Name	Code to check and record a user's Name greeting for the Company Directory feature.	*563
73	ISDN Supplementary HOLD	ISDN Supplementary HOLD Numbering Plan Code.	*57*
74	ISDN Supplementary Conference	ISDN Supplementary Conference Numbering Plan Code (Not supported).	*57#

Order	ATTRIBUTE	DESCRIPTION	DEFAULT
75	Forced Channel Seize	Code to disconnect an existing call and seize the CO/IP Line or connect to the station.	*56*
76	Override DND/Forward	Dial code to override DND or Call Forward activated by a station.	*56#
77	Cancel call back	Code to cancel a Callback request.	
78	Transfer to VSF Number	While on a CO/IP Line call, this code may be used to transfer a call to a valid system announcement, [Transfer] + [*55*] + valid system announcement (01-200). The outside party receives the system announcement and DISA service activates.	*55*
79	CCR	It is used in digit conversion.	#2
80	Room Type Conf Group Join	After a UCS client activates a UCS Conference Group, other users may dial this code and the group number to enter the Conference.	5*0

4.4.1.9 8 Digit Extension Table - PGM 238

Selecting 8 Digit Extension Table will display the input entry page. Click [Save] button after changing Value to apply.

	PGM Base Function Base	< Fav	orite PGM	8 Digit Exte	×Q
	Q PGM Search				
	System ID & Numbering Plans V	Prefix U	sage : OFF 🔻		
	Custom (D(100)	Order	Feature	Value	Range
	System ID(100)	1	8 Digit String		Max 6 Digits
	System Overview Device Port Num Change(101)		Add Digit	0	0 - 4
	System IP Plan(102)	2	8 Digit String		Max 6 Digits
	Device IP Plan(102)	2	Add Digit	0	0 - 4
	CO Device Sequence Number(104)	2	8 Digit String		Max 6 Digits
	Flexible Station Number(105)	3	Add Digit	0	0 - 4
	Flexible Numbering Plan(106~109)		8 Digit String		Max 6 Digits
	8 Digit Extension Table(238)	4	Add Digit	0	0 - 4
	Station Data	5	8 Digit String		Max 6 Digits
<	Station Data	5	Add Digit	0	0 - 4
	Board Based Data	6	8 Digit String		Max 6 Digits
	CO Line Data	0	Add Digit	0	0 - 4
		7	8 Digit String		Max 6 Digits
	System Data	'	Add Digit	0	0 - 4
	Station Group Data	8	8 Digit String		Max 6 Digits
	ISDN Line Data	0	Add Digit	0	0 - 4
		9	8 Digit String		Max 6 Digits
	SIP Data	3	Add Digit	0	0 - 4
	Tables Data	10	8 Digit String		Max 6 Digits
		10	Add Digit	0	0 - 4
	Networking Data				

Figure 4.4.1.9-1 8 Digit Table

The iPECS system supports a Station Numbering Plan of up to eight digits. By combining a prefix digit string (8 Digit String) of up to six (6) digits with the Add Digit count (digit count from the Station Numbering assigned in PGM 105), Station Numbering can support up to eight digits. Note that multiple prefixes (8 Digit Strings) with varying ADD Digit counts can be assigned. In addition, in case of a conflict, the Prefix digit string will have priority over the Flexible Numbering Plan thus disabling the feature associated with the digit string but allowing the station to receive calls.

4.4.2 Station Data

Selecting the Station Data group will display the Station Data sub-menu displayed in the left frame as the below figure.

PGM Base Function Base	< Favorite PGM			
Q PGM Search O				
System ID & Numbering Plans	System Overview System ID & Numbe	System IP Plan(102) System ID & Numbe	Device IP Plan(103) System ID & Numbe	Common Attributes Station Data
Station Data V				
Station Type(110) Common Attributes(111)	Flexible Buttons(11 Station Data	Common Attributes CO Line Data	CO/IP Ring Assign CO Line Data	CID/CPN Attributes(CO Line Data
Terminal Attributes(112) CLI Attributes(113) Flexible Buttons(115/129)	System Attributes(1 System Data	System Password(1 System Data	Station Group Assi Station Group Data	Station Group Attri Station Group Data
Station COS(116) CO/IP Group Access(117)	Station Authorizati Tables Data	System Authorizati Tables Data	Flexible DID Conve Tables Data	
Internal Page Zone Overview Internal Page Zone(118) PTT Group Access(119)				
Preset Call Forward(120) Idle Line Selection(121)				
Station IP Attributes(122) Station Timers(123)				
Linked Station(124) Station ICM Group(125)				
Station VM Attributes (127)				
Station Personal CCR(128) Station Name Overview				
Station Name Display Station User Greeting				
Station Data Copy Station CTI IP Address				
Station Recording Infomation				

Figure 4.4.2-1 Station Data Main Page

4.4.2.1 Station Type - PGM 110

Selecting Station Type will display the Station Type data input entry page. Enter a valid station range and click **[Load]** to modify the Station Type data. Click **[Save]** button after changing Value to apply.

PGM Base Function Base	< Favorite PGM	Station Ty	/pe(110) × ℃		3
PGM Search C	Enter Station Range			2 Load	Save
System ID & Numbering Plans	Station Range 1000-	1045			
Station Data V	Station Number <u>↓</u> ^a	Station Type	Associated Station Number		
Station Data v	1000	[IPKTU ▼]			
Station Type(110)	1001	IPKTU 🔻			
Common Attributes(111)	1002	IPKTU T			
Terminal Attributes(112)	1003	IPKTU •			
CLI Attributes(113)	1004	IPKTU T			
Flexible Buttons(115/129)	1005	IPKTU T			
Station COS(116)	1006	IPKTU V			
CO/IP Group Access(117)	1007	IPKTU T			
Internal Page Zone Overview	1008				
Internal Page Zone(118)	1009				
PTT Group Access(119)	1010				
Preset Call Forward(120) Idle Line Selection(121)	1011				
Station IP Attributes(122)	1012				
Station Timers(123)	1012				
Linked Station(124)	1013				
Station ICM Group(125)					
Station VM Attributes (127)	1015				
Station Personal CCR(128)	1016	IPKTU T			
Station Name Overview	1017	IPKTU V			
Station Name Display	1018	IPKTU T			
Station User Greeting	1019	IPKTU T			
Station Data Copy	1020	IPKTU 🔻			
Station CTI IP Address	1021	IPKTU T			
Station Recording Infomation	1022	IPKTU •			
	1023	IPKTU •			
Board Based Data	1024				

Figure 4.4.2.1-1 Station Type

Each station is assigned a type selected from the "*Station Type*" drop-down menu. The type is used by the system to recognize the station's capability and set default Flex button configurations. In addition, for standard iPECS DSS/BLF consoles, the 'Associated Station Number' is required so the system will recognize the station that is used with the console. Note this is not used with the Serial DSS/BLF Consoles.

In case of selecting SLT type, there are 6 types as below:

- · SLT (DTMF)
- · SLT (Pulse)
- SLT (DTMF VOL-MW)
- · SLT (Pulse-MW)
- SLT (DTMF FSK-MW)
- · SLT (DTMF POL-MW)

4.4.2.2 Common Attributes - PGM 111

Selecting Common Attributes will display the common attributes data input page. Enter a valid station range and click the **[Load]** button to enter Common Attributes data.

Use the check boxes to indicate which attributes to define; data for checked attributes is stored for the entire range of stations by clicking **[Save]** button after changing Value.

PGM Base Funct	ion Base	< F	avorite PGM	Common Attributes×		
PGM Search	0	Enter St	ation Range :		C Load	Save
System ID & Numbering Plan	s	Station I	Range 1000			
Station Data	~	Order ⊥a	Check All	Attribute <u>↓</u> ª	Value	Range
		1		Keyset Admin Access	Enable •	
Station Type(110)		2		CO PGM	Enable •	
Common Attributes(111)		3		Automatic Hold	ON V	
Terminal Attributes(112) CLI Attributes(113)		4		Auto Transfer By Button	ALL	
Flexible Buttons(115/129)		5		Individual CO Access	Enable •	
Station COS(116)		6		CO/IP Line Queuing	Enable •	
CO/IP Group Access(117)		7		Ringing Line Preference	Enable •	
Internal Page Zone Overvie	w	8		Speed Dial Access	Enable •	
Internal Page Zone(118)		9		Alarm / Door Bell	Disable •	
PTT Group Access(119)		10		Station Account	OFF V	
Preset Call Forward(120)		11		Forced SMDR Account Code	OFF T	
Idle Line Selection(121)		12		Loop LCR Account	OFF T	
Station IP Attributes(122)		13	0	Door Open		
Station Timers(123)					Enable •	
Linked Station(124)		14		Flex Button PGM		
Station ICM Group(125)		15		Prefer CO or Group		Access Code
Station VM Attributes (127)		16		Emergency CO or Group		Access Code
Station Personal CCR(128)		17		ICM Tenancy Group Number	1	0-100
Station Name Overview Station Name Display		18		Call Time Restriction	OFF V	
Station User Greeting		19		PROCTOR MONITORING Power-Failure	OFF V	
Station Data Copy		20		Line Release Cost Display	OFF V	
Station CTI IP Address		21		Active PTT Group Number		0-9
Station Recording Infomation	on	22		Hot Desk Station	OFF V	
~		23		SMDR Hidden Dialed Digits	Disable •	
Board Based Data		24		Left Message to Executive	ON V	
		25		Station Web Level		

Figure 4.4.2.2-1 Common Attributes

Common Attributes define features and functions available to the station. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to the following table for a description of the features and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Keyset Admin Access	When enabled, the station can access the system Database.	Disable Enable	Enable
CO PGM	A station can be permitted to change the CO/IP Line numbers (ports) associated with a Flexible button.	Disable Enable	Disable
Automatic Hold	Enables Auto Hold for the station. With Auto Hold enabled, the system will place an active external call on hold if the user presses a CO/IP Line or DSS button.	OFF ON	ATD: ON Others: OFF
Auto Transfer By Button	Transfer a talking call to a new making call by pressing Station (DSS)/CO (Loop)/U-Loop flexible button.	OFF ALL	ALL

Table 4.4.2.2-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		Except CO to CO	
Individual CO Access	Permits stations to use dial codes to access individual CO/IP Lines.	Disable Enable	Enable
CO/IP Line Queuing	Permits the station to queue for the next available Line when an All Lines Busy signal is received.	Disable Enable	Enable
Ringing Line Preference	Enables Ringing Line Preference for the station. Calls that ring the telephone can be answered by going off-hook without selecting the CO/IP Line button.	Disable Enable	Enable
Speed Dial Access	Allows the station to access System Speed Dial bins.	Disable Enable	Enable
Alarm/Door Bell	Assigns a station to receive Alarm/Door Bell signal.	Disable Enable	Disable
Station Account	When ON, the station user must enter an authorization code to access CO/IP Lines.	OFF ON	OFF
Forced SMDR Account Code	When On, the user must enter an Account code to place an outgoing call.	OFF ON	OFF
Loop LCR Account	The Station may be required to enter a Station Authorization code to access LOOP LCR operation.	OFF ON	OFF
Door Open	Enables use of Door open feature by station.	Disable Enable	Enable
Flex Button PGM	The ability to assign Flexible buttons of the iPECS IP and LDP Phones can be controlled. When allowed here, the user may assign features to Flexible buttons but requires special assignments to configure CO/IP Line buttons.	OFF ON	ON
Prefer CO or Group	The System will seize this CO/IP Line or a Line from the CO/IP group number when the station dials "9" (First available Co access code)	CO/IP Line/ CO Group number	Access code
Emergency CO or Group	This field defines the CO/IP Line or Group employed by the system to place Emergency Assistance calls.	CO # or CO Group #	Any CO
ICM Tenancy Group	Assigns stations to an ICM Tenancy Group.	eMG80:1~15 eMG800:0~32 UCP:0~100	1
Call Time Restriction	All outgoing calls will disconnect at expiration of the Call Restrict Timer. The Cut-Off Timers can be set the time for Station and CO Line. For cut off timer of Station, refer to the title " <i>Station Timers (123)</i> ". For CO line, refer to the title " <i>CO</i> <i>Line data: Common Attributes (144)</i> ".	OFF ON	OFF
Proctor Monitoring Power-Fail	Enables use of PABX ANI Link device for E-911 support, Only an SLT port can be used for this feature.	OFF ON	OFF
Line Release Cost Display	When a CO/IP line is released, the disconnect cause or call- cost is displayed in the LCD of iPECS IP or LDP Phone.	OFF ON	OFF
Active PTT Group Number	A station can be assigned to a PTT (Push-to-Talk) group and the group enabled so the station can place and receive PTT announcements for the group.	0~9	
Hot Desk Station	A station (only IP Phone) can be assigned as a Hot Desk phone. Users and agents can login and use resources of the system through the Hot Desk phone.	OFF ON	OFF
SMDR Hidden	If this feature enables, the dialed digit can be hided on SMDR	Disable	Disable

Table 4.4.2.2-1 Common Attributes

ATTRIBUTE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULI
Dialed Digits	output.	Enable	
	When a call forwards to the Secretary of an	055	
Left Message to	Executive/Secretary pair, messages can be left for the	OFF	ON
Executive	Executive (ON) or Secretary (OFF).	ON	
	Based on this level, the user will be able to view the specified		
	programs within the Station User Web portal. Level 1 can view		
Station Web Level	all programs, Levels 2 and 3 are configured in the title	LEVEL 1 ~ LEVEL 3	LEVEL 2
	"System data: Station Web Authorization". This is a Web only		
	PGM.		
	When a page announcement is received, it is normally played		
Headset page	over the Speaker of the iPECS IP or LDP Phone. For headset	SPKR/	0
mode	users, the page can played to the headset or both the headset	HEADSET/	Speaker
	and speaker.	BOTH	
D	When employing a non-ISDN terminal, specifically a modem		
Progress	or analog FAX, the ISDN call SETUP message must include	OFF	OFF
Indication	this message and "Progress Indication" should be set to "ON".	ON	
	When an analog device (SLT or FAX) uses an ISDN Line in		
	the system, the Information Element of the ISDN SETUP	0.77	OFF
3.1 KHz Audio	message must indicate the device only has 3.1 KHz audio	OFF	
	capabilities. If an SLT or analog FAX will be allowed access to	ON	
	the ISDN Lines, this parameter must be "ON"		
	When a station receives a call, the DSS/BLF button at other	OFF ON	
Diskus hy flavible	stations will flash and, if allowed, other stations may use the		
Pickup by flexible	button to answer (pick-up) the call.		ON
button	ON: User can pick up by DSS button.		
	OFF: User can't pick up by DSS button.		
	It is useful feature for user to pay the money within the budget	OFF	
Prepaid Call	(Prepaid) for outgoing calls. For more information, refer to the		OFF
	below feature "Prepaid money".	ON	
	An amount can be associated with the station as prepayment		
Prepaid Money (0	for outgoing calls. The assigned "Pre-paid Money" is reduced	000000 -	0
- 999999)	by the calculated call cost (Call Metering or cost/minute). This	999999	0
&	parameter displays the remaining funds for outgoing calls.		
Used Prepaid	Prepaid Money is often used in small hospitality businesses.	000000 -	0
Money	The "Used Pre-paid Money" displays the money that has been	999999	Ū
	used.		
SIP USER TABLE	These fields reference the index to the SIP User ID Attributes		0
INDEX	Table. The referenced SIP User ID may be employed for		Ŭ
SIP USER TABLE	several of the SIP headers for outgoing calls and may be	eMG80:0~140	0
INDEX2	employed for incoming call routing as configured in the SIP	eMG800:0~1200	Ŭ
	CO Attributes PGM 133, "ID Assigned Station".	UCP:0~2400	
SIP USER TABLE	Up to three SIP User Id indices can be assigned to each		0
INDEX3	station to permit the use of up to three SIP Trunk service		-
	providers.		
Station Web	User can select the desired language for Station Web.	English/	English
Language		Local language	0
Lift Handset for	If an iPECS IP or LDP Phone user attempts to page using the	OFF	ON
page	speakerphone, pre-selection will be activated and the display	ON	
	shows "Lift Handset for Page when Lift Handset for Page is		

DESCRIPTION

DEFAULT

RANGE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	ON". If Lift Handset for Page is OFF, then User can make page on speakerphone without lift handset.		
Privacy	If Privacy is ON, then any person could not barge-in to the station and also Attendant can't intrude to Station. Also, if Privacy is ON, any person can't forcefully disconnect the station.	OFF ON	OFF
	Call Coverage Attributes		
Call Coverage Mode	The Call Coverage feature permits an iPECS IP or LDP Phone user to receive ring and answer calls for other stations.	OFF ON	OFF
Call Coverage Delay Ring	When a covered station rings, the {CALL COVERAGE} button LED will flash at the covering station and the station will receive ring (immediate or delayed by 0 to 15 ring cycles).	0~15	0
Call Coverage On Busy	OFF: Call Coverage is implemented when a covered station is in the idle state. ON: Call Coverage is implemented when a covered station is on idle or busy state.	OFF ON	ON
Call Coverage Through Mobile Extension	OFF: Call Coverage Ring is not delivered to Mobile Extension ON: Call Coverage Ring is not delivered to Mobile Extension	OFF ON	ON
Call Coverage On Busy Range	External Call Only: Call Coverage only for external calls when the covered station is busy External and Internal Call: Call Coverage both for external & internal calls when the covered station is busy	External Call Only/ External and Internal Call	External Call Only
Call Coverage Delay Ring Method	by Originator: Call Coverage Delay is implemented by the covered station's "Call Cover Delay Ring" delay count' by Member: Call Coverage Delay is implemented by covering station's "Call Cover Delay Ring" delay count'	by Originator/ by Member	by Originator
Call Coverage For Wakeup Ring	OFF: Wakeup Ring to covered station is not covered ON: Wakeup Ring to covered station is covered	OFF ON	OFF
Call Coverage Ring Type on Member	Silence: No audible ring is presented and the user must press the flashing Call Coverage button to answer the call. Normal Ring: Audible ring is presented and the call can be answered by simply lifting the handset or pressing the Speaker button. Mute ring is only supported in LIP-8000E series.	Silence/ Normal Ring/ Muted(Continuo us)-80XXE only/ Muted(One Burst)-80XXE only	Normal Ring
	Tone/Ring Attributes		
Call Time Tone	A tone can be sent periodically with indicating the elapsed time of an outgoing CO/IP call. The Elapsed Call Timer determines the period between tones. For more information about Elapsed Call timer, refer to the title "System data: System timer (180~182, 186)".	OFF ON	OFF
Camp-on Tone	When the Camp-on feature is enabled for the station, if the station is busy and receives a Camp-on request, the LCD indicates the camped on call. In addition, if Camp-on tone is enabled, the Camp-On tone is sent to the station as an audible signal for the camp-on.	OFF ON	ON
ICM Dial Tone	One of four dial tone sources can be selected for each station.	Dial Tone/	Dial Tone

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Source		Internal music/	
		External music/	
		VSF MOH/	
		SLT MOH1~5/	
		VSF MOH2/	
		VSF MOH3	
		Ring Back Tone/	
		Internal music/	
ICM Ring Back		External music/	Ring Back
Tone Source	One of four ring back tones can be selected for each station.	VSF MOH/	Tone
		SLT MOH1~5/	
		VSF MOH2~3	
		BURST/	
	While the station is Off hook ring, the type of ring can be	MUTE/	Refer to
Off hook ring type	adjusted as a single burst, muted normal ring, system ring or	Refer to System	System
	no audible ring signal.	Attributes	attributes
		SILENCE	
	With a SIP based AA/VM that supports color ring, color ring		
	may be provided to SIP pones. The group number associated		Station
SIP color ring	with the external AA/VM should be entered as the SIP Color		number
	Ring source.		
	Selects one of three Tables employ to set the gain from a		
Gain table index	device to other device types. PGM 410 to 417 under the	1-3	1
	Maintenance tab set the individual gains.		
	Selects one of five Tables to determine the tones sent to the		
Tone table index	Station. The individual tones are configured in PGM 410 to	1-5	1
	417 under the Maintenance.		
Digit conversion	One of the Digit Conversion Tables can be configured for use	eMG80:1-15	
table	for this CO/IP Line.	eMG800:1-32	
		UCP: 1-32	
	Routing Attributes		
Call Forward	When allowed, Call Forward can be activated by the station.	OFF	OFF
		ON	
	Enables DND to be activated by the station. The station can	OFF/	
DND	be limited to activate DND for outside calls (CO/IP Only) or for	ALL/	OFF
	internal calls (ICM only), if desired.	ICM call only/	
		CO call only	
	A station must be allowed Off-Net Fwd to forward external	D	
Off-net Forward	incoming calls outside the system or otherwise establish a	Disable	Enable
	CO-to-CO connection (Unsupervised Conference). (Except	Enable	
	USA version)	0.5-5	
ACD Group	When unavailable, DID/DISA calls to the station can route to	OFF	OFF
Service	the ACD Group to which the station is a member.	ON	
Ring Group	When unavailable, DID/DISA calls to the station can route to	OFF	OFF
Service	the Ring Group to which the station is a member.	ON	
	ACD Group members may be assigned a priority, 0-9.		
ACD Login Priority	Members with the highest priority are sent calls ahead of	0~9	0
	lower priority members. This field is the same as PGM 191-		
	button 19.		

Table 4.4.2.2-1	Common	Attributes
-----------------	--------	------------

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Prime Line	This feature enables Delayed Prime Line (Idle Line) activation; see the title " <i>Idle Line Selection (121)</i> " and "System data: System timer: Prime Line Delay timer (180~182 & 186)".	HOT WARM	WARM
Auto ACD DND	If an Agent does not answer an ACD call in the ACD No Answer timer, the Agent enters an Unavailable state with the Reason code entered here. The reason code is sent in ACD Event messages.	None #, *, 1~9	NONE
Forward if OOS	If a station is Out-of-Service and has previously forwarded calls, the system will forward the calls to the previous destination if enabled here.	OFF ON	OFF
LDT Table Index	LCR operation for the station will employ the LDT Table index defined by this entry.	eMG80: 1-10 eMG800:1-32 UCP:1-32	1
LDT Zone number	If the LDT Zone Number of a LDT table (LCR LDT(221)) is equal to this value, the LDT table is available to this station.	1-100	1
Mobile (Web) Client Service	When enabled, the station can activate call back from the Station Web portal.	Disable, Enable	Disable
Click to call service	To use click call application, it should be enabled.	Disable, Enable	Disable
MS Lync RCC service	To use MS Lync RCC, it should be enabled.	Disable, Enable	Disable
MSN Wait	When a call that is corresponding to a MSN Telephone Number comes in to system, the call is basically routed to idle stations that have free MSN button that is assigned for the corresponding Telephone Number. And also the call can be routed to busy stations in the following condition. OFF : if a keyset is in a busy status, cannot receive incoming MSN Telephone Number corresponding call even though it has a free(idle) corresponding MSN LOOP Button ON : if a keyset is in a busy status, can receive incoming MSN Telephone Number corresponding call if it has a free(idle) corresponding MSN LOOP Button.	OFF ON	OFF
DID Restriction	A call routed using DID normally routes to the appropriate station. If desired, a Station can be restricted from receiving DID calls.	OFF ON	OFF
DISA Restriction	A call routed using DISA normally routes to the appropriate station. If desired, a Station can be restricted from receiving DISA calls.	OFF ON	OFF
Pre-Selected Msg DND	When the user activates Pre-Selected or Custom Messages, the system can automatically activate DND for the station so that the station will not receive ring and the call is routed based on the DND treatment.	OFF ON	OFF
	Voice Attributes		
Page Access	Stations must be allowed Page access to send a page over the system's Paging facilities.	OFF ON	OFF
Forced hands Free Mode	When placing an intercom call, a user can change the ICM signaling mode, Tone Ring to Hands free answer mode or HF Answer to Tone Ring.	OFF ON	OFF
0 1:		D : 11	

Table 4.4.2.2-1 Common Attributes

Disable

Enable

Enables Group Listen feature, audio is sent to both the

Group Listening

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	handset and speaker with the handset microphone active and speakerphone microphone OFF.	Enable	
Override Privilege	Enables intrusion to gain access to an active CO/IP call.	Disable Enable	Disable
Voice Over	Enables use of Voice Over by the station.	Disable Enable	Enable
Barge In Mode	Barge-in permits an authorized Station to intrude into other existing outside/internal calls or to force disconnection existing of an existing call.	Disable/ Only Monitor/ Monitor & Join & Disconnect	Disable
Camp on enable	Station can receive a Camp-on while busy. If 'Camp On Tone' is enabled, the stations receive Camp-on tone, otherwise only the LCD will indicate the camp on call. If the station is not allowed to receive a Camp-On, the calling user receives error tone.	OFF ON	ON
Video Show on Calling (ex. IP Video Door Phone)	 When VoIP video door phone rings to a video-enabled IPKTS handset, the video streaming commences immediately while the IPKTS handset is in the ringing and the video stream continues when answered. OFF : normal implementation (video starts after answer) ON: video stream from this Video Door Phone to the ringing video-enabled LIP Phone even though this is alerting stage. Condition: A VOIU/VOIB channel for RTP-Packet-Relay purpose is required to serve ring-back-tone generation via a DSP channel. That is because system does pre-answer to the Video Door Phone even though the receiving station is on alerting state. 	OFF ON	OFF

Table 4.4.2.2-1 Common Attributes

4.4.2.3 Terminal Attributes - PGM 112

Selecting Terminal Attributes will display the Terminal Attributes data input page. Enter a valid station range and click **[Load]** to enter Terminal Attributes data. Use the check boxes to indicate which attributes to define; data for checked attributes is stored for the entire range of stations by clicking **[Save]** Button after changing Value.

		vorite PGM	Terminal Attributes(×			
PGM Search O	Enter Sta	tion Range :		2 L	oad	Save
system ID & Numbering Plans	Station R	ange 1000				
tation Data	Order <u>↓</u> a	Check All	Attribute <u>↓</u> ^a	Value	Range	
	1		Auto Speaker Selection	ON V		
Station Type(110)	2		No Touch Answer	OFF V		
Common Attributes(111)	3		ICM Signaling Mode	TT		
Terminal Attributes(112)	4		Headset Ring	Speaker •		
CLI Attributes(113)	5		Speaker / Headset	Speaker •		
Flexible Buttons(115/129)	6		LCD Display LED	MWI/Ring •		
Station COS(116)	7		Message Scroll Speed	3	0-7	
CO/IP Group Access(117)	8		EarMic Headset(LDP/LIP7000 Only)	OFF T		
Internal Page Zone Overview	9		Enblock Mode	OFF V		
Internal Page Zone(118)	10		Back Light Usage	BUSY ONLY		
PTT Group Access(119) Preset Call Forward(120)	11		By-Pass DTMF	OFF T		
Station ICR Scenario (1201)	12	0	Serial DSS Usage	Enable V		
Idle Line Selection(121)			Howler Tone			
Station IP Attributes(122)	13			ON V		
Station Timers(123)	14		Flex Button Page	Use 3 Page V	Max LIP 3/LDP 2	
Linked Station(124)	15		Align LCD	Not Align 🔻		
Station ICM Group(125)	16		Small Popup Use	OFF V		
Station VM Attributes (127)	17		Large Popup Timer	0	0-5 sec	
Station Personal CCR(128)	18		Message Wait Indication LED	MWI All		
Station Name Overview	19		NFC Authcode Use	ON V	LIP 9071	
Station Name Display	20		LCD Dimming Apply	OFF V	LIP 9000/LDP 9240	
Station User Greeting	21		UCS ACD USE	OFF V	for Standard UCS's	
Station Data Copy	22		UCS CRM USE	OFF V	for Standard UCS's	
Station CTI IP Address	23		UCS DIALING RULE USE	OFF V	for Standard UCS's	
Station Recording Infomation	24		UCS MOBILE DIAL USE(ANDROID's)	OFF T	for Standard UCS's	

Figure 4.4.2.3-1 Terminal Attributes (PGM 112)

Terminal Attributes define features and functions available to the terminal itself. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to the following table for a description of the features and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
Auto Speak	Enables [SPEAKER] activation when a CO/IP Line, DSS or	OFF		
Selection	other feature button is pressed; there is no need to lift handset.	ON	ON	
No-Touch Answer	Enables No-touch answer, which automatically connects	OFF	OFF	
	transferred calls to the station's speakerphone after a short tone.	ON		
ICM signaling Mode	The user may select Hands-free (H), Privacy (P) or Tone Ring (T) for the ICM Signaling mode.	H,		
		Τ,	Т	
		Р		

Table 4.4.2.3-1 Terminal Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Headset Ring	The user can select how to receive Incoming ring signals among Speaker, Headset or Both.	Speaker/ Headset/ Both	Speaker
Speaker/Headset	The user can select between Speaker and Headset for Call.	Speaker/ Headset/	Speaker
LCD Display LED	The LCD LED, upper left of LCD, may be used for Intercom Call ring Indication or both Message Wait and ring Indication.	MWI/Ring, Ring	MWI/Ring
Message Scroll Speed	The user can adjust the scroll speed on message from 0 to 7.	0 ~7	3
Ear & Mic Headset	The user can use Ear Microphone Headset for Internal or external calls if the phone has the Ear. Microphone headset port.	OFF ON	OFF
Enblock mode	When On, the user-dialed digits are stored at the iPECS IP or LDP Phone until explicitly sent by the user. When sent, all dialed digits are sent to the system in a block. Enblock mode is only available to iPECS IP or LDP Phones with 3-Soft keys.	OFF ON	OFF
Back Light Usage	The backlight of iPECS IP and LDP Phones is assigned to stay off, light only when the station is busy, or light constantly. Please check the phone if the feature is available before setting this option.	Always Off/ Busy Only/ Always On	Busy Only
By Pass DTMF	When detected, DTMF from an SLT may be regenerated by CO/IP Line interface circuitry, the SLT port can by-pass detection so DTMF is not detected.	OFF ON	OFF
Serial DSS Usage	Enables an LIP-8000/LIP-9000 station to have a Serial DSS/BLF Console attached.	Disable Enable	Enable
Howler Tone	Howler tone can be sent to a phone when left off-hook.	OFF ON	ON
Flex Button Page	The iPECS LIP-9030 and 9040 have 8 and 12 Flexible buttons, respectively. Additional Flex buttons are available using Flex button pages. The phone can have up to 3 pages each with the 8 or 12 Flex buttons. Thus, an LIP-9030 can have 24 Flex buttons and the LIP-9040 can have 36 Flex buttons. The Navigation Up/Down button is used to scroll through the Flex buttons pages assigned.	Use 1 Page Use 2 Page Use 3 Page	Use 3 Page
Align LCD	For the iPECS LIP-9010/20/30/40, character alignment for messages to the phone can be right or left aligned by the system, or alignment controlled by the phone ("Not Align"). For the other phone, please check if the feature is available before using this option.	Not Align Align Left Align Right	Not Align
Small Popup Use	If this option is set to ON, small popup is displayed on the LCD of LIP-9030/9040. If it is set to OFF, top bar is displayed instead of small popup.	OFF ON	OFF
Large Popup Timer	When Large popup timer is set to any value from 1 to 5 except 0, the display of large popup is disappeared after the timer expired and then the large popup information is displayed at top bar.	0~5 (Sec.)	0
Message Wait Indication LED	User can program MWI (Message Wait Indication) LED according to the following type:	MWI All, VM MWI,	MWI ALL

Table 4.4.2.3-1 Terminal Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	 MWI All: LED is blinking about all calls and Message VM MWI: blinking in case of getting Voice mail CLI MWI: blinking in case of Calling Line Identification SMS MWI: blinking in case of getting Short message 	CLI MWI,: SMS MWI, ICM MW	
	5. ICM MWI: blinking in case of Incoming call		
NFC Authorization code Use	If this option is ON, User enters Authorization code to use NFC function for LIP-9071.	OFF ON	ON
LCD Dimming Apply	If this option is ON, LCD dimming is available only for LIP-9000 Series and LDP-9240D. LCD is dark when the phone is paused so some light is needed. So we provide the dimmable lights.	OFF ON	OFF
UCS ACD Use	If the ACD (Automatic Call Distribution) option is set to ON, the ACD menu is displayed on Tools of UCS. UCS can use ACD login/logout and ACD On/Off Duty.	OFF ON	OFF
UCS CRM Use	If the CRM (Customer Relationship Management) option is set to ON, the CRM menu is displayed and CRM installation tray icon is displayed on Tools of UCS. UCS can use CRM function after installation CRM integration.	OFF ON	OFF
UCS DIALING RULE USE	UCS client user can use 'Dialing Rule' of UCS client such as CO Access, PBX code, Country Code, Area code, International Call, Long distance call, Add zero setting, etc. by setting ON. But, if this option is OFF, UCS Client user follows 'System Dialing Rule' such as Digit Conversion and LCR.	OFF ON	OFF
UCS MOBILE DIAL USE (ANDROID'S)	This option is only for Android UCS Client. If this option is ON, UCS client user can place a call by using UCS client application. But, if this option is OFF, UCS client user places a call by Mobile Network (Commnuication network where the last link is wireless).	OFF ON	OFF
	SLT Attributes		
Data Security	Disables override and camp-on tones to the station. This feature is commonly used for an analog modem or FAX to assure tones do not affect received information.	OFF ON	OFF
ECM Faxes in T.38	ECM stands for Error Correction Mode. If you failed to send something via Faxes, you can send it again until it is successful.	Allow, Prevent	Allow
MODEM Enable	When an SLT port is connected to a Modem, the port can be enabled for Modem operation. This will activate Echo Cancellation and disregard any Camp-on/Call Wait to improve modem performance.	OFF ON	OFF
SLT CID TYPE	Caller ID can be sent to an SLT as FSK or DTMF signals.		FSK
Send SLT CLI Info	When allowed, the system sends CLI (Calling Line Identification) information to SLT.	OFF ON	ON
SLT Flash Mode	 When an SLT activates a Hook-flash the system will perform one of the following operations: Flash Transfer – the active call placed on hold and the dial tone is returned. Flash-Drop – the active call is dropped. Flash-Ignore – the Hook-flash is ignored, no action is taken. Hold Release – the active call is placed on hold and if the SLT returns to idle the call is dropped. 	Flash xfer/ Flash Drop/ Flash Ignore/ Hold Release	FlashTransf er

Table 4.4.2.3-1 Terminal Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		Default,	
SLT configuration	For the South African region, the SLT gain is adjusted based on	Short,	Default
mode	the SLT Configuration Mode.	Long,	Delault
		Far	
Block Back Call	When an SLT attempts to transfer a CO/IP call to another CO/IP	OFF	OFF
DIOCK DACK CAII	Line, the transfer can be blocked and the call released.	ON	OFF
SLT Open Loop	Send open loop signal to SLT port when counter party user	0~9	0
Time	hangs up SLT.	(100ms)	0
	If this value of a SLT is ON, the SLT is the modem mode in		
	seizing a CO line.		
	When the CO line is CO board, the {short modem timer} is		
Short Modem	starting when the SLT seizes the co line. And if the {short	OFF	OFF
Short woden	modem timer} is expired, the SLT goes to the original mode.	ON	OFF
	When the CO line is ISDN, the {short modem timer} is starting		
	after receiving the ISDN connect message. And if the {short		
	modem timer} is expired, the SLT goes to the original mode.		
Lina Taha	When LKA-200 SLT is used, the echo may be hearing. If this	OFF	
Line Echo	option is set to ON, the echo won't be happen.	ON	OFF

 Table 4.4.2.3-1 Terminal Attributes

4.4.2.4 CLI Attributes - PGM 113

Selecting CLI Attributes will display the CLI Attributes data input page. Enter a valid station range and click **[Load]** to enter CLI Attributes data. Use the check boxes to indicate which attributes to define; data for checked attributes is stored for the entire range of stations by clicking **[Save]** Button after changing Value.

			CELI Attributes(115)					
PGM Search C	C Enter Station Range : Coad							
stem ID & Numbering Plans	Station R	ange 1000						
ation Data 🗸 🗸	Order <u>↓</u>	Check All	Attribute <u>↓</u> ª	Value	Range			
	1		Call Wait	For External/Internal •				
Station Type(110)	2		Call Wait Signal Continuous	OFF V				
Common Attributes(111)	3		Call Wait Signal Duration(*3sec.) Of A Call	2	0~20(*3sec)			
Terminal Attributes(112)	4		CLIP Display	ON V				
CLI Attributes(113)	5		COLP Display	ON T				
Flexible Buttons(115/129)	6		CLIR Service	OFF V				
Station COS(116)	7		COLR Service	OFF •				
CO/IP Group Access(117)	8		CLI Name Display	ON T				
nternal Page Zone Overview	9		CLI/IP Message Wait	OFF T				
nternal Page Zone(118) PTT Group Access(119)	10		FAST CLI For Transfer Call	OFF T				
Preset Call Forward(120)	11		E.164 Call Log CLI (for SIP Extension)	OFF T				
Station ICR Scenario (1201)			CID Password	Go to Setting				
dle Line Selection(121)	12		Station CLI 1	1000	Max 12 Digits			
Station IP Attributes(122)				1000	-			
Station Timers(123)	13		Station CLI 2		Max 16 Characters			
inked Station(124)	14		Station CLI 3		Max 16 Characters			
Station ICM Group(125)	15		Station CLI 4		Max 16 Characters			
Station VM Attributes (127)	16		Station CLI 5		Max 16 Characters			
Station Personal CCR(128)	17		CLI/Redirect Display	Original CLI 🔹				
Station Name Overview	18		Station or Attendant	Station •				
Station Name Display	19		CPN type	NOT SEND V				
Station User Greeting	20		CLI Name Preference	NET V				
Station Data Copy	21		Display Restricted Caller Number	OFF •				
Station CTI IP Address Station Recording Infomation	22		Display Full CLI	ON V				

Figure 4.4.2.4-1 CLI Attributes (PGM 113)

CLI Attributes define features and functions available to the station. Generally, the entry will turn the feature ON (enable) or OFF (disable) or enter is made in the text box. Refer to the following table for a description of the features and the input required.

Setting CID Password directly

You can set the CID password to click **[Go to Setting]** button. After clicking it, you will move to the following PGM 162 and set the CID password, and then save CID password to mark tick on the save box and click **[Save]** button.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Call Wait	When a busy station receives a call, the call may queue to the station instead of receiving busy treatment. With Call Wait, the caller will hear Ring-back tone and the CO/IP Line LED flashes. Also, the CLI for the new incoming call displays.	OFF, For External/Internal, For External, For Internal	For External/Internal

Table 4.4.2.4-1 CLI Attributes

Table 4.4.2.4-1 CLI Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Call wait signal continuous	When this filed set On, you will get the indication of Call wait signal continuously without returning to the current conversation. In case of Off, you will return to the current conversation after 1 cycle of Call wait signal indication.	ON, OFF	OFF
Call wait signal duration (*3sec.) of a call	You can set the call wait signal duration of a waiting call: the default is 2 (2*3sec.) and the range is from 0 to 20.	0-20 (*3sec)	2
CLIP Display	CLIP (Calling Line Identification Presentation), a carrier service, sends the number of the calling party to the system in the call SETUP message. If enabled here, the number will be shown in the iPECS Phone LCD.	OFF ON	ON
COLP Display	COLP (Connected Line Id Presentation), a carrier service, sends the number of the answering party to the system in the call CONNECT message. If enabled here, the number will be shown in the iPECS Phone LCD.	OFF ON	ON
CLIR Service	CLIR (Calling Line Identification Restriction), a carrier service, removes calling party ID sent from the ISDN to the called party with a RESTRICT instruction in the SETUP message. If enabled here, the system will send the RESTRICT instruction to the PSTN when an outgoing ISDN call is placed.	OFF ON	OFF
COLR Service	COLR (Connected Line Id Restriction), a carrier service, removes connected party ID sent from the ISDN to the calling party with a RESTRICT instruction in the CONNECT message. If enabled here, the system will send the restrict instruction to the PSTN when the station answers an ISDN call.	OFF ON	OFF
CLI Name Display	When the Incoming CLI data from the carrier matches a number in Speed Dial, or Outgoing dial data from a user matches a number in Speed Dial, the system can display the name associated with the Speed Dial bin, if set to ON.	OFF ON	ON
CLI/IP Message Wait	A log of missed calls with caller identification can be maintained for the user, permitting the user to call back the identified party. Up to 1000 entries are maintained in the log, system-wide.	OFF ON	OFF
FASTCLI For Transfer Call	If this option is set to ON, when a transferred call is routed to an SLT or DECT phone, the CLI for the CO/IP call is sent to the SLT or DECT phone instead of transferring station number.	OFF ON	OFF
E.164 Call Log CLI	When enabled, the E.164 format CLI is sent to SIP	OFF	OFF
(for SIP Extension) Station CLI 1	Extensions for an incoming CO/IP call. When not restricted by CLIR or COLR, this entry is added to the number in the selected COIP/CLIP Table and sent in the ISDN call SETUP or CONNECT message in place of the station number.	ON Max. 12 digits	eMG80:100 eMG800:1000 UCP:1000
Station CLI 2 Station CLI 3 Station CLI 4	When not restricted by CLIR or COLR, this entry is added to the number in the selected COIP/CLIP Table and sent in the ISDN call SETUP or CONNECT	Max. 16 characters	Related with PGM 143 – Station CLI

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station CLI 5	message in place of the station number.		Туре
CLI / Redirect Display	When an incoming call is Redirected in the carrier's network, the call SETUP message will contain an original and redirected CLI. This selection determines if the iPECS IP and LDP Phone will display the original or redirected number.	Original CLI/ Redirect CLI	Original CLI
Station or Attendant	When the system sends a station number with CLIP or COLP, the number can be either the Attendant number or the number of the station.	Station Attendant	Station
СРМ Туре	NOT SEND: CPN is not sent to S0 interface. STATION NUMBER: Station number is sent as CPN to S0 interface. BYPASS FROM NET: Incoming CPN is sent as CPN to S0 interface.	Not send, Station number, By pass from NET	Not send
CLI Name Preference	NET: If CLI name is provided from network, then it is displayed. If CLI name is not provided from network, the matched Speed name is displayed. SPD: If CLI is matched with Speed bin and it has name, then the matched Speed name is displayed. If CLI is not matched or matched Speed name is not configured, CLI name from network is displayed.	NET, SPD	NET
Display Restricted Caller Number	When {Display Restricted Caller Number} in CLI Attributes (113) of a station is ON, although the caller number is restricted in ISDN message, the ringing station displays the caller number.	OFF ON	OFF
Display Full CLI	The system provides CLI information by displaying on LCD. If this option is ON, the full CLI information is displayed on the second line of LCD. If this option is OFF, the CLI information is displayed from the left to the center on the second line partially. It means the CLI information is limited so that the full CLI can't be displayed.	OFF ON	ON

Table 4.4.2.4-1 CLI Attributes

4.4.2.5 Flexible Buttons - PGM 115/129

Selecting Flex Buttons will display the Flex buttons data input page. Enter a valid Station range and click **[Load]** to enter Flex button data. For convenience, the copy, paste, and drag is available to enter or modify data. Please click **[Save]** button after entering or modifying data to apply.

F	PGM Base Function Base	<	Favorite PGM	Flexible E	Buttons(1	
	PGM Search C	Ent	er Station Range :			
	System ID & Numbering Plans	Sta	tion Range 1000			
	Station Data V		Flex Button Number	Туре	Value	Label
	Station Data V		1	CO Line 🔻	1	
	Station Type(110)		2	CO Line 🔻	2	
	Common Attributes(111)		3	CO Line 🔻	3	
	Terminal Attributes(112)		4	CO Line 🔻	4	
	CLI Attributes(113)		5	CO Line V		
	Flexible Buttons(115/129)		6	CO Line V		
	Station COS(116)	_				
	CO/IP Group Access(117)		7	CO Line ▼		
	Internal Page Zone Overview			CO Line ▼		
	Internal Page Zone(118)		9	CO Line ▼		
	PTT Group Access(119)		10	CO Line 🔻	10	
	Preset Call Forward(120)		11	Loop 🔹		
	Station ICR Scenario (1201)		12	Loop 🔹		
	Idle Line Selection(121)					
	Station IP Attributes(122)					
	Station Timers(123)					
	Linked Station(124)					
	Station ICM Group(125)					
	Station VM Attributes (127)					
	Station Personal CCR(128)					
	Station Name Overview					
	Station Name Display					
	Station User Greeting					
	Station Data Copy					
	Station CTI IP Address					
	Station Recording Infomation					

Figure 4.4.2.5-1 Flex Buttons Assignment

Each Flex button for each iPECS IP and LDP Phone and DSS Console can be assigned a function (TYPE) as below. After selecting the Type for a button, enter the value, if required. The types available from the drop-down menu are shown are shown in Table below. In addition, for the LIP Phone models 8040, 8050, 9070, 9071 and the LSS Console models, a label can be assigned that is used as the designation for the button in the LCD of the phone.

ТҮРЕ	REMARK
N/A	Empty (unassigned), may be defined by the user.
CO Line	Assigns button to access a defined CO/IP line.
CO Group	Assigns button to access a free line in the CO/IP Group.
Loop	Assigns button to access a loop line.
Station Number	Assigns button as DSS/BLF for the assigned station number.
Programming (Numbering Plan)	Assigns button to dial a code from the Flexible Numbering Plan, see Appendix section.

Table 4.4.2.5-1 FLEX BUTTON TYPE & VALUE

Table 4.4.2.5-1 FLEX BUTTON TYPE & VALUE

ТҮРЕ	REMARK
Programming (PGM)	Assigns button to perform a User Program function from the Fixed Numbering Plan, Appendix section.
Station Speed Bin	Station Speed Dial bin.
System Speed Bin	System Speed Dial bin.
Net Station Number	Refer to Network Numbering Plan Table - PGM 324.
U-Loop	U-Loop button for call wait of internal & external call

4.4.2.6 Station COS - PGM 116

Selecting Station COS will display the Station COS data input page. Enter a valid station range and click **[Load]** to enter the Station COS data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

	PGM Base Function B	ase	< Favori	te PGM St	ation COS(116) <mark>×</mark>			×
٩	PGM Search	0	Enter Stati	on Range :			2 Load	Save
	System ID & Numbering Plans		Station Ra	nge 1000-1045				
	Station Data	~	Order <u>↓</u> a	Check All	Attribute	Value		
	Station Data		1		Day COS	1 •		
	Station Type(110)		2		Night COS	1 •		
	Common Attributes(111)		3		Timed Ring COS	1 •		
	Terminal Attributes(112)							
	CLI Attributes(113)							
	Flexible Buttons(115/129)	_						
	Station COS(116)							
	CO/IP Group Access(117)							
	Internal Page Zone Overview							
	Internal Page Zone(118)							
<	PTT Group Access(119)							
	Preset Call Forward(120)							
	Idle Line Selection(121)							

Figure 4.4.2.6-1 Station COS

In case of PGM 116 is in condition of limited service mode due to License issue, the default value is 7 for all COS type.

All stations are assigned a Class-of-Service (COS), which determines the ability of the user to dial certain types of calls, refer to Table 4.4.2.6-1. Separate COS assignments are made for Day, Timed and Night Mode operation. As a default all stations are assigned with a Station COS of 1 for all modes, no restrictions. The station COS interacts with the CO Line COS to establish overall dialing or Toll restrictions. This interaction and the resulting restrictions are given in Table 'Station/CO COS'.

Long distance calls are determined by the first dialed digit ("0" or "1") and the number of digits dialed. If the first digit dialed is a LD code, default "0" or "1", or, if the number of digits dialed exceeds the assigned LD digit counter in '*System Data SMDR Attributes section*', the call is considered a Long Distance call and appropriate restrictions applied.

STATION	RESTRICTIONS
1	No restrictions are placed on dialing from the station.
2	The assignments in Exception Table A are monitored for allow and deny numbers.
3	The assignments in Exception Table B are monitored for allow and deny numbers.
4	The assignments in both Exception Tables A & B are monitored for allow and deny numbers.
5	The leading digit dialed cannot be a Long Distance code, default "0" or "1", and further denied/allowed based on Exception Table C.
6	The leading digits dialed cannot be a Long Distance code & digit count cannot exceed the LD digit counter, default 7 digits, and further denied/allowed based on Exception Table C.

Table 4.4.2.6-1 STATION COS

Table 4.4.2.6-1 STATION COS

STATION	RESTRICTIONS
7	Intercom and paging calls are allowed. No outgoing dialing except for emergency calls is allowed on CO Lines.
8	The assignments in the Exception Table D are monitored for allow and deny numbers.
9	The assignments in the Exception Table E are monitored for allow and deny Numbers
10	The assignments in the Exception Table D & E are monitored for allow and deny numbers.
11	The assignments in the Exception Table A & B and D & E are monitored for allow and deny numbers.

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 1	No Restriction	No Restriction	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STA COS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STA COS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call (LD code/counter) and Table C	No Restriction
STA COS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call (LD code/counter) and Table C	No Restriction
STA COS 5	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Only Local Call (LD code/counter) and Table C	No Restriction
STA COS 6	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	No Restriction
STA COS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only
STA COS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STA COS 9	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STA COS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction
STA COS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call (LD code/counter) and Table C	No Restriction

Table 4.4.2.6-2 STATION/CO COS

4.4.2.7 CO/IP Group Access - PGM 117

Selecting CO/IP Group Access will display the CO/IP Group Access data input page. Enter a valid station range and click **[Load]** to enter CO/IP Group Access data. Check the appropriate boxes to allow or delete access to each CO/IP Group. Click **[Save]** button after changing Value to apply.

PGM Base Function Ba	e Favorite PGM CO/IP Group A X	
Q PGM Search	Enter Station Range :	Load Save
System ID & Numbering Plans	Station Range 1000-1045	
Station Data	CO/IP Group Unselect	All
Station Data	Group 1	
Station Type(110)	Group 2	
Common Attributes(111)	Group 3	
Terminal Attributes(112)	Group 4	
CLI Attributes(113)	Group 5	
Flexible Buttons(115/129)	Group 6	
Station COS(116)	Group 7	
CO/IP Group Access(117)	Group 8	
Internal Page Zone Overview		
Internal Page Zone(118)	Group 9	
PTT Group Access(119)	Group 10	
Preset Call Forward(120)	Group 11	
Idle Line Selection(121)	Group 12	
Station IP Attributes(122)	Group 13	
Station Timers(123)	Group 14	
Linked Station(124)	Group 15	
Station ICM Group(125) Station VM Attributes (127)	Group 16	
Station Personal CCR(128)	Group 17	
Station Personal CCR(120) Station Name Overview	Group 18	
Station Name Display	Group 19	
Station User Greeting	Group 20	
Station Data Copy	Group 21	
Station CTI IP Address	Group 22	
Station Recording Infomation		
Board Based Data	Group 24	

Figure 4.4.2.7-1 CO/IP Group Access

Stations can be allowed or denied access to CO Lines and IP Channels by group (eMG80: 20 & eMG800/UCP: 200). As a default, all stations are allowed access to all groups except Private Lines (group 00) and unused CO Lines. The CO Line is assigned as a Private Line by default.

4.4.2.8 Internal Page Zone Access - PGM 118

Selecting Internal Page Zone will display the Internal Page Zone data input page. Enter a valid station range and click **[Load]** to enter the Internal Page Zone Access data. Check the appropriate boxes to allow or delete access to each Internal Page Zone. Click **[Save]** button after changing Value to apply.

PGM Base Function E	e Favorite PGM Internal Pa	ge Z <mark>X</mark>		
Q PGM Search	C Enter Station Range :		2 Load S	ave
System ID & Numbering Plans	Station Range 1000-1045			
Station Data	Internal Page	Select All		
Station Data	Internal Page Zone 1			
Station Type(110)	Internal Page Zone 2			
Common Attributes(111)	Internal Page Zone 3			
Terminal Attributes(112)	Internal Page Zone 4			
CLI Attributes(113)	Internal Page Zone 5			
Flexible Buttons(115/129)	Internal Page Zone 6			
Station COS(116)	Internal Page Zone 7			
CO/IP Group Access(117)	Internal Page Zone 8			
Internal Page Zone Overview	Internal Page Zone 9			
Internal Page Zone(118) PTT Group Access(119)	Internal Page Zone 10			
Preset Call Forward(120)	Internal Page Zone 11			
Idle Line Selection(121)	Internal Page Zone 12			
Station IP Attributes(122)	Internal Page Zone 13			
Station Timers(123)	Internal Page Zone 14			
Linked Station(124)	Internal Page Zone 15	0		
Station ICM Group(125)	Internal Page Zone 15			
Station VM Attributes (127)	ů – Č			
Station Personal CCR(128)	Internal Page Zone 17			
Station Name Overview	Internal Page Zone 18			
Station Name Display	Internal Page Zone 19			
Station User Greeting	Internal Page Zone 20			
Station Data Copy	Internal Page Zone 21			
Station CTI IP Address Station Recording Infomation	Internal Page Zone 22			
Station Recording miomation	Internal Page Zone 23			
Board Based Data	Internal Page Zone 24			
Doard Dabou Data	Internal Page Zone 25			

Figure 4.4.2.8-1 Internal Page Zone

Each iPECS IP and LDP Phone is assigned to receive announcements from each Internal Page Zone. A station can be assigned to any, all or no zones. Note a remote station or a station not assigned to any Internal Zone will not receive any page announcements including Internal All Call. As a default, all stations except remote stations are assigned to zone 1.

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PGM Base Function B	ase	< Favo	rite PGM Internal Page Z×
Q PGM Search	Ο	Internal Page	Member List
System ID & Numbering Plans Station Data	~		1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1054, 1055, 1056, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1054, 1055, 1056,
Station Type(110) Common Attributes(111) Terminal Attributes(112) CLI Attributes(113) Flexible Buttons(115/129) Station COS(116)		Internal Page Zone 1	1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1097, 1080, 1087, 1082, 1083, 1084, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198
CO/IP Group Access(117) Internal Page Zone Overview		Internal Page Zone 2	
Internal Page Zone(118) PTT Group Access(119) Preset Call Forward(120)		Internal Page Zone 3	
Idle Line Selection(121) Station IP Attributes(122)		Internal Page Zone 4	
Station Timers(123) Linked Station(124) Station ICM Group(125)		Internal Page Zone 5	
Station VM Attributes (127) Station Personal CCR(128)		Internal Page Zone 6	
Station Name Overview Station Name Display		Internal Page Zone 7	
Station User Greeting Station Data Copy Station CTI IP Address		Internal Page Zone 8	
Station Recording Infomation		Internal Page Zone 9	
Board Based Data		Internal Page	

Figure 4.4.2.8-2 Internal Page Zone overview

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4.4.2.9 PTT Group Access - PGM 119

Selecting PTT Group Access will display the PTT Group Access data input page. Enter a valid Station range and click **[Load]** to enter the PTT Group Access data. Check the appropriate boxes to allow or delete access to each PTT Group. Click **[Save]** button after changing Value to apply.

PGM Base Function	Base	< Favorite PGM PTT	Group Acc×	
PGM Search	Θ	Enter Station Range :		2 Load
System ID & Numbering Plans		Station Range 1000-1045		
Station Data	~	Internal Page	Select All	
tation Data		PTT Group 1		
Station Type(110)		PTT Group 2		
Common Attributes(111)		PTT Group 3		
Terminal Attributes(112)		PTT Group 4		
CLI Attributes(113)		PTT Group 5		
Flexible Buttons(115/129)		PTT Group 6		
Station COS(116)		PTT Group 7		
CO/IP Group Access(117)		PTT Group 8		
Internal Page Zone Overview		PTT Group 9		
Internal Page Zone(118)		PTT Group 0		
PTT Group Access(119)	_	PTT Group 0		
Preset Call Forward(120)				
Idle Line Selection(121) Station IP Attributes(122)				
Station Timers(123)				
Linked Station(124)				
Station ICM Group(125)				
Station VM Attributes (127)				
Station Personal CCR(128)				
Station Name Overview				
Station Name Display				
Station User Greeting				
Station Data Copy				
Station CTI IP Address				
Station Recording Infomation				

Figure 4.4.2.9-1 PTT Group Access

Each iPECS IP or LDP Phone is assigned to receive PTT announcements from any combination of the ten (10) PTT groups. Note a station not assigned to any group will not receive PTT page announcements including Internal All PTT group page. As a default, all stations except remote stations are assigned to group 1.

4.4.2.10 Preset Call Forward - PGM 120

Selecting Preset Call Forward will display the Preset Call Forward data input page. Enter a valid station range and click **[Load]** to enter the Station Preset Call Forward data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

	PGM Base Function Ba	se	< Favori	ite PGM	Preset Call For		
٦	PGM Search	Θ	Enter Stati	ion Range :			2 Load
s	ystem ID & Numbering Plans			nge 1000-104	5		
s	tation Data	~	Order <u>↓</u> a	Check All	Call Forward Type	[Destination
			1		Unconditional	N/A 🔻]:[
	Station Type(110)		2		Internal Busy	N/A 🔻):[
	Common Attributes(111)		3		Internal No Answer	N/A 🔻):[
	Terminal Attributes(112)		4		Internal DND	N/A 🔻	
	CLI Attributes(113)		5		External Busy	N/A •	
	Flexible Buttons(115/129)		6		External No Answer	N/A •	
	Station COS(116)		7		External DND	N/A T]:[
	CO/IP Group Access(117)		8		Transfer to Mail Box	Station Group •	FFFF
	Internal Page Zone Overview	_		_			
	Internal Page Zone(118)						
-	PTT Group Access(119)	_					
	Preset Call Forward(120)						
	Idle Line Selection(121)						
	Station IP Attributes(122)						
	Station Timers(123) Linked Station(124)						
	Station ICM Group(125)						
	Station VM Attributes (127)						
	Station Vin Attributes (127) Station Personal CCR(128)						
	Station Name Overview						
	Station Name Display						
	Station User Greeting						
	Station Data Copy						
	Station CTI IP Address						

Figure 4.4.2.10-1 Preset Call Forward

Stations can be programmed so that incoming CO/IP and Intercom calls forward to a preset station or station group. This allows an external or internal call to initially ring at a station and forward to a pre-determined destination. Preset Forward can be separately assigned Unconditional, Internal Busy, Internal No Answer, Internal DND, External Busy, External No Answer, External DND preset forwarding to any station, Station group, system speed dial bin (offnet) or Station ICR. As a default, no Preset Call Forward is assigned.

For "Transfer Mail-Box" enter the Station Group number of the Voice Mail group (external VM, VSF or Feature Server Voice Mail group). This will permit other users to transfer calls directly to the desired user's Voice Mailbox.

4.4.2.11 Station ICR Scenario - PGM 1201

Q PGM Search	•	Favorite PGN	I	Station ICR Scenario (12,×		
System ID & Numbering Plans Station Data	Er	ter Station Range : [C Load		Save
	St	ation Range 1000				
Station Type(110)	In	dex Attribu	te	Value	Range	Del
Common Attributes(111)		Call Profile Tal	ole Usage	0	0~3 (0:Deactive CP)	
Terminal Attributes(112)		Caller ID		N/A • :	Max 23 Digits	
CLI Attributes(113) Flexible Buttons(115/129) Station COS(116)		Time Condition	I	Start Date - End Date MON TUE WED THU FRI SAT SUN ALL Holiday Start Time - End Time	YYYY-MM-DD format hhmm (Must be 4 digits) 0000-235	;9
CO/IP Group Access(117) Internal Page Zone Overview	() Destination		N/A	Max 23 Digits	
Internal Page Zone Overview		Scenario Priori	ty		0~9 (0:highest priority)	
PTT Group Access(119)		Forwarding fro	n NET Call	Yes T		
Preset Call Forward(120)		Call Profile Tal	ole Idx	0	0~3 (0:Deactive CP)	
Station ICR Scenario (1201)		Call Profile Tin	ier	10	10~60 sec	
Idle Line Selection(121)		Caller ID		N/A T:	Max 23 Digits	
Station IP Attributes(122) Station Timers(123) Linked Station(124)		Time Condition	I	Start Date - End Date MON TUE WED THU FRI SAT SUN ALL Holiday Start Time - End Time	YYYY-MM-DD format	;9
Station ICM Group(125)		Destination		N/A T: CO Value Dial Digit	Max 23 Digits	
Station VM Attributes (127)		Scenario Priori	tv		0~9 (0:highest priority)	
Station Personal CCR(128)		Forwarding fro	·	Yes T	(,	
Station Name Overview Station Name Display		Call Profile Tal		0	0~3 (0:Deactive CP)	
Station User Greeting		Call Profile Tin	ner	10	10~60 sec	
Station Data Copy		Caller ID		N/A T:	Max 23 Digits	
Station CTI IP Address Station Recording Information		Time Condition	I	Start Date - End Date MON TUE WED THU FRI SAT SUN ALL Holiday	YYYY-MM-DD format	-
Board Based Data		D. C. C			hhmm (Must be 4 digits) 0000-235	
	-			N/A • : CO Value Dial Digit	Max 23 Digits	_
CO Line Data		Scenario Priori	*		0~9 (0:highest priority)	
System Data		Forwarding fro				
	-	Call Profile Tal	ole Idx	0	0~3 (0:Deactive CP)	

Selecting Station ICR Scenario displays the input entry page.

Figure 4.4.2.11-1 Station ICR Scenario

Station ICR is an extension of call forward where the user enters scenarios to define the call forward feature. Each station has ten (10) routing scenarios that define conditions for routing a user's incoming calls. Each scenario may define time of day, day of week, date, caller ID and destination for incoming calls. In addition, the scenarios may be prioritized; calls are routed to the destination with the highest priority-matching scenario.

4.4.2.12 Idle Line Selection - PGM 121

Selecting Idle Line Selection will display the Idle Line Selection data input page. Enter a valid Station range and click **[Load]** to enter the Idle Line Selection data. Check the appropriate radial button and enter the value for the Idle Line Selection. Click **[Save]** button after changing Value to apply.

		î				
	PGM Base Function B	ase	< Favorite PGM	Idle Line Selec×		×
c	PGM Search	0	Enter Station Range :		2 Load	Save
	System ID & Numbering Plans		Station Range 1000-10			
	Station Data	~	Destination	Value		
-		- 1	No Selection			
	Station Type(110)		Flex Button			
	Common Attributes(111)		CO Line			
	Terminal Attributes(112)		CO Group			
	CLI Attributes(113)		Station/Net			
	Flexible Buttons(115/129)		Station Group			
	Station COS(116)		Station Speed			
	CO/IP Group Access(117)		System Speed			
	Internal Page Zone Overview		- cycloni opoda			
<	Internal Page Zone(118)					
	PTT Group Access(119)					
	Preset Call Forward(120)	_				
	Idle Line Selection(121)					
	Station IP Attributes(122)					
	Station Timers(123)					
	Linked Station(124)					
	Station ICM Group(125)					
	Station VM Attributes (127)					
	Station Personal CCR(128)					
	Station Name Overview					
	Station Name Display					
	Station User Greeting					
	Station Data Copy					
	Station CTI IP Address					
	Station Recording Infomation					

Figure 4.4.2.12-1 Idle Line Selection

When a station goes to an off-hook condition (lifts handset or presses **[SPEAKER]** button), the system normally provides intercom dial tone. In place of dial tone, the station can be programmed to access a CO Line, CO/IP Group or call a Station or Station Group as described in Table 4.4.2.12-1 when the station goes off-hook. The Idle Line Selection (Prime Line) can be either immediate or delayed after going off-hook. The immediate/delay selection is based on the Hot/Warm assignment in '*Common Attributes - Prime Line*'.

TYPE	DESCRIPTION
No Selection	Returns Intercom dial tone.
Flex Button	Flex button, activates Flex button as if pressed.
CO Line	CO/IP path seizes CO line.
CO/IP Group	CO/IP Group, seizes CO line from the CO/IP Group.
Station/Net	Station, calls the assigned station.
Station group	Station group, calls the assigned station group.
Station speed	Station speed, calls the assigned station speed.
System speed	System speed, calls the assigned system speed.

Table 4.4.2.12-1 IDLE LINE SELECTION TYPE & VALUE

4.4.2.13 Station IP Attributes - PGM 122

Selecting Station IP Attributes will display the Station IP Attributes data input page. Enter a valid Station range and click **[Load]** to enter the Station IP Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

	PGM Base Function B	ase	< Favorite	PGM Station	IP Attri ×			×
٩	PGM Search	Θ	Enter Station	Range :		2	Load	ave
	System ID & Numbering Plans		Station Range					
	Station Data	~	Change	Attribute Direct IP Call	Value Enable •			
<	Station Type(110) Common Attributes(111) Terminal Attributes(112) CLI Attributes(113) Flexible Buttons(115/129) Station COS(116) CO/IP Group Access(117) Internal Page Zone Overview Internal Page Zone (118) PTT Group Access(119) Preset Call Forward(120) Idle Line Selection(121) Station IP Attributes(122) Station Timers(123) Linked Station(124) Station ICM Group(125) Station VIM Attributes (127) Station VIM Attributes (127) Station Name Overview Station Name Display Station User Greeting Station Data Copy Station CTI IP Address Station Recording Information							

Figure 4.4.2.13-1 Station IP Attributes

Stations are allowed access to the systems VoIP resources based on the Station IP Attributes.

4.4.2.14 Station Timers - PGM 123

Selecting Station Timers will display the Station Timers input page. Enter a valid Station range and click **[Load]** to enter the Station Timers data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Base	Function Base		< Favo	orite PGM	Station Timers(
M Search	6	•	Enter Sta	tion Rang	e :		2	Load
stem ID & Numb	ering Plans		Station R	-				-
Station Data	~		-	Change		Value		Range
		- 11	1		Station Forward No Answer Timer			000-600
Station Type(110)		2		Cut Off Timer	0	(*1min)	00-99
Common Attribut	es(111)							
Terminal Attribute	es(112)							
CLI Attributes(11	3)							
Flexible Buttons(115/129)							
Station COS(116	1							
CO/IP Group Acc	ess(117)							
Internal Page Zor	e Overview							
Internal Page Zor	ie(118)							
PTT Group Acces	ss(119)							
Preset Call Forwa	rd(120)							
Idle Line Selectio	n(121)							
Station IP Attribu	tes(122)							
Station Timers(1	23)							
Linked Station(12	4)							
Station ICM Grou	p(125)							
Station VM Attrib	utes (127)							
Station Personal	CCR(128)							
Station Name Ov	erview							
Station Name Dis	play							
Station User Gree	eting							
Station Data Cop	/							
Station CTI IP Ad	ldress							
Station Recording	1.6							

Figure 4.4.2.14-1 Station Timers

Certain timers can be assigned on a station basis. Available timers, description and valid inputs are given in the below table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station Forward No Answer Timer	This timer set the duration that the station will ring prior to Ring-No-Answer Forward. This setting affects both manual and ' <i>Preset Call Forward</i> ' and overrides ' <i>Call forward No Answer timer in System</i> <i>timer of System data</i> '.	000-600 (seconds)	000
Cut Off Timer	Allowed length of CO/IP calls when station is assigned ' <i>Call Time restriction in Common Attributes of Station data</i> '.	00-99 (minutes)	00

Table 4.4.2.14-1 STATION TIMERS (PGM 123)

4.4.2.15 Linked Station - PGM 124

Selecting Linked Station will display the Linked Station input page. Enter a valid Station range and click **[Load]** to enter the Linked Station data. Click **[Save]** button after changing Value to apply.

				tion(124) ×					
PGM Search	Θ	Enter Station Range :			2	Load			Save
System ID & Numbering Plans		Station Range 1000-10						-	
Station Data	~	Station Number <u>↓</u> a 1000	MAC Address	IP Address	Router IP Address	Mode	ARP	Register	Codec
							OFF •	Multicast •	G.711 •
Station Type(110)		1001					OFF T	Multicast 🔻	G.711 V
Common Attributes(111)		1002					OFF T	Multicast •	G.711 T
Terminal Attributes(112)		1003					OFF T	Multicast 🔻	G.711 •
CLI Attributes(113)		1004					OFF T	Multicast 🔻	G.711 •
Flexible Buttons(115/129)		1005					OFF T	Multicast •	G.711 •
Station COS(116)		1006					OFF T	Multicast 🔻	G.711 •
CO/IP Group Access(117)		1007					OFF T	Multicast •	G.711 •
Internal Page Zone Overview		1008					OFF T	Multicast 🔻	G.711 V
Internal Page Zone(118)		1009					OFF T	Multicast •	G.711 V
PTT Group Access(119)		1010					OFF T	Multicast •	G.711 •
Preset Call Forward(120) Idle Line Selection(121)		1011					OFF T	Multicast •	G.711 •
Station IP Attributes(122)		1012					OFF T	Multicast •	G.711 V
Station Timers(123)		1012					OFF T	Multicast •	G.711 ▼
Linked Station(124)		1013							
Station ICM Group(125)							OFF •	Multicast •	G.711 ▼
Station VM Attributes (127)		1015					OFF •	Multicast •	G.711 •
Station Personal CCR(128)		1016					OFF •	Multicast •	G.711 •
Station Name Overview		1017					OFF T	Multicast 🔻	G.711 •
Station Name Display		1018					OFF T	Multicast 🔻	G.711 T
Station User Greeting		1019					OFF T	Multicast 🔻	G.711 •
Station Data Copy		1020					OFF T	Multicast •	G.711 •
Station CTI IP Address		1021					OFF T	Multicast •	G.711 •
Station Recording Infomation		1022					OFF •	Multicast •	G.711 •
		1023					OFF T	Multicast •	G.711 V

Figure 4.4.2.15-1 Linked Station Pair

For UCS Client, it is recommended that PGM 443 be employed for an unregistered (MAC Linked pair) station. When unregistered station linking is used, the linked station does not reduce the system's capacity. However, in this case, the linked station must be an iPECS IP Phone. Unregistered linking is allowed only to an iPECS IP Phone. Once UCS Client is linked, it will display in this Web page as well as in PGM 103 and 443.

If the station is assigned to Master or Slave by linked station, the bracket '[M] or [S]' will be displayed by the station number in PGM 101, 103, 105, 124 of Web page.

To link registered stations, the Personal Group feature is used and configured in PGM 260 and 261.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
MAC Address	Set MAC address of linked un-registered station, required data. Note the secondary station must not be registered in the system prior to linking. If needed, delete the device from the system prior to linking.		
IP Address	The IP Address of the linked station.	IPv4 address	

Table 4.4.2.15-1 LINKED STATION TABLE

iPECS eMG80 & eMG800 & UCP Administration and Programming Manual

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Router IP Address	Set the Router IP address for a linked station.	IPv4 address	
Mode	Display operating mode of the station, remote or local and NAT or NAPT.	Remote: R/NAPT R/NAP R Local remote LO/NAPT LO/NAP LO/NAP LO Local L/NAPT L/NAP L/NAP L	L (Local)
ARP	If set OFF, the system will employ layer 2 switching over the LAN to communicate with the linked station. If set ON, the system will employ ARP (Address Resolution Protocol) to determine the IP address of the device, if required, and communicate using IP.	OFF ON	OFF
Register	Normally, iPECS IP devices register using multi-cast packets. When separated from the system, that is when the device is remote, unicast is used.	Multicast Unicast	Multicast
Codec Type	A specific Codec type can be configured for the station.	G.711/ G.723.1/ G.729/ System, use the codec defined for the system	G.711

4.4.2.16 Station ICM Group - PGM 125

Selecting Station ICM Tenancy Group displays the Station ICM Tenancy Group input page. Select ICM Tenancy Group and click **[Load]**, the system will display the ICM Tenancy Group Characteristics. Enter the Station number of the group Attendant and check the appropriate box to allow calling to the group. Click **[Save]** button after changing Value to apply.

	PGM Base Function Base	Favorite PGM Station ICM Grox
۹	PGM Search	C Enter ICM Tenancy Group No (1 - 100) : Load
5	system ID & Numbering Plans	ICM Tenancy Group 1
s	Station Data	ATD STA Number :
		Select All Set Access Group
	Station Type(110)	Access Group 1
	Common Attributes(111)	Access Group 2
	Terminal Attributes(112)	Access Group 3
	CLI Attributes(113)	Access Group 4
	Flexible Buttons(115/129)	Access Group 5
	Station COS(116)	Access Group 6
	CO/IP Group Access(117)	Access Group 7
	Internal Page Zone Overview	Access Group 8
	Internal Page Zone(118) PTT Group Access(119)	Access Group 9
	Preset Call Forward(120)	Access Group 10
	Idle Line Selection(121)	Access Group 11
	Station IP Attributes(122)	Access Group 12
	Station Timers(123)	Access Group 12
	Linked Station(124)	Access Group 13
	Station ICM Group(125)	
	Station VM Attributes (127)	Access Group 15
	Station Personal CCR(128)	Access Group 16
	Station Name Overview	Access Group 17
	Station Name Display	Access Group 18
	Station User Greeting	Access Group 19
	Station Data Copy	Access Group 20
	Station CTI IP Address	Access Group 21
	Station Recording Infomation	Access Group 22
F	loard Based Data	Access Group 23
	Joard Date	Access Group 24

Figure 4.4.2.16-1 Station ICM Group

Stations can be assigned to an ICM group under '*Common Attributes section*'. Up to 15 Tenant groups for eMG80 (up to 32 for eMG800 and up to 100 for UCP) can be defined. Each group is configured to allow or deny placing intercom calls, including transfers, to stations in other groups and an Attendant station can be defined for each group. The Attendant will receive "dial 0" calls and controls Day/Night mode for the group.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Tenancy ATD	Attendant station for the ICM Tenant group. ATD receives dial '0' calls and controls Day/Night Service.	Station No.	
Group Access	ICM tenancy groups allowed access by stations of the selected group.	eMG80:1~15 eMG800:1~32 UCP:1~100	1

Table 4.4.2.16-1 STATION ICM GROUP ATTRIBUTES

4.4.2.17 Station Voice Mail Attributes – PGM 127

Selecting VM Attributes displays the Station Voice Mail Attributes input page. Enter a valid Station range and click **[Load]** to enter the Station Voice Mail Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

PGM Base Function Base	< Fa	vorite PGM	Station VM Attribut		
PGM Search	Enter Sta	tion Range :		2 Load	Save
system ID & Numbering Plans	Station R	ange 1000-1045			
Station Data V	Order <u>↓</u> a	Check All	Attribute <u>↓</u> a	Value	Range
Auton Data			Basic At	tributes	
Station Type(110)	1		VSF Access	Enable •	
Common Attributes(111)	2		Two Way Record	OFF V	
Terminal Attributes(112)	3		VM Device Slot Seq.		3001
CLI Attributes(113)	4		Multi Language	Prompt1	
Flexible Buttons(115/129)	5		Pre-Sel Msg Language	Prompt1	
Station COS(116)	6		Default VM group number	FFFF	
CO/IP Group Access(117)	7		Automatic Talk Recording Option	OFF T	
Internal Page Zone Overview	8		Automatic Talk Recording Destination		
Internal Page Zone(118)	9		VSF MSG Date/Time	ON V	
PTT Group Access(119) Preset Call Forward(120)	10		VM Password Check	Password only	
Idle Line Selection(121)	11		VMID Number	1000	Max 8 Digits
Station IP Attributes(122)	12		Retrieve MSG Method	LIFO V	inax e bigite
Station Timers(123)	13		Wake-Up Announcement	0	0 - 200 (0 : Unused
Linked Station(124)	14		Two Way Record Announcement	0	0 - 200 (0 : Unused
Station ICM Group(125)	14		Message Wait Notice(MWI, CLI, VM)	Tone •	0 - 200 (0 . Onused
Station VM Attributes (127)	15		Enhanced		
Station Personal CCR(128)	1		VM Message No	000 (New: 000 , Saved: 000 , Urgent: 00	0.)
Station Name Overview	2		VM COS		.,
Station Name Display	3		Administrator MailBox	Disable V	
Station User Greeting	4		Announce only MailBox	Disable •	
Station Data Copy	4				
Station CTI IP Address		-	Announce only Option	Previous Menu 🔻	N 40.01 - 1
Station Recording Infomation	6		Company Directory - First Name		Max 12 Characters
oard Based Data	7		Company Directory - Last Name		Max 12 Characters
oard based Data	8		Message Rewind/Fast-Forward Time	04	3-99 (sec)

Figure 4.4.2.17-1 Station VM Attributes

The Station VM Attributes are divided into three sub-sections. The Basic Attributes assign general characteristics of the Station's Voice Mail and announcements. Enhanced Attributes assign characteristics including VM COS, notification, cascading and Company Directory Names. The E-Mail Notification section defines various SMTP server data such as the Station and System E-mail account data.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	Basic Attributes		
VSF Access	The station must be permitted VSF access to access the built-in Voice Mailbox.	Disable Enable	Enable
Two way Record	When allowed, the station can activate the Two-way record feature to record a conversation.	OFF ON	OFF
VM Device Slot Seq.	The sequence number defines the VMIU or VMIB where messages for the station are stored	Seq. No.	
Multi Language	The selected language is employed for prompts played	Prompt 1~6	Prompt 2

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	to the user when accessing the VSF.		
Pre-selected Message Language	The selected language is employed for prompts played to an external CO caller if the called station has activated Pre-selected Message.	Prompt 1~6	Prompt 2
Default VM group number	When the user has no Voice messages and selects the [Call Back/Msg] button, the "Default VM group number" is called.		
Auto Talk Recording Option	This field enables unconditional recording of all calls placed/received by the station. Recordings, in .wav format, are stored at the UCS Client defined as the Call Recording Station below.	OFF, ALL, CO	OFF
Auto Talk Recording Destination	When Auto Call Recording is defined for a station, the destination for the recording is defined here. The UCS Client Station number, or an IPCR or 3 rd party SIP recording server.	Station or Group	
VSF MSG Date/Time	When ON, the data/time the message was received is played to the user prior to the message.	OFF ON	ON
VM Password check	When ON, the user must enter their valid Authorization code to access their VSF Voice Mailbox. The password can be defined as none, the Authorization code only or the normal Station Number and Authorization code.	No password/ Password only/ Station number and password	Password only
VMID Number	When using an adjunct VM, the system can translate the Mailbox number from the user's station number to the assigned VMID. The system sends the station number or VMID, if assigned, to the VM (in-band or SMDI) in order to identify the appropriate Voice Mailbox.	Max. 8 digit	eMG80:100 eMG800:1000 UCP:1000
Retrieve MSG Method	Messages stored in the VSF may be retrieved in either a FIFO (first-in-first-out) or LIFO (last-in-first-out) order based on this entry.	FIFO/ LIFO	LIFO
Wake-Up Announcement	A VSF system announcement can be recorded to play to the station as a Wakeup Announcement.	0-200	0
Two way record announcement	The two way record announcement can be recorded to play to the station as Announcement.	0-200	0
Message Wait Notice(MWI, CLI, VM)	When a user has voice mail, system can provides this as voice prompt instead of dial tone according to option based on station. Disable: System provides normal dial tone when a user goes to off hook status. Tone: System provides warning tone instead of dial tone to give indication when a user goes to off hook status. Prompt: System provides message indication as voice prompt when a user goes to off hook status. DECT phone do not support this feature.	Disable, Tone, Prompt	Tone
	Enhanced Attributes		
VM Message No	Number of Voice Messages in the user's Mailbox.		000
VM COS	Each Voice Mailbox is assigned one of five VM Classes of Service (COS) that determines basic characteristics of the Mailbox such as message retention. The Voice Mail COS attributes are set in PGM 253.	1-5	1

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Administrator Mailbox	A Mailbox can be assigned as an Administrator Mailbox permitting broadcast messaging and control of other user mailboxes.	Disable Enable	Disable
Announce Only Mailbox	A mailbox can be configured so that the connected party will hear the greeting but cannot leave a message, Announce Only. A fter the greeting, the call is routed based on the Announce Only Option.	Disable Enable	Disable
Announce Only Option	This option determines if the caller will be disconnected or returned to the previous menu after hearing the Announce Only Mailbox greeting.	Previous Menu/ Hang Up	Previous menu
Company Directory – First Name	This field is first name of a station for Company Directory feature.	Max. 12 characters	N/A
Company Directory – Last Name	This field is last name of a station for Company Directory feature.	Max. 12 characters	N/A
Message Rewind/Fast-Forward Time	While listening to a message the user may rewind or Fast forward. The Rewind and Fast Forward time are determined by this field.	03 - 99	04
VM Notify retry count	If the notification to the user's mobile repeatedly fails, after the retry count, the system will send the call to the Attendant to complete the notification.	00 - 99	03
VM Notify dial time	When the mobile notification call is placed, the system will terminate the call, considering the call a failed attempt, if no digits are received from the mobile phone user before the timer expires.	00 - 99	15 sec
VM Forward Option	When a left message is forwarded, this option is applied.	Move / Copy	Move
Cascade Mailbox 1	A left message is copied or moved to 1'st mailbox destination station.	Station No	N/A
Cascade Mailbox 2	A left message is copied or moved to 2'nd mailbox destination station.	Station No	N/A
Cascade Mailbox 3	A left message is copied or moved to 3'rd mailbox destination station.	Station No	N/A
Cascade Mailbox 4	A left message is copied or moved to 4'th mailbox destination station.	Station No	N/A
Cascade Mailbox 5	A left message is copied or moved to 5'th mailbox destination station.	Station No	N/A
Cascade Method	Cascade method is determined.	Disable / Copy / Move	Disable
Cascade Message Type	Cascade Message Type is determined.	Normal Only / Urgent Only / All	Normal only
Cascade Apply Timer	Cascade Apply Timer is set.	001 ~250 (min)	0
	E-Mail notification		
	Mail] button : click [Send mail] button to send mai		on <u> </u>
E-Mail Notification Enable	If this option is set ON, the system send Email as soon as getting Voice mail.	OFF ON	OFF
SMTP Server Address (IP or Domain Name)	This field defines the address or URL of the SMTP mail server for the notification.	IP v4 addressor Mail server name	Max. 64 characters

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SMTP Port	This field defines the TCP/IP port the system will employ when communicating with the SMTP E-mail server.	1 - 65535	25
SMTP Security Connection	The system can support basic security policies when communicating with the SMTP E-mail server. Note the server must also be configured for the selected security protocol.	No Security/ SSL/ TLS	No Security
E-Mail Account ID	This field defines the account Identification for the system configured in the SMTP server.		
E-Mail Account Password	This field defines the password for the system's E-mail account in the SMTP server.		
Sender E-Mail Address (From)	This field defines the E-mail address used to send the new Voice Message notification via E-mail.	E-mail address	
Receiver E-Mail Address (To)	This field defines the E-mail address to notify when a new VSF message is received for the station.	E-mail address	
Attach Message Option	When E-mail notification is enabled in the VM COS (PGM 253), the E-mail may include the voice mail as a wav file attachment. The proper information must be assigned for the receiver mail and system mail account information.	OFF ON	ON
Delete Message Option	After sending an E-mail notification the system will automatically delete the Voice message from the user's Voice Mailbox if this parameter is ON.	OFF ON	OFF

4.4.2.18 Station Personal CCR Table – PGM 128

Selecting Station Personal CCR displays the Station Personal CCR Table input page. Enter a valid Station range and click **[Load]** to enter the Station Personal CCR Table data. Click **[Save]** button after changing the type or value.

PGM Base Function Bas	se	< Fav	vorite PGM	Station Personal C×				
PGM Search	Θ	Enter Stat	ion Range :				Load	
System ID & Numbering Plans		Station Ra	ange 1000-1045					
		Order <u>↓</u> a	Attribute	Туре		Value	VMID	
Station Data	~	1	1 Destination	N/A	•		STA :	
Station Type(110)		2	2 Destination	N/A	•		STA :	
Common Attributes(111)		3	3 Destination	N/A	•		STA :	
Terminal Attributes(112)		4	4 Destination	N/A	•		STA :	
CLI Attributes(113)		5	5 Destination	N/A	•		STA :	
Flexible Buttons(115/129)		6	6 Destination	N/A	•		STA :	
Station COS(116)		7	7 Destination	N/A	•		STA :	
CO/IP Group Access(117)		8	8 Destination	N/A	-		STA :	
Internal Page Zone Overview		9	9 Destination	N/A	-		STA:	
Internal Page Zone(118)		10	0 Destination	N/A	-		STA:	
PTT Group Access(119)		10	CCR Table Usage					
Preset Call Forward(120)		12	CCR One Digit	OFF V				
Idle Line Selection(121)		13	* Button Used As	Leave Message Immediate				
Station IP Attributes(122)		14	# Button Used As	Access Mailbox				
Station Timers(123) Linked Station(124)								
Station ICM Group(125)								
Station VM Attributes (127)								
Station Personal CCR(128)								
Station Name Overview	-							
Station Name Display								
Station User Greeting								
Station Data Copy								
Station CTI IP Address								
Station Recording Infomation								

Figure 4.4.2.18-1 Station Personal CCR Table

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
1-0 Destination	Digit dialed by outside caller. A destination type and value can be programmed by dialed digit. 14 kinds destination is available.		NA
CCR One Digit	When ON, the system will analyze the first digit received only, additional digits dialed by the caller are ignored.	OFF ON	OFF
CCR Table Usage	If this option is ON, CCR table can be activated. If this option is OFF, CCR table is not available, instead of that, dialing digits by outside caller can be recognized as DISA dialing.	ON OFF	OFF
*Button Used As	 * can be used as the following: System Numbering Plan Replay Greeting Access Mailbox Leave Message Immediate 	Refer to Description	Leave Message Immediate

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
# Button Used As	 # can be used as the following: System Numbering Plan Replay Greeting Access Mailbox Leave Message Immediate 	System Refer to Description	Access Mailbox

Table 4.4.2.18-1 STATION CCR Table

Table 4.4.2.18-2 STATION CCR DESTINATIONS

DESTINATION TYPES								
Route to a Station								
Route to a Station Group								
Route with System Speed Dial								
Route as PBX Transfer with System Speed Dial (Flash then dial speed dial digits)								
Route to VSF Announcement								
Route to VSF Announcement and disconnect								
Route to Networked Station.								
Conference Room								
Internal Page								
External page								
All Call Page								
Route to voice mail(station group/station number)								
Company Directory								
Record VM Greeting								
Room type conference group join								

4.4.2.19 Station Name Overview & Display

Selecting Station Name Overview shows the current station name.

PGM Base Function B	ase	< Favorit	e PGM Station Nan	ne Over <mark>×</mark>	
PGM Search	0	Index <u>↓</u> ª	Station Number <u>↓</u> ª	Station Name <u>↓</u> ª	
		1	1000	А	
System ID & Numbering Plans		2	1001	В	
Station Data	~	3	1002	С	
Station Data	~	4	1003	D	
Station Type(110)		5	1004	E	
		6	1005	F	
Common Attributes(111)		7	1006	G	
Terminal Attributes(112)		8	1007	Н	
CLI Attributes(113)		9	1008	1	
Flexible Buttons(115/129)		10	1009	J	
Station COS(116)		11	1010	К	
CO/IP Group Access(117)		12	1011	L	
Internal Page Zone Overview		13	1012	М	
Internal Page Zone(118)		14	1013	N	
PTT Group Access(119)		15	1014	0	
Preset Call Forward(120)		16	1015	P	
Idle Line Selection(121)		17	1016	Q	
Station IP Attributes(122)		18	1017	R	
Station Timers(123)		19	1018	S	
Linked Station(124)		20	1019	Т	
Station ICM Group(125)					
Station VM Attributes (127)					
Station Personal CCR(128)					
Station Name Overview					
Station Name Display					
Station User Greeting					
Station Data Copy					
Station CTI IP Address					
Station Recording Infomation					

Figure 4.4.2.19-1 Station Name Overview

Each station name will be displayed if the each station has the name.

Selecting Station Name Display will display the Station Name input page. Enter a valid Station range and click **[Load]** to enter the Station Name data. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing the type or value.

	PGM Base Function Base		Favorite PGM	Station I	Name Dis ×			
۲ (PGM Search	© En	ter Station Range :				2 Load	Sa
Sy	stem ID & Numbering Plans	Sta	tion Range 1000-10					
St	ation Data	~		Station Name	Input Name	Company Directory - First Name	Company Directory - Last Name	
	Station Type(110)							
	Common Attributes(111)							
	Terminal Attributes(112)		1003					
	CLI Attributes(113)							
	Flexible Buttons(115/129)							
	Station COS(116)							
	CO/IP Group Access(117)		1007					
	Internal Page Zone Overview		1008					
	Internal Page Zone(118)		1009					
	PTT Group Access(119)		1010					
	Preset Call Forward(120)		1011					
	Station ICR Scenario (1201)		1012					
	Idle Line Selection(121)		1013					
	Station IP Attributes(122)		1014					
	Station Timers(123)		1015					
	Linked Station(124)		1016					
	Station ICM Group(125)		1017					
	Station VM Attributes (127)		1018					
	Station Personal CCR(128)		1019					
	Station Name Overview		1020					
_	Station Name Display		1021					
	Station User Greeting		1022					
	Station Data Copy		1023					
	Station CTI IP Address		1024					
	Station Recording Infomation		1025					
,	oration recording monation		1026					
B -	ard Based Data	•	1027					

Figure 4.4.2.19-2 Station Name Display

You can fill out the Station name, Input name (up to 20 digits), company directory-First name & Last name for customer's convenience.

4.4.2.20 Station User Greeting

Selecting Station User Greeting will display the Station User Greeting data input page. Enter a valid Station range and click **[Load]** to enter the Station Voice Mail Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

GM Base Function Base	e	< Favo	orite PGM	Station User	Gre					
GM Search	Θ	Enter Stat	ion Range :					2 Load		
tem ID & Numbering Plans		Station Ra	ange 1000-1045							
tion Data	~	Order <u>↓</u> a	Check All	Condition	Call Type	Time	User Greeting			
lon Data	- II.	1				Day	User Greeting 1 🔻			
tation Type(110)		2			Internal	Night	User Greeting 1 🔻			
ommon Attributes(111)		3		Unconditional		Timed	User Greeting 1 🔻			
erminal Attributes(112)		4		Unconditional		Day	User Greeting 1 🔻			
LI Attributes(113)		5			External	Night	User Greeting 1 🔻			
lexible Buttons(115/129)		6				Timed	User Greeting 1 •			
tation COS(116)		7				Day	User Greeting 1 •			
O/IP Group Access(117)		8			Internal	Night	User Greeting 1 V			
ternal Page Zone Overview		9				Timed	User Greeting 1 V			
ternal Page Zone(118) TT Group Access(119)			10		Busy		Day	User Greeting 1 V		
reset Call Forward(120)		11			External	Night	User Greeting 1 V			
le Line Selection(121)		12				Timed	User Greeting 1 V			
ation IP Attributes(122)		13				Day	User Greeting 1 V			
ation Timers(123)		14			Internal	Night	User Greeting 1 V			
nked Station(124)		14			internar	Timed	User Greeting 1 V			
ation ICM Group(125)		16		DND						
ation VM Attributes (127)		16			Eutom -1	Day Night	User Greeting 1			
ation Personal CCR(128)			_		External		User Greeting 1			
ation Name Overview		18				Timed	User Greeting 1 •			
tation Name Display	_	19				Day	User Greeting 1 •			
ation User Greeting		20			Internal	Night	User Greeting 1 🔻			
ation Data Copy ation CTLIP Address		21		No Answer		Timed	User Greeting 1 🔻			
ation CTTP Address		22				Day	User Greeting 1 🔻			
ation recording monation		23			External	Night	User Greeting 1 🔻			
ard Based Data		24				Timed	User Greeting 1 🔻			

Figure 4.4.2.20-1 Station User Greeting

There are 4 User greeting for each station.

User can select multi user greeting depending on the condition, call type, and time.

- -. Condition: unconditional, busy, DND, No answer
- -. Call Type: Internal, External
- -. Call Time: Day, Night, Timed

4.4.2.21 Station Data Copy

Selecting Station Data Copy will display the Station Data Copy data input page. Enter a valid Source Station, Destination Station Range and click **[Copy]** to copy the station data. Note that this function is not available for an Attendant station.

	PGM Base Function Base	<	Favorite PGM S	tation Data Copy	×
٩	PGM Search O				Сору
	System ID & Numbering Plans		Attribute	Value	
_			Source Station Number		
4	Station Data 🗸 🗸 🗸		Destination Station Range	~	
	Station Type(110) Common Attributes(111) Terminal Attributes(112) CLI Attributes(113)		Copy Option	Include VMID Flex Button Only Exclude Flex Button Exclude VSF MSG - Receiver Mail Address Station Speed Dial Only	
	Flexible Buttons(115/129)		Result		
<	Station COS(116) CO/IP Group Access(117) Internal Page Zone Overview Internal Page Zone(118) PTT Group Access(119) Preset Call Forward(120) Idle Line Selection(121) Station IP Attributes(122) Station Timers(123) Linked Station(124) Station ICM Group(125) Station VM Attributes (127) Station Personal CCR(128) Station Name Overview Station Name Display Station User Greeting Station Data Copy Station CTI IP Address Station Recording Infomation				

Figure 4.4.2.21-1 Station Data Copy

4.4.2.22 Station CTI IP Address (1st Party TAPI)

Selecting Station CTI IP Address displays the page shown in the following figure. Enter a Station Range and click **[Load]** to display and modify the CTI IP address. Click **[Save]** button after changing the type or value.

PGM Base Function	on Base	< Fa	orite PGM	Station CTI IP .	×	
PGM Search	0	Enter St	ation Range :			
System ID & Numbering Plans		Station F	Range 1000-1045			
		Index	Station Number	IP Address	State	
Station Data	~	1	1000	0.0.0.0	Deactivated	
01 II T (140)	_	2	1001	0.0.0.0	Deactivated	
Station Type(110)		3	1002	0.0.0.0	Deactivated	
Common Attributes(111)		4	1003	0.0.0.0	Deactivated	
Terminal Attributes(112)		5	1004	0.0.0.0	Deactivated	
CLI Attributes(113)		6	1005	0.0.0.0	Deactivated	
Flexible Buttons(115/129)		7	1006	0.0.0.0	Deactivated	
Station COS(116)		8	1007	0.0.0.0	Deactivated	
CO/IP Group Access(117)		9	1008	0.0.0.0	Deactivated	
Internal Page Zone Overview	/	10	1009	0.0.0.0	Deactivated	
Internal Page Zone(118)		11	1010	0.0.0.0	Deactivated	
PTT Group Access(119)		12	1011	0.0.0.0	Deactivated	
Preset Call Forward(120)		13	1012	0.0.0.0	Deactivated	
Idle Line Selection(121)		14	1013	0.0.0.0	Deactivated	
Station IP Attributes(122)		15	1014	0.0.0.0	Deactivated	
Station Timers(123)		16	1015	0.0.0.0	Deactivated	
Linked Station(124)		17	1016	0.0.0.0	Deactivated	
Station ICM Group(125)		18	1017	0.0.0.0	Deactivated	
Station VM Attributes (127)		19	1018	0.0.0.0	Deactivated	
Station Vin Attributes (127) Station Personal CCR(128)		20	1019	0.0.0.0	Deactivated	
Station Name Overview		21	1020	0.0.0.0	Deactivated	
		22	1021	0.0.0.0	Deactivated	
Station Name Display		23	1022	0.0.0.0	Deactivated	
Station User Greeting		24	1023	0.0.0.0	Deactivated	
Station Data Copy		25	1024	0.0.0.0	Deactivated	
Station CTI IP Address		26	1025	0.0.0.0	Deactivated	
Station Recording Infomation	ı	27	1026	0.0.0.0	Deactivated	
		28	1027	0.0.0.0	Deactivated	
Board Based Data		29	1028	0.0.0.0	Deactivated	
	•	30	1029	0000	Deactivated	

Figure 4.4.2.22-1 Station CTI IP Address

The system supports 1st party TAPI (Telephony Application Programming Interface) for CTI (Computer Telephony Integration). The system will send specific TAPI information to the IP address for activity by the associated Station.

4.4.2.23 Station Recording Information

Selecting Station recording information displays the page shown in the following figure. Enter a Station Range and click **[Load]** to display and check the current recording information on each station.

PGM Base Function Ba	se <	Favorite PGM	Statio	n Recordi <mark>×</mark>		
Q PGM Search	© Ent	er Station Range	:		2 Load	Sav
System ID & Numbering Plans	Sta	tion Range 1000-	1045			
0. F. D.	× Ind			g Company Directory Name		
Station Data	1		Х	X		
Station Type(110)	2		Х	X		
	3		Х	X		
Common Attributes(111)	4	1003	Х	Х		
Terminal Attributes(112)	5	1004	Х	Х		
CLI Attributes(113)	6	1005	Х	Х		
Flexible Buttons(115/129)	7	1006	Х	Х		
Station COS(116)	8	1007	Х	X		
CO/IP Group Access(117)	9	1008	Х	Х		
Internal Page Zone Overview	10) 1009	Х	Х		
Internal Page Zone(118)	11	1 1010	Х	Х		
PTT Group Access(119)	10	2 1011	Х	Х		
Preset Call Forward(120)	13	3 1012	Х	Х		
Idle Line Selection(121)	14	4 1013	Х	Х		
Station IP Attributes(122)	- 19	5 1014	Х	Х		
Station Timers(123)	16	5 1015	Х	Х		
Linked Station(124)	1	7 1016	Х	Х		
Station ICM Group(125)	18	3 1017	Х	Х		
	19	1018	Х	X		
Station VM Attributes (127)	20) 1019	Х	X		
Station Personal CCR(128)	2	1020	Х	X		
Station Name Overview	22	2 1021	X	Х		
Station Name Display	2		X	X		
Station User Greeting	24		X	X		
Station Data Copy	2!		X	X		
Station CTI IP Address	20		X	X		
Station Recording Infomation	2		X	X		
	2		X	X		
Board Based Data	29		X	X		
	▼ <u>3</u>		×	X		

Figure 4.4.2.23-1 Station Recording Information

The {Station Recording information} displays the recording state of voice mail greeting and company directory name with O and X. (O: recorded, X: not recorded)

4.4.3 Board Based Data

Selecting the Board Based Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

PGM Base Function E	Base	< Favorite PGM				•
Q PGM Search	0					Edi
System ID & Numbering Plans		System Overview System ID & Numbering	System IP Plan(102) System ID & Numbering	Device IP Plan(103) System ID & Numbering	Common Attributes(111) Station Data	
Station Data						
Board Based Data	~	Flexible Buttons(115/129) Station Data	Common Attributes(140) CO Line Data	CO/IP Ring Assignmen CO Line Data	CID/CPN Attributes(151) CO Line Data	
H.323 VoIP Attributes(130) T1/E1/PRI Attributes(131) Board Base Attributes(132)		System Attributes(160~ System Data	System Password(162) System Data	Station Group Assign Station Group Data	Station Group Attribute Station Group Data	
CO Line Data	-1	Station Authorization	System Authorization	Flexible DID Conversio		
System Data		Tables Data	Tables Data	Tables Data		
Station Group Data						
ISDN Line Data						
SIP Data						
Tables Data						
Networking Data						
H.323 Routing Table						
T-NET Data						
Zone Data						
Device Login						
UCS Data						
DECT Data						

Figure 4.4.3-1 Board Based Data Main Page

4.4.3.1 H.323 VoIP Attributes - PGM 130

Selecting H.323 VoIP Attributes returns the H.323 VoIP Attributes data input page. Enter the VoIP gateway Sequence number (refer to '*Device IP Plan*' if you want to find the sequence number) and click **[Load]** to enter VoIP data. Click **[Save]** button after changing Value.

Enter Device/GW slot sequence number: eMG80: 1-300 / eMG800: 1-2890 / UCP: 1-3688

PGM Base Function Base	< Favo	brite PGM H.323 VoIP At	rib <mark>×</mark>		
PGM Search	Enter Dev	ice/GW Slot Sequence Number (1 - 3688) : [Load	
System ID & Numbering Plans	Device/Ga	ateway Sequence(Slot) Number 2	404		
Station Data	Order <u>↓</u> a	Attribute		Value	Range
Station Data	1	H323 Setup Mode		•	
Board Based Data 🗸 🗸	2	H323 Tunneling Mode	ON T		
	3	H323 Early Media (earlyH245)	Setup	Proceeding Alerting	
H.323 VoIP Attributes(130)	4	H323 DTMF Path	IN T		
T1/E1/PRI Attributes(131)	5	5 DiffServe			0-63
Board Base Attributes(132)	6	TCP Keep Alive	ON T		
			Gate	ekeeper Attributes	
CO Line Data	1	RAS Usage	OFF •		
System Data	2	RAS MultiCast IP Port	1718		1-65535
	3	RAS MultiCast IP Address	224.0.1.4	11	
Station Group Data	4	RAS UniCast IP Port	1719		1-65535
ISDN Line Data	5	RAS UniCast IP Address	82.134.8	0.2	
	6	RAS Keep Alive Time	120		001-999(1sec)
SIP Data	7	RAS Number Plan Prefix	9		Max 23 Digits
Tables Data	8	RAS Light RRQ Usage	OFF •		
Naturaliza Data	9	RAS GateWay ID(128Char)			
Networking Data	10	Fail Over Usage	OFF T		
H.323 Routing Table	11	Call Setup No Response Time	5		0, 3 - 15 sec
T-NET Data	12	FailOver CO Group Number			1 - 201 CO Group
I-NET Data		,	VOI	P GW Port Usage	
Zone Data	1	Q.931 Port Range	2048	- 2559	TCP Port(1-65535)
Device Login	2	H.245 Port Range	2560	- 3071	TCP Port(1-65535)
Jevice Logili	3	RAS Port Range	2048	- 3071	UDP Port(1-65535)
UCS Standard	4	Media Port Range	6000	- 19972	UDP Port(1-65535)
DECT Data	5	Data Sharing Port Range	8500	- 8548	TCP Port(1-65535)
		с с		DEC Priority Configuration	· · · · · · · · · · · · · · · · · · ·

Figure 4.4.3.1-1 H.323 VoIP Attributes

The VOIP channels may be used for Distributed Networking, access to SIP or H.323 networks and for remote iPECS devices. When the standard H.323 VoIP protocol is employed for an external VoIP call, several attributes of these channels can be assigned. The H.323 call set-up mode and tunneling (H.245 Encapsulation) can be established.

Also for H.323 support, a RAS (Registration, Admissions and Status) channel can be defined. The RAS channel IP addresses (uni-cast and multi-cast) as well as the IP port Numbering Plan and other H.323 set-up characteristics are defined.

This page also allows setting the IP TOS bit for Diffserv, a commonly recognized packet prioritization protocol. Higher priority packets are given priority in the Default gateway or Layer 3 Switch queue. However, they are the first to be discarded in the event of long queue delays, which may cause excess packet loss and poor voice quality.

Refer to the following table for a description of the features and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	IP calls can be set-up using the H.323 normal	Normal/	_
H323 Setup Mode	or Fast Start mode.	Fast	Fast
H323 Tunneling Mode	IP calls can be set-up using the H.245	OFF	ON
	encapsulation (Tunneling).	ON	
	This feature is the ability of two user endpoints to communicate before call is actually		
	established in normal call mode. This feature is		
	not used when 'H323 Setup Mode' is 'Fast'.		
H323 Early Media	* Setup: Caller party tries to open early media	Setup,	
(early H245)	on receiving the Setup message.	Proceeding,	
	* Proceeding: Calling party tries to open early	Alerting	
	media on receiving the Proceeding message.		
	* Alerting: Calling party tries to open early		
	media on receiving the Alerting message.		
	During a call, DTMF can be sent in-band or	Out-band/	
H323 DTMF Path	out-of-band (H.245)	In-band/	IN
	, <i>,</i> ,	2833	
	This parameter sets DiffServ pre-tagging for		
DIFFSERV	Voice packet. Note high values may cause high packet	0~63	4
	discard levels.		
	The system will send a polling message every		
TCP Keep-Alive	75 seconds to assure the status of the TCP	OFF	ON
	connection.	ON	-
	Gatekeeper Attributes		
RAS Usage	When this feature is ON, the VoIP channel is	OFF	OFF
RAS Usage	used as the Gatekeeper.	ON	OFF
RAS Multicast IP Port	This field defines the Multicast TCP/IP Port for	TCP/IP Port	1718
	RAS Information of Gatekeeper.		
RAS Multi-cast IP	This field defines the Multicast IP address for	IP Address	224.0.1.41
Address	RAS Information of Gatekeeper.		
RAS Uni-cast IP Port	This parameter defines the Unicast IP Port for RAS Information of Gatekeeper.	TCP/IP Port	1719
RAS Uni-cast IP	This parameter defines the Unicast IP address		
Address	for RAS Information of Gatekeeper.	IP Address	82.134.80.2
	To maintain a connection, the system and		
RAS Keep Alive Time	GateKeeper must exchange RAS Information	001-999	120
	prior to expiration of this timer.	(seconds)	
RAS Number Plan	The numbering plan for Calling Number in RAS	Max. 23 digit	9
Prefix	Setup.	ivian. 20 ulyit	J
	The system can be assigned to use the simple	OFF	
RAS Light RRQ Usage	RRQ (Registration Request) message (ON) or	ON	OFF
	the full RRQ message (OFF).		
RAS Gateway ID	The Gatekeeper ID.	128 characters	
	If an H.323 call fails to set-up in the 'Call Setup		
Fail Over Usage	No Response time' below, the system will	OFF	OFF
	attempt to place the call on the Failover CO/IP	ON	
	group also defined below.		

Table 4.4.3.1-1 H.323 VOIP ATTRIBUTES

			· · · · · · · · · · · · · · · · · · ·
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Call Setup No Response Time	When Failover is enabled, the system places the fail-over call if this timer expires before the system receives a response to setup messages.	0, 3-10 Sec.	5
Failover CO Group Number	The system will place the Fail-over call employing a CO/IP line from the assigned CO/IP Line Group.	eMG80:1-21 eMG800:1~201 UCP:1~201	
	VOIP(VOIU) GW Port Usag	je	
Q.931 Port Range	IP-Binding H.323 signaling option: Q.931 TCP Port Range.	TCP port	2048-2559
H.245 Port	Range IP-Binding H.323 signaling option: H.245 TCP Port Range.	TCP port	2560-3071
RAS Port Range	IP-Binding H.323 signaling option: RAS UDP Port Range.	UDP port	2048-3071
Media Port Range	IP-Binding media option: Media UDP Port Range.	UDP port	eMG80:6000-7036 eMG800:6000-14400 UCP:6000-19972
Data Sharing Port Range	IP-Binding option: Data Sharing TCP Port Range.	TCP port	8500-8548
	External CODEC Priority Config	uration	
External CODEC Priority Configuration	The system supports five Codecs and, for negotiating purposes, the priority of each can be defined. Codecs not assigned a consecutive priority are not available during negotiations with the host.	None/ g.711-u/ g.711-a/ g.723.1/ g.729/ g.729-a	none

Table 4.4.3.1-1 H.323 VOIP ATTRIBUTES

4.4.3.2 T1/E1/PRI Attributes - PGM 131

Selecting T1/E1/PRI Attributes returns the T1/E1/PRI Attributes data input page. Enter the Device Sequence number (refer to '*Device IP Plan*' if you want to find the sequence number) and click **[Load]** to enter T1/E1/PRI data. Click **[Save]** button after changing Value.

Enter Device/GW slot sequence number : eMG80: 1-300 / eMG800: 1-2890 / UCP: 1-3688

PGM Base Function Base	< Favo	rite PGM T1/E1/PRI Attr	×				
PGM Search O	Enter Devi	Enter Device/GW Slot Sequence Number (1 - 3688) : Load					
System ID & Numbering Plans	Device/Ga	teway Sequence(Slot) Number 240	2				
	Order <u>↓</u> a	Attribute	Value				
Station Data	1	T1 setup Mode	D4 🔻				
Board Based Data	2	T1 line Mode	B8ZS V				
	3	PRI Line Mode	TE T				
H.323 VoIP Attributes(130)	4	PRI/E1 CRC Check	ON T				
T1/E1/PRI Attributes(131)	5	E1 R2DSP Check	OFF T				
Board Base Attributes(132)	6	DCO PX Type	Standard •				
CO Line Data	7	Caller Name Type (PRI(T1) only)	FACILITY V				

Figure 4.4.3.2-1 T1/E1/PRI Attributes

Each T1/E1/PRI module can be assigned for various attributes of the interface. The T1 interface framing and line coding can be selected and, for the PRI, TE or NT operation can be selected. Refer to the following table for a description of the features and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT			
T1 Setup Mode	Select T1 Setup mode D4 frame: Using In-Band Control Protocol. ESF: Using Data link Message.	ESF/ D4	D4			
T1 Line Mode	Select T1 line coding (AMI/B8ZS).	AMI/ B8ZS	B8ZS			
PRI Line Mode	Select TE/NT Mode.	TE/NT	TE			
PRI /E1 CRC Check	Enable CRC (Cyclical Redundancy Check).	OFF ON	OFF			
E1 R2DSP check	Used for R2-E1 Device or E1 Device.	OFF/ ON	OFF			
DCO PX Type	Reserved for future usage for R2 E1 Device.	S1240/ TDX1B/ STANDARD/ CONGES_DIS	STANDARD			
Caller Name Type(PRI(T1) only)	If the caller has a name, the Caller Name is sent to the network according to the option (FACILITY, DISPLAY). (USA only)	FACILITY, DISPLAY	FACILITY			

4.4.3.3 Board Base Attributes - PGM 132

Selecting Board Base Attributes will display the Board Base Attributes data input pag. Enter the Sequence number (refer to '*Device IP Plan*' if you want to find the sequence number) and click **[Load]** to enter attribute values. Use the check boxes to indicate which attributes to modify; data for checked attributes is stored for the entire range of devices when saved. Click **[Save]** button after changing Value.

× Board Base Attri... X Function Base PGM Base Favorite PGM Q PGM Search Θ Enter Device/GW Slot Sequence Range (1 - 3688) Load Save Device/Gateway Sequence(Slot) Range 1 System ID & Numbering Plans Order 1ª Check All Attribute Value Range Station Data Router IP Address IP Address Board Based Data Device Codec Type 2 System Codec 🔻 3 Firewall IP Address IP Address H.323 VoIP Attributes(130) 4 RTP Packet Relay Firewall IP Address IP Address T1/E1/PRI Attributes(131) RTP Security ON T 5 Board Base Attributes(132) 6 T-NET Enable OFF **•** CO Line Data 7 T38 Enable OFF T 8 USE Board IP for SIP OFF **T** System Data 9 T38 Port Usage DIFF WITH VOICE **•** Station Group Data 10 RFC2833 Pavload 101 0-127 11 RFC2833 Volume 10 0-36(-dB) ISDN Line Data 12 RFC2833 Redundancy 4 1-8 SIP Data Tables Data

Enter Device/GW slot sequence number: eMG80: 1-300 / eMG800: 1-2890 / UCP: 1-3688

Figure 4.4.3.3-1 Board Base Attributes

Appliances (Devices and IP Phones) can be connected to the iPECS over a managed WAN without the need to employ a VoIP channel. In this case, the system does not implement security (IPSec) or QoS treatment over the link. To implement the managed WAN connectivity, the iPECS must be assigned with the IP address of the router for all appliances that may attempt a point-to-point connection over the managed WAN, including devices on the iPECS LAN. Note that if the device's Router IP address is not defined, the system will use the Router IP address defined in System & Device IP Address Plan.

The default codec employed by each device can be specifically defined as G.711, G.729, G.723, G.722, or the system default codec assigned.

Appliances include support for SRTP (Secure Real-Time Protocol), which employs Advanced Encryption Standard (AES) to secure RTP packets. If RTP security is enabled then IPSEC or SRTP is implemented for RTP packet.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Router IP Address	Enter the Default gateway (Router) IP address associated with the selected devices.	IP Address	

Table 4.4.3.3-1 BOARD BASE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Device Codec Type	Select the CODEC type for each device.	G.711, G.723.1, G.729, G.722, or SYSTEM CODEC	SYSTEM CODEC
Firewall IP Address	Enter the Firewall IP address of the selected devices.		0.0.0.0
RTP Packet Relay Firewall IP Address	Enter the Firewall IP address associated with the Remote Phone or Gateway if there a dual broadband connection for SIP trunks and Remote phones (using a VOIB/VOIM).		0.0.0.0
RTP Security	SRTP implements AES (Advanced Encryption Standard) for packets between other devices with RTP Security enabled. To reduce bandwidth use or to use an external VPN, this parameter must be OFF.	OFF ON	ON
TNET Enable	When a module or station is to be connected in a Centralized Control network (TNET), the device must be enabled for TNET operation.	OFF ON	eMG80:ON eMG800:OFF UCP: OFF
T38 Enable	FAX over IP Lines is supported when T38 mode is ON.	OFF ON	OFF
USE Board IP for SIP	When the VoIP channels of a VOIB/VOIM are used for SIP, such as a SIP Trunk, the IP address of the VOIB/VOIM must be used for the SIP messages (ON).	OFF ON	OFF
T38 Port Usage	The TCP/IP port employed for T38 packets is negotiated and the system can allow the port to be the same as or different from the preceding Voice packets. The system can also employ NAT to determine the port.	Different from Voice Same as Voice NAT Triggered	DIFF WITH VOICE
RFC2833 Payload	Payload value for RFC2833	0~127	101
RFC2833 Volume	Volume(Gain) of RFC2833 payload	0~36(-dB)	10
RFC2833 Redundancy	Sending time of end packet of RFC2833	1~8	4

Table 4.4.3.3-1 BOARD BASE ATTRIBUTES

4.4.4 CO Line Data

Selecting the CO Line Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

	PGM Base Function Base	< Favorite PGM			×
c	PGM Search				Edit
	System ID & Numbering Plans	System Overview System ID & Numberin	System IP Plan(102) System ID & Numberin	Device IP Plan(103) System ID & Numberin	Common Attributes(1 Station Data
	Station Data	System ib a Numbern	System ib a Numbern	System ib a Numbern	Station Data
	Board Based Data	Flexible Buttons(115/ Station Data	Common Attributes(1 CO Line Data	CO/IP Ring Assignm CO Line Data	CID/CPN Attributes(151) CO Line Data
	CO Line Data v				
	CO Line Overview Common Attributes(140)	System Attributes(16 System Data	System Password(162) System Data	Station Group Assign Station Group Data	Station Group Attribu Station Group Data
*	Analog Attributes(141) VoIP Attributes(142) ISDN Attributes(143) CO/IP Ring Assignment(144) DID Service Attributes(145) DISA Service Attributes(146) CO/IP Preset FWD Attributes(147) MATM Attributes(149) NA ISDN Line Attributes(150) CID/CPN Attributes(151) T1 CO Line Attributes(152) DCOB CO Line Attributes(153)	Station Authorization Tables Data	System Authorization Tables Data	Flexible DID Conversi Tables Data	
	System Data				
	Station Group Data				
	ISDN Line Data				
	SIP Data				
	Tables Data				
	Networking Data				

Figure 4.4.4-1 CO Line Data Main Page

Selecting CO Line Overview will show the current overview of CO line. The information may vary depending on installed modules.

	PGM Base Function Base		Favorite PGN	ИСО	Line Overview	×
	Q PGM Search	0	Device Type ↓ª	CO Line ↓ª	CO Type ↓ª	CO Group ↓ª
			BRIM4 GW	1	DID	1
	System ID & Numbering Plans		BRIM4 GW	2	DID	1
	Otation Data		BRIM4 GW	3	DID	1
	Station Data	_	BRIM4 GW	4	DID	1
	Board Based Data		BRIM4 GW	5	DID	1
		_	BRIM4 GW	6	DID	1
	CO Line Data	~	BRIM4 GW	7	DID	1
			BRIM4 GW	8	DID	1
	CO Line Overview		T1IM GW	9	Normal	1
	Common Attributes(140)		T1IM GW	10	Normal	1
	Analog Attributes(141)		T1IM GW	11	Normal	1
	VoIP Attributes(142)		T1IM GW	12	Normal	1
	ISDN Attributes(143)		T1IM GW	13	Normal	1
,	CO/IP Ring Assignment(144)		T1IM GW	14	Normal	1
	DID Service Attributes(145)		T1IM GW	15	Normal	1
	DISA Service Attributes(146)		T1IM GW	16	Normal	1
1	CO/IP Preset FWD Attributes(147)		T1IM GW	17	Normal	1
	MATM Attributes(149)		T1IM GW	18	Normal	1
	NA ISDN Line Attributes(150)		T1IM GW	19	Normal	1
	CID/CPN Attributes(151)		T1IM GW	20	Normal	1
	T1 CO Line Attributes(152)		T1IM GW	21	Normal	1
	DCOB CO Line Attributes(153)		T1IM GW	22	Normal	1
	2002 00 2.110 / 4.11.24.00(100)		T1IM GW	23	Normal	1
	System Data		T1IM GW	24	Normal	1
	System Data		T1IM GW	25	Normal	1
	Station Group Data		T1IM GW	26	Normal	1
		- 1	T1IM GW	27	Normal	1
	ISDN Line Data		T1IM GW	28	Normal	1
	SIP Data		T1IM GW	29	Normal	1
		_	T1IM GW	30	Normal	1
	Tables Data		T1IM GW	31	Normal	1
		-	T1IM GW	32	Normal	1
	Networking Data	•			DID	

Figure 4.4.4-2 CO Line Overview

4.4.4.1 Common Attributes - PGM 140

Selecting Common Attributes will display the Common Attributes data input page. Enter a valid CO range and click **[Load]** to enter the Common Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

PGM Base Function Base	< Fa	avorite PGM	Common Attr ×			
PGM Search O	Enter C	:O Range (1 -	998) :		2 Load	Save
ystem ID & Numbering Plans	CO Rar	nge 1				
Station Data	Order	Check All	Attribute <u>↓</u> ^a	Value	•	Range
	1		СО Туре	Normal 🔻		
loard Based Data	2		CO/IP Group	1		0-201 (0:Private, 201:Unused)
O Line Data 🗸 🗸	3		CO Line COS	COS 1 V		
CO Line Overview	4		CO Line Type	CO 🔻		
Common Attributes(140)	5		Universal Answer	OFF T		
Analog Attributes(141)	6		CO/IP Group Authorization	OFF T		
VoIP Attributes(142)	7		CO Tenancy Group	0		0-100
SDN Attributes(143)	8		CO/IP Name Display	OFF •		
CO/IP Ring Assignment(144)	9		CO Name Assign			Max 12 Characters
DID Service Attributes(145)	10		DISA Account Code	ON T		
DISA Service Attributes(146)	11		DISA CO Access	OFF T		
CO/IP Preset FWD Attributes(147)	12		Wait If VSF Busy	ON T		
MATM Attributes(149)	13		SMS Outgoing	Disable 🔻		
VA ISDN Line Attributes(150) CID/CPN Attributes(151)	14		SMS Received Station			
11 CO Line Attributes(152)	15		Reject Anonymous Incoming Call	OFF T		
DCOB CO Line Attributes(153)	16		Prefix Table ID	0		0-6
	17		LDT Table Index	1		0-32
/stem Data	18		LDT Zone Number	1		1-100
ation Group Data	19		ENBLOCK Sending	ON V		
·	20		DID Preserve Name	OFF V		
DN Line Data	21		Burst Tone To Caller	OFF •		
P Data	22		Collect Call Blocking	Disable •		
	23		Collect Call Answer Timer	10	*100ms	1-250
bles Data	24		Collect Call Idle Timer	20	*100ms	1-250
etworking Data	26		Tone Table Index	1		1-5

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

Figure 4.4.4.1-1 Common Attributes

Common Attributes define various characteristics of CO lines facilities under control of the system. Most characteristics require an On/Off setting; refer to the following table. Specific descriptions for Class-of-Service and CO line Call Metering tones are provided in Table 4.4.4.1-3.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		Normal/	
СО Туре	Each CO Line is assigned a type, Normal, DID or TIE Line.	DID/ TIE/	Normal
		Unused	
	Each CO/IP Line is assigned to a group; grouping should	eMG80:0-21	
CO/IP Group	be based on the Line type, technology and COS.	eMG800:0-201	1
	be based on the Line type, technology and COS.	UCP:0-201	

Table 4.4.4.1-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO Line COS	Each CO/IP Line is assigned a Class-of-Service that interacts with the Station COS, refer to Table 4.4.4.1-2 CO COS 1: Station COS applies CO COS 2: Exception Table A governs CO COS 3: Exception Table B governs CO COS 4: Restricts LD calls & Exception Table C CO COS 5: Overrides Station COS 2~6 with no restrictions.	COS 1~5	COS 1
CO Line Type	Each CO/IP Line can be assigned as connected to a CO Line or a PBX/CTX Line.	PBX CO	СО
Universal Night Answer	Universal Night Answer (UNA) allows any station user to answer a call on the CO/IP line by dialing the UNA code.	OFF ON	OFF
CO/IP Group Authorization	Each CO/IP Group can be assigned to require the user enter an Authorization Code.	OFF ON	OFF
CO Tenancy Group	Only stations in the assigned Tenancy group are permitted access to the defined CO Line.	eMG80:00-15 eMG800:0-32 UCP:0-100	0
CO/IP Name Display	The IP Phone display can indicate the CO line/IP channel number or the twelve (12) character name, if assigned below.	OFF ON	OFF
CO Name Assign	Each CO Line and IP group can be assigned a twelve (12)-character name for display purposes.	Max. 12 characters	
DISA Account Code	With DISA Account Code "ON", users are required to enter a DISA Authorization code. Codes are entered in <i>Authorization Code Table section</i> .	OFF ON	ON
DISA CO Access	When enabled, DISA users may access the VoIP facilities of the system.	OFF ON	OFF
Wait If VSF Busy	When a DID/DISA call assigned to receive a VSF announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or route to the DID/DISA Destination -PGM 167	OFF ON	ON
SMS Outgoing	Each CO line can be assigned to support PSTN SMS.	Disable Enable	Disable
SMS Received Station	When a PSTN SMS is received, the system delivers the message to the assigned station.	Station	
Reject Anonymous Incoming Call	When REJECT ANONYMOUS is enabled, incoming calls without Caller ID are rejected.	OFF ON	OFF
Prefix Table ID	When the Prefix Dialing Table (PGM 206) feature is used, this Prefix Table ID is employed. If this value is set to 0, the Prefix Table feature is disabled.	0 – 6. 0 means disable	0
LDT Table Index	When LCR is configured, this LDT Table index is referenced for outgoing calls on this CO/IP Line.	0-10(eMG80), 0-32(eMG800) 0-32(UCP)	1
LDT Zone Number	If the LDT Zone Number of a LDT table (LCR LDT(221)) is equal to this value, the LDT table is available to this CO Line.	1-100	1
ENBLOCK Sending	This entry determines if the system sends dialed digits to the ISDN line as they are received (OFF), or collects all digits and forwards them in a block. (ON).	OFF ON	ON

Table 4.4.4.1-1 Common Attributes

DID preserve Name For DID lines, the CLI is normally displayed only during inging. If enabled here, the CLI will be displayed for the entire call duration. OFF ON Burst Tone to Caller When DID Call Wait is assigned for the station, the system can send audible off-hook signals as a short burst of the for DID calls from this CO/IP Line. OFF ON Collect Call Blocking This parameter defines the type of Collect Call Blocking burght of the Call call for the Call call shower is assigned. In this case, the system answers the call and maintains the connection for the Call lote with Pouble Answer if finally reconnecting the call. Disable/ Collect Call Ide Timer One of the Gain tables can be configured for TDM intervention for the Call call lote imp before finally reconnecting the call. 1-250 (100ms) Gain table index One of the Digit Conversion Tables can be configured for use with the CO/IP Line. 1-3 Digit conversion table One of the Digit Conversion Tables can be configured for use with the CO/IP Line. 1-5 Prepaid Call The Pre-paid Call feature must be enabled for use by a station. User can set the budget for the station call charge oN 0-999999 When desired, the IP CR server. The IP CR Agen object, see PGM 237, must be assigned as CO Line for proper aperation. 0-999999 Mutomatic call When desired, the IP CR server. The IP CR Agen object, see PGM 237, must be assigned as CO Line for proper aperation. 0-999999	ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Burst Tone to Caller of tone for DID calls from this CO/IP Line. UP:F ON Collect Call Blocking Burgorted for E1 CO lines with R2 signaling. (Intended for Brazil only) Disable/ Double Answer/ Double Answer/ Brazil only) Disable/ Double Answer/ Double Answer	DID preserve Name	ringing. If enabled here, the CLI will be displayed for the		OFF
Collect Call Blocking This parameter defines the type of Collect Call Blocking supported for E1 CO lines with R2 signaling. (Intended for Brazil only) Double Answer/ Double Answer wilndication Collect Call Answer Timer These parameters determine treatment of an incoming call when Collect Call Blocking Double Answer is assigned. In this case, the system answers the call and maintains the connection for the Call Answer time then, the system will disconnect for the Call Idle time before finally reconnecting the call. 1-250 (100ms) Gain table index One of three Gain tables can be configured for TDM connections. 1-3 Tone table index One of the five Tone table can be configured for use with the CO/IP Line. 1-5 Digit conversion table index One of the Digit Conversion Tables can be configured for use for this CO/IP Line. 0FF 0N Prepaid Call An amount can be associated with the station call charge in advance. 0FF 0N Prepaid Money (0- 999999) Money' is reduced by the calculated call cost (Call Metering or cost/minute). This parameter displays the remaining funds for outgoing calls. Prepaid Money is often used in small hospitality businesses. 0-999999 Used Prepaid Money The "Use Pre-paid Money" displays the money that has been used. 0-999999 Muter desired, the IP CR server can be used to record calls on the CO/IP Line. This value defines the Station Group of the IP CR server. The IP CR Agent object, see PGM 237, must be assigned as CO Line for proper	Burst Tone to Caller	system can send audible off-hook signals as a short burst		OFF
Timer call when Collect Call Blocking Double Answer is assigned. In this case, the system answers the call and maintains the connection for the Call Answer time then, the system will disconnect for the Call ldle time before finally reconnecting the call. 1-250 (100ms) Gain table index One of three Gain tables can be configured for TDM connections. 1-3 Tone table index One of the five Tone table can be configured for use with the CO/IP Line. 1-5 Digit conversion table One of the Digit Conversion Tables can be configured for use by a station. User can set the budget for the station call charge in advance. OFF Prepaid Call The Pre-paid Call feature must be enabled for use by a station. User can set the budget for the station call charge in advance. OFF An amount can be associated with the station as prepayment for outgoing calls. The assigned "Pre-paid Money is often used in small hospitality businesses. 0-999999 Used Prepaid Money The "Used Pre-paid Money" displays the money that has been used. 0-9999999 Used Prepaid Money The "Used Pre-paid Money" displays the money that has been used. 0-999999 Lutomatic call recording destination An incoming call can be routed to the destination based on Calling Name. 0-999999 Lutomatic call recording destination An incoming call can be routed to the destination based on Calling Name. 0-999999 LULID Usage Disable - ICLI	Collect Call Blocking	supported for E1 CO lines with R2 signaling. (Intended for	Double Answer/ Double Answer	Disable
Collect Call Idle Timermaintains the connection for the Call Answer time then, the system will disconnect for the Call Idle time before finally reconnecting the call.1-250 (100ms)Gain table indexOne of three Gain tables can be configured for TDM connections.1-31Tone table indexOne of the five Tone table can be configured for use with the CO/IP Line.1-5eMG80:1-15Digit conversion table indexOne of the Digit Conversion Tables can be configured for use by a station. User can set the budget for the station call charge in advance.OFF ON0FF ONPrepaid CallThe Pre-paid Call feature must be enabled for use by a station. User can set the budget for the station call charge in advance.0FF ON0-999999An amount can be associated with the station as prepayment for outgoing calls. The assigned "Pre-paid Money" is reduced by the calculated call cost (Call Metering or cost/minute). This parameter displays the remaining funds for outgoing calls. Prepaid Money is often used in small hospitality businesses.0-999999Used Prepaid MoneyThe "Used Pre-paid Money" displays the momey that has been used.0-999999Automatic call recording destinationThe Used Pre-paid Money" displays the momey that has been used.0-999999Automatic call recording destinationAn incoming call can be routed to the destination based on Calling Name.Disable/ CLI/ Name, CLIICLID UsageDisable - ICLID feature is operated with CLI Name, CLI - ICLID feature			1-250 (100ms)	10
Gain table indexconnections.1-3Tone table indexOne of the five Tone table can be configured for use with the CO/IP Line.1-5Digit conversion table indexOne of the Digit Conversion Tables can be configured for use for this CO/IP Line.eMG80:1-15 eMG80:1-32 UCP:1-32Prepaid CallOne of the Digit Conversion Tables can be configured for use for this CO/IP Line.eMG80:1-32 UCP:1-32Prepaid CallThe Pre-paid Call feature must be enabled for use by a station. User can set the budget for the station call charge in advance.OFF ONPrepaid Money (0- 99999)An amount can be associated with the station as prepayment for outgoing calls. The assigned "Pre-paid Money" is reduced by the calculated call cost (Call Metering or cost/minute). This parameter displays the remaining funds for outgoing calls. Prepaid Money is often used in small hospitality businesses.0-999999Used Prepaid MoneyThe "Used Pre-paid Money" displays the money that has been used.0-999999Automatic call recording destinationWhen desired, the IP CR server can be used to record calls on the CO/IP Line. This value defines the Station Group of the IP CR server. The IP CR Agent object, see PGM 237, must be assigned as CO Line for proper operation.Disable/ CLI/ Name, CLIICLID UsageDisable - ICLID feature is disabled on Calling Name.CLI/ Name, CLIPBX Code Insertion for Emergency callSystem can insert PBX code automatically if pre- configured when a user make an emergency call.Disable, PBX code1~4	Collect Call Idle Timer	maintains the connection for the Call Answer time then, the system will disconnect for the Call Idle time before	1-250 (100ms)	20
Tone table indexthe CO/IP Line.1-5Digit conversion table indexOne of the Digit Conversion Tables can be configured for use for this CO/IP Line.eMG80:1-15 eMG80:1-32 UCP:1-32Prepaid CallThe Pre-paid Call feature must be enabled for use by a station. User can set the budget for the station call charge in advance.OFF ONPrepaid Money (0- 999999)An amount can be associated with the station as prepayment for outgoing calls. The assigned "Pre-paid Money" is reduced by the calculated call cost (Call Metering or cost/minute). This parameter displays the remaining funds for outgoing calls. Prepaid Money is often used in small hospitality businesses.0-999999Used Prepaid MoneyThe "Used Pre-paid Money" displays the money that has been used.0-9999999Automatic call recording destinationWhen desired, the IP CR server. Can be used to record calls on the CO/IP Line. This value defines the Station Group of the IP CR server. The IP CR Agent object, see PGM 237, must be assigned as CO Line for proper operation.Disable/ CLI/ Name, CLIILLID UsageAn incoming call can be routed to the destination based on Calling Name.Disable/ CLI/ Name, CLIPBX Code Insertion for Emergency callSystem can insert PBX code automatically if pre- configured when a user make an emergency call.Disable, PBX code1~4	Gain table index	-	1-3	1
Digit conversion table indexOne of the Digit Conversion 1 ables can be configured for use for this CO/IP Line.eMG800:1-32 UCP:1-32Prepaid CallThe Pre-paid Call feature must be enabled for use by a station. User can set the budget for the station call charge in advance.OFF ONPrepaid Money (0- 999999)An amount can be associated with the station as prepayment for outgoing calls. The assigned "Pre-paid Money" is reduced by the calculated call cost (Call Metering or cost/minute). This parameter displays the remaining funds for outgoing calls. Prepaid Money is often used in small hospitality businesses.0-999999Used Prepaid MoneyThe "Used Pre-paid Money" displays the money that has been used.0-9999999Automatic call recording destinationWhen desired, the IP CR server can be used to record calls on the CO/IP Line. This value defines the Station Group of the IP CR server. The IP CR Agent object, see PGM 237, must be assigned as CO Line for proper operation.Disable/ CLI/ICLID UsageAn incoming call can be routed to the destination based on Calling Name.Disable/ CLI/ Name, CLIPBX Code Insertion for Emergency callSystem can insert PBX code automatically if pre- configured when a user make an emergency call.Disable, PBX code1~4	Tone table index	-	1-5	1
Prepaid Call station. User can set the budget for the station call charge in advance. OFF Prepaid Money (0- An amount can be associated with the station as prepayment for outgoing calls. The assigned "Pre-paid Money" is reduced by the calculated call cost (Call Metering or cost/minute). This parameter displays the remaining funds for outgoing calls. Prepaid Money is often used in small hospitality businesses. 0-999999 Used Prepaid Money The "Used Pre-paid Money" displays the money that has been used. 0-9999999 Automatic call recording destination The "Used Pre-paid Money" displays the money that has been used. 0-9999999 Automatic call recording destination An incoming call can be routed to the destination based on Calling Name. 0-999999 ICLID Usage An incoming call can be routed to the destination based on Calling Name. Disable/ CLI/ PBX Code Insertion for Emergency call System can insert PBX code automatically if pre- Disable, configured when a user make an emergency call. PBX code1~4	-		eMG800:1-32	1
Prepaid Money (0- 99999)prepayment for outgoing calls. The assigned "Pre-paid Money" is reduced by the calculated call cost (Call Metering or cost/minute). This parameter displays the remaining funds for outgoing calls. Prepaid Money is often used in small hospitality businesses.0-999999Used Prepaid MoneyThe "Used Pre-paid Money" displays the money that has been used.0-999999Automatic call recording destinationWhen desired, the IP CR server can be used to record calls on the CO/IP Line. This value defines the Station Group of the IP CR server. The IP CR Agent object, see PGM 237, must be assigned as CO Line for proper operation.Disable/ CLI/ICLID UsageAn incoming call can be routed to the destination based on Calling Name.Disable/ CLI/ Name, CLI - ICLID feature is operated with CLI Name, CLI - ICLID feature is operated with Name and CLIName, CLIPBX Code Insertion for Emergency callSystem can insert PBX code automatically if pre- configured when a user make an emergency call.Disable, PBX code1~4	Prepaid Call	station. User can set the budget for the station call charge	-	OFF
Used Prepaid MoneyThe "Used Pre-paid Money" displays the money that has been used.Automatic call recording destinationWhen desired, the IP CR server can be used to record calls on the CO/IP Line. This value defines the Station Group of the IP CR server. The IP CR Agent object, see PGM 237, must be assigned as CO Line for proper operation.ICLID UsageAn incoming call can be routed to the destination based on Calling Name.ICLID UsageDisable - ICLID feature is disabled CLI - ICLID feature is operated with CLI Name, CLI - ICLID feature is operated with Name and CLIPBX Code Insertion for Emergency callSystem can insert PBX code automatically if pre- configured when a user make an emergency call.ICLIDImage Value	999999)	prepayment for outgoing calls. The assigned "Pre-paid Money" is reduced by the calculated call cost (Call Metering or cost/minute). This parameter displays the remaining funds for outgoing calls. Prepaid Money is	0-999999	0
Automatic call recording destinationcalls on the CO/IP Line. This value defines the Station Group of the IP CR server. The IP CR Agent object, see PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper operation.lease PGM 237, must be assigned as CO Line for proper Operation.lease PGM 237, must be assigned as CO Line for proper Operation.Disable/ CLI/Disable/ CLI/Disable/ CLI/Disable/ CLI/Mame, CLIMame, CLIPBX Code Insertion for PBX code Insert for PGM configured when a user make an emergency call.PBX code1~4PBX code1~4PBX code1~4Timer Attributes	Used Prepaid Money		0-999999	
ICLID Usage on Calling Name. Disable/ CLI/ ICLID Usage Disable - ICLID feature is disabled CLI/ CLI/ CLI - ICLID feature is operated with CLI Name, CLI Name, CLI PBX Code Insertion for System can insert PBX code automatically if pre- Disable, Emergency call configured when a user make an emergency call. PBX code1~4		calls on the CO/IP Line. This value defines the Station Group of the IP CR server. The IP CR Agent object, see PGM 237, must be assigned as CO Line for proper		
PBX Code Insertion for System can insert PBX code automatically if pre- Disable, Emergency call configured when a user make an emergency call. PBX code1~4 Timer Attributes	ICLID Usage	on Calling Name. Disable - ICLID feature is disabled CLI - ICLID feature is operated with CLI	CLI/	CLI
		System can insert PBX code automatically if pre-		Disable
		Timer Attributes		
CO COT OFF TIMER When the Station is assigned Call Time restriction is 00-99	CO CUT OFF TIMER	When the Station is assigned Call Time restriction is	00-99	0

Table 4.4.4.1-1 Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	assigned, this timer defines the allowed call duration.	00 = disable	
DISA Delay Timer	Once answered, the system attaches a DTMF receiver to the DISA call to receive caller-dialed digits. This timer introduces a delay before attaching the DTMF receiver to the CO line. (Intended for Russia only)	0-9 seconds	0
DISA Answer Timer	When a call is received on a CO line with DISA service, the system will answer the call when the DISA Answer Timer expires. (Intended for Russia only)	0-9 seconds	0
	Tone Attributes		
CO Line MOH	A held call can be connected to one (1) of ten (10) possible audio sources while on Hold as Music-on-Hold (MOH).	Refer to Sys Hold/ Internal Music/ External Music/ VSF MOH/ SLT MOH1~5/ VSF MOH2~3	Refer to Sys Hold
CO Dial Tone		OFF ON	ON
CO Ring Back Tone	ISDN Lines may provide a digital signal rather than actual tones. In this case, the iPECS can provide the tones. If	OFF ON	OFF
CO Error Tone	the ISDN provides the tone, the Tone is "ON", for an iPECS system-generated tone, the tone is set to "OFF".	OFF ON	OFF
CO Busy Tone		OFF ON	OFF
CO Line Dial Tone Source	One of eleven sources can be defined as dial tone for use by the CO line.	Dial Tone/ Internal Music/ External Music/ VSF MOH/ SLT MOH1~5/ VSF MOH2~3	Dial Tone
CO Ring Back Tone Source	One of eleven sources can be defined as ring back tone for use by the CO line.	Ring Back Tone/ Internal Music/ External Music/ VSF MOH/ SLT MOH1~5/ VSF MOH2~3	Ring Back Tone
COL Ring Tone	One of sixteen Ring Tones can be configure for use by this CO Line.	00-16	0

Table 4.4.4.1-1 Common Attributes

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 1	No Restriction	No Restriction	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 5	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") & Table C	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 6	Only Local Call (LD code/counter) & Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) & Table C	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only
STA COS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 9	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction
STA COS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call (LD code/counter) & Table C	No Restriction

Table 4.4.4.1-2 STATION/CO LINE TOLL RESTRICTIONS

Table 4.4.4.1-3 CALL METERING FUNCTION

ENTRY	CALL METERING TYPE
00	- None
01	- 50 Hz
02	- 12 KHz
03	- 16 KHz
04	- Singular Polarity Reverse (SPR)
05	- Plural Polarity Reverse (PPR)
06	- No Polarity Reverse (NPR)

4.4.4.2 Analog Attributes - PGM 141

Selecting Analog Attributes will display the Analog Attributes data input page. Enter a valid CO range and click **[Load]** to enter the Analog (PSTN) Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

× PGM Base Function Base Analog Attribute... × Favorite PGM 0 Q PGM Search Enter CO Range (1 - 998) : 2 Load Save CO Range 1 System ID & Numbering Plans Order Check All Attribute <u>↓</u>ª Value Range Station Data CO Line Signal DTMF 🔻 1 Board Based Data 2 Data(Fax) Station Number 3 SMDR Metering Unit None 🔻 CO Line Data ~ 4 Line Drop (CPT) OFF **v** Maintain CPT on Talking (answered by User) CO Line Overview 5 OFF • Common Attributes(140) 6 Flash Timer 10 (*10ms) 000-300 Analog Attributes(141) 7 Open Loop Detect Timer 0 (*100ms) 00-20 VoIP Attributes(142) 8 ICLID Ring Timer 0 00-20 (*1sec) ISDN Attributes(143) 9 PROCTOR SERVICE ON/OFF OFF • CO/IP Ring Assignment(144) 10 OFF T Analogue Line Monitor DID Service Attributes(145) LD Inter Digit Timer 11 0 (*1sec) 00-20 DISA Service Attributes(146) CO/IP Preset FWD Attributes(147) 12 LD Pause Count 0 0-10 MATM Attributes(149) NA ISDN Line Attributes(150) CID/CPN Attributes(151) T1 CO Line Attributes(152) DCOB CO Line Attributes(153)

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

Figure 4.4.4.2-1 Analog Attributes

Analog Attributes define various characteristics of Analog CO Lines under control of the system. Most characteristics require an On/Off setting; refer to the following table. Specific descriptions for CO Line (SMDR) Call Metering tones are provided in Table 6.4.2-2.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO Line Signal	Each analog CO Line can be assigned to send either DTMF or Pulses for dialed digits to the PSTN.	DTMF Pulse	DTMF
Data(Fax) Station Number	Each CO line can be assigned to recognize a FAX call when a specified station answers.	Station Number	
SMDR Metering Unit	This field selects the call-metering signal from the PSTN to indicate call cost, refer to Table 4.4.4.1-2.	See Table 4.4.4.1-2	None
Line Drop (CPT)	Each CO Line can be programmed to disconnect if error tone is detected.	OFF ON	OFF
Maintain CPT on talking (Answer by User)	The system can continuously monitor the CO Line during a call and, if error tone is detected, drop the call.	OFF ON	OFF
Flash Timer	This time sets the flash time.	000-300 (*10 msec)	50
Open Loop Detect timer	This entry sets the duration of open loop that will be	00-20	04

Table 4.4.4.2-1 Analog ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	recognized as a "Disconnect Signal".	(*100 msec)	
ICLID Ring Timer	When a call is received, the system may use ICLID (Incoming Caller ID) to route the call. The system will delay routing a call for this duration while awaiting ICLID. Enter a 00 to disable ICLID routing.	00-20 (*Sec)	4
Proctor Service	Each analog CO line can be assigned to send the station number as DTMF digits for Proctor service.	OFF ON	OFF
Analog Line monitor	The system can monitor and report faults on an	OFF ON	ON
LD Inter Digit Timer	This time is for setting the duration between digits for LD (Long Distance) call.	00-20 (*1sec)	0
LD Pause count	This count sets the number of Pause for Long distance call.	0-10	0

Table 4.4.4.2-1 Analog ATTRIBUTES

Table 4.4.4.2-2 CALL METERING FUNCTION

ENTRY	SMDR METERING UNIT TYPE
00	- None
01	- 50 Hz
02	- 12 KHz
03	- 16 KHz
04	- Singular Polarity Reverse (SPR)
05	- Plural Polarity Reverse (PPR)
06	- No Polarity Reverse (NPR)

4.4.4.3 VoIP Attributes - PGM 142

Selecting VoIP Attributes will display the Analog Attributes data input page. Enter a valid CO range and click **[Load]** to enter the VoIP Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

PGM Base Function Base	< Favorite PGM VoIP Attribut X		×
Q PGM Search	Enter CO Range (1 - 998) :	? Load	Save
System ID & Numbering Plans	CO Range 1		
Station Data	Check All Attribute La Value Range		
Board Based Data			
CO Line Data ~			
CO Line Overview			
Common Attributes(140)			
Analog Attributes(141)			
VoIP Attributes(142)			
ISDN Attributes(143)			
CO/IP Ring Assignment(144)			
< DID Service Attributes(145)			
DISA Service Attributes(146)			
CO/IP Preset FWD Attributes(147)			
MATM Attributes(149)			
NA ISDN Line Attributes(150)			
CID/CPN Attributes(151)			
T1 CO Line Attributes(152)			
DCOB CO Line Attributes(153)			

Table 4.4.4.3-1 VoIP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO VoIP Mode	The VoIP channels can support iPECS, H.323 or SIP protocols. This field defines the protocol for the VoIP channel(s).	COMMON/ H323 only/ SIP only/ RTP-Packet-Relay only/ H323 & RTP-Packet-Relay/ SIP & RTP-Packet-Relay	COMMON

4.4.4.4 ISDN Attributes - PGM 143

Selecting ISDN Attributes will display the ISDN Attributes data input page. Enter a valid CO range and click **[Load]** button to enter the ISDN Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998	

		avorite PGM	ISDN Attribute X			
Q PGM Search	Enter C	O Range (1 ·	• 998) :		2	Load Save
System ID & Numbering Plans	CO Ran					
Station Data	Order	Check All	Attribute <u>↓</u> ^a	Value	Range	
	1		TEI Type	Automatic 🔻		
Board Based Data	2		ISDN-SS CD/CR(CFU)	No Service		
CO Line Data ~	3		Advice of Charge	No Service		
	4		ISDN Line Type	u-Law 🔻		
CO Line Overview	5		Calling Sub-address	OFF V		
Common Attributes(140)	6		Screening Indicator	User Provided, NO S 🔻		
Analog Attributes(141)	7		ISDN Plus Code		Max 4 Digits	
VoIP Attributes(142)	8		CP/Alert inband	OFF V		
ISDN Attributes(143)	9		Disconnect inband	OFF V		
CO/IP Ring Assignment(144)	10		Disconnect with Inband Info	Ignore Inband Information <		
Control Con						
DISA Service Attributes(146)						
CO/IP Preset FWD Attributes(147)						
MATM Attributes(149)						
NA ISDN Line Attributes(150)						
CID/CPN Attributes(151)						
T1 CO Line Attributes(152)						
DCOB CO Line Attributes(153)						

Figure 4.4.4-1 ISDN Attributes

PGM 143 assigns attributes associated with ISDN lines in the entered range.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ТЕІ Туре	The TEI (Terminal Endpoint Identifier) is a unique identifier for each device attached to the ISDN line. When the system shares an ISDN connection with other devices, the TEI should be automatic to assure no conflict with the other attached devices. Otherwise, the Fixed identifier option should be employed.	Fixed/ Automatic	Automatic
ISDN – SS CD/CR(CFU)	Permits a user to access to ISDN Supplementary Call Deflection Service. (Except USA version).	No Service/ Call Deflection/ Call Rerouting	No Service
Advice of Charge	When assigned, the system will analyze the Advice of Charge information in the Facility Message according to the ETSI specifications with appropriate regional protocol support.	No AOC/ Italy & Spain/ Finland/ Australia/ Belgium/ ETSI STD	No Service

Table 4.4.4.4-1 ISDN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT			
ISDN Line Type	The system will encode voice using the A-law or u- law PCM format to match the installed ISDN back bone.	µ-Law/ A-Law	µ-Law			
Calling Sub-address	For outgoing calls, the user's station number may be included in the ISDN call SETUP message Sub-address field.	OFF ON	OFF			
Screening indicator	The ISDN Screening Indicator can be configured.	User Provided, No Service/ User Provided, Pass/ User Provided, Fail/ Network Provided.	User Provided, No Service			
ISDN PLUS Code	When the incoming CLI starts with "+", this value will be inserted in place of the "+" sign.	0000-9999	-			
CP/Alert inband	Send progress indication with in-band information in Call proceeding and Alerting messages.	OFF ON	OFF			
Disconnect inband	Send progress indication with in-band information in Disconnect message.	OFF ON	OFF			
Disconnect with Inband Info	 When system receives DISCONNECT message with Inband information from PSTN, the following option can be applied: Ignore Inband information: Line is disconnected Bypass Inband information: Progress Information is transferred Wait Release: System wait to send Release message till the other party is disconnected 	Ignore Inband information, Bypass Inband information, Wait Release	lgnore Inband information			

Table 4.4.4.4-1 ISDN ATTRIBUTES

4.4.4.5 CO/IP Ring Assignment - PGM 144

Selecting CO/IP Ring Assignment will display the CO/IP Ring Assignment data input page. Enter a valid CO range and click **[Load]** to enter the CO/IP Ring Assignment data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

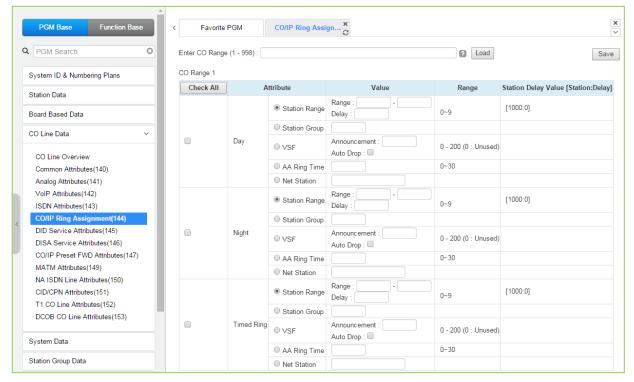


Figure 4.4.4.2-1 CO/IP Ring Assignment

Each "Normal" CO/IP line is assigned to signal a station, station group or VSF Announcement for an incoming call (Ring). Separate ring assignments are made for Day, Night, and Timed Ring mode. A delay from 1 to 9 Ring cycles can also be assigned, based on this assignment, the station/Station group will receive audible ring after a delay of the number of Ring cycles entered. In addition, when assigned to ring a VSF Announcement, the system can be programmed to disconnect after the announcement, 'Auto Drop'.

When CO/IP Lines are programmed to ring the built-in Auto Attendant, a delay of 0 to 30 seconds can be assigned as the AA Ring Time. The delay allows stations to be assigned Ring and to answer prior to signaling the AA. At expiration of the AA Ring Time, the call is sent to the assigned VSF announcement or announcement 1 when no VSF announcement is assigned.

4.4.4.6 DID Service Attributes - PGM 145

Selecting DID Service Attributes will display the DID Service Attributes data input page. Enter a valid CO range and click **[Load]** button to enter the DID Service Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

PGM Base Function Base		< Fa	avorite PGM	DID Service A X			×
PGM Search	0	Enter C	CO Range (1 ⋅	998) :			Save
System ID & Numbering Plans		CO Rai	nge 1				
Station Data		Order ⊥a	Check All	Attribute	Value		Range
Poord Poord Data	_	1		DID Start Signal	Wink •		
Doard Dased Data	_	2		DID Conversion Type	DID Digit Mask	•	
CO Line Data	~	3		Number of Digits Expected from DID Circuit	4		2 - 4
CO Line Overview Common Attributes(140)		4		DID Digit Mask			Must be 4 digits (include **' and '#') #: ignore digit, *: any kind of digit
VoIP Attributes(142)							
· · ·							
MATM Attributes(149)							
NA ISDN Line Attributes(150)							
CID/CPN Attributes(151)							
T1 CO Line Attributes(152)							
DCOB CO Line Attributes(153)							
	PGM Search System ID & Numbering Plans Station Data Board Based Data CO Line Data CO Line Data CO Line Overview Common Attributes(140) Analog Attributes(141) VoIP Attributes(142) ISDN Attributes(142) ISDN Attributes(143) CO/IP Ring Assignment(144) DI Service Attributes(145) DISA Service Attributes(146) CO/IP Preset FWD Attributes(147) MATM Attributes(149) NA ISDN Line Attributes(150) CID/CPN Attributes(151) T1 CO Line Attributes(152)	PGM Search System ID & Numbering Plans Station Data Board Based Data CO Line Data CO Line Data CO Line Overview Common Attributes(140) Analog Attributes(141) VoIP Attributes(142) ISDN Attributes(143) CO/IP Ring Assignment(144) DI Service Attributes(145) DISA Service Attributes(146) CO/IP Preset FWD Attributes(147) MATM Attributes(149) NA ISDN Line Attributes(150) CID/CPN Attributes(151) TI CO Line Attributes(152)	PGM Search Enter O System ID & Numbering Plans CO Rai Station Data 1 Board Based Data 2 CO Line Data ~ CO Line Overview 3 Common Attributes(140) 4 Analog Attributes(141) VoIP Attributes(142) ISDN Attributes(143) CO/IP Ring Assignment(144) DI Service Attributes(145) DISA Service Attributes(146) CO/IP Preset FWD Attributes(147) MATM Attributes(149) NA ISDN Line Attributes(150) CID/CPN Attributes(151) TI CO Line Attributes(152) 1	PGM Search System ID & Numbering Plans Station Data Board Based Data CO Line Data CO Line Overview Common Attributes(140) Analog Attributes(141) VoIP Attributes(142) ISDN Attributes(142) ISDN Attributes(143) CO/IP Ring Assignment(144) DI Service Attributes(145) DO/IP Preset FWD Attributes(147) MATM Attributes(149) NA ISDN Line Attributes(150) CID/CPN Attributes(151) TI CO Line Attributes(152)	PGM Search System ID & Numbering Plans Station Data Board Based Data CO Line Data CO Line Data CO Line Overview Common Attributes(140) Analog Attributes(141) VoIP Attributes(142) ISDN Attributes(143) CO/IP Ring Assignment(144) DD Service Attributes(145) DISA Service Attributes(145) DISA Service Attributes(147) MATM Attributes(149) NA ISDN Line Attributes(150) CID/CPN Attributes(151) TI CO Line Attributes(152)	PGM Search System ID & Numbering Plans Station Data Board Based Data CO Line Data CO Line Data CO Line Overview Common Attributes(140) Analog Attributes(141) VoIP Attributes(142) ISDN Attributes(143) CO/IP Ring Assignment(144) DID Service Attributes(145) DISA Service Attributes(145) DISA Service Attributes(145) CO/IP Preset FWD Attributes(147) MATM Attributes(150) CID/CPN Attributes(151) T1 CO Line Attributes(152)	PGM Search System ID & Numbering Plans Station Data Board Based Data CO Line Data CO Line Overview Co Line Overview Common Attributes(140) Analog Attributes(141) VolP Attributes(142) ISDN Attributes(143) CO/IP Preset FWD Attributes(145) DISA Service Attributes(145) CO/IP Preset FWD Attributes(147) MATM Attributes(149) NA ISDN Line Attributes(150) CID/CPN Attributes(151) T1 CO Line Attributes(152)



DID lines can be assigned the type of "Start" signaling and treatment of received digits. Digits can be used "as is" to route the call within the system, digits can be converted and used to route the call, or digits can be converted to a Table index to determine the call routing from a Table look-up. Refer to the following table for additional description of attributes and values.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
DID Start Signal	Assigns the type of DID start signaling, Immediate, Wink or Delayed for the CO/IP Line.	Immediate/ Wink/ Delayed	Wink
DID Conversion Type	The received DID digits can be treated to determine call routing, simple conversion (Convert), use "as is" (no treatment), or modify using Flexible DID Conversion Table (Look-up).	DID Digit Conversion/ Use 'as is'/ Modify using Flexible DID conversion table	Use 'as is'
Number of Digits Expected from DID Circuit	The number of digits expected from the PSTN DID circuit.	2~4	eMG80:3 eMG800:4 UCP:4
DID Digit Mask	DID digit modification sequence: "#" deletes the digit, "*" accepts the digit "as is", a digit $(0~9)$ replaces the digit. The modification is based on the position of the digit $(1~4)$ in the received number.	(0~9, *, #)	#***

Table 4.4.4.6-1 DID SERVICE ATTRIBUTES

4.4.4.7 DISA Service Attributes - PGM 146

Selecting DISA Service Attributes will display the DISA Service Attributes data input page. Enter a valid CO range and click **[Load]** to enter the DISA Service Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

PGM Base Function Base		Favo	rite PGM	DISA Servic	e Attx		
Q PGM Search	0	Enter CO I	Range (1 - 998)	:		C Load	
System ID & Numbering Plans		CO Range	1				
Station Data		Order <u>↓</u> a	Check All	Feature	Value	Range	
Board Based Data		1		Day	VSF Announcement : 0	0 - 201 (0:Service OFF, 201:Only Tone Mode)	
CO Line Data	~	2		Night	VSF Announcement : 0	0 - 201 (0:Service OFF, 201:Only Tone Mode)	
CO Line Overview Common Attributes(140)		3		Timed Ring	VSF Announcement : 0	0 - 201 (0:Service OFF, 201:Only Tone Mode)	
Analog Attributes(141)							
VoIP Attributes(142)							
ISDN Attributes(143)							
CO/IP Ring Assignment(144)							
DID Service Attributes(145)							
DISA Service Attributes(146)							
CO/IP Preset FWD Attributes(147)							
MATM Attributes(149)							
NA ISDN Line Attributes(150)							
CID/CPN Attributes(151) T1 CO Line Attributes(152)							
DCOB CO Line Attributes(152)							

Figure 4.4.4.7-1 DISA Service Attributes

DISA Service can be enabled on CO lines based on the system operation mode (Day, Night, and Timed). DISA calls may be routed to dial tone and await user dialing (simple routing) or through a multi-layered Audio Text menu assigning a VSF Announcement and a Customer Call Route (CCR) Table Index. The system can be programmed to disconnect after the announcement, 'Auto Drop', or follow the CCR Table routing with a user-recorded announcement requesting specific inputs from the user.

4.4.4.8 CO/IP Preset Forward Attributes - PGM 147

Selecting CO/IP Preset Forward Attributes will display the CO/IP Preset Forward Attributes data input page. Enter a valid CO range and click **[Load]** to enter the CO/IP Preset Forward Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

× × PGM Base Function Base CO/IP Preset ... Favorite PGM \sim Q PGM Search 0 Enter CO Range (1 - 998) : C Load Save CO Range 1 System ID & Numbering Plans Order La Check All Attribute Value Range Station Data 0 (*1sec) 00-99 PRESET FWD TIMER 1 Board Based Data 2 PRESET ICLID RING TBL INDEX Max 3 Digits(001-250) 3 PRESET VMID DIGIT Mailbox ID (Max 4 digit) CO Line Data \sim CO Line Overview Common Attributes(140) Analog Attributes(141) VoIP Attributes(142) ISDN Attributes(143) CO/IP Ring Assignment(144) DID Service Attributes(145) DISA Service Attributes(146) CO/IP Preset FWD Attributes(147) MATM Attributes(149) NA ISDN Line Attributes(150) CID/CPN Attributes(151) T1 CO Line Attributes(152) DCOB CO Line Attributes(153)

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

Figure 4.4.4.8-1 CO/IP Preset Forward Attributes

The CO/IP Preset Call Forward feature enables a CO line to initially ring at multiple stations and forward to a pre-determined destination. A separate timer can be defined for each CO/IP line for no-answer. The destination can be any index to the ICLID Ring Table in section 4.4.7.5 or a Voice Mailbox. The VMID field allows selecting a specific mailbox when the CO line call forwards to an external VM group.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Preset FWD Timer	An incoming call, which remains unanswered for this timer, is routed as defined in the ' <i>ICLID Ring</i> <i>Table Index section</i> '.	00-99 (Sec.)	00
Preset ICLID Ring Table Index	If an incoming call remains unanswered after the Preset Fwd time above, the call is routed as defined in the ' <i>ICLID Ring Table index</i> ' defined here.	001-250	
Preset VMID Digit	Each CO/IP line can be assigned a VMID (Voice Mail Id) that is sent to the external VM group to identify the desired Mailbox for the call.	Mailbox ID (Max. 4 digits)	

Table 4.4.4.8-1	CO/IP	PRESET	FORWARD	ATTRIBUTES
	00/11			

4.4.4.9 MATM Attributes - PGM 149

Selecting MATM Attributes will display the MATM Attributes data input page. Enter a valid CO range and click **[Load]** to enter the MATM Attributes data. Use the check boxes to indicate which attributes to modify; data for checked attributes is stored for the entire range of CO/IP Lines when saved. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button. These attributes are available for Country code 82.

× PGM Base Function Base MATM Attribut... Favorite PGM 0 Q PGM Search Enter CO Range (1 - 998) : 2 Load Save CO Range 1 System ID & Numbering Plans Check All Attribute Value Range Station Data MATM Sub Type LCO • Board Based Data MATM Start Signal Type Send Wink(IC) 2W OR 4W 4W • CO Line Data \sim DLY START TMR 6 (*50ms) 0-255 CO Line Overview WINK TMR 6 (*50ms) 0-255 Common Attributes(140) 6 SND ANS TMR (*50ms) 0-255 Analog Attributes(141) OSND RLS TMR 13 (*50ms) 0-255 VoIP Attributes(142) (*50ms) SND RING ON TMR 20 4-255 ISDN Attributes(143) (*50ms) SND RING OFF TMR 40 4-255 CO/IP Ring Assignment(144) SND RING RPT CNT CO 8 0-255 DID Service Attributes(145) SND Ring RPT CNT RD 2 DISA Service Attributes(146) 01-20 CO/IP Preset FWD Attributes(147) CO Ring STOP TIMER 30 (*1sec) 0-255 MATM Attributes(149) NA ISDN Line Attributes(150) CID/CPN Attributes(151) T1 CO Line Attributes(152) DCOB CO Line Attributes(153)

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

Figure 4.4.4.9-1 MATM Attributes

Table 4.4.9-1 MATM ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
MATM Sub Type	This is the analog trunk type for the MATM option board. COIU : LCO RDIU : RD (ring down, only for national army) LDIU : LD (loop dial, only for national army) EMC = E&M continuous, EMD = E&M discontinuous)	LCO, RD, LD, EMC, EMD, Unused	LCO
MATM Start Signal Type	This is the signal type for the analog trunk. This should be set with alternate trunk type. These can be set by testing with available values.	Send Wink (IC), Wait Seize Ack(OG), Send Wink (IC) and Wait Seize Ack(OG), Send Sub Answer (IC) and Wait Sub Answer(OG), Send Wink and Send Sub Answer(IC), Wait Ack and Wait Sub Answer(OG),	Send Wink (IC)

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		Send Wink and Send Sub	
		Answer(IC) & Wait Wink	
		and wait sub answer(OG),	
		Unused Type	
Q(A) = A(A)	For E&M Lines, this value should be set as	2W/	4167
2W or 4W	2 wire or 4wire to match the line.	4W	4W
DLY Start Timer	This is timer value for analog signaling.	0~255	6
Wink Timer	This is timer value for analog signaling.	0~255	6
SND ANS Timer	This is timer value for analog signaling.	0~255	6
OSND RLS Timer	This is timer value for analog signaling.	0~255	13
SND RING ON Timer	This is timer value for analog signaling.	4~255	20
SND RING OFF Timer	This is timer value for analog signaling.	4~255	40
SND RING RPT CNT	This is the second of famous law size size of	0.055	0
со	This is timer value for analog signaling.	0~255	8
SND RING RPT CNT	This is time well to far an along signaling	01.00	2
RD	This is timer value for analog signaling.	01~20	2
CO Ring STOP Timer	This is timer value for analog signaling.	0~255	30

Table 4.4.9-1 MATM ATTRIBUTES

4.4.4.10 NA ISDN Line Attributes - PGM 150

Selecting NA (North America) ISDN Line Attributes will display the NA ISDN Line Attributes data input page. Enter a valid CO range and click **[Load]** to enter the NA ISDN Line Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

PGM Base Function Base	< Favo	rite PGM	NA ISDN Line Att			
PGM Search C	Enter CO	Range (1 - 998)	:			bad
System ID & Numbering Plans	CO Range	1				
Station Data	Order <u>↓</u> a	Check All	Attribute	Value	Range	
Station Data	1		Local Exchange Type	NI2 T		
Board Based Data	2		SPID Number		Max 20 Digits	
CO Line Data 🗸 🗸	3		Directory Number		Max 20 Digits	
	4		EKTS Mode	None 🔻		
CO Line Overview	5		Type for 1 2 3	Unknown •		
Common Attributes(140)	6		Type for 4 5 6	Unknown 🔻		
Analog Attributes(141)	7		Type for 7 8 9	Unknown 🔻		
VoIP Attributes(142)	8		Type for 10 11	Unknown •		
ISDN Attributes(143)						
CO/IP Ring Assignment(144)						
DID Service Attributes(145) DISA Service Attributes(146)						
O/IP Preset FWD Attributes(146)						
/ATM Attributes(149)						
NA ISDN Line Attributes(150)						
CID/CPN Attributes(151)						
T1 CO Line Attributes(152)						
DCOB CO Line Attributes(153)						

Figure 4.4.4.10-1 NA ISDN Line Attributes

To comply with the North American ISDN standards, certain attributes must be defined for the system. These include Directory (telephone) Number and Service Profile Id (SPID) for the device. Note that this programming is required only for "Country Code" 1, USA installations. Refer to Table 4.4.4.10-1 for information on individual attributes.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Local Exchange Type	The type of ISDN determines several specifics of the protocol and is required for proper operation.	NI 1/ NI 2/ 5 ESS/ Nortel	NI 2
SPID Number	The Service Profile Identifier (SPID) is a number assigned to a fully initializing ISDN terminal and enables the Stored Program Control switching System (SPCS) to identify the ISDN terminal at layer 3 of the D-channel signaling protocol. The SPID is a free- formatted numeric string composed of 9 to 20 numeric {0-9} and International Alphabet (IA5) characters. The	20 digits	

Table 4.4.4.10-1 NA ISDN LINE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	SPID uniquely identifies a particular set of subscription parameters assigned to a TSP.		
Directory Number	Initializing terminals are required to store a 7-digit DN in order to perform the compatibility checking procedures that are part of call termination.	20 digits	
EKTS Mode	The EKTS (Electronic Key Telephone Service) terminal permits a user to operate those features that are specific to EKTS, as well as voice features that may function distinctly in the EKTS environment. EKTS allows a DN to be shared by more than one terminal, on the same or on different interfaces.	NONE/ EKTS	NONE
Type for 1/2/3	ISDN CALLED NO uses the International format, National format, Network format, Subscriber format, or Abbreviated format when the user dials 1~3digits.	Unknown/ International/ National/ Network/ Subscriber/ Abbreviated	Unknown
Type for 4/5/6	ISDN CALLED NO is constructed with International format, National format, Network format, Subscriber format, or Abbreviated format when the user dials 4~6 digits.	Unknown/ International/ National/ Network/ Subscriber/ Abbreviated	Unknown
Type for 7/8/9	ISDN CALLED NO is constructed with International format, National format, Network format, Subscriber format, or Abbreviated format when the user dials 7~9 digits.	Unknown/ International/ National/ Network/ Subscriber/ Abbreviated	Unknown
Type for 10/11	ISDN CALLED NO is constructed with International format, National format, Network format, Subscriber format, or Abbreviated format when the user dials more than 10 digits.	Unknown/ International/ National/ Network/ Subscriber/ Abbreviated	Unknown

Table 4.4.4.10-1 NA ISDN LINE ATTRIBUTES

4.4.4.11 CID/CPN Attributes - PGM 151

Selecting CID/CPN Attributes will display the CID/CPN Attributes data input page. Enter a valid CO range and click **[Load]** to enter the CID/CPN Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

PGM Base Function Base	<	Favo	orite PGM	CID/CPN Attribute×			
PGM Search) E	Inter CO	Range (1 - 998) :			2 Load	Save
System ID & Numbering Plans		CO Range	1				
Station Data		O rder <u>↓</u> ª	Check All	Attribute <u>↓</u> ª	Value		Range
Board Based Data				CID Password		Go to Setting	Max 12 Characters
Board Based Data		1		COLP Table Index	Station CLI V		
CO Line Data ~		2		CLIP Table Index	Station CLI V		
		3		Type of Number for Calling Party Info	National •		
CO Line Overview		4		Incoming Prefix Code Insertion	OFF V		
Common Attributes(140)		5		Outgoing Prefix Code Insertion	ON V		
Analog Attributes(141)		6		International Access Code			Max 4 Digits
VoIP Attributes(142)		7		My Area Code	1		Max 6 Digits
ISDN Attributes(143) CO/IP Ring Assignment(144)		8		My Area Prefix Code			Max 4 Digits
DID Service Attributes(145)		9		CLI TRANSIT	CFW •		
DISA Service Attributes(145)		10		ISDN Redirecting number	No Service V		
CO/IP Preset FWD Attributes(147)		11		Choice Incoming CLI	Transit Point CLI V		
MATM Attributes(149)		12		Calling Party Numbering Plan	ISDN/Telephony •		
NA ISDN Line Attributes(150)		13		Called Party Numbering Plan			
CID/CPN Attributes(151)		14		Station CLI Type	Station CLI 1 T		
T1 CO Line Attributes(152)		15		DID Remove Number			00-99
DCOB CO Line Attributes(153)		16		One Digit Remove	Disable •		00.00
		17		CID Mode	FSK •		
System Data				RCID Detect			
Station Group Data		18					
•		19		RCID Request	AUTO V		
ISDN Line Data		20		RCID Request First Delay Timer	30	*10ms	10-150
SIP Data		21		RCID No-Answer Timer	20	*sec	1-300
		22		RCID Digit Number	7		4-10
Tables Data		23		RCID Request Count	1 •		
Networking Data	-	24		RCID Request Retry Delay Timer	10	*10ms	10-30

Figure 4.4.4.11-1 CID/CPN Attributes

COLP: Connected Line Presentation / CLIP: Calling Line Identification Presentation

Setting CID Password directly

You can set the CID password to click "Go to Setting" button. After clicking it, you will move to the following PGM 162 and set the CID password, and then save CID password to mark tick on the save box and click the Save button.

Refer to Table 4.4.4.11-1 for information on individual attributes.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
COLP Table Index	When an incoming call on an ISDN Line is answered, the system will send caller id using the number from the CLIP/COLP Table (section 4.4.7.2) entry defined by this parameter. The station number is included as a suffix of	N/A 0-49 Station CLI	Station CLI

Table 4.4.4.11-1 CID/CPN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	the caller id. For "Using Station's COLP Attribute", the Station CLI type entered below will be used in place of the station number.		
CLIP Table Index	When a call is placed on an ISDN Line, the system will send caller id using the number from the CLIP/COLP Table entry defined by this parameter. The station number is included as a suffix of the caller id. For "Using Station's CLIP Attribute", the Station CLI Type entered below will be used in place of the station number.	N/A 0-49 Station CLI	Station CLI
Type of Number for Calling Party Info	For outgoing calls on an ISDN Line, this parameter defines the "Type of Number Plan" provided in Calling Party Information Element of the ISDN call SETUP message.	Unknown/ International/ National/ Unused/ Subscriber	National
Incoming Prefix Code Insertion	Regional ISDN providers may use the Local Area Prefix code for special services. In cases where the code is not provided in the incoming call SETUP message, the system can insert the My Local Prefix and My Area Code below in SMDR, LNR, displays, etc.	OFF ON	OFF
Outgoing Prefix Code Insertion	Regional ISDN providers may use the Local Area Prefix code for special services. The system can insert the "My Area Code" and "My Local Prefix Code" in the Connect message as defined in those items below.	OFF ON	ON
International Access Code	When an incoming call includes the international Country code in the ISDN call SETUP message, the Country code can be included in the station display. To include the Country code, Incoming Prefix insertion, and CLI display in Station Data must be ON.	Max. 4 digits	-
My Area Code	Regional ISDN providers may use the Local Prefix and Area codes for special services. The system will insert this Local Area Code in the call SETUP messages defined under the Incoming/Outgoing Prefix Code Insertion entries above.	Max. 6 digits	-
My Area Prefix Code	Regional ISDN providers may use the Local Prefix and Area codes for special services. The system will use this code for insertion of the Local Prefix Code in the call SETUP messages if Local Prefix Insertion is enabled above.	Max. 4 digits	-
CLI Transit	When the system must send CLI to the ISDN for an off-net call, the CLI can be either the original caller's CLI or the CLI of the Off-net forwarding/transferring station.	ORI/ CFW	CFW
ISDN Redirecting Number	When the system needs to send a Redirecting number to the ISDN for an off-net call, the Redirecting number can be either the original caller's CLI or the CLI of the Off-net forwarding/transferring station. If it is no service then system will not send this information. If it is configured for OGR CLI (original CLI) then system will send original CLI that is received from incoming CO line. If it is CFW CLI then system will send the redirecting CLI that is the CLI of the off-net call forwarding station.	NO SERVICE/ ORG CLI/ CFW CLI	NO SERVICE

Table 4.4.4.11-1 CID/CPN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Choice incoming CLI	Incoming CLI Choice – When ISDN setup message has two CLIs (Transit Point CLI / Original CLI), this option determines the CLI the system will recognize.	Original CLI/ Transit Point CLI	Transit point CLI
Calling party numbering Plan	ISDN Calling Party Numbering Plan can be configured.	Unknown, ISDN/Telephony, Data/Numbering, Telex, National Std, Private, Reserved	ISDN/ Telephony
Called party numbering Plan	ISDN Calling Party Numbering Plan can be programmable.	Unknown, ISDN/Telephony, Data/Numbering, Telex, National Std, Private, Reserved	Unknown
Station CLI Type	When the Station CLI is used with the CLIP or CLOP, one of five Station CLIs as defined in PGM 114 section 4.4.7.2 is used for this CO/IP Line as selected here.	Station CLI 1 – Station CLI 5	Station CLI 1
DID Remove Number	When a DID call is received on an ISDN Line, this entry determines the number of digits that will be removed starting at the first received digit.	00~99	00
One Digit Remove	Selects one digit remove mode in ISDN Called Digits for Italy DID.	Enable Disable	Disable
CID mode	The type of CID signal can be assigned according to the type of CID from the carrier.	Disabled/ FSK/ DT-AS(TAS) FSK/ DTMF/ RCID	FSK
RCID detect	Russia CID Detect Mode.	LOCAL/ ALL	ALL
RCID request	Russia CID Request Mode.	USER/ AUTO	AUTO
RCID Request First Delay Timer	Russia CID First Delay Timer.	010–150 (10msec)	30
RCID No-Answer Timer	Russia CID NO–Answer Timer.	001–300 (Sec.)	20
RCID Digit Number	Russia CID Digit Number.	04–10	07
RCID Request Count	Russia CID Request Count.	1–3	1
RCID Request Retry Delay Timer	Russia CID Retry Delay Timer.	10–30 (10msec)	10

Table 4.4.4.11-1 CID/CPN ATTRIBUTES

×

Save

4.4.4.12 T1 CO Line Attributes - PGM 152

Selecting T1 CO Line Attributes will display the T1 Line Attributes data input page. Enter a valid CO range and click **[Load]** to enter the T1 Line Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

X PGM Base Function Base T1 CO Line ... Favorite PGM Q PGM Search Θ Enter CO Range (1 - 998) : 2 Load CO Range 1 System ID & Numbering Plans Order La Check All Attribute Value Range Station Data Pause Timer 2 (*1sec) 1-9 1 Board Based Data (*100ms) 1-60 RELEASE GUARD 20 2 3 DT DELAY 10 (*100ms) 2-50 CO Line Data INTER DIGIT 15 (*20ms) 15-30 4 CO Line Overview (*20ms) 10 5 WINK Timer 07-15 Common Attributes(140) 60-40 (10pps) 🔻 6 OP RATE Analog Attributes(141) (*20ms) 0-127 7 SEZ DTC 3 VoIP Attributes(142) 7 RELEASE (*20ms) 0-127 8 ISDN Attributes(143) DTMF 9 • IASG TY CO/IP Ring Assignment(144) (*100ms) 2-9 10 RING DTC 2 DID Service Attributes(145) 60 (*100ms) 11 RING STOP 10-60 DISA Service Attributes(146) 3 12 1-6 CO/IP Preset FWD Attributes(147) COLLECT DIGIT MATM Attributes(149) 13 STORE TIME 15 (*1sec) 01-15 NA ISDN Line Attributes(150) CID/CPN Attributes(151) T1 CO Line Attributes(152) DCOB CO Line Attributes(153)

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

Figure 4.4.4.12-1 T1 CO Line Attributes

North American T1 standards require that the T1 terminating device, in this case iPECS system, include various "adjustable" timers and counters as described below.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Pause Timer	A timed pause may be included in a Speed Dial number, in which case, the pause time is defined by this entry. Not currently implemented.	1~9 (seconds)	2
RELEASE GUARD	The release guard timer defines the length of time the system will maintain a Line as busy after the call has been terminated to assure the PSTN has sufficient time to 'clear down' the circuit. Not currently implemented.	01~60 (100 ms)	20
DT DELAY	The DT (Dial tone) Delay timer defines the duration dial tone must be received for DT recognition. Not currently implemented.	02~50 (100 ms)	10
INTER DIGIT	The Inter Digit timer defines the duration between digit transmissions. Not currently implemented.	15~30 (20 ms)	15
WINK Timer	For TIE or DID Lines the Wink timer defines the length of time the 'wink' (T1 TIE line circuit reversal) will last.	7~15 (20 ms)	10
OP RATE	For Pulse signaling, defines the duration and make/break ratio of each pulse.	60-40(10pps) 66-33(10pps)	60-40 (10pps)

Table 4.4.4.12-1 T1 CO LINE ATTRIBU	JTES
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ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		60-40(20pps) 66-33(20pps)	
SEZ DTC	This timer defines the length of a valid 'line seizure' signal.	0~127 (20 ms)	3
RELEASE	For Ground Start, this timer defines the minimum length of time ground will not be applied to the TIP side from the PSTN.	0~127 (20 ms)	7
IASG TY	Incoming Address Signaling Type defines the type of signaling (DTMF or Pulse) expected.	PULSE/ DTMF	DTMF
RING DTC	The Ring DTC (detect) timer defines the minimum acceptable length of the Ring-on time during a ring cycle.	2~9 (100 ms)	2
RING STOP	The Ring Stop timer defines the maximum Ring-off time during a ring cycle.	10~60 (100 ms)	60
COLLECT DGT	Collect DGT (digits) defines the number of digits expected on a DID line.	1~6	3
STORE TIME	For DID lines, this timer defines the maximum delay between incoming DID digits.	1~15 (second)	15

Table 4.4.4.12-1 T1 CO LINE ATTRIBUTES

4.4.4.13 DCOB CO Line Attributes - PGM 153

Selecting DCOB CO Line Attributes will display the DCOB Line Attributes data input page. Enter a valid CO range and click **[Load]** button to enter the DCOB Line Attributes data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

	PGM Base Function Base		< Favor	ite PGM	DCOB CO Li ×					×
	Q PGM Search	0	Enter CO I	Range (1 - 99	8) : [2	.oad	Save
	System ID & Numbering Plans		CO Range	1						
	Station Data		Order <u>↓</u> a	Check All	Attribute	Value	Range			
		_	1		Line Status	6	1-9			
	Board Based Data		2		DNIS Service	OFF T				
	CO Line Data	~	3		Number of CLI Digits	10	1-15			
		_	4		DCOB Type	DID	•			
	CO Line Overview		5		Call Category	1	1-9			
	Common Attributes(140)		6		Number of Digits Expected from DID Circuit	0	0-32			
	Analog Attributes(141)									
	VoIP Attributes(142)									
	ISDN Attributes(143)									
	CO/IP Ring Assignment(144)									
<	DID Service Attributes(145)									
	DISA Service Attributes(146)									
	CO/IP Preset FWD Attributes(147)									
	MATM Attributes(149)									
	NA ISDN Line Attributes(150)									
	CID/CPN Attributes(151)									
	T1 CO Line Attributes(152)	- 11								
	DCOB CO Line Attributes(153)									

Figure 4.4.4.13-1 DCOB CO Line Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Line Status	This parameter defines the code that the system will send to indicate idle line status in accordance with E1R2 specifications.	1~9	6
DNIS Service	In R2, this field determines whether system will send caller information to PX or not.	OFF ON	OFF
Number of CLI Digits	This parameter defines the number of digits expected as the Calling Line Identification from digital CO lines.	01~15	10
DCOB Туре	According to this type, the line can be restricted to the type of service, incoming DID and outgoing calls (DOD).	DID/DOD, DOD, DID	DID
Call Category	This parameter defines the code sent in response to a call category request from the network in accordance with E1R2 specifications.	1~9	1
Number of Digits Expected from DID circuit	This parameter defines the number of digits expected as DID digits from digital CO lines. If set to "0", the number of digits defined in PGM 145 is used.	0~32	0

Table 4.4.4.13-1 DCOB LINE ATTRIBUTES

4.4.5 System Data

Selecting the System Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

System Data V				
System Attributes(160~161)	Favorite PGM			
System Password(162)				
Alarm Attributes(163)				
Attendant Assignment(164)	System Overview	System IP Plan(102)	Device IP Plan(103)	Common Attributes(111)
Multicast IP/Port(165)	System ID & Numbering PI	System ID & Numbering Pl	System ID & Numbering Pl	Station Data
DISA COS(166)				
DID/DISA Destination(167)	Flexible Buttons(115/129)	Common Attributes(140)	CO/IP Ring Assignment(1	CID/CPN Attributes(151)
External Control Contacts(168)	Station Data	CO Line Data	CO Line Data	CO Line Data
LCD Display Mode(169)				
LED Flashing Rates(170)	System Attributes(160~1	System Password(162)	Station Group Assignme	Station Group Attributes(
Music Sources(171)	System Data	System Data	Station Group Data	Station Group Data
PBX Access Codes(172)				
RLP Priority(173)	Station Authorization Co	System Authorization Co	Flexible DID Conversion(
RS-232 Port Settings(174)	Tables Data	Tables Data	Tables Data	
Serial Port Selections(175)				
Pulse Dial (Break/Make) Ratio(176)				
SMDR Attributes(177)				
System Date & Time(178)				
System Multi Language(179)				
System Timers(180~182,186)				
In Room Indication(183)				
Web Access Authorization				
Station Web Authorization				
NTP Attributes(195)				
SNMP Attribute(196)				
Hot Desk Attributes(250)				
System Call Routing(251)				
CO Call Rerouting(252)				
VM COS Attributes(253)				
Static Route Table(254)				
Access Control List(255)				
Attendant Ring Mode (257)				
System Speed Dial				
Custom Messages				
PPTP Attributes				
PPP Attributes(205)				

Figure 4.4.5-1 System Data Main Page

4.4.5.1 System Attributes - PGM 160 & 161

Selecting System Attributes will display the System Attributes data entry page. Selecting the blue colored text in the Table header will sort the table based on the selected column. Click **[Save]** button after changing Value.

PGM Search				Save
ystem ID & Numbering Plans	Order ⊥a	Attribute <u>↓</u> ª	Value	Range
tation Data	1	Attendant Call Queued Ringback Tone	MOH	
	2	Camp-On MOH/Ring-Back Tone	МОН	
oard Based Data	3	CO Dial Tone Detect	OFF V	
O Line Data	4	CO Line Choice	Last •	
	5	DISA Retry Count	3 •	
/stem Data 🗸 🗸	6	External Night Ring	OFF V	
	7	Hold Preference	System 🔻	
System Attributes(160~161)	8	Print LCR Converted Digits	LCR V	
System Password(162)	9	Attendant Call Queuing	OFF V	
Alarm Attributes(163) Attendant Assignment(164)	10	USE PGM_0 IN ALL ATD	OFF V	
Multicast IP/Port(165)	11	Off-Net Prompt Usage	ON T	
DISA COS(166)	12	CO to CO Unsupervised Conference Timer Extend	OFF T	
DID/DISA Destination(167)	13	ACD Manager Print	OFF T	
External Control Contacts(168)	14	CALL LOG Num	15 (Num)	15-50
LCD Display Mode(169)	15	Repeat DTMF Tone	OFF T	
LED Flashing Rates(170)	16	Off-Hook Ring Type	Mute •	
Music Sources(171)	17	Page Warning Tone	ON V	
PBX Access Codes(172)	18	Automatic Privacy	ON T	
RLP Priority(173)	19	Privacy Warning Tone	ON T	
RS-232 Port Settings(174)	20	ACD Print Enable	OFF T	
Serial Port Selections(175)	21	ACD Print Timer	10 (*1sec)	001-255
Pulse Dial (Break/Make) Ratio(176)	22	Clear ACD Database	OFF T	
SMDR Attributes(177)	23	Override First CO Group	ON V	
System Date & Time(178)	24	Codec Type	G.711 •	
System Multi Language(179)	25	G.711 Packetization	20 T (*1ms)	
System Timers(180~182,186)	26	G 723 Packetization	30 T (*1ms)	
In Room Indication(183)	27	Network Time & Date	Disable	

Figure 4.4.5.1-1 System Attributes

System Attributes define settings that affect system wide features and functions. Generally, the entry will turn the feature ON (enable) or OFF (disable). Refer to Table 4.4.5.1-1 for a description of the Attributes and the data entries required.

Setting CID Password directly

You can set the CID password to click "Go to Setting" button. After clicking it, you will move to the following PGM 162 and set the CID password, and then save CID password to mark tick on the save box and click the Save button.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Attendant Call Queued Ring Back Tone	When Attendant is busy with receiving call, the system will provide either Ring-back tone or Background music (MOH). If MOH is selected, the Music Source must be defined in ' <i>Music source – PGM171</i> '.	MOH/ Ring-Back Tone	МОН
Camp-On MOH/Ring- Back Tone	When Camp-On is used, the calling station will receive either ring-back tone or MOH. If MOH is selected, a source must be defined in ' <i>Music source – PGM171</i> '.	MOH/ Ring-Back Tone	МОН
CO Dial Tone Detect	The system can use dial-tone detection or a timed pause for speed dial numbers that contain a Pause.	OFF ON	OFF
CO Line Choice	CO Lines are selected by the system from groups using either the LAST used, FIRST or ROUND robin method.	LAST FIRST ROUND	LAST
DISA Retry Count	A DISA user is allowed to retry erroneous authentication code entries. This entry sets the number of retries before the system disconnects.	1~9	3
External Night Ring	CO/IP calls, which are assigned UNA, can activate the Loud Bell Contact. While in the Night mode, an incoming call will activate the contact.	OFF ON	OFF
Hold Preference	A single depression of the [Hold] button places the call on the preferred hold, System or Exclusive.	System/ Exclusive	System
Print LCR Converted digits	SMDR will output the number dialed by either the system's LCR or the user.	LCR/ USER	LCR
Attendant Call Queuing	The system can be configured to queue incoming calls to a busy Attendant.	OFF ON	OFF
USE PGM_0 IN ALL ATD	This field allows Main Attendants to activate Day/Night mode and other System Attendant menus except PGM 06 – Record system announcement. (Not available in USA version.)	OFF ON	OFF
Off-net Prompt Usage	When a call is routed to a destination external to the iPECS, the Off Net routing prompt can be played. (Not available in US version)	OFF ON	ON
CO to CO Unsupervised Conference Timer Extend	When an Unsupervised Conference is established with DISA, Off-Net Fwd, etc., the Unsupervised Conference timer determines the allowed duration of the call. If enabled here, the user may extend the allowed duration.	OFF ON	OFF
ACD Manager Print	When the optional ACD Event messages are required, the system must be enabled here to send the events.	OFF ON	OFF
CALL LOG Number	The Call Log saves the Outgoing call, Received call, or Lost call information and can be displayed by pressing Call Log Display Button. The maximum size of the Call Log per station is defined here.	15~50	15
Repeat DTMF tone	If enabled, the system will repeat DTMF tones to the caller's station when the call is routed to an off-net location.	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Off-Hook Ring Type	Off-hook ring can be a single tone burst or muted normal ring.	MUTE/ BURST	MUTE
Page Warning Tone	A warning tone can be sent prior to a page announcement.	OFF ON	ON
Automatic Privacy	Automatic Privacy can be disabled, allowing stations to join an active CO/IP call. A warning tone can be provided, see Privacy Warning Tone below.	OFF ON	ON
Privacy Warning Tone	If desired, a warning tone can be provided when privacy is overridden.	OFF ON	ON
ACD Print Enable	ACD statistics can be periodically sent to the assigned serial port. To provide periodic reports, this feature must be ON.	OFF ON	OFF
ACD Print Timer	This entry defines the time, in 10-second increments, between the periodic ACD reports assigned above.	001~255 (1 sec)	010
Clear ACD Database	When a periodic report is sent, the ACD database can be cleared automatically, if "ON".	OFF ON	OFF
Override 1st CO Group	When a user dials '9', the system can search all CO/IP Groups for the first available CO/IP line.	OFF ON	ON
Codec Type	The default codec can be defined as G.711, G.729, G.722 or G.723.1 for decreased bandwidth needs. The selected codec will be used on all internal communications as well as for remote iPECS devices.	G.729/ G723.1/ G711/ G722	G711
G.711 Packetization	The G.711 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.711 codec is used.	10/20/30 (1 msec)	020
G.723 Packetization	The G.723.1 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.723.1 codec is used.	30/60 (1 msec)	030
Network Time/Date	The system can use ISDN Network time or NTP to synchronize time with the ISDN or data network. ISDN sync is not available in USA version.	Disable/ ISDN/ NTP	Disable
Incoming Toll Check	The system can invoke COS dialing restrictions when a user dials while connected to incoming call.	OFF ON	ON
Web Server Port/TLS for Web	This field determines the TCP port employed to access the system WEB server. This field also enables Transport Layer Security (TLS) for access to Web Admin.	00001-65535/ Enable or Disable	80/ Disable
Auth Retry Count	When an Authorization code is required, the user may attempt to enter a Valid code up to the maximum value defined in this field.	1-9	3
Simple Auth Code Usage	System Authorization codes are entered by the user as "*" and the code (ON) or "*"+ the Auth code index and the code (OFF).	OFF ON	ON
COS 7 when Auth Fail	If a user fails to enter a valid Authorization code in the number of attempts assigned in Auth Retry Count above, the station is disconnected or the Station COS is changed to COS 7. In the latter case, the user must employ COS Restore in Station User PGM 2 to return the station to the normal COS.	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Unified Message Format	System Integration Messages are sent out the defined serial or TCP channel.	OFF ON	OFF
Conference Room CO Tel Number	ISDN DID number an external party must dial to enter a Conference room.	Max. 15 digits	
Record warning tone	When call recording is active, a tone can be sent to all connected parties to indicate the conversation is being recorded.	OFF ON	ON
UCP (MPB) DIFF SERVE	Diff-Serv Code Point applied to packets from LAN port of the UCP (iPECS eMG LAN port of the MPB).	00-63	46
Device Upgrade Mode	Transfer mode for upgrades from MPB to an iPECS device.	FTP TFTP	FTP
CO Transfer Tone	When a CO call is transferred to a busy extension, Ring Back Tone or Music On Hold will be played to the CO Line.	MOH/ Ring-Back Tone	Ring-Back Tone
Conference Warning Tone	When a new member joins a conference room, the system provides warning tone to conference members.	OFF ON	ON
Dummy Dial Tone	When a CO line does not provide dial tone, the system can provide dummy dial tone.	Unused/ Use	Unused
SIP Station Mode	SIP phones may set-up a point-to-point RTP connection (PTP) or to assure a controlled connection, RTP can be routed via a VoIP channel (RTD).	RTD/ PTP	Routed
SMS Center Number	When the PSTN will be used to send SMS, the phone number of the Short Message Service Center must be entered.	Max. 23 digits	
SMS Center CLI	When the CO/IP Line will be used to receive SMS, the Caller Id expected from the Short MSG Service Center must be defined.	Max. 23 digits	
SMS Protocol	Center must be defined. None/ ETSI-P1/ ETSI-P2/ The Short Message Service Protocol must be selected to support SMS. SIP-Text/ SIP-Text/ SIP-XML/ KT IP-PBX/ SKN IP-PBX/ KT XML KT XML		NONE
G.722 Packetization	The G.722 voice frame packetization time determines the interval at which voice samples are packetized and sent when the G.722 codec is used.	10/20/30 (1 msec)	020
Transit-out security	The system will check the IP address for transit-out calls in the master system. If not valid the transit-out call is denied.	Unused/ Use	Use
Emergency call attendant Notify	The Attendant can be notified when another user in the system dials emergency number.	Unused/ Use	Use
3-Way Conference Preference	When 3-way conference calling, the system uses the selected device to establish the conference mixing. When "Local" is assigned, the device, such as a SIP	Local/ MCIM	Local

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	phone, must provide the mixing. This option is available only for UCP.		
First digit * in SPD	Normally, when "*" is the first digit in a Speed Dial number, the Display Security feature is activated so that the number is not shown in the LCD of iPECS IP or LDP Phones. Otherwise, the "*" is sent as the first digit to the carrier.	Display Security/ Digit *	Display Security
Use Strong Password	When enabled, passwords in PGM 162 must be longer than 10 digits and include both numbers and characters.	OFF ON	ON
VSF SMTP port	SMTP port used for the VSF and UVM gateway (VMIU/VMIB).	00001~65535	25
CTI IP	When assigned, the system will accept 3 rd party TAPI messages only from assigned IP address.		0.0.0.0
Intercom busy service	When busy, an intercom call may use Off-hook Voice- Over or Intrusion to connect to the called intercom party.	Voice-over/ Intrusion	Voice over
Auto save new message	After listening to a voice message, if the user takes no action, the system can automatically save the message or leave the message in the new message category.	Unused/ Use	Unused
IGMP query usage	The system employs multi-cast packets for registration and certain general functions such as MOH. With some multicast snoop enabled Layer 2 switches, multicast packets are not forward unless an IGMP query device exists in the network. This entry enables the IGMP query option and system sends periodic IGMP query message to avoid multicast blocking.	OFF ON	OFF
IGMP query interval timer	This timer defines the interval for each IGMP query message.	0~3600 (Sec.)	180
IGMP query all host	IGMP queries are sent to all IP hosts (ON) on the network or to iPECS devices only. For All Hosts, IP address 224.0.0.1 is used otherwise the iPECS specific 239.20.19.50 IP address is used. If problems occur with MOH, the "All Hosts" may correct the issue.	OFF ON	ON
IGMP query generic	This entity specifies a group addresses being queried. If ON is selected, all multicast group are queried. If OFF is selected, iPECS registering device group (239.20.19.50) is queried only. This should be ON when there is a MOH problem.	OFF ON	OFF
Restrict star and pound	If enabled, calls using * or # as the first digit are prohibited by the system.	OFF ON	OFF
Restricted Dialing Display After Answer	If a restricted number is called, the system will output an SMDR record for the call after the call is answered.	OFF ON	ON
IP BIND USAGE	If It's ON, VOIU/VOIB/VOIM will apply IP-Binding with information in PGM130 / PGM133 (Media port).	OFF ON	OFF

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ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
New 5 Wake Up Usage	With the "New Wake-Up" option, the user can assign five alarm notification times, otherwise only one Wake-Up time can be set.	OFF ON	OFF
Easy 5 Wake Up Usage	If this value is set to ON, and New 5 Wake Up Usage is also set to ON, each station user can enter his/her wake up time without entering wake up type and wake up index.	OFF ON	OFF
Station VM Feature Usage	If this option is set to ON, Station VM feature (PGM 127) can be used. Enhanced features of the VSF/UVM can be disabled. Features controlled by this setting include as below: - Company Directory - Remote Announcement Recording - Administrator Mailbox - Distribution List - Mark a Message as Private, Urgent, or Delivery Confirmation - Record Greeting through CCR - Voice Mail Class of Service	OFF ON	ON
End code(#) usage in System Auth Code	If this option is set to ON, End code (#) must be entered when system Auth code is entered.	OFF ON	OFF
Remote VM Access	If this value is OFF, the user cannot access to VSF mailbox via DID, DISA CO call and so on (i.e. through CO line channel).	OFF ON	ON
Transfer Tone Usage	If this value is ON, Warning tone is served to the [transfer to] station. This is only applied to screened transfer case.	OFF ON	OFF
CID Password Usage	If this value is ON, a user must enter the CID password to modify an admin value about CID setting.	OFF ON	OFF
LCR Dial Tone Detect	If this value is set to ON, the system first checks dial tone in case on analog CO Lines then LCR dialing is completed. If no dial tone is detected, the call is rerouted to Alternate DMT Index. If LCR type is set to M13, LCR dial tone detect option is not applied.	OFF ON	OFF
ICM call log	If this value is set to ON, the system provides an ICM Call log for iPECS IP and LDP Phones.	OFF ON	OFF
Mobile Phone Presence Service port	This is for an interface between eMG and external server that sends http/xml data. Currently the first usage of this port is 'mobile phone presence' service. If set to a valid port the presence service will be implemented and the system will await messages for presence from the external server.	00001~65535	00000
Mobile Phone Presence State Sync	When the system receives presence information for a mobile extension from external server, the system synchronizes the station's call state with this presence information. A busy presence will set the station to busy.	OFF/ DSS LED only/ Station Status	Station Status

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Mobile Phone Presence Force Idle Timer	The system will return a station's state to idle if there is no updated presence information from external server for the duration of this timer.	0~3600 (Sec.)	0
Attendant Password Usage	If this value is set to ON, system requests a password: When a user enters Attendant program ([PGM] + 0, When an Attendant enters Speed program, When a user assigns attendant program code ([PGM] + 0) to Flexible button,	OFF ON	OFF
Picked-up station name usage	Name of picked up station is display when pickup internal call.	OFF ON	ON
Display LCR mode	Display "LCR MODE" when LCR is activated.	OFF ON	ON
VM Notify to Mobile Extension over CO	If this value is set to ON, an analog Loop Start CO Line can be used for the VM notification call to the Mobile Extension.	Disable Enable	Disable
MODEM Associated Station/CO line	When a call is received by the assigned CO Line, the call is routed to the system's built-in modem. This option is available only for eMG80 & eMG800.	CO/STA	eMG80:STA/ 239 eMG800:STA/2 199
Display {MEET ME} Soft button	If this value is set to OFF, {MEET ME} soft button is not displayed during a paged.	OFF ON	ON
Number of CLI Wait List	The system check the status of each device with a polling message periodically using this timer.	0-255	0
Emergency Mailbox Station	When an Emergency Mailbox Station is assigned, an emergency call placed by a station is recorded automatically to the assigned mailbox.		
MSVC XML Port	The XML port used to support Web callback, call- through and iPECS ClickCall application for MSVC (Mobile Service) must be defined.	00001~65535	7878
IPCR Announce for recording warning	When ON, the IPCR server Call Recording notification announcement is played to the caller in place of the warning tone.	OFF ON	OFF
IPCR Announce for only incoming	User can select IPCR Announce only when it's incoming by setting ON.	OFF ON	OFF
Mobile EXT CO Access Password Check	When a mobile extension places an external call using an iPECS CO/IP Line, the user may be required to enter a valid Authorization code to place the call.	OFF ON	OFF
Hold key usage on paging	When ON, the Hold key is used for paging.	OFF ON	ON
Device Info Request Interval	The system checks the status of each device with a polling message at intervals of this timer.	15 ~ 255 seconds	15
Dial By Name List	The Dial by Name feature can allow stations in any ICM tenancy groups to call a station any in ICM Tenancy group. When desired, Dial by Name can be limited to function within allowed Tenancy calling groups, PGM 125.	All, Accessible ICM Group only	ALL
Dial By System Speed		All,	ALL

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Name List	Only", the system speed dial number of Accessible system speed zone (System Speed Zone (232)) is displayed in {Dial by Name}.	Accessible System Speed Zone Only	
Default Web Language	The user can select the display language used in the Web pages. Either English or the "Local" language can be selected. Note the "Local Language" must be entered in the Multi-Language file in Maintenance section.	English/ Local language	English
No Range Load Limit on Web Admin	OFF: Limited index range will be accepted (e.g. 1- 100) ON: No limitation of table index (e.g. 221, 222, 270, etc)	OFF/ON	ON
Forward limitation by caller COS	Caller (internal station) call to a station offnet forwarded. It can be forwarded by caller COS if it's ON.	OFF/ON	OFF
No CLI Call Log	Leave system Call log even though there is no CLI information if it is ON. Otherwise Call log is not leaved.	OFF ON	OFF
Remote VM Forward Access	If the value is ON, Call Forwarding setting from remote access is enabled. If the value is OFF, Call Forwarding setting from remote access is disabled.	OFF ON	ON
DB Backup to USB monthly	System downloads the database to USB periodically. The user can access, copy and delete files in USB	N/A, 1, 15	
DB Backup to USB weekly	drive via web admin. So you can back up DB by choosing the specific date for Monthly or Weekly.	N/A, Mon ~ Sun.	
SLT Line Monitor	SLT line supervision is to be supported to check the line connection/disconnection periodically as programmed - daily or programmed time. When the line is disconnected, alarm call/message notification is provided to pre-defined destinations like other alarms. System will send e-mail notification according to "Common SMTP Attributes" and "Alarm Attributes". This is to provide more reliability for mission-critical services for hospitality or health care solutions (i.e. bath alarms using SLT line). Conditions - Normal SLT service is not available during detection period since the detection takes several seconds Ringer test determines the presence of appropriate ringer terminations on the line. The measured impedance must be within the defined limits: 1.4 k Ω (5 REN) ~ 40 k Ω (0.175 REN). Otherwise the test fails, which means that normal SLT device can be detected, but if simple device which does not provide the proper ringer impedance is connected, then we cannot detect it properly Supported system options: UCP/eMG80/800 with Unified 2.1 software	OFF ON	OFF

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	- Supported G/W & Boards: UCP-SLTM, UCP100 SLTU, eMG80/800 SLIB		
SLT Line Monitor Time	The system monitors if SLT Line functions correctly at a preset time in this field.	0-23	0
UCS Ring ACK Count	UCS Client can be checked by Ring ACK Message. If the Ring ACK message is sent and get no ACK message, System set the state of UCS Client on OOS (Out of service) after the set of Ring ACK count. If the Ring ACK Count is 0, the UCS Client goes to OOS (Out Of Service) after 1 time. If the count is 2, UCS Client can go to OOS (Out Of Service) at 3 times. UCS Client is ringing before expiring the Ring ACK timer set on System Timers 'UCS Ring ACK Timer' and afterwards will hear Error tones.	0-9	0
Dial Back to Caller from Remote VM Access	A user accesses to voice mail from remote, the user can make a call to the caller of the voice mail like below. If 'Toll Free' is selected, the user can make a call to the caller of the voice mail. If 'toll check' is selected, Station COS will be applied. If 'Rejected' is selected, the user can't make a call to the caller of the voice mail.	Toll Free, Toll Check, Rejected	Toll Free
Web Admin Login Failure count to block	For security, administrator can set the limited count to log in Web admin from 5 to 99.	5-99, o: unused	5
Web Admin Hacking Block Period	This setting time is the duration of blocking the access to Web admin if Web admin login fails.	5-60 minutes	5
Web Admin Hacking Block Email Notification	If this option is Enable, System send the notification by email about blocking the web admin. The email address is following the below 'Alarm Receiver E-Mail Address(To) & Notification Receiver E-Mail Address(To)'.	Disable, Enable	Disable
	SMDR/ACD/Alarm Mail Attribute		
	Common SMTP Attributes		
SMTP Server IP Address	SMTP server IPv4 address to receive the SMDR E- mail reports.	12-digits	0.0.0.0
SMTP Server Domain Address	SMTP Mail server Domain address to receive the SMDR e-mail reports. Check DNS IP address setting.		
SMTP Port	This field defines the TCP/IP port that the system will employ when communicating with the SMTP E-mail server. (It is moved to web admin PGM 160-161)	1-65535	25
SMTP Security Connection	The system can support basic security policies when communicating with the SMTP E-mail server. Note the server must also be configured for the selected security protocol.	No security/ SSL/ TLS	No security
E-Mail Account ID	This field defines the user's ID for SMTP server. If the user's ID and password is assigned, SMTP server will check the validity of the user ID and password.	Max. 40 characters	
E-Mail Account	This field defines the user's password for SMTP	Max. 20	

Table 4.4.5.1-1 SYSTEM ATTRIBUTES					
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT		
Password	server. If the user's ID and password is assigned, SMTP Mail server will check the validity of user ID and password.	characters			
Sender E-Mail Address (From)	E-Mail address used by the system as the "From" address when sending Database, SMDR, ACD, and Alarm reports.	Max. 40 characters			
Sender System Domain Name	Domain name of SMTP Mail server to receive SMDR reports. This field is used in place of SMTP Mail Server IP Address above.	Max. 18 characters			
	Database Attributes [Send Mail]				
[Sen	d Mail] button is used for sending the mail after filling ou	t the below menu			
Database Mail Send Monthly Set	Sets day of month for Database to be sent on a monthly basis (NA for no monthly reports, select the day for 1 or 15).	NA/ 1/ 15	NA		
Database Mail Send Weekly Set	Sets day of week to send Database weekly.	Day-of week	N/A		
Database Type	Select the desired database type: All database, System speed, Station speed, LCR, etc.		All Database		
Database Receiver Mail Address	E-mail address to receive the Database E-mail reports.	Max. 40 characters			
	SMDR Attributes				
[Sen	d Mail] button is used for sending the mail after filling ou	t the below menu			
SMDR Mail Send Weekly Set	Sets day of week to send SMDR data weekly.	NA, Monday to Sunday	N/A		
SMDR Mail Send Daily Set	Sets time-of-day for SMDR data to be sent on a daily basis (00 for no daily records, 01-23 for hour of the day).	00-23			
SMDR Mail Auto Send Set	If the SMDR buffer is full, the system can automatically send a notification by E-mail.	OFF ON	OFF		
SMDR Mail Auto Delete Set	Delete SMDR records after sending E-mail.	OFF ON	OFF		
SMDR Receiver Mail Address	E-mail address to receive the ACD E-mail reports.	Max. 40 characters			
	ACD Attributes				
[Ser	d Mail] button is used for sending the mail after filling ou	t the below menu			
ACD Mail Send Weekly Set	Sets day of week to send ACD statistic data weekly.	NA, Monday to Sunday	N/A		
ACD Mail Send Daily Set	Sets time-of-day for ACD statistic data to be sent on a daily basis (00 for no daily records, 01-23 for hour of the day).	00-23	N/A		
ACD Database Delete After Mail Send	Delete ACD statistic data after sending E-mail	OFF ON	OFF		
ACD Receiver Mail Address	E-mail address to receive the ACD E-mail reports.	Max. 40 characters			

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT			
Alarm Attributes						
[Sen	d Mail] button is used for sending the mail after filling ou	t the below menu				
Alarm Receiver E-Mail						
Address(To) &	The system will send email to saved E-Mail Address	Max. 40				
Notification Receiver	when system alarm is occurred or system restarts.	characters				
E-Mail Address(To)						
	LDAP Server Settings					
Server Display Name	When the UCS Client requires access to an LDAP server, the system will provide the LDAP server information to the client. The server name is defined in this field.	15 characters	LDAP Server			
Server IP	When an LDAP server is employed, the IP address of the server must be defined.		0.0.0.0			
Server Port	When an LDAP server is employed, the TCP/IP port of the server must be defined.	0001-65535				
Require Login	The UCS Client ID and Password may be required for log in to the LDAP server.	OFF ON	ON			
Use SSL	When supported by the server, the client can employ SSL (Secure Sockets Layer) for added security.	OFF ON	OFF			
Search Base	Server base means Search option. You can get the search option from LDAP Server manager. For example, if OU (Organization Unit) is OC and DC (Directory Company) are ucapp and com, you can give the option "OU=OC, DC=ucapp, DC=com" in this field. You will get the desired directory.					
LDAP User ID	ID and Password must be required to connect to					
LDAP User Password	LDAP Server.					

4.4.5.2 System Password - PGM 162

Selecting System Password will display the System Password data entry page. Use the check boxes to indicate which attributes to modify; data for checked attributes is stored for the Keyset Admin, Remote Access Password, or CID password when saved. Click **[Save]** button after changing Value.

It is important to use strong password for lowering overall risks of a security breach. The best way to choose good password are designed to make passwords less easily discovered by intelligent guessing.

PGM Base Function Base	< Favorite PGM System Password×	×
Q PGM Search		Save
System ID & Numbering Plans	Keyset Admin Password (Save : 🗐)	
	Enter Current Keyset Admin Password	
Station Data	Enter New Keyset Admin Password (MAX 12 digits, include **' and '#')	
Board Based Data	Confirm New Keyset Admin Password	
CO Line Data	Remote Access Password (Save :)	
	Enter Current Remote Access Password	
System Data V	Enter New Remote Access Password (MAX 12 characters)	
	Confirm New Remote Access Password	
System Attributes(160~161) System Password(162)	CID Password (Save :)	
Alarm Attributes(163)	Enter Current CID Password	
Attendant Assignment(164)	Enter New CID Password (MAX 12 characters)	
< Multicast IP/Port(165)	Confirm New CID Password	
DISA COS(166)		
DID/DISA Destination(167)		
External Control Contacts(168)		
LCD Display Mode(169)		
LED Flashing Rates(170)		
Music Sources(171)		
PBX Access Codes(172)		
RLP Priority(173)		
RS-232 Port Settings(174)		
Serial Port Selections(175)		
Pulse Dial (Break/Make) Ratio(176)		

Figure 4.4.5.2-1 System Password

Access to the system database and maintenance functions can be protected by passwords up to twelve (12) digits. Three passwords can be defined, Keyset Admin, Remote Access and CID.

Check the save box and enter the password and click the save button.

The following success message is displayed if the password is correct and saved successfully.

Keyset Admin Password (Save : 🗐)
Enter Current Keyset Admin Password
Enter New Keyset Admin Password (MAX 12 digits, include ** and #') Succes
Confirm New Keyset Admin Password
Remote Access Password (Save :)
Enter Current Remote Access Password
Enter New Remote Access Password (MAX 12 characters)
Confirm New Remote Access Password
CID Password (Save :)
Enter Current CID Password
Enter New CID Password (MAX 12 characters)
Confirm New CID Password

4.4.5.3 Alarm Attributes - PGM 163

Selecting Alarm Attributes will display the Alarm Attributes data entry page. Click **[Save]** button after changing Value.

PGM Base Function Base	< Fa	vorite PGM Alarm Attributes(163) ×		
PGM Search				
System ID & Numbering Plans	Order <u>↓</u> a	Attribute	Value	
	1	Alarm Enable	OFF V	
Station Data	2	Alarm Contact Type	Close •	
Board Based Data	3	Alarm Mode	Alarm •	
Bound Bused Bund	4	Alarm Signal Mode	Repeat •	
CO Line Data	5	Alarm 1 Display		
System Data 🗸 🗸	6	Alarm 2 Display		
system butu		System Notification		
System Attributes(160~161)	1	Emergency Call Notify	Alarm & Email 🔻	
System Password(162)	2	DCOB Fault Notify	Alarm & Email 🔻	
Alarm Attributes(163)	3	SIP Registration Fault Notify	Alarm & Email 🔹	
Attendant Assignment(164)	4	Station Capacity Full Notify	Alarm & Email 🔹	
Multicast IP/Port(165)	5	CO Capacity Full Notify	Alarm & Email 🔹	
DISA COS(166)	6	SMDR Full Notify	Alarm & Email 🔹	
DID/DISA Destination(167)	7	VM Memory Full Notify	Alarm & Email 🔹	
External Control Contacts(168)	8	WTIM Base Fault Notify	Alarm & Email 🔹	
LCD Display Mode(169)	9	WTIM Chain Fault Notify	Alarm & Email 🔹	
LED Flashing Rates(170)	10	I SMDR Full Notify	Alarm & Email 🔹	
Music Sources(171)	11	Cabinet Fault Notify	Alarm & Email 🔹	
PBX Access Codes(172)	12	Bar Full Notify	Alarm & Email 🔹	
RLP Priority(173)	13	IPCR Fault Notify	Alarm & Email 🔹	
RS-232 Port Settings(174)	14	IP Watch Fault Notify	Alarm & Email 🔹	
Serial Port Selections(175)	15	Bath Alarm Notify	Alarm & Email 🔹	
Pulse Dial (Break/Make) Ratio(176) SMDR Attributes(177)	16	Temp activation of all licenses Expiry Notify	Alarm & Email 🔻	
System Date & Time(178)	17	Maintenance Expire Notify	Email Noti Only 🔻	
System Multi Language(179)	18	Excessive Registration over license Notify	Alarm & Email 🔻	
System Timers(180~182,186)	19	Geo-Slave/Survival mode(T-NET LCM) Expire Notify	Alarm & Email 🔹	
In Room Indication(183)	20	TAPI Disconnected Notify	Alarm & Email 🔻	

Figure 4.4.5.3-1 Alarm Attributes

The system can monitor an external contact. This contact is most often employed as an Alarm indicator or Doorbell. The Alarm attributes define the operation of the external contact. For the Alarm, the signal to assigned stations can be repeating or a single burst, the former is often desired. For the Doorbell, a single tone is sent each time the contact activates. Refer to Table 4.4.5.3-1 for a description of the features and the data entries required for each attribute.

If the related alarm attributes are set to 'Alarm & Email' or 'Email Noti only', the system sends an email to the address that set in PGM 160~161 Alarm Attributes 'Alarm Receiver E-Mail Address (To) & Notification Receiver E-Mail Address (To)'.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Alarm Enable	This entry enables/disables the contact monitoring circuitry.	OFF ON	OFF
Alarm Contact Type	This parameter establishes the contact state that will activate the Alarm, close or open.	Close/ Open	Close
Alarm Mode	The contact can be treated to function as a doorbell or an alarm.	Alarm/ Door-Bell	Alarm
Alarm Signal Mode	The assigned stations will receive a Repeating signal or single burst (Once) of alarm tone.	Repeat/ Once	Repeat

Table 4.4.5.3-1 ALARM ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	In case of UCP600/2400, {Alarm 1 Display} and {Alarm 2		
Alarm 1 Display	Display} are added. Otherwise, {Alarm Display} is added.		
	When alarm port 1 is activated, the string of {Alarm 1		
	Display} or {Alarm Display} is displayed in assigned		
Alarm 2 Display	stations.		
Marin 2 Display	When alarm port 2 is activated, the string of {Alarm 2		
	Display} is displayed in assigned stations.(UCP600/2400)		
	System Notification		
Emergency Call Notify	This entry enables/disables the Emergency call notification.		Alarm & Email
DCOB Fault Notify	This entry enables/disables DCOB Fault notification.		Alarm & Email
SIP Registration Fault	This entry enables/disables SIP Registration Fault		Alarm & Email
Notify	notification.		
Station Capacity Full	This entry enables user to get the notification as alarm		Alarm & Email
Notify	when Station Capacity is over the capacity.	-	
CO Capacity Full	This entry enables user to get the notification as alarm		Alarm & Email
Notify	when CO Capacity is over the capacity.	-	
SMDR Full Notify	This entry enables user to get the notification as alarm		Alarm & Email
	when SMDR is over the capacity.	-	
VM Memory Full	This entry enables user to get the notification as alarm		Alarm & Email
Notify	when the memory of Voice Mail is full.	-	
WTIM (WTIB) Base	This entry enables user to get the notification as alarm		Alarm & Email
Fault Notify	when WTIM (WTIB) base gets the fault.	-	
WTIM (WTIB) Chain	This entry enables user to get the notification as alarm		Alarm & Email
Fault Notify	when WTIM (WTIB) chain gets the fault.	-	
I SMDR Full Notify	This entry enables user to get the notification as alarm when I SMDR is over the capacity.	OFF,	Alarm & Email
	This entry enables user to get the notification as alarm	Alarm & Email,	
Cabinet Fault Notify	when the cabinet has fault only for eMG800 & UCP.	Email Noti	Alarm & Email
	This entry enables user to get the notification as alarm	Only,	
Bar Full Notify	when Bar is full.	Alarm Only	Alarm & Email
	This entry enables user to get the notification as alarm		
IPCR Fault Notify	when IPCR gets the fault.		Alarm & Email
	This entry enables user to get the notification as alarm		
IP Watch Fault Notify	when IP Watch has fault only for eMG800 & UCP.		Alarm & Email
Dath Alarm Natifu	This entry enables user to get the notification as alarm		
Bath Alarm Notify	about Bath Alarm.		Alarm & Email
Temp activation of all	This entry enables user to get the notification as alarm		Alarm & Email
license Expiry Notify	before Temp activation of all license expires.		
Maintenance Expire	This entry enables user to get the notification as alarm		Email Noti
Notify	before Maintenance license expires.		Only
Excessive	This entry enables user to get the notification as alarm in		
Registration over	case of the excessive registration over License.		Alarm & Email
license Notify		1	
Geo-Slave/Survival	This entry enables user to get the notification as alarm		
Mode (T-NET LCM)	before Geographical slave/Survival mode (T-NET LCM)		Alarm & Email
Expire Notify	license expires.	4	
TAPI Disconnected	This entry enables user to get the notification as alarm		Alarm & Email
Notify	when TAPI is disconnected.		

Table 4.4.5.3-1 ALARM ATTRIBUTES

4.4.5.4 Attendant Assignment - PGM 164

Selecting Attendant Assignment will display the Attendant Assignment data entry page. Click **[Save]** button after changing Value.

	PGM Base Function Base	< Favorite PGM	Attendant X	
c	PGM Search			
	System ID & Numbering Plans	Attendant Type	Station Number	
	Station Data	System Attendant	1000	
	Station Data	Main Attendant		
	Board Based Data	Main Attendant		
	CO Line Data	Main Attendant		
		Main Attendant		
	System Data V	Main Attendant		
	System Attributes(160~161)	Main Attendant		
	System Password(162)	Main Attendant		
	Alarm Attributes(163)	Main Attendant		
	Attendant Assignment(164)	Main Attendant		
	Multicast RTP/RTCP(165)	Main Attendant		
	DISA COS(166)	Main Attendant		
	DID/DISA Destination(167)	Main Attendant		
	External Control Contacts(168)	Main Attendant		
	LCD Display Mode(169)	Main Attendant		
	LED Flashing Rates(170)	Main Attendant		
	Music Sources(171)			
	PBX Access Codes(172)	Main Attendant		
	RLP Priority(173)	Main Attendant		
	RS-232 Port Settings(174)	Main Attendant		
	Serial Port Selections(175) Pulse Dial (Break/Make) Ratio(176)	Main Attendant		
	SMDR Attributes(177)	Main Attendant		
	System Date & Time(178)	Main Attendant		
	System Multi Language(179)	Main Attendant		
	System Timers(180~182,186)	Main Attendant		
	In Room Indication(183)	Main Attendant		
	Web Access Authorization	Main Attendant		

Figure 4.4.5.4-1 Attendant Assignment

eMG80 is consist of 1 System attendant and 3 Main attendant. eMG800 is consist of 1 System attendant and 4 Main attendant. UCP is consist of 1 System attendant and 49 Main attendant.

The System Attendant has higher priority in call handling and system management functions. As a default, the System Attendant is assigned Station 100 for eMG80 & Station 1000 for eMG800/UCP. Main Attendants are not assigned by default.

4.4.5.5 Multi-cast IP/Port - PGM 165

Selecting Multi-cast IP/Port will display the Multi-cast IP/Port data entry page. Click **[Save]** button after changing Value.

PGM Base Function Base	e < Fav	vorite PGM	Multica	ast R X	
PGM Search	0				
System ID & Numbering Plans	A	ttribute	RTP Value	RTCP Value	Range
-,	BGM	Internal	8100	8101	0000 - 9999
Station Data	BGM	External 1	8102	8103	0000 - 9999
Board Based Data	BGM	External 2	8104	8105	0000 - 9999
	Intern	al Page 1	8106	8107	0000 - 9999
CO Line Data	Intern	al Page 2	8108	8109	0000 - 9999
System Data	✓ Intern	al Page 3	8110	8111	0000 - 9999
System Attributes(160~161)	Intern	al Page 4	8112	8113	0000 - 9999
System Password(162)	Intern	al Page 5	8114	8115	0000 - 9999
Alarm Attributes(163)	Intern	al Page 6	8116	8117	0000 - 9999
Attendant Assignment(164)	Intern	al Page 7	8118	8119	0000 - 9999
Multicast RTP/RTCP(165)	Intern	al Page 8	8120	8121	0000 - 9999
DISA COS(166)	Intern	al Page 9	8122	8123	0000 - 9999
DID/DISA Destination(167)		al Page 10	8124	8125	0000 - 9999
External Control Contacts(168)		al Page 11	8126	8127	0000 - 9999
LCD Display Mode(169)		al Page 12	8128	8129	0000 - 9999
LED Flashing Rates(170)		al Page 13	8130	8131	0000 - 9999
Music Sources(171)		al Page 14	8132	8133	0000 - 9999
PBX Access Codes(172) RLP Priority(173)		al Page 15	8134	8135	0000 - 9999
RS-232 Port Settings(174)		al Page 16	8136	8137	0000 - 9999
Serial Port Selections(175)		al Page 17	8138	8139	0000 - 9999
Pulse Dial (Break/Make) Ratio(176)					
SMDR Attributes(177)		al Page 18	8140	8141	0000 - 9999
System Date & Time(178)		al Page 19	8142	8143	0000 - 9999
System Multi Language(179)		al Page 20	8144	8145	0000 - 9999
System Timers(180~182,186)		al Page 21	8146	8147	0000 - 9999
In Room Indication(183)	Intern	al Page 22	8148	8149	0000 - 9999
Web Access Authorization	Intern	al Page 23	8150	8151	0000 - 9999

Figure 4.4.5.5-1 Multi-cast IP/Port

Multi-cast is employed by the system to send BGM, MOH, paging and Push-To-Talk packets. Employing a single multi-cast packet reduces the overall LAN traffic. In some cases, specifically when multiple systems are connected to the same default gateway (router) it may be advantageous to define different IP ports for each system.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
BGM Internal	RTP and RTCP ports for internal BGM.	0000-9999	8100
			(8101)
BGM External 1	RTP and RTCP ports for external BGM 1.	0000-9999	8102
			(8103)
BGM External 2	RTP and RTCP ports for external BGM 1.	0000-9999	8104
			(8105)

Table 4.4.5.5-1 eMG80 MULTI-CAST IP/Port

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Internal Page 1	RTP and RTCP ports for Internal Page 1.	0000-9999	8106 (8107)
Internal Page 2	RTP and RTCP ports for Internal Page 2.	0000-9999	8108 (8109)
Internal Page 3	RTP and RTCP ports for Internal Page 3.	0000-9999	8110 (8111)
Internal Page 4	RTP and RTCP ports for Internal Page 4.	0000-9999	8112 (8113)
Internal Page 5	RTP and RTCP ports for Internal Page 5.	0000-9999	8114 (8115)
Internal Page 6	RTP and RTCP ports for Internal Page 6.	0000-9999	8116 (8117)
Internal Page 7	RTP and RTCP ports for Internal Page 7.	0000-9999	8118 (8119)
Internal Page 8	RTP and RTCP ports for Internal Page 8.	0000-9999	8120 (8121)
Internal Page 9	RTP and RTCP ports for Internal Page 9.	0000-9999	8122
Internal Page 10	RTP and RTCP ports for Internal Page 10.	0000-9999	(8123) 8124 (8125)
Internal Page 11	RTP and RTCP ports for Internal Page 11.	0000-9999	(8125) 8126
Internal Page 12	RTP and RTCP ports for Internal Page 12.	0000-9999	(8127) 8128
Internal Page 13	RTP and RTCP ports for Internal Page 13.	0000-9999	(8129) 8130
Internal Page 14	RTP and RTCP ports for Internal Page 14.	0000-9999	(8131) 8132
Internal Page 15	RTP and RTCP ports for Internal Page 15.	0000-9999	(8133) 8134
Internal Page 16	RTP and RTCP ports for Internal Page 16.	0000-9999	(8135) 8136
Internal Page 17	RTP and RTCP ports for Internal Page 17.	0000-9999	(8137) 8138
Internal Page 18	RTP and RTCP ports for Internal Page 18.	0000-9999	(8139) 8140
Internal Page 19	RTP and RTCP ports for Internal Page 19.	0000-9999	(8141) 8142 (8142)
Internal Page 20	RTP and RTCP ports for Internal Page 20.	0000-9999	(8143) 8144 (8145)
Internal Page 21	RTP and RTCP ports for Internal Page 21.	0000-9999	(8145) 8146 (8147)
Internal Page 22	RTP and RTCP ports for Internal Page 22.	0000-999	(8147) 8148 (8140)
Internal Page 23	RTP and RTCP ports for Internal Page 23.	0000-9999	(8149) 8150
Internal Page 24	RTP and RTCP ports for Internal Page 24.	0000-9999	(8151) 8152 (8153)

Table 4.4.5.5-1 eMG80 MULTI-CAST IP/Port

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Internal Page 25	RTP and RTCP ports for Internal Page 25.	0000-9999	8154 (8155)
Internal Page 26	RTP and RTCP ports for Internal Page 26.	0000-9999	8156 (8157)
Internal Page 27	RTP and RTCP ports for Internal Page 27	0000-9999	8158 (8159)
Internal Page 28	RTP and RTCP ports for Internal Page 28	0000-9999	8160 (8161)
Internal Page 29	RTP and RTCP ports for Internal Page 29	0000-9999	8162 (8163)
Internal Page 30	RTP and RTCP ports for Internal Page 30	0000-9999	8164 (8165)
Internal Page 31	RTP and RTCP ports for Internal Page 31	0000-9999	8166 (8167)
Internal Page 32	RTP and RTCP ports for Internal Page 32	0000-9999	8168 (8169)
Internal Page 33	RTP and RTCP ports for Internal Page 33	0000-9999	8170 (8171)
Internal Page 34	RTP and RTCP ports for Internal Page 34	0000-9999	8172 (8173)
Internal Page 35	RTP and RTCP ports for Internal Page 35	0000-9999	8174 (8175)
Internal Page All	RTP and RTCP ports for Internal All Call Page	0000-9999	8176 (8177)
External Page 1	RTP and RTCP ports for External Page 1.	0000-9999	8178 (8179)
External Page 2	RTP and RTCP ports for External Page 2.	0000-9999	8180 (8181)
External Page All	RTP and RTCP ports for External All Call Page.	0000-9999	8182 (8183)
Page All	RTP and RTCP ports for All Call Page.	0000-9999	8184 (8185)
PTT 1	RTP and RTCP ports for PTT group 1.	0000-9999	8186 (8187)
PTT 2	RTP and RTCP ports for PTT group 2.	0000-9999	8188 (8189)
PTT 3	RTP and RTCP ports for PTT group 3.	0000-9999	8190 (8191)
PTT 4	RTP and RTCP ports for PTT group 4.	0000-9999	8192 (8193)
PTT 5	RTP and RTCP ports for PTT group 5.	0000-9999	8194 (8195)
PTT 6	RTP and RTCP ports for PTT group 6.	0000-9999	8196 (8197)
PTT 7	RTP and RTCP ports for PTT group 7.	0000-9999	8198 (8199)
PTT 8	RTP and RTCP ports for PTT group 8.	0000-9999	8200 (8201)

Table 4.4.5.5-1 eMG80 MULTI-CAST IP/Port

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
PTT 9	RTP and RTCP ports for PTT group 9.	0000-9999	8202
			(8203)
PTT All	RTP and RTCP ports for PTT group ALL	0000-9999	8204
			(8205)
BGM Internal VSF	RTP and RTCP ports for VSF BGM	0000-9999	8206
			(8207)
SLT MOH 1	RTP and RTCP ports for SLT MOH1	0000-9999	8208
			(8209)
SLT MOH 2	RTP and RTCP ports for SLT MOH2	0000-9999	8210
			(8211)
SLT MOH 3	RTP and RTCP ports for SLT MOH3	0000-9999	8212
			(8213)
SLT MOH 4	RTP and RTCP ports for SLT MOH4	0000-9999	8214
			(8215)
SLT MOH 5	RTP and RTCP ports for SLT MOH5	0000-9999	8216
			(8217)
VSF MOH2	RTP and RTCP ports for VSF MOH2	0000-9999	8218
			(8219)
VSF MOH3	RTP and RTCP ports for VSF MOH3	0000-9999	8220
			(8221)

Table 4.4.5.5-1 eMG80 MULTI-CAST IP/Port

Table 4.4.5.5-2 eMG800 MULTI-CAST IP/Port

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
BGM Internal	RTP and RTCP ports for internal BGM.	0000-9999	8100
			(8101)
BGM External 1	RTP and RTCP ports for external BGM 1.	0000-9999	8102
			(8103)
BGM External 2	RTP and RTCP ports for external BGM 1.	0000-9999	8104
			(8105)
Internal Page 1-100	RTP and RTCP ports for Internal Page 1.	0000-9999	8106-8304
			(8107-8305)
Internal Page All	RTP and RTCP ports for Internal All Call Page	0000-9999	8306
-			(8307)
External Page 1	RTP and RTCP ports for External Page 1.	0000-9999	8308
			(8309)
External Page 2	RTP and RTCP ports for External Page 2.	0000-9999	8310
-			(8311)
External Page All	RTP and RTCP ports for External All Call Page.	0000-9999	8312
-			(8313)
Page All	RTP and RTCP ports for All Call Page.	0000-9999	8314
			(8315)
PTT 1-9	RTP and RTCP ports for PTT group 1.	0000-9999	8316-8332
			(8317-8333)
PTT All	RTP and RTCP ports for PTT group ALL	0000-9999	8334
			(8335)
BGM Internal VSF	RTP and RTCP ports for VSF BGM	0000-9999	8336
			(8337)

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SLT MOH 1-5	RTP and RTCP ports for SLT MOH1	0000-9999	8338-8346 (8339-8347)
VSF MOH2-3	RTP and RTCP ports for VSF MOH2	0000-9999	8348-8350 (8349-8351)

Table 4.4.5.5-2 eMG800 MULTI-CAST IP/Port

Table 4.4.5.5-3 UCP MULTI-CAST RTP/RTCP

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
BGM Internal	RTP and RTCP ports for internal BGM.	0000-9999	8100 (8101)
BGM External 1	RTP and RTCP ports for external BGM 1.	0000-9999	8102 (8103)
BGM External 2	RTP and RTCP ports for external BGM 1.	0000-9999	8104 (8105)
Internal Page 1 ~ Internal Page 100	RTP and RTCP ports for Internal Page 1.	0000-9999	8106~8304 (8107~8305)
Internal Page All	RTP and RTCP ports for Internal All Call Page	0000-9999	8306 (8307)
External Page 1	RTP and RTCP ports for External Page 1.	0000-9999	8308 (8309)
External Page 2	RTP and RTCP ports for External Page 2.	0000-9999	8310 (8311)
External Page All	RTP and RTCP ports for External All Call Page.	0000-9999	8312 (8313)
Page All	RTP and RTCP ports for All Call Page.	0000-9999	8314 (8315)
PTT 1	RTP and RTCP ports for PTT group 1.	0000-9999	8316 (8317)
PTT 2	RTP and RTCP ports for PTT group 2.	0000-9999	8318 (8319)
PTT 3	RTP and RTCP ports for PTT group 3.	0000-9999	8320 (8321)
PTT 4	RTP and RTCP ports for PTT group 4.	0000-9999	8322 (8323)
PTT 5	RTP and RTCP ports for PTT group 5.	0000-9999	8324 (8325)
PTT 6	RTP and RTCP ports for PTT group 6.	0000-9999	8326 (8327)
РТТ 7	RTP and RTCP ports for PTT group 7.	0000-9999	8328 (8329)
PTT 8	RTP and RTCP ports for PTT group 8.	0000-9999	8330 (8331)
PTT 9	RTP and RTCP ports for PTT group 9.	0000-9999	8332 (8333)
PTT All	RTP and RTCP ports for PTT group ALL	0000-9999	8334 (8335)
BGM Internal VSF	RTP and RTCP ports for VSF BGM (VSF MOH)	0000-9999	8336 (8337)

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SLT MOH 1	RTP and RTCP ports for SLT MOH1	0000-9999	8338 (8339)
SLT MOH 2	RTP and RTCP ports for SLT MOH2	0000-9999	8340 (8341)
SLT MOH 3	RTP and RTCP ports for SLT MOH3	0000-9999	8342 (8343)
SLT MOH 4	RTP and RTCP ports for SLT MOH4	0000-9999	8344 (8345)
SLT MOH 5	RTP and RTCP ports for SLT MOH5	0000-9999	8346 (8347)
VSF MOH2	RTP and RTCP ports for VSF MOH2	0000-9999	8348 (8349)
VSF MOH3	RTP and RTCP ports for VSF MOH3	0000-9999	8350 (8351)

Table 4.4.5.5-3 UCP MULTI-CAST RTP/RTCP

4.4.5.6 DISA COS - PGM 166

Selecting DISA COS will display the DISA COS data entry page. Click **[Save]** button after changing Value.

	PGM Base Function Ba	se	< Favorite P	GM DISA COS(1	×
	Q PGM Search	0			
	System ID & Numbering Plans		Order <u>↓</u> a	Attribute	Value
		_	1	Day COS	7 🔻
	Station Data		2	Night COS	7 🔻
	Board Based Data		3	Timed Ring COS	7 🔻
	CO Line Data				
	System Data	~			
	System Attributes(160~161)				
	System Password(162)				
	Alarm Attributes(163)				
	Attendant Assignment(164)				
	Multicast IP/Port(165)				
<	DISA COS(166)				
	DID/DISA Destination(167)				
	External Control Contacts(168)				
	LCD Display Mode(169)				
	LED Flashing Rates(170)				
	Music Sources(171)				
	PBX Access Codes(172)				
	RLP Priority(173)				

Figure 4.4.5.6-1 DISA COS

A DISA user is subject to the dialing restrictions assigned in the DISA Class-of-Service (COS). The restrictions applied are the same as with the corresponding Station COS levels 1~11 and interact with the CO/IP COS in the same manner. An assignment is made for Day, Timed and Night Ring mode of system operation. The default for all three modes (Day, Night, Timed ring) of DISA COS is 7, allowing internal calls only.

4.4.5.7 DID/DISA Destination - PGM 167

Selecting DID/DISA Destination displays the Tenant Group input page. Select Tenant Group, the system will display the DID/DISA Destination Attributes. Click **[Save]** button after changing Value.

Enter ICM Tenancy group: eMG80 : 0-15 / eMG800: 0-32 / UCP: 0-100

	PGM Base Function Base	< Fa	vorite PGM DID/DISA	×		
С	PGM Search	Enter	ICM Tenancy Group Number (0 - 1	00) :	Load	Save
	System ID & Numbering Plans	DID/D	ISA Route Table (Tenancy Group	: 1)		
	Station Data	Order	Attribute	Value Tone		
	Board Based Data			 Attendant (Ring Assign) 		
		1	Busy Destination	Station Group		
	CO Line Data			OVSF Announcement		
	System Data v			Tone		
	System Attributes(160~161)	2	Error Destination	Attendant (Ring Assign)		
	System Password(162)			Station Group		
	Alarm Attributes(163)			VSF Announcement		
	Attendant Assignment(164)			Tone Attached (Ding Assign)		
	Multicast IP/Port(165)	3	No Answer Destination	Attendant (Ring Assign)		
	DISA COS(166)			Station Group		
	DID/DISA Destination(167)					
	External Control Contacts(168)			Tone		
	LCD Display Mode(169)	4	DND Destination	Attendant (Ring Assign)		
	LED Flashing Rates(170)			Station Group		
	Music Sources(171)			VSF Announcement		
	PBX Access Codes(172)			Busy Prompt Usage	ON V	
	RLP Priority(173)			Error Prompt Usage	ON V	
	RS-232 Port Settings(174)	5	VSF Prompt Usage	Dnd Prompt Usage	ON V	
	Serial Port Selections(175)			No Ans Prompt Usage	ON V	
	Pulse Dial (Break/Make) Ratio(176)			Atd Xfer Prompt Usage	ON V	
	SMDR Attributes(177)			Tone		
	System Date & Time(178)	6	Reroute Busy Destination	Attendant (Ring Assign)		
	System Multi Language(179)			Station Group		
	System Timers(180~182,186)			Tone		
	In Room Indication(183)	7	Reroute Error Destination	Attendant (Ring Assign)		
	Web Access Authorization Station Web Authorization			Station Group		

Figure 4.4.5.7-1 DID/DISA Destination

When a DID line or DISA user dials an invalid/vacant or busy station number the caller will be sent to the assigned destination that is selected according to the CO Tenancy group of the DID/DISA line. The destination is separately defined for invalid, busy, and No Answer conditions and can be defined as the Attendant, busy tone, a Station Group or a VSF Announcement.

For calls on a DID line to a busy station, DID Call Wait can be assigned, refer to '*Common Attributes section*', and the call will queue for the station for the No-Answer time. After the No-answer time, the call routes to the DID/DISA Destination unless forwarded. Also, for DID calls only, announcements (prompts) can be sent from the VSF or UVM gateway (in case of UCP) to the caller for various conditions, busy, error, DND, No Answer, or Attendant Transfer.

4.4.5.8 External Control Contacts - PGM 168

Selecting External Control Contacts will display the External Control Contact data entry page. Click **[Save]** button after changing Value.

The number of External Control Contact: 2 (eMG80), 2 (eMG800), 4 (UCP)

PGM Base Function Base	< Favorite PGM	External Control C.	
Q PGM Search			s
System ID & Numbering Plans	External Control Contact	Value	
		Unused	
Station Data		◎ LBC	
Board Based Data	First	O Door Open	
CO Line Data		External Control Device 1	
CO Line Data		External Control Device 2	
System Data V		Unused	
		◎ LBC	
System Attributes(160~161)	Second	O Door Open	
System Password(162) Alarm Attributes(163)		External Control Device 1	
Attendant Assignment(164)		External Control Device 2	
Multicast IP/Port(165)		Unused	
DISA COS(166)		● LBC	
DID/DISA Destination(167)	Third	O Door Open	
External Control Contacts(168)		External Control Device 1	
LCD Display Mode(169)		External Control Device 2	
LED Flashing Rates(170)		Onused	
Music Sources(171) PBX Access Codes(172)		◎ LBC	
RLP Priority(173)	Fourth	Door Open	
RS-232 Port Settings(174)		External Control Device 1	
Serial Port Selections(175)		External Control Device 2	
Pulse Dial (Break/Make) Ratio(176)			

Figure 4.4.5.8-1 External Control Contact

The system includes a programmable contact, which can be used to control external devices. Refer to the table '*System capacity*' for number of available contacts. Each contact is assigned to activate under one of several conditions. As a Loud Bell Contact (LBC), the contact will activate when the assigned station or group receives an external call. For LBC, when the system is in the Night or Timed Ring mode, the contact will activate for incoming UNA (Universal Night Answer) calls and will ignore any station assignment. The contact may alternatively activate as a Door Lock Release contact, when External Page Zone 1 is accessed or when External Page Zone 2 is accessed.

4.4.5.9 LCD Display Mode - PGM 169

Selecting LCD Display Mode will display the data entry page. Click **[Save]** button after changing Value.

PGM Base Function B	ase	< Favori	te PGM LCD Displa	×
Q PGM Search	0			
System ID & Numbering Plans		Order <u>↓</u> a	Attribute	Value
		1	LCD Date Display Mode	MM-DD-YY 🔻
Station Data		2	LCD Time Display Mode	12 Hour Mode 🔻
Board Based Data		3	Language Display Mode	English •
		4	LCD Weekday Display Mode	Follow - PGM169 BTN1 V
CO Line Data				
System Data	~			
System Attributes(160~161)				
System Password(162)				
Alarm Attributes(163)				
Attendant Assignment(164)				
Multicast IP/Port(165)				
DISA COS(166)				
DID/DISA Destination(167)				
External Control Contacts(168)				
LCD Display Mode(169)				
LED Flashing Rates(170)				
Music Sources(171)				
PBX Access Codes(172)				
RLP Priority(173)				
RS-232 Port Settings(174)				
Serial Port Selections(175)				
Pulse Dial (Break/Make) Ratio(17	6)			

Figure 4.4.5.9-1 LCD Display Mode

The LCD display mode sets the time (12/24 hr.), date (day/month order) and language. Refer to Table 4.4.5.9-1 and Table 4.4.5.9-2 for a description of the modes and the data entries required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LCD Date Display Mode	Sets the Date display as month/day or day/month.	DD-MM-YY MM-DD-YY	MM-DD-YY
LCD Time Display Mode	Sets the Time display mode as 12 hour or 24-hour (military) time.	12 Hour Mode 24 Hour Mode	12 Hour
Language Display Mode	Sets the Language used in the display; refer to Table 4.4.5.9-2 below.		English
LCD Weekday Display Mode	Sets the Day-of-Week (DoW) display mode: no DoW display mm/dd/DoW, (alpha month display, overrides setting of button 1 above. display mm/dd/DoW, numeric month display, overrides setting of button 1 above.	Follow - PGM169 BTN1/ Type1 (MM/DD WDY)/ Type2 (MM DD WDY)	Follow - PGM169 BTN1

Table 4.4.5.9-1	LCD DISPLAY MODES

LANGUAGE
English
Italian
Finnish
Dutch
Swedish
Danish
Norwegian
Hebrew
German
French
Portuguese
Spanish
Korean
Estonian
Russian
Turkish
Polish
Greek
Arabic

Table 4.4.5.9-2 LCD LANGUAGE SELECTION

4.4.5.10 LED Flashing Rate - PGM 170

Selecting LED Flashing Rate will display the data entry page. Click **[Save]** button after changing Value.

	PGM Base Function Base	<	Favori	te PGM LED Flashi X	
q	PGM Search O				
	System ID & Numbering Plans		Order ↓ª	Attribute	Value
	System 15 & Humbering Fians		1	CO Incoming Ring	Flash 30 IPM
	Station Data		2	CO Transfer Ring	Flash 120 IPM
	Board Based Data		3	COL Queue Ring	Flash 240 IPM Flutter 🔻
			4	COL RCL Ring	Flash 480 IPM Flutter 🔻
C	CO Line Data		5	COL I Hold Ring	Flash 30 IPM Wink
s	System Data V		6	COL System Hold Ring	Flash 60 IPM
			7	COL Exclusive Hold Ring	Flash 120 IPM •
	System Attributes(160~161)		8	COL Outgoing Disabled	Flash 240 IPM Flutter 🔻
	System Password(162)		9	COL Incoming Offnet CFW	Flash 240 IPM Flutter 🔻
	Alarm Attributes(163)		10	COL DISA Indication	Flash 240 IPM
	Attendant Assignment(164) Multicast IP/Port(165)		11	COL Supplementary Call Waiting	Flash 240 IPM Flutter 🔻
	DISA COS(166)		12	COL Supplementary Call Hold	Flash 480 IPM
	DID/DISA Destination(167)		13	DSS CO Ring	Flash 30 IPM
	External Control Contacts(168)		14	DSS All Ring	Flash 60 IPM
	LCD Display Mode(169)		15	DSS Associated Ring	Flash 120 IPM
	LED Flashing Rates(170)		16	DSS In DND	Flash 60 IPM
	Music Sources(171)		17	DSS Lock Out	Flash 480 IPM Flutter 🔻
	PBX Access Codes(172)		18	DSS Pre-select Message	Flash 30 IPM
	RLP Priority(173)		19	DSS Camp On ICM Hold	Flash 60 IPM
	RS-232 Port Settings(174)		20	DSS Other	Flash 120 IPM
	Serial Port Selections(175)		21	ACD Queue Ring 2	Flash 60 IPM
	Pulse Dial (Break/Make) Ratio(176) SMDR Attributes(177)		22	ACD Queue Ring 6	Flash 120 IPM
	System Date & Time(178)		23	ACD Queue Ring 7-X	Flash 240 IPM
	System Multi Language(179)		24	ACD DND (Off Duty)	Flash 120 IPM
	System Timers(180~182,186)		25	ACD Warning	Flash 120 IPM
	In Room Indication(183)		26	ACD Help	Flash 120 IPM
	Web Access Authorization		27	Feature Record	Flash 240 IPM
_	Otation Wab Authorization	•	00	E MA 10/-it	

Figure 4.4.5.10-1 LED Flashing Rate

The LED flash rate for various functions and states can be assigned any one of the system's 15 signals. The various functions and states are shown in the following table. The 15 flash signals available in the system are shown in the table '*LED flash rate*'.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO Incoming Ring	CO button Incoming ring flashing rate.	00-14	FLASH 30 IPM (2)
CO Transfer Ring	CO button transfer ring flashing rate.	00-14	FLASH 120 IPM (10)
COL Queue Ring	CO button queue call back ring flashing rate.	00-14	FLASH 240 IPM FLUTTER (6)

Table 4.4.5.10-1 LED INDICATION

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
			1
COL RCL Ring	CO button recall ring flashing rate.	00-14	FLASH 480 IPM FLUTTER (8)
COL I Hold Ring	CO button I hold flashing rate.	00-14	FLASH 30 IPM WINK (12)
COL System Hold Ring	CO button system hold flashing rate.	00-14	FLASH 60 IPM (3)
COL Exclusive Hold Ring	CO button exclusives hold flashing rate.	00-14	FLASH 120 IPM (10)
COL Outgoing Disabled	CO button outgoing disabled flashing rate.	00-14	FLASH 240 IPM FLUTTER (6)
COL Incoming Off-net CFW	CO button incoming off-net call forward flashing rate.	00-14	FLASH 240 IPM FLUTTER (6)
COL DISA Indication	CO button DISA indication flashing rate.	00-14	FLASH 240 IPM (5)
COL Supplementary Call Waiting	CO button supplementary call waiting flashing rate.	00-14	FLASH 240 IPM FLUTTER (6)
COL Supplementary Call Hold	CO button supplementary hold flashing rate.	00-14	FLASH 480 IPM (8)
DSS CO Ring	DSS button CO ring flashing rate.	00-14	FLASH 30 IPM (2)
DSS All Ring	DSS button ICM ALL ring flashing rate.	00-14	FLASH 60 IPM (3)
DSS Associated Ring	DSS button ICM ring associate device flashing rate.	00-14	FLASH 120 IPM (10)
DSS Incoming Ring	DSS button station is in DND.	00-14	FLASH 60 IPM (3)
DSS Lock Out	DSS button station is in lock out.	00-14	FLASH 480 IPM FLUTTER (8)
DSS Pre-select Message	DSS button station is in pre-selected message.	00-14	FLASH 30 IPM (2)
DSS camp on ICM Hold	DSS button station is in ICM hold.	00-14	FLASH 60 IPM (3)
DSS Other	DSS button station is in other state.	00-14	FLASH 120 IPM (10)
ACD Queue Ring 2	CIQ #1 Threshold.	00-14	FLASH 60 IPM (3)
ACD Queue Ring 6	CIQ #2 Threshold.	00-14	FLASH 120 IPM (10)
ACD Queue Ring 7-X	CIQ #3 Threshold.	00-14	FLASH 240 IPM (5)
ACD DND (Off Duty)	ACD an agent is off duty (ACD DND).	00-14	FLASH 120 IPM (10)
ACD Warning	ACD warning tone.	00-14	FLASH 120 IPM (10)
ACD Help	ACD help request/response.	00-14	FLASH 120 IPM (10)
Feature Record	FEATURE voice record button.	00-14	FLASH 240 IPM (5)

Table 4.4.5.10-1 LED INDICATION

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Feature Message Wait	FEATURE message wait.	00-14	FLASH 30 IPM (2)
DSS Out-of-service state	DSS button a station is in out-of-service state.	00-14	FLASH OFF (00)
On-demand Ring mode	DND led of attendant station for ring mode.	00-14	FLASH 60 IPM (3)
Night Ring mode	DND led of attendant station for ring mode.	00-14	FLASH Steady
Timed Ring mode	DND led of attendant station for ring mode.	00-14	FLASH 240 IPM (5)
Auto Ring mode	DND led of attendant station for ring mode.	00-14	eMG: FLASH 480 IPM (8) UCP: FLASH Off (00)
Page Hold Button	HOLD LED for paging.	00-14	FLASH 60 IPM (3)
DSS Station DND(off duty)	DSS button station in Station DND.	00-14	FLASH 120 IPM (10)
Message Wait (Call Back)	Message wait.	00-14	eMG: FLASH 30 IPM (2) UCP: FLASH Off (00)
DSS in use	DSS button station is in use.	00-14	Steady On (1)

Table 4.4.5.10-1 LED INDICATION

Table 4.4.5.10-2 LED FLASH RATE TABLE

Flash Rate	DESCRIPTION
1	Steady On
2	30 ipm flash (30% On)
3	60 ipm flash (30% On)
4	60 ipm double wink (30% On-Off-On-Off & 70% On)
5	240 ipm flash (30% On)
6	240 ipm flutter (30% On-Off-On-Off-On & 70% Off)
7	480 ipm flash (30% On)
8	480 ipm flutter (30% On-Off-On-Off-On & 70% Off)
9	15 ipm flash (30% On)
10	120 ipm flash (30% On)
11	120 ipm flutter (30% On-Off-On-Off-On & 70% Off)
12	30 ipm double flash (30% On-Off-On & 70% Off)
13	480 ipm double wink (30% On-Off-On-Off & 70% On)
14	480 ipm double flash (30% On-Off-On & 70% Off)

4.4.5.11 Music Sources - PGM 171

System Data ~ × Music Sources(1...× Favorite PGM < System Attributes(160~161) System Password(162) Save Alarm Attributes(163) Order 1ª Attribute Value Attendant Assignment(164) BGM Type Internal/External Music 1 • 1 Multicast IP/Port(165) 2 МОН Туре Internal/External Music 1 • DISA COS(166) 3 Internal/External Music Internal Music 🔻 DID/DISA Destination(167) 4 Internal Music Type First External Control Contacts(168) Station Number SLT MOH TYPE LCD Display Mode(169) 1 SLT MOH 1 LED Flashing Rates(170) 2 SLT MOH 2 Music Sources(171) PBX Access Codes(172) 3 SLT MOH 3 RLP Priority(173) 4 SLT MOH 4 RS-232 Port Settings(174) 5 SLT MOH 5 Serial Port Selections(175) EXT VSF MOH ASSIGN VSF Number Pulse Dial (Break/Make) Ratio(176) 1 VSF MOH 2 (1 - 200) SMDR Attributes(177) 2 VSF MOH 3 (1 - 200) System Date & Time(178) System Multi Language(179) System Timers(180~182,186) In Room Indication(183) Web Access Authorization Station Web Authorization NTP Attributes(195) SNMP Attribute(196) Cabinet Attribute(197) Hot Desk Attributes(250) System Call Routing(251)

Selecting Music Sources will display the Music Sources data entry page. Click **[Save]** button after changing Value.

Figure 4.4.5.11-1 Music Sources

Music inputs are provided for use as the Background Music and/or Music-On-Hold source inputs. Up to three VSF announcements may be recorded and played as MOH to the connected caller. The "VSF MOH" selection employs System announcement number 201, and for the VSF MOH 2 and VSF MOH 3 selections, any unused announcement can be employed. In addition, up to five SLT ports may be used as MOH to the held caller.

4.4.5.12 PBX Access Codes - PGM 172

Selecting PBX Access Codes will display the PBX Access Codes data entry page. Click **[Save]** button after changing Value.

	Â			×	0
PGM Base Function Base		< Favorit	te PGM PBX Acc	cess C	, ,
Q PGM Search	9				
System ID & Numbering Plans		Order <u>↓</u> a	Attribute	Value	Range
	-	1	PBX Access Code 1		max 2 digits (include '*' and '#')
Station Data		2	PBX Access Code 2		max 2 digits (include '*' and '#')
Board Based Data		3	PBX Access Code 3		max 2 digits (include '*' and '#')
CO Line Data	4	4	PBX Access Code 4		max 2 digits (include '*' and '#')
	-				
System Data V					
System Attributes(160~161)					
System Password(162)					
Alarm Attributes(163)					
Attendant Assignment(164)					
K Multicast IP/Port(165)					
DISA COS(166)					
DID/DISA Destination(167)					
External Control Contacts(168)					
LCD Display Mode(169)					
LED Flashing Rates(170)					
Music Sources(171)					
PBX Access Codes(172)					
RLP Priority(173)					
RS-232 Port Settings(174)					

Figure 4.4.5.12-1 PBX Access Codes

When the system is used "behind" a PBX/CTX, the system needs to recognize the PBX/CTX Trunk access codes to implement proper dialing restriction, tone detection sequences and Flash timing. A maximum of four (4) Trunk Access Codes of one (1) or two (2) digits can be entered.

4.4.5.13 Ringing Line Preference Priority - PGM 173

Selecting Ring Line Preference Priority will display the Ringing Line Preference Priority data entry page. Click **[Save]** button after changing Value.

	PGM Base Function Base	<	Favorite P	GM RLP Priorit X	
	Q PGM Search				
	System ID & Numbering Plans		Priority	Value	
	Station Data		1	Transfer CO/IP Call CO/IP Recall	
	Board Based Data		3	Incoming CO/IP Call	
			4	Queued CO/IP Call	
	CO Line Data				
	System Data 🗸 🗸				
	System Attributes(160~161)				
	System Password(162)				
h	Alarm Attributes(163)				
	Attendant Assignment(164)				
<	Multicast IP/Port(165)				
	DISA COS(166)				
	DID/DISA Destination(167)				
	External Control Contacts(168)				
	LCD Display Mode(169)				
	LED Flashing Rates(170)				
	Music Sources(171)				
	PBX Access Codes(172)				
	RLP Priority(173)				
	RS-232 Port Settings(174)				
	Serial Port Selections(175)				
	Pulse Dial (Break/Make) Ratio(176)				

Figure 4.4.5.13-1 Ringing Line Preference Priority

When multiple calls are ringing at the same time to a station assigned Ringing Line Preference, the order of preference is based on the type of call: CO/IP Transfer, CO/IP Recall, Incoming call, CO/IP Queue. A queued CO/IP call is always assigned the lowest priority.

4.4.5.14 RS-232 Port Settings - PGM 174

-

Selecting RS-232 Port and USB 1&2 port Settings will display the RS-232 Port and USB 1&2 port Settings data entry page. Click **[Save]** button after changing Value.

PGM Base Function Ba	ise <	Favorite PGM	RS-232 Port.	×		
Q PGM Search	0					
System ID & Numbering Plans		Attribute	١	/alue	Range	
			Baudrate	115200 BAUD 🔻		
Station Data			CTS/RTS	OFF V		
Board Based Data		Serial 1 Port Setting	Page Break	OFF •		
			Line Per Page	66	001-199	
CO Line Data			XON/XOFF	XOFF •		
System Data	~		Baudrate	115200 BAUD 🔻		
	_		CTS/RTS	OFF •		
System Attributes(160~161)		USB 1 Port Setting	Page Break	OFF •		
System Password(162) Alarm Attributes(163)			Line Per Page	66	001-199	
Attendant Assignment(164)			XON/XOFF	XOFF •		
Multicast IP/Port(165)			Baudrate	115200 BAUD V		
DISA COS(166)			CTS/RTS	OFF •		
DID/DISA Destination(167)		USB 2 Port Setting	Page Break	OFF T		
External Control Contacts(168)			Line Per Page	66	001-199	
LCD Display Mode(169)			XON/XOFF	XOFF •		
LED Flashing Rates(170)						
Music Sources(171)						
PBX Access Codes(172)						
RLP Priority(173)						
RS-232 Port Settings(174)						
Serial Port Selections(175)						
Pulse Dial (Break/Make) Ratio(176)					

Figure 4.4.5.14-1 RS232 Port and USB 1&2 port Settings

Certain characteristics of each port are programmable including baud rate, RS 232 control, and page settings. Refer to the following table for a description of the settings and the data entries available.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Baud Rate	This entry establishes the BAUD rate for the RS-232 serial port.	Unknown/ 9600/ 19200/ 38400/ 57600/ 115200	115200
CTS/RTS	The system's RS232 port can support Clear-to-Send (CTS) and Ready-to-Send (RTS), control leads.	OFF ON	OFF
Page Break	The system can send a page break command over the serial port at the end of each page. See Lines per Page below for page length set-up.	OFF ON	OFF
Line Per Page	This entry sets the page length, the number of lines the system will send before sending the page break.	001~199	66
XON/XOFF	This entry enables/disables XON/XOFF protocol.	XON/ XOFF	XOFF

4.4.5.15 Serial Port Selections - PGM 175

Selecting Serial Port Selections will display the Serial Port Selections data entry page. For each function select the desired output using the drop-down menu and, if a TCP channel is assigned, enter the TCP port. Click **[Save]** button after changing Value.

			te PGM Serial Port	C		
PGM Search	0					
System ID & Numbering Plans		Order <u>↓</u> a	Attribute	Value	TCP PORT	
	-	1	Off-line SMDR/Statistics Print	Serial Port 1 🔻	NULL	
Station Data		2	ADMIN Data Print	Serial Port 1 🔻	NULL	
Board Based Data		3	Traffic Print	Serial Port 1 🔻	NULL	
00 Line Brite	-	4	SMDI Print	Serial Port 1 <	NULL	
CO Line Data		5	Call Information Print	Serial Port 1 🔻	NULL	
System Data	~	6	On-line SMDR Print	Serial Port 1 🔻	NULL	
System Attributes(160~161)		7	Trace Print	Serial Port 1 🔻	NULL	
System Password(162)		8	Debug Print	Serial Port 1 🔻	NULL	
Alarm Attributes(163)		9	ACD Package Print	Serial Port 1 🔻	NULL	
Attendant Assignment(164)		10	SMDR Interface Data Print	Null	NULL	
Multicast IP/Port(165)						
DISA COS(166)						
DID/DISA Destination(167)						
External Control Contacts(168)						
LCD Display Mode(169)						
LED Flashing Rates(170)						
Music Sources(171)						
PBX Access Codes(172)						
RLP Priority(173)						
RS-232 Port Settings(174) Serial Port Selections(175)						
Senar Port Selections(175)						

Figure 4.4.5.15-1 Serial Port Selections

The system has six (6) serial ports (1 RS232, 3 TCP Channels and 2 USB serial). A serial port is assigned to each function that requires a serial output.

4.4.5.16 Pulse Dial (Break/Make) Ratio - PGM 176

Selecting Pulse Dial (Break/Make) Ratio will display the Break/Make Ratio data entry page. Click **[Save]** button after changing Value.

PGM Base Function B	ase	< Favorite	PGM Pulse Dial (×
Q PGM Search	0			
System ID & Numbering Plans		Order <u>↓</u> a	Attribute	Value
Station Data		1	Break/Make Ratio	60/40 % 🔻
Board Based Data				
CO Line Data				
System Data	~			
System Attributes(160~161)				
System Password(162)				
Alarm Attributes(163)				
Attendant Assignment(164)				
Multicast IP/Port(165)				
DISA COS(166)				
DID/DISA Destination(167)				
External Control Contacts(168)				
LCD Display Mode(169)				
LED Flashing Rates(170)				
Music Sources(171)				
PBX Access Codes(172)				
RLP Priority(173)				
RS-232 Port Settings(174)				
Serial Port Selections(175)				
Pulse Dial (Break/Make) Ratio(176)			
SMDR Attributes(177)				
System Date & Time(178)				

Figure 4.4.5.16-1 Break/Make Ratio

For Pulse dial CO Lines, the system supports 10pps and break/make ratios of 60/40% or 66/33%.

4.4.5.17 SMDR Attributes - PGM 177

Selecting SMDR Attributes will display the SMDR Attributes data entry page. Click **[Save]** button after changing Value.

PGM Base Function Base	< Fa	vorite PGM SMDR Attri X			
PGM Search					
System ID & Numbering Plans	Order	Attribute		Value	Range
	1	Save Enable	OFF	· •	
Station Data	2	Print Enable	ON	•	
Board Based Data	3	Record Type	Lon	g Distance 🔻	
	4	Long Distance Call Digit Counter	7		07-15
CO Line Data	5	Print Incoming Call	OFF	T	
System Data 🗸 🗸	6	Print Lost Call	ON	•	
	7	Records In Detail	ON	•	
System Attributes(160~161)	8	Hidden Dialed Digit	0		0-9
System Password(162) Alarm Attributes(163)	9	Dialed Digit Hide Option	Righ	nt 🔻	
Attendant Assignment(164)	10	SMDR Currency Unit			Max 3 characters
Multicast IP/Port(165)	11	SMDR Cost Per Metering Pulse	0000	00	Must be 6 digits
DISA COS(166)	12	SMDR Decimal Location	0		0-5
DID/DISA Destination(167)	13	Start Timer	0	(*1sec)	000-250
External Control Contacts(168)			1	0	Max 2 Digits
LCD Display Mode(169)			2		Max 2 Digits
LED Flashing Rates(170)	14	Long Distance Call Code	3		Max 2 Digits
Music Sources(171)			4		Max 2 Digits
PBX Access Codes(172)			5		Max 2 Digits
RLP Priority(173)	15	SMDR Ring/CLI/CPN Service-I	Rino	, <u> </u>	india 2 Digito
RS-232 Port Settings(174)	16	SMDR Ring/CLI/CPN Service-II	CPN		
Serial Port Selections(175) Pulse Dial (Break/Make) Ratio(176)	17	Print MSN	OFF		
SMDR Attributes(177)	18	Print Serial No	OFF		
System Date & Time(178)	19	SMDR Interface Service	OFF		
System Multi Language(179)	20	SMDR ICM Save	OFF		
System Timers(180~182,186)	20	SMDR ICM Print	OFF		
In Room Indication(183)	21	SMDR Disconnect Cause	OFF		
Web Access Authorization	22	SWDR DISCONNECT Cause	0	(*10min)	

Figure 4.4.5.17-1 SMDR Attributes

Station Message Detail Recording (SMDR), which is output over an RS 232 port or TCP channel, contains details on both incoming and outgoing calls. Various SMDR attributes can be assigned including; output records for all calls or LD only, call cost per pulse when using call metering, etc. Refer to the following table for a description of each Attribute and the data entries required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Save Enable	The system can output all outgoing call records (ON) or, to allow for PSTN call set-up times, only records for calls that exceed the SMDR Timer (OFF). For SMDR Timer settings refer to "Start Timer" as the below.	OFF ON	OFF
Print Enable	The system can output SMDR records automatically as they occur (real-time) or only when requested. When this attribute is ON, SMDR is sent at call completion.	OFF ON	ON
Record Type	The system can record all outgoing calls or only long distance calls. Long distance calls are identified by the LD digit count and LD codes assigned in "Long Distance code".	Long Distance/ ALL calls	Long Distance

Table 4.4.5.17-1 SMDR ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Long Distance Call Digit Counter	Dialed numbers, which exceed the assigned LD digit count are considered long distance calls for SMDR and COS purposes.	07-15	07
Print Incoming Call	The system can output records for Incoming calls as well as outgoing calls. If enabled, incoming as well as outgoing calls are recorded.	OFF ON	OFF
Print Lost Call	When incoming call records are enabled, the system can also provide records for unanswered incoming (abandoned) calls.	OFF ON	ON
Records In Detail	The system can output detailed call records (ON) or summary call information (total number of calls, cost and cost for each station).	OFF ON	ON
Hidden Dialed Digit	For security purposes, digits dialed for an outgoing call can be hidden and replaced with "*". This field defines the number of digits to hide. The Dialed Digit Hide Option below defines whether leading or trailing digits are hidden The station must be assigned for SMDR Hidden digits in <i>Common Attributes</i> <i>section</i> '.	0~9	0
Dialed Digit Hide Option	When "HIDDEN DIALED DIGIT" is enabled, above, this field determines if leading or trailing digits are hidden.	Right/ Left	Right
SMDR Currency Unit	The unit of currency used for call cost can be identified with 3- characters for easy reference.	Max. 3 characters	
SMDR Cost Per Metering Pulse	When call metering is provided by the PSTN, the cost per metering pulse can be assigned.	6-digits	000000
SMDR Decimal Location	This value determines the position of the decimal in the Cost per Pulse entry above, starting from the right most digits.	0~5	0
Start Timer	To allow for call set-up times through the PSTN, a "Valid call timer" can be set.	000~250 (msec)	0
Long Distance Code	For SMDR and COS purposes, five (5) Long Distance codes of up to two (2) digits each can be assigned. If dialed as the 1st digits, the call is considered an LD call.	5 two digit LD codes, use * as wild card(any digit)	
SMDR CLI or Ring Service I	For incoming calls, the system will send the defined data item for "Field I". The data item may be CLI, CPN or Ring Service Time. Note the User dialed number is always provided for an outgoing call.	RING/ CLI/ CPN	RING
SMDR Ring/CLI/CPN Service II	For incoming calls, the system will send the defined data item for "Field II". The data item may be CLI, CPN or Ring Service Time.	RING/ CLI/ CPN	CPN
Print MSN	For an ISDN call involving an MSN number, the MSN number Information can be included in the SMDR Record.	OFF ON	OFF
Print Serial No	Each SMDR Record can include a record number starting at 1 and incrementing until the records are deleted. The record number will reset to 1 when SMDR capacity is reached or SMDR Mail Auto Delete Set is enabled under System Attributes.	OFF ON	OFF
SMDR Interface Service	When enabled, the system stores SMDR data to send to applications including NMS (Network Management System) upon request.	OFF CO CALL, CO & ICM CALL	OFF

Table 4.4.5.17-1 SMDR ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SMDR ICM Save	When enabled, intercom call data is stored as part of the SMDR data.	OFF ON	OFF
SMDR ICM Print	When enabled, intercom call data is printed as part of the On- line SMDR.	OFF ON	OFF
SMDR Disconnect Cause	When enabled, the disconnect cause is stored in Off-line SMDR data and printed as parted of the On-line SMDR.	OFF ON	OFF
Long time call	To monitor long duration external calls, a "Long Time Call" can be set. If CO call duration exceeds this value, a notification will be sent to NMS server and alarm. If set to "000" the feature is disabled.	000 ~ 144 (10 min.)	0
Print SMDR from any CO to NET call	When a CO call is transferred to a Net transit-out CO, the local SMDR record is deleted.	OFF ON	OFF
Transfer Call Charge Rate	 When a call is transferred by a station, the SMDR record can be charged based on the following options. 1. Individual: When a call is transferred to another station, the transferred call is charged both stations based on the time on the call. 2. Integrate transferring station: When a call is transferred to another station, the call is charged to the transferring station. 3. Integrate transferred station: When a call is transferred to another station, the call is charged to the transferring station. 	Individual/ Integrate transferring station/ Integrate transferred station	Individual Station
Attendant Transfer Charge Rate	 When a call is transferred by a station, the SMDR record can be charged based on the following options. 1. Individual charging: When the Attendant places an outgoing call and transfers the call to a station, the Transfer Call Charge Rate above. 2. Attendant station charging: When Attendant places an outgoing call and transfers this call to a station, the call is charged to the Attendant. 3. Transferred station charging: When the Attendant places an outgoing call and transfers this call to a station, the call is charged to the receiving station. 	Individual charging/ Attendant station charging/ Transferred station charging	Individual charging
International Access Code	The system will recognize the digits assigned as the International access code digit sequence when dialed as the first digits.	Max. 4 digits	
Mobile Access Code	The system will recognize the digits assigned as the Mobile network access code digit sequence when dialed as the first digits.	Max. 4 digits	
VSF Voicemail indication	Calls to the Voice Mail may be shown as I (Incoming call) or V (New indication) for Voice Mail in the SMDR record.	I (Incoming call)/ V (New indication)	l(Incoming call)
Display Nxxxx for Net number	An "N" can be included in the SMDR to identify the call as a Network call.	OFF/ ON	OFF
Outgoing call type	Select SMDR type for outgoing call. - All call: SMDR can be provided for all outgoing call. - Answered call: SMDR can be provided in case the called party is answered.	All Call, Answered Call	All Call

Table 4.4.5.17-1 SMDR ATTRIBUTES

4.4.5.18 System Date & Time - PGM 178

Selecting System Date & Time will display the System Date & Time and DST data entry page. Click **[Save]** button after changing Value.

PGM Base Function Base	< Fav	rorite PGM	System Da	t X				
PGM Search								
System ID & Numbering Plans	Order	Attribute		Value		Range		
		Time & [Date (Don't	Save : 💌)				
Station Data	1	Time	Hour	18		00-23		
Board Based Data		TITLE	Minute	04		00-59		
			Month	08		01-12		
CO Line Data	2	Date	Day	19		01-31		
System Data			Year	14		00-99		
		Dayl	ight Saving	Time				
System Attributes(160~161)	1	DST Mode	ON V					
System Password(162)			Month	03		01-12		
Alarm Attributes(163)				Second	•			
Attendant Assignment(164) Multicast IP/Port(165)	2	DST Start Time	Weekday	Sunday	-			
DISA COS(166)			Hour	02		00-23		
DID/DISA Destination(167)			Month	11		01-12		
External Control Contacts(168)					, •]			
LCD Display Mode(169)	3	DST End Time	Weekday	Sunday	-			
LED Flashing Rates(170)			Hour	02		00-23		
Music Sources(171)			Hour	02		00 23		
PBX Access Codes(172)								
RLP Priority(173)								
RS-232 Port Settings(174)								
Serial Port Selections(175)								
Pulse Dial (Break/Make) Ratio(176)								
SMDR Attributes(177)								
System Date & Time(178)								
System Multi Language(179)								
System Timers(180~182,186)								

Figure 4.4.5.18-1 System Date & Time

The System Date and Time are established by the [Time & Date] menu. The date and time are employed for several features and functions including; LCR, LCD displays, SMDR outputs, Auto Ring mode Selection, Wake-up Alarm, etc.

If Daylight Savings Time is enabled the system time will be adjust one-hour forward and back at the DST start and end times, respectively.

4.4.5.19 System Multi Language - PGM 179

Selecting System Multi Language will display the System Multi Language data entry page. Click **[Save]** button after changing Value.

Enter Device/GW slot sequence number: eMG80 : 1-300 / eMG800: 1-2890 / UCP: 1-3688

System Data v	^			
System Attributes(160~161)	< Fa	avorite PGM System Mu	× C	
System Password(162)	Entre	Devie (OW Olet Oceanies Numb	- (4 - 2000) -	
Alarm Attributes(163)	Enter	Device/GW Slot Sequence Numbe	er (1 - 3000).	Load
Attendant Assignment(164)	Devic	e/Gateway Sequence(Slot) Numbe	r 3001	
Multicast IP/Port(165)	Inde	x Language	Usage	
DISA COS(166)	1	English(North America)	OFF V	
DID/DISA Destination(167)	2	Unknown 🔻	OFF V	
External Control Contacts(168)	3	Unknown 🔻	OFF V	
LCD Display Mode(169)	4	Unknown 🔻	OFF V	
LED Flashing Rates(170)	5	Unknown 🔻	OFF V	
Music Sources(171)	6	Unknown 🔻	OFF V	
PBX Access Codes(172)				
RLP Priority(173)				
RS-232 Port Settings(174)				
Serial Port Selections(175)				
Pulse Dial (Break/Make) Ratio(176)				
SMDR Attributes(177)				
System Date & Time(178)				
System Multi Language(179)				
System Timers(180~182,186)				
In Room Indication(183)				

Figure 4.4.5.19-1 System Multi-Language

The VSF (VMIU, VMIB, UVM) supports multiple languages (18 languages); up to six languages may be supported simultaneously. Once the prompts are downloaded to the VMIU and VMIB, the caller receives the Language selection announcement for DISA and CCR calls as well as preceding a Station Group announcement or DID error announcement. The language selection announcement will only affect the language prompts enabled for use with the device indicated by the Sequence number.

4.4.5.20 System Timers - PGM 180 ~ 182 & 186

Selecting System Timers will display the System Timers data entry page. Click **[Save]** button after changing Value.

PGM Base Function Base	< Favorit	e PGM System Tim X			
Q PGM Search					
System ID & Numbering Plans	Order <u>↓</u> a	timer <u>↓</u> ª	Va	lue	Range
	1	Attendant Recall Drop Timer	1	(*1min)	00-60
Station Data	2	Call Park Recall Timer	120	(*1sec)	000-600
Board Based Data	3	Camp-on Recall Timer	30	(*1sec)	000-600
	4	Exclusive Hold Recall Timer	60	(*1sec)	000-600
CO Line Data	5	I-Hold Recall Timer	30	(*1sec)	000-600
System Data V	6	System Hold Recall Timer	30	(*1sec)	000-600
System Attributes(160~161)	7	Transfer Recall Timer	30	(*1sec)	000-600
System Password(162)	8	ACNR Delay Timer	30	(*1sec)	000-300
Alarm Attributes(163)	9	ACNR Pause Timer	30	(*1sec)	000-300
Attendant Assignment(164)	10	ACNR Retry Counter	3		01- 13
Multicast IP/Port(165)	11	ACNR Tone Detect Timer	30	(*1sec)	001-300
DISA COS(166)	12	Automatic CO Release Timer	30	(*1sec)	000-300
DID/DISA Destination(167)	13	CCR Inter-Digit Timer	30	(*100ms)	000-300
External Control Contacts(168)	14	CO Dial Delay Timer	5	(*100ms)	00-99
LCD Display Mode(169) LED Flashing Rates(170)	15	CO Release Guard Timer	20	(*100ms)	010-150
Music Sources(171)	16	CO Ring Off Timer	60	(*100ms)	001-150
PBX Access Codes(172)	17	CO Ring On Timer	2	(*100ms)	1-9
RLP Priority(173)	18	Elapsed Call Timer	180	(*1sec)	005-900
RS-232 Port Settings(174)	19	Web Password Guard Timer	5	(*1min)	001-999
Serial Port Selections(175)	20	Call Forward No Answer Timer	15	(*1sec)	000-600
Pulse Dial (Break/Make) Ratio(176)	21	DID/DISA No Answer Timer	0	(*1sec)	000-255
SMDR Attributes(177)	22	VSF User Maximum Record Timer	0	(*1sec)	000-999
System Date & Time(178)	23	VSF Valid User Message Timer	4	(*1sec)	0-9
System Multi Language(179) System Timers(180~182,186)	24	Door Open Timer	20	(*100ms)	00-99
In Room Indication(183)	25	ICM Dial Tone Timer	10	(*1sec)	001-255
Web Access Authorization	26	Inter Digit Timer	5	(*1sec)	01-20
Obstice Misk Authorization		1000101300 3 1 T	6	/*4	

Figure 4.4.5.20-1 System Timers

A number of timers can be assigned to control and affect many features and functions. Refer to the following table for a description of the timers and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Attendant Recall Timer	Enter the desired time that Attendant receives recall after the system will disconnect the call.	00~60 (minutes)	01
Call Park Recall Timer	Enter the desired recall time for call park. Parked call will recall the station at a specified time.	000~600 (seconds)	120
Camp-on Recall Timer	When a call is transferred using Camp-On, this field determines the desired recall time for Camp-on. The station receives the call again with a specified time.	000~600 (seconds)	030
Exclusive Hold Recall Timer	Enter the desired time for Exclusive hold. The station receives the call again after a specified time.	000~600 (seconds)	060

Table 4.4.5.20-1 SYSTEM TIMERS

ATTRIBUTE

_		_	_
I-Hold Recall Timer	Enter the desired time for Hold recall. The station receives the call again after a specified time.	000~600 (seconds)	030
System Hold Recall Timer	Enter the desired time for System hold recall time. The station receives the call again after a specified time.	000~600 (seconds)	030
Transfer Recall Timer	Enter the desired time for transferring the call again to the receiving station.	000~600 (seconds)	030
ACNR Delay Timer	If the ACNR Pause Timer expires and no CO/IP Line is available for ACNR recall, in this filed, you can set the delay time before ACNR attempts to access a CO/IP line again. This feature doesn't affect the ACNR retry counter.	000~300 (seconds)	030
ACNR Pause Timer	Enter the desired time for pause between ACNR recall attempts.	000~300 (seconds)	030
ACNR Retry Counter	Enter the number of ACNR retry attempts. ACNR will finish after a specified times. Regarding CIS country, the range is from 1 to 9.	1~13	03
ACNR Tone Detect Timer	If call progress tones are not available for ACNR, the system will wait the specified time after dialing before considering the called party as "busy/no answer".	001~300 (seconds)	30
Automatic CO Release Timer	If a user accesses a CO/IP Line and takes no action, the system will automatically release the CO/IP Line when the specified time is over or expired.	000~300 (seconds)	030
CCR Inter-digit Timer	Inter-digit timer used with Customer Call Routing function.	000~300 (seconds)	030
CO Dial Delay Timer	To prevent dialing when CO/PBX has slow response, dialing by the system can be delayed using this timer.	00~99 (minutes)	05
CO Release Guard Timer	When a CO/IP Line is returned to idle, the system will deny access for the specified time to assure the PSTN returns the CO/IP Line circuitry to be idle.	010~150 (seconds)	020
CO Ring Off Timer	This timer sets the maximum 'OFF' duration of the incoming ring cycle for the Ring Detect circuitry of the system to detect an abandoned call.	001~150 (seconds)	060
CO Ring ON Timer	This timer sets the 'ON' time of the incoming ring cycle for the Ring Detect circuitry of the system to recognize an incoming call.	1~9 (100 msec)	2
Elapsed Call Timer	Users can receive a periodic tone indicating the length of an outgoing call. This timer sets the time before and between the tones. Note CO Warning Tone must be enabled for the station in Station Data in ' <i>Station Data</i> <i>section</i> '.	005~900 (seconds)	180
Web Password Guard Timer	If no data packet is received during a Web connection, after the guard time a password check will be initiated by the system.	001~999 (minutes)	5
Call Forward No Answer Timer	When a user activates No-Answer Forward, calls will ring for this duration before being forward. The Station No-Answer Forward timer section will take precedence.	000~600 (seconds)	15
DID/DISA No Answer Timer	A DID/DISA call to a busy station will forward to the DID/DISA Destination assigned under section should this timer expires.	000~255 (seconds)	00

Table 4.4.5.20-1 SYSTEM TIMERS

DESCRIPTION

DEFAULT

RANGE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF User Maximum	This timer sets the maximum duration allowed for the	000~999	0
Record Timer	User Greeting in the system's VSF.	(seconds)	0
VSF Valid User	This timer sets the minimum duration allowed for a User	0~9	4
Message Timer	Greeting.	(seconds)	-
Door Open Timer	This timer sets the minimum time required to activate the contact assigned as a door open contact.	00~99 (100 msec)	20
ICM Dial Tone Timer	If a user goes off-hook to receive Intercom dial tone and takes no action for this timer, the user will receive error tone.	001~255 (seconds)	10
Inter Digit Timer	This timer sets the maximum time allowed between each user-dialed digit. At expiration, the user will receive error-tone.	01~20 (seconds)	5
MSG Wait Reminder Tone Timer	An iPECS IP or LDP Phone user will receive periodic reminder tones of a message waiting at intervals of this timer.	00~60 (minutes)	00
Paging Timeout Timer	Determines the maximum duration of a page after which the caller and Page Zone are released.	000~255 (seconds)	15
Pause Timer	A Timed pause of this duration is used in speed dial and during other automatically dialed digits sent to the PSTN.	1~9 (seconds)	3
Soft auto RLS Timer	When a Soft Key is used on the 6000 or 7000 series iPECS IP or LDP Phone, after expiration of this timer, the display will return to the previous display.	1-30 (seconds)	10
VM Pause Timer	When the system sends a "Pause" to Voice Mail using in-band signals, this timer defines the Pause duration. (Not available in the USA.)	1-90 (ms)	30
SLT Hook Switch Bounce Timer	This timer determines the duration the system considers an actual state change in the hook-switch and not a spurious contact bounce.	01~25 (100 msec.)	1
SLT Maximum Hook Switch Flash Timer	This timer sets the maximum time an SLT user can depress the hook-switch for a Flash signal.	01~25 (100 msec.)	10
SLT Minimum Hook Flash Timer	This time sets the minimum time an SLT user must depress the hook-switch for a Flash signal.	000~250 (10 msec.)	30
Station Auto Release Timer	For an internal call, the system will return a station to idle if the call remains unanswered for this duration.	000~300 (seconds)	60
Unsupervised Conference Timer	This timer determines the duration of an "Unsupervised Conference" before the station is recalled or the conference is dropped. 00 means 10 minutes.	00~99 (minutes)	10
Prime Line Delay Timer	This timer sets the delay (no action duration) for delayed (Warm) Prime Line operation.	01~20 (seconds)	5
Wink Signal Timer	This timer sets the duration of the "Seize Acknowledge Signal" (Wink) sent to the PSTN on a DID line.	010~200 (10 msec.)	10
En-block Inter Digit Timer	When an ISDN Line is assigned to send digits En-block, CO Attribute section, the system will send digits if the user dials "#" or this En-block inter-digit timer expires.	01~20 (seconds)	5
DTMF Duration Timer	This timer establishes the duration of DTMF tones sent on an analog CO line.	04~99 (10 msec.)	10
Flex DID Timer	The system will receive DID digits for this timer. After the timer expires, the system will use the last 2 to	01~99 (100 msec)	30

Table 4.4.5.20-1 SYSTEM TIMERS

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	4 digits received as DID digits.		
R2 Out Manage Timer	Reserved for future usage for R2 timers.	01~50 (seconds)	14
R2 In Manage Timer	Reserved for future usage for R2 timers.	01~50 (seconds)	14
R2 Disappear Timer	Reserved for future usage for R2 timers.	01~50 (seconds)	14
R2 Pulse Timer	Reserved for future usage for R2 timers.	01~30 (*20ms)	7
R2 Ready Timer	Reserved for future usage for R2 timers.	000~500 (*200ms)	7
Dial Tone Delay Timer	Reserved for future usage for R2 timers.	01~30 (*20ms)	20
Wake Up Fail Timer	At expiration of this timer, the system will notify the Attendant when a user does not respond to a Wake up alarm.	00~99	20
VSF Cut Error Tone Timer	The duration of Voice Messages in the built-in Voice Mail are reduced by this timer to remove error tone that may be sent by the carrier after disconnect.	00~90 (seconds)	0
On Hook Auto Idle Timer	When an iPECS IP or LDP Phone receives a disconnect message or signal from CO line the phones goes to idle after this timer.	00~99 (seconds)	0
IP Watch Timer	When Local redundancy is implemented, should the LAN cable fail, both call servers may attempt to be active. To protect against this "dual active" case, the system can periodically check for an active back-up module.	0~250 (1 sec.)	0
Prepaid Call Drop Warning Timer	When the Prepaid funds are exhausted, the user will receive a warning tone indicating the call will be dropped after this timer expires.	00-99	10
Emergency retry timer	System try to make emergency call according to the CO access rule/Prefer CO/CO group if system could not seize predefined emergency Co line within this timer.	00~99 (seconds)	0
Record Warning Repeat Timer	If record warning tone is set and this timer is set greater than 1, it works periodically when it's recorded.	000~999 (seconds)	0
Error Tone Timer	This timer sets the duration for Error Tone.	5~180 (seconds)	30
Howling Tone Timer	This timer sets the duration for Howling Tone.	0~180 (seconds)	30
VM Notify Play Delay Over CO Timer	When VM notification to the mobile uses an analog loop start Line, system will treat the call as the answered after this timer and play the new message prompt.	1~99 (1 sec.)	10
Fax Detect timer	It is maximum fax tone detection time to deliver FAX call to fax destination.	1~20 (1 sec.)	10
Auto Pause Release timer	IPCR Mute function will be released by this auto pause released timer.	0~255 (1 sec.)	0
UCS Ring ACK Timer	UCS Client is ringing before expiring the Ring ACK timer and afterwards will hear Error tones.	0~20 (seconds)	0
Short Modem Timer	If {Short modem} of a SLT is ON, the SLT maintains the	01~60	10

Table 4.4.5.20-1 SYSTEM TIMERS

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	modem mode for this time.	(1 sec.)	
Call log/Directory Auto Idle Timer	 When the timer is set "xx" and there is no action by a user while navigating call log/directory menu in a station, the station will go to idle in case of on-hook state. If the timer is set to 0, the feature is not worked. Condition The call log auto idle timer is supported only below phones. LIP-90xx series (9010/20/30/40) LIP-80xxE series (8012E/24/40E) LDP phones. Firmware of LIP-90xx and LIP-80xxE series should be upgraded (LIP-90xx: A.0Eb or later version, LIP-80xxE: A.1Fn or later version). The DECT phone and LIP-9070 do not support the directory auto idle timer. 	00, 10-99 (1 sec.)	0

Table 4.4.5.20-1 SYSTEM TIMERS

4.4.5.21 In-Room Indication - PGM 183

Selecting In-Room indication will display the In Room data entry page. Click **[Save]** button after changing Value.

PGM Base Function Base	Favorite PGM	In Room In X	
Q PGM Search	Enter In Room Numb	ber (1 - 10) : Load	
System ID & Numbering Plans	In Room Number1		
Station Data	Index	Station Number	
	Supervisor		
Board Based Data	Member 1		
CO Line Data	Member 2		
	Member 3		
System Data V	Member 4		
System Attributes(160~161)	Member 5		
System Password(162)	Member 6		
Alarm Attributes(163)	Member 7		
Attendant Assignment(164)	Member 8		
Multicast IP/Port(165)	Member 9		
DISA COS(166)	Member 10		
DID/DISA Destination(167)	Member 11		
External Control Contacts(168)	Member 12		
LCD Display Mode(169)	Member 13		
LED Flashing Rates(170)	Member 14		
Music Sources(171) PBX Access Codes(172)	Member 15		
RLP Priority(173)	Member 16		
RS-232 Port Settings(174)	Member 10		
Serial Port Selections(175)	Member 18		
Pulse Dial (Break/Make) Ratio(176)	Member 19		
SMDR Attributes(177)			
System Date & Time(178)	Member 20		
System Multi Language(179)			
System Timers(180~182,186)			
In Room Indication(183)			
Web Access Authorization			

Figure 4.4.5.21-1 In-Room Indication

The Supervisor Station can set the In-Room Indication for all members in the In-Room indication group. Up to 10 Supervisors (groups) can be configured can be programmed, and each can have up to 20 members in the group, excluding the Supervisor.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Supervisor	This entry assigns the Station number for the In- Room Group Supervisor.	Station number	
Member 01~20	This entry assigns stations as members of the In-Room Group.	Station number	

4.4.5.22 Web Access Authorization

Selecting Web Access Authorization will display the Web Access Authorization data entry page. This page is only displayed when a password is defined. Click **[Save]** button after changing Value.

A user can select three authorization option (N/A, Read, Read/Write) only in Web Access & Station Web Authorization PGM of Web Admin.

	<	Favorite PGM Web Access	Authori×			
PGM Search						Save
ystem ID & Numbering Plans	Order	PGM	User	Admin	Custom 1	Custom 2
tation Data		System ID & Numbering Plans	== Change All == 🔻	== Change All == 🔻	== Change All == 🔻	== Change All ==
	1	System ID(100)	Read •	Read/Write •	N/A T	N/A T
oard Based Data	2	System Overview	Read/Write •	Read/Write •	N/A T	N/A T
O Line Data	3	Device Port Num Change(101)	N/A •	Read/Write •	N/A •	N/A T
o Elle Data	4	System IP Plan(102)	Read •	Read/Write •	N/A T	N/A T
ystem Data 🗸 🗸	5	Device IP Plan(103)	Read •	Read/Write •	N/A T	N/A T
	6	CO Device Sequence Number(104)	N/A T	Read/Write •	N/A T	N/A T
System Attributes(160~161)	7	Flexible Station Number(105)	Read •	Read/Write •	N/A T	N/A T
System Password(162)	8	Flexible Numbering Plan(106~109)	Read V	Read/Write T	N/A T	N/A T
Alarm Attributes(163)	9	8 Digit Extension Table(238)	N/A T	Read/Write •	N/A T	N/A T
Attendant Assignment(164)		Station Data	== Change All == •	== Change All == •	== Change All == 🔻	== Change All ==
Multicast IP/Port(165)	1	Station Type(110)	Read V	Read/Write T	N/A T	N/A T
DISA COS(166)	2	Common Attributes(111)	N/A T	Read/Write •	N/A T	N/A T
DID/DISA Destination(167)	3	Terminal Attributes(112)	N/A T	Read/Write •	N/A T	N/A T
External Control Contacts(168)	4	CLI Attributes(113)	N/A T	Read/Write T	N/A T	N/A T
LCD Display Mode(169)	5	Flexible Buttons(115/129)	Read/Write •	Read/Write •	N/A T	N/A T
LED Flashing Rates(170) Music Sources(171)	6	Station COS(116)	N/A T	Read/Write •	N/A T	N/A T
PBX Access Codes(172)	7	CO/IP Group Access(117)	N/A T	Read/Write •	N/A T	N/A T
RLP Priority(173)	8	Internal Page Zone Overview	N/A T	Read/Write T	N/A T	N/A T
RS-232 Port Settings(174)	9	Internal Page Zone(118)	N/A T	Read/Write •	N/A T	N/A T
Serial Port Selections(175)	10	PTT Group Access(119)	N/A T	Read/Write	N/A T	N/A T
Pulse Dial (Break/Make) Ratio(176)	11	Preset Call Forward(120)	Read/Write •	Read/Write T	N/A T	N/A T
SMDR Attributes(177)	12	Station ICR Scenario (1201)	N/A T	Read/Write •	N/A T	N/A T
System Date & Time(178)	13	Idle Line Selection(121)	N/A T	Read/Write •	N/A T	N/A T
System Multi Language(179)	14	Station IP Attributes(122)	N/A T	Read/Write •	N/A T	N/A T
System Timers(180~182,186)	14	Station Timers(123)	Read/Write •	Read/Write •	N/A V	N/A T
In Room Indication(183)	15					
Web Access Authorization		Linked Station(124)	N/A V	Read/Write	N/A V	N/A •
Station Web Authorization	17	Station ICM Group(125) Station VM Attributes (127)	N/A T	Read/Write Read/Write	N/A T	N/A T

Figure 4.4.5.22-1 Web Access Authorization

Three different passwords can be assigned for the access to the iPECS Web administration so that the different levels of access to the program fields can be allowed. Four levels (User, Administrator, Custom1, and Custom2) have access to the assigned fields in this page by selecting N/A, Read, Read/Write. The Maintenance password has access all the programming fields and the maintenance fields including trace settings, device log view, gain & cadence control, lock key install and device delete feature. In addition, the Maintenance level user can assign the authorities of the other user levels.

In the Maintenance menu, the Database, SMDR, and Voice Mail Delete fields can be chosen by User level or Admin Level.

4.4.5.23 Station Web Access Authorization

Selecting Station Web Authorization will display the Web authorization data entry page. Click **[Save]** button after changing Value.

PGM Search	< F	Favorite PGM Statio	n Web Auth ×						
									Sav
stem ID & Numbering Plans	Order	PGM	Level 2		Level 3		Remark		
tion Data		Station Program	== Change All =	= •	== Change Al	== ▼			
	1	Station Attributes	Read/Write •		N/A	•			
rd Based Data	2	Station Call Forward	Read/Write •		N/A	•			
Line Data	3	Preset Call Forward	N/A •		N/A	•			
	4	Station ICR Scenario	Read/Write •		N/A	•			
tem Data 🗸 🗸	5	Station Speed Dial	Read/Write •		N/A	•			
Attributes (100 - 101)	6	Pre Select Message	Read/Write •		N/A	•			
vstem Attributes(160~161)	7	Flexible Buttons	Read/Write •		N/A	•			
vstem Password(162) arm Attributes(163)	8	Send Internal SMS	Read/Write •		N/A	•			
tendant Assignment(164)	9	Send External SMS	Read/Write •		N/A	•			
ulticast IP/Port(165)	10	Station Conference Group	Read/Write •		N/A	7			
SA COS(166)	11	System Conference Group	Read/Write •		N/A	•			
D/DISA Destination(167)	12	SET 5 Wake Up Alarm	Read/Write •		N/A	1			
xternal Control Contacts(168)	13	Mobile Extension Table	Read/Write •		N/A	7			
CD Display Mode(169)	14	Attendant Ring Mode	Read/Write •		N/A	ñ	Attendant Only		
ED Flashing Rates(170)	15	Attendant Wake Up Alarm	Read/Write •		N/A	1	Attendant Only		
usic Sources(171)	16	Bar Cost Charge	N/A T		N/A	ñ			
BX Access Codes(172)	17	Call Back	Read/Write •		N/A	7			
P Priority(173)	18	ACD Call Traffic	Read/Write •			ñ	ACD Supervisor	Only	
S-232 Port Settings(174)									
erial Port Selections(175)	Order	Attribute			Level 2		Level 3	Remark	
ulse Dial (Break/Make) Ratio(176)		Station Attribu	ites =	= Cha	ange All == 🔻	== Ch	ange All == 🔻		
MDR Attributes(177)	1	DND		Read	/Write 🔻	N/A	T		
stem Date & Time(178)	2	ICM Signaling Mode		Read	/Write 🔻	N/A	•		
/stem Multi Language(179)	3	Call Coverage Mode		Read	/Write 🔻	N/A	•		
vstem Timers(180~182,186)	4	Delay Ring Cycle		Read	/Write 🔻	N/A	•		
Room Indication(183)	5	Headset Usage		Read	/Write 🔻	N/A	•		
eb Access Authorization	6	Authorization Code		Read	/Write 🔻	N/A	•		
tation Web Authorization	7	DID Call Wait		Dead	/Write 🔻	N/A	•		

Figure 4.4.5.23-1 Station Web Access Authorization

Three access levels can be assigned to each station for access to the Station Web pages in Station Data (Common Attributes (111): 'Station Web Level'). Level 1 has access to all Station pages and attributes. The pages and attributes for Levels 2 and 3 are programmable.

4.4.5.24 NTP Attributes - PGM 195

Selecting NTP Attributes will display the System NTP Attributes entry page.

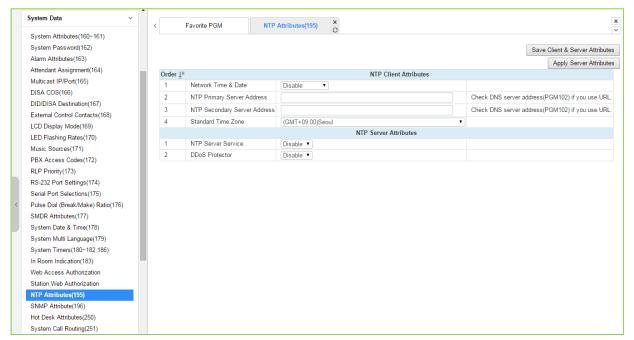


Figure 4.4.5.24-1 NTP Attributes

The system can employ the Network Time Protocol (NTP) to synchronize the system time with an NTP time server. The system requests the time from the NTP server at 10-minute intervals and then determines the time differential. If the system time is more 2 seconds off the NTP time, the system time is adjusted to synchronize with the NTP server time.

4.4.5.25 SNMP Attribute - PGM 196

Selecting SNMF	PAttribute will d	isplay the SNMF	P Attributes entry	/ page. Click [Save] button after
changing Value.					
Sustam Data	*				

System Data V						
	< Fa	vorite PGM S	NMP Attribute(196) ×			×
System Attributes(160~161)		U	-			
System Password(162)						Save
Alarm Attributes(163)						
Attendant Assignment(164)	Order <u>↓</u> a		SNMP Agent			
Multicast IP/Port(165)	1	SNMP Service	OFF V			
DISA COS(166)	2	SNMP MIB Type	iPECS-NMS ▼ KT-Biz ▼			
DID/DISA Destination(167)	3	SNMP Port	161			
External Control Contacts(168)						
LCD Display Mode(169)	Order <u>↓</u> a		SNMP Security			
LED Flashing Rates(170)	1	Read Only Communit	y : public			
Music Sources(171)	2	Read Write Communi	ty : private			
PBX Access Codes(172)	3	Accept SNMP P	acket from Any NMS Server			
RLP Priority(173)		Accept SNMP P	acket from These NMS Servers			
RS-232 Port Settings(174)				Read Only V		
Serial Port Selections(175)	4	•		Read Only V		
< Pulse Dial (Break/Make) Ratio(176)				Read Only V		
SMDR Attributes(177)				Read Only		
System Date & Time(178)	Order 1ª		SNM	IP Trap		
System Multi Language(179)	1	Trap Community : pu				
System Timers(180~182,186)		,	2.10		162	Notification •
In Room Indication(183)					162	Notification •
Web Access Authorization	2	Trap Destinations			162	Notification V
Station Web Authorization					162	Notification V
NTP Attributes(195)						
SNMP Attribute(196)						
Cabinet Attribute(197)						
Hot Desk Attributes(250)						
System Call Routing(251)						

Figure 4.4.5.25-1 SNMP Attribute

SNMP Attributes, as shown on the screen, are divided into three categories: SNMP Agent, SNMP Security, and SNMP Trap. The SNMP Service field enables the SNMP agent running in the iPECS call server. The SNMP port field defines the UDP port used for communications from iPECS system for SNMP messages. This port should not be changed.

In SNMP Security are the Read Only and Read Write SNMP Community fields, 4 to 16 characters. The SNMP community designates an SNMP communication group to which an SNMP message belongs, and is a logical relationship between the SNMP agent (iPECS system) and SNMP manager (iPECS NMS). The SNMP community settings must be the same for the iPECS system and the iPECS NMS server.

- Read Only Community (default=Public)—Defines a community string used when the iPECS NMS reads data from iPECS system.
- Read Write Community (default=Private)—Defines the community string used when iPECS NMS reads or writes data to iPECS system.

Although iPECS system can accept packets from any SNMP manger such as iPECS NMS, for improved security, the IP address of specific servers can be defined and allowed Read only or Read Write access. It is recommended that the system be assigned with the IP address of a specific NMS server with Read Write access.

The SNMP Trap configuration defines the Trap Community, and the Trap Destination, which

includes the IP Address of the SNMP manager, iPECS NMS, and the .message type. The Trap Community designates a communication group to which a Trap message belongs, and is a logical relationship between the SNMP agent (iPECS system) and SNMP manager (iPECS NMS). This 4 to 16 character string should be the same as the Trap community string defined in the iPECS NMS. The Trap community should be the same for all iPECS systems registered to an iPECS NMS server whereas the SNMP community may be defined with different strings for each iPECS system.

The Trap Destination defines the IP address of the iPECS NMS server and the port, 162. Enter the IP address of the NMS server but, the port should not be changed. The pull down menu next to the address is used to define the message type. Three values are available:

- Trap message type is defined in SNMPv1, but because iPECS-NMS and iPECS system use SNMPV2, the Trap type message is not recommended.
- Notification message type sent from the SNMP agent once without checking the reception of the message.
- Inform message type requires an acknowledgement from the SNMP manager. If the agent does not receive a response, the message is resent. Inform messages are intended for use in environments with high packet loss however, use of the Inform message type may detrimentally affect iPECS system performance.

The iPECS SNMP attributes are defined here. Refer to Table 4.4.5.25-1 for description and values that can be entered.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
SNMP service	SNMP Service field is used to set the SNMP agent in the iPECS ON or OFF.	OFF ON	OFF
SNMP MIB Type	Select SNMP MIB specification. U-CEMS is KOREA telecom speciation.	iPECS-NMS/ U-CEMS	iPECS-NMS
SNMP Port	SNMP Protocol port number.		161
Read Only Community	Read only community should be used when SNMP manager (NMS) is trying to read data from SNMP agent (eMG)	4 ~ 16 characters	public
Read Write Community	When the SNMP manager (NMS) needs to read and write data to the agent (iPECS system). This attribute should be enabled.	4 ~ 16 characters	private
Trap Community	For the SNMP agent (eMG/UCP), this field defines the destination IP address to receive trapped messages (Alarm/fault events).	4 ~ 16 characters	public
Trap Destination	IP address of iPECS NMS server, port 162 should not be changed.	IP address	Public
Message Type	Defines how the agent sends the Message.	Notification/ Inform/ Trap	Notification

4.4.5.26 Cabinet Attribute for UCP - PGM 197

Selecting Cabinet Attribute will display the Cabinet Attributes entry page. Click **[Save]** button after changing Value.

System Attributes(160~161)	< Fav	orite PGM Cabinet At	rib X	
System Password(162)	E-1O-1	in the last (0 - 24) .		
Alarm Attributes(163)	Enter Cat	pinet Index (0 - 31) :	Load	Sav
Attendant Assignment(164)	Cabinet I	ndex 1		
Multicast IP/Port(165)	Order La	Attribute	Value	
ISA COS(166)	1	Cabinet Status Check	OFF T	
ID/DISA Destination(167)	2	Cabinet No (0 ~ 999)	1	
xternal Control Contacts(168)	3	Status Check GW Slot See		
CD Display Mode(169)	4	Remark		
ED Flashing Rates(170)	4	Rellidik		
usic Sources(171)	Index Ca	abinet No Sts Check GW Sts	Check FAN1 Sts FAN2 Sts PSU1 FAN Sts PS	SU2 FAN Sts PSU1 Sts PSU2 Sts
BX Access Codes(172)	0 0) 0	F I	
LP Priority(173)	1 1	0	F	
S-232 Port Settings(174)	2 2	2 0	F	
erial Port Selections(175)	3 3	3 0	F	
ulse Dial (Break/Make) Ratio(176)	4 4	4 0	F	
IDR Attributes(177)	5 5	5 0	F	
/stem Date & Time(178)	6 6	6 0	F	
/stem Multi Language(179)	7 7	0	F	
stem Timers(180~182,186)	8 8	-		
Room Indication(183)	9 9			
eb Access Authorization		I0 O		
ation Web Authorization		0		
P Attributes(195)		0		
MP Attribute(196)		13 O 14 O		
binet Attribute(197)		14 O 15 O		
ot Desk Attributes(250)		15 O		
stem Call Routing(251)		17 0		
Call Rerouting(252)		17 0 18 0		
I COS Attributes(253)		19 O		
atic Route Table(254)		20 0		
cess Control List(255)		21 0		
system Speed Dial		22 0		

Figure 4.4.5.26-1 Cabinet Attribute

This Web page displays system cabinet configurations and alarm status.

4.4.5.27 Hot Desk Attributes - PGM 250

Selecting Hot Desk Attributes will display the Hot Desk Attributes data entry page. Click **[Save]** button after changing Value.

System Data V	< Favor	ite PGM Hot Des	sk Attribu <mark>×</mark>		
System Attributes(160~161)					
System Password(162)					
Alarm Attributes(163)	Order <u>↓</u> a	Attribute	Value	Range	
Attendant Assignment(164)	1	Number of Agent	0	0 - 577	
Multicast IP/Port(165)	2	View Agent Range	N/A		
DISA COS(166)	3	Auto Logout Timer	0	00 - 24	
DID/DISA Destination(167)		-			
External Control Contacts(168)					
LCD Display Mode(169)					
LED Flashing Rates(170)					
Music Sources(171)					
PBX Access Codes(172)					
RLP Priority(173)					
RS-232 Port Settings(174)					
Serial Port Selections(175)					
Pulse Dial (Break/Make) Ratio(176)					
SMDR Attributes(177)					
System Date & Time(178)					
System Multi Language(179)					
System Timers(180~182,186)					
In Room Indication(183)					
Web Access Authorization					
Station Web Authorization					
NTP Attributes(195)					
SNMP Attribute(196)					
Cabinet Attribute(197)					
Hot Desk Attributes(250)					
System Call Routing(251)					
CO Call Rerouting(252)					

Figure 4.4.5.27-1 Hot Desk Attributes

Hot Desk feature is available only for LIP phone, NOT for Digital phone and LIP-8002/2E.

A Hot Desk station allows a user to login for access to the system features and resources. Once logged in, the user is provided access to system features and resources employing the database for the user's assigned station.

User station numbers, which are used as the Agent ID, are assigned automatically by the system. The system assigns station numbers to each agent starting at the highest station number available.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Number of Agent	Assign number of Hot desk agent.	eMG80: 0-100 eMG800: 0-300 UCP:0-1200	0
View Agent Range	View the assigned station numbers for agents.		N/A
Auto Logout Timer	A Hot desk station will return to inactive if the logged in user takes no action for the Auto Logout timer.	00~24 Hrs.	00

Table 4.4.5.27-1 HOT DESK ATTRIBUTES

4.4.5.28 System Call Routing - PGM 251

Selecting System Call Routing will display the System Call Routing data entry page. Enter a valid Index range and click **[Load]** to enter Call Routing data. Click **[Save]** button after changing Value.

	System Data 🗸 📩													×
		<		Favorite PGM	System Ca	all Routing(251) ×	;						~
	System Attributes(160~161)	_								-				
	System Password(162)	Ente	er Index	Range (0 - 1009) :						Load				Save
	Alarm Attributes(163)	Inde	x Rang	e 1										
	Attendant Assignment(164) Multicast IP/Port(165)	Del	Order	Attribute				Value					Range	
	DISA COS(166)		1	Caller ID	N/A T							Max 23 Digit		
	DID/DISA Destination(167)		2	Called Num								Max 23 Digit		
	External Control Contacts(168)		2	Called Nulli								YYYY-MM-D		
	LCD Display Mode(169)			T 0 11	Start Date				id Date			TTTT-WWW-D	o lonnat	
	LED Flashing Rates(170)		3	Time Condition	MON TU Start Time	E U WED L	- End		SAT 🗆 SUN L	🗉 ALL 💷 Holio	day			
	Music Sources(171)						- End						be 4 digits) 0000-2359	
	PBX Access Codes(172)		4	Destination	N/A			•	DEST Value	•		Destination t	ype and value [VSF 0	-> Dial Tone] in DISA active
	RLP Priority(173)		5	Scenario Priority								0~9 (0:highe:	st priority)	
	RS-232 Port Settings(174)		6	Scenario Active	OFF V							Scenario Ena	able/Disable	
	Serial Port Selections(175)		7	Scenario VMID								vocie mail ID)	
4	Pulse Dial (Break/Make) Ratio(176)		8	Scenario COS	0							COS Level (D~11)	
	SMDR Attributes(177)		9	Scenario DISA Active	OFF V							DISA Enable		
	System Date & Time(178)		10	Scenario ICM Grp	0							0-100		
	System Multi Language(179)		11	Scenario Zone No	0							Zone Numbe	r (0-32)	
	System Timers(180~182,186)		12	Scenario Start CO	0							Start Co line	(0 - 998)	
	In Room Indication(183)		13	Scenario End CO	0							End Co line (
	Web Access Authorization											Group Numb	· · · · ·	
	Station Web Authorization		14	Scenario Group	0							00 : Unused		
	NTP Attributes(195)		15	Zone Holiday	0							Zone Numbe	r (0-32)	
	SNMP Attribute(196)													
	Cabinet Attribute(197)	Ind	ex <u>↓</u> a (Caller ID Called Num Ti	me Destination	Priority <u>↓</u> a	Active	VMID COS	S DISA Activ	re ICM Grp <u>↓</u> a	Zone CO	Line Group <u>↓</u>	^a Zone Holiday (0-32)	
	Hot Desk Attributes(250)	1					OFF	0	OFF	0	0	0	0	
	System Call Routing(251)													
	CO Call Rerouting(252)													
	VM COS Attributes(253)													
	Static Route Table(254)													

Figure 4.4.5.28-1 System Call Routing

System Call Routing establishes scenarios with criteria to route calls. Criteria include time 0f day, day of week, Caller and Called numbers, etc. System Call Routing takes precedent over other system based call routing. However, Station and CO Call Routing scenarios take precedence over System Call Routing scenarios.

Table 4.4.3.20-1 System Call Routing Attributes								
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT					
Caller ID	This field defines the Caller Id for the scenario.	Max. 23 Digits	N/A					
Called Num	This field defines the Called number for this scenario.	Max. 23 Digits						
Time condition (Start Day and End Day, weeks, start time and end time)	The time and day for activation of the scenario can be defined.	YYYY-MM-DD hhmm (Must be 4 digits)						
Destination (Type and Value)	This field defines the destination type and value for call routing when the scenario criteria are met.	STA Station Group SPD PABX/ VSF/ VSF(#)/ Net Station/ Company room/ INT Page/	N/A					

Table 4.4.5.28-1 System Call Routing Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		EXT Page/ All Page/ VM/ ICLID Table	
Scenario Priority	Each scenario can be assigned a priority. The highest priority scenario meeting the criteria is used to route the call.	0-9 (Highest priority)	
Scenario Active	A scenario must be active to be employed. If not active the scenario is ignored.	ON OFF	OFF
Scenario VMID	A Voice Mail Id can be associated with the scenario for routing to a Voice Mailbox.	Voice mail ID	
Scenario COS	If DISA is active for the scenario, the COS can be assigned for the call.	0-11 (COS level)	0
Scenario DISA Active	The scenario can employ DISA for the incoming call routing.	OFF/ ON	OFF
Scenario ICM Group	The scenario can route calls to a specific Tenancy group.	eMG80:0-15, eMG800:0-32 UCP:0-100	0
Scenario Zone No.	A zone can be assigned so that only CO calls to a CO/IP Line in the Zone will route based on the scenario.	0-32	0
Scenario Start CO and End CO	This field defines a range of CO/IP Lines that will employ to the scenario.	eMG80:0-74, eMG800:0-600 UCP:0-998	0
Scenario Group: this is used for scenario group by attendant.	Scenarios can be group allowing the Attendant to select a group of scenarios to route calls.	eMG80: Group number(01~15/ 00: unused) eMG800: Group number(01~32/ 00: unused) UCP:0-100	0
Zone Holiday	A Zone can be assigned for routing calls using the scenario during Holiday periods defined for the Zone.	0-32	0

Table 4.4.5.28-1 System Call Routing Attributes

4.4.5.29 CO Call Rerouting - PGM 252

Selecting CO Call Rerouting will display the CO Call Rerouting data entry page. Enter a valid Index range and click **[Load]** to enter Call Routing data. Click **[Save]** button after changing Value.

	System Data v	•									
	System Attributes(160~161)	<		Favorite PGM	CO Call Reroutin	g(×					×
	System Password(162)										
	Alarm Attributes(163)		Enter Ir	ndex Range (0 - 499) :				2	Load		Save
	Attendant Assignment(164)		Index D	lange 1-20							
	Multicast IP/Port(165)			Co Call Rerouting : C	N T						
	DISA COS(166)			e CRR :							
	DID/DISA Destination(167)			Compare CO Group	Compare Digits	CO + Rerouting Number	Percepting Tu	mo	Altornato	Dest CO Group	
	External Control Contacts(168)		1	1		CO + Rerouting Number	N/A	rhe ▲	Alternate	Dest CO Gloup	
	LCD Display Mode(169)										
	LED Flashing Rates(170)		2	1			N/A	•			
	Music Sources(171)		3	1			N/A	•			
	PBX Access Codes(172)		4	1			N/A	۲			
	RLP Priority(173)		5	1			N/A	•			
	RS-232 Port Settings(174)		6	1			N/A	T			
	Serial Port Selections(175)		7	1			N/A	•			
	Pulse Dial (Break/Make) Ratio(176)		8	1			N/A	-			
<	SMDR Attributes(177)		9	1			N/A	•			
	System Date & Time(178)										
	System Multi Language(179)		10	1			N/A	•			
	System Timers(180~182,186)		11	1			N/A	۲			
	In Room Indication(183)		12	1			N/A	۲			
	Web Access Authorization		13	1			N/A	۲			
	Station Web Authorization		14	1			N/A	•			
	NTP Attributes(195)		15	1			N/A	T			
	SNMP Attribute(196)		16	1			N/A	•			
	Cabinet Attribute(197)		17	1			N/A	•			
	Hot Desk Attributes(250)		18	1			N/A	-			
	System Call Routing(251)										
	CO Call Rerouting(252)		19	1			N/A	•			
	VM COS Attributes(253)		20	1			N/A	•			

Figure 4.4.5.29-1 CO Call Rerouting

CO Call Rerouting establishes routing for CO/IP calls with a specified caller id on CO/IP Lines from a specified group. The rerouting sends calls out over another CO/IP Line or group, a network destination, a DISA call or to another station. The incoming CO group and compare digits determine if the call should be rerouted and the destination is determined by the CO code and Telephone number, which is dialed when the incoming group and compare digits are matched. The routing type determines if the call is routed normal (N/A) or if the call is routed over a network or employs DISA.

Example	CRR	chart
---------	-----	-------

Index	Incoming CO group	Compare Code	CO Code + Tel number	Routing Type
0	1	454	88005123456	N/A
1	2	456**	8901123456	N/A
2	1	42*555	9123456	N/A
3	5	353	8901123456	NET Туре
4	5	401		DISA Type

- Index 0: If an incoming call on a CO/IP Line from group has digits "454" then seize CO 5 and send digit 123456.

- Index 1: If an incoming call on a CO/IP Line from group 2 has digits "456**" then seize CO group 1 and send digit 123456.
- Index 2: If an incoming call on a CO/IP Line from group1 has digits "42*555" then seize the first CO/IP Line and send digit 123456.
- Index 3; if an incoming call on a CO/IP Line from group 5 has digits "353" then seize CO group 1 and send digit 123456 as a transit-out call over the Network.
- Index 4: If an incoming call on a CO/IP Line from group 5 has digits "401" then activate DISA and await digits from the caller.

4.4.5.30 VM COS Attributes – PGM 253

Selecting VM COS Attributes will display the VM COS Attributes data entry page. Select a valid VM COS and click **[Load]** to enter VM COS data. Click **[Save]** button after changing Value.

System Attributes(160~161)	< F	avorite PGM VM C	OS Attrib X			
System Password(162) Alarm Attributes(163)	Enter V	'M COS Range (1 - 5) :			Load	Sa
Attendant Assignment(164)	VM CO	S Range 1				
Multicast IP/Port(165)	Order	Attribute	Value	Range		
DISA COS(166)	1	Greeting Length	60	0-99 sec		
DID/DISA Destination(167)	2	Message Length	0	0-600 sec		
External Control Contacts(168)	3	Number of Messages	0	0-250		
LCD Display Mode(169)		Retention Time	0			
LED Flashing Rates(170)	4		-	0-99 Day		
Music Sources(171)	5	E-Mail Notification	Notification and Delete			
PBX Access Codes(172)	6	Future Delivery Message	OFF V			
RLP Priority(173)		Confirm Message Receipt	OFF V			
RS-232 Port Settings(174)	8	Private Message Mark	OFF T			
Serial Port Selections(175)						
Pulse Dial (Break/Make) Ratio(176)						
SMDR Attributes(177)						
System Date & Time(178)						
System Multi Language(179)						
System Timers(180~182,186)						
In Room Indication(183)						
Web Access Authorization						
Station Web Authorization						
NTP Attributes(195)						
SNMP Attribute(196)						
Cabinet Attribute(197)						
Hot Desk Attributes(250)						
System Call Routing(251)						
CO Call Rerouting(252)						
VM COS Attributes(253)						
Static Route Table(254)						

Figure 4.4.5.30-1 VM COS Attributes

VM COS establishes various common characteristics of the user's Voice Mailbox including greeting and message length, E-mail notification, message retention, etc.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Greeting Length	This defines maximum user greeting length.	0-99 (Seconds)	60
Message Length	This defines maximum user message recording time.	0-600 (Seconds)	0
Number Of Messages	This defines maximum number of voice mail message.	0-250	0
Retention Time	Voice mail messages will be automatically deleted after this number of days.	0-99 Days	0
E-Mail Notification	E-mail notification can be enabled or disabled and, if enabled, the message can be deleted after notification.	Disable/ Notification Only/ Notification & Delete	Notification & Delete
Future Delivery Message	Future Delivery of messages can be enabled or disabled.	OFF ON	OFF
Confirm Message Receipt	Confirm message receipt can be enabled or disabled.	OFF ON	OFF
Private Message Mark	Private message mark can be enabled or disabled.	OFF ON	OFF

Table 4.4.5.30-1 VM COS ATTRIBUTES

4.4.5.31 Static Route Attributes - PGM 254

Selecting Static route Attributes will display the static route attributes data entry page. Click **[Save]** button after changing Value.

System Data V	< Fa	avorite PGM Static R	oute X	
System Attributes(160~161)			~	
System Password(162)				
Alarm Attributes(163)	Index	Feature	Value	
Attendant Assignment(164)	Index	Net Address	Value	
Multicast IP/Port(165)		Net Mask		
DISA COS(166) DID/DISA Destination(167)	1			
External Control Contacts(168)		Gateway IP Address		
LCD Display Mode(169)		Net Address		
LED Flashing Rates(170)	2	Net Mask		
Music Sources(171)		Gateway IP Address		
PBX Access Codes(172)		Net Address		
RLP Priority(173)	3	Net Mask		
RS-232 Port Settings(174)		Gateway IP Address		
Serial Port Selections(175)		Net Address		
Pulse Dial (Break/Make) Ratio(176)	4	Net Mask		
SMDR Attributes(177)		Gateway IP Address		
System Date & Time(178)				
System Multi Language(179)		Net Address		
System Timers(180~182,186)	5	Net Mask		
In Room Indication(183)		Gateway IP Address		
Web Access Authorization				
Station Web Authorization				
NTP Attributes(195)				
SNMP Attribute(196)				
Cabinet Attribute(197)				
Hot Desk Attributes(250)				
System Call Routing(251)				
CO Call Rerouting(252)				
VM COS Attributes(253)				
Static Route Table(254)				
Access Control List(255)				

Figure 4.4.5.31-1 Static Route Table Attributes

Table 4.4.3.31-1 STATIC ROUTE TABLE ATTIBUTES								
ATTRIBUTE DESCRIPTION		RANGE	DEFAULT					
Net address	Network IP address	IP address						
Net mask	Net mask							
Gateway IP address	Gateway(route) IP address	IP address						

Table 4.4.5.31-1 STATIC ROUTE TABLE ATTIBUTES

4.4.5.32 Access Control List – PGM 255

Access Control List will display the access control attributes data entry page. Enter a valid index range and click **[Load]** to enter ACL data. Click **[Save]** button after changing Value.

System Data	Favo	rite PGN		s Control List(×		×
System Attributes(160~161)	Tavo			s control List.	0		~
System Password(162)	Enter Index	Range (1	- 250) :		2	Load	Save
Alarm Attributes(163)	Deny Index	1 1 5					Sort
Attendant Assignment(164)	ACL Usage :		-				Apply
Multicast IP/Port(165)			Allow All				Pause
DISA COS(166)	Index Pro		Port Number	Port Type	Source IP Address	Remark	Clear
DID/DISA Destination(167)	1 N/			T OTC T JPO			
External Control Contacts(168)	2 N//						Help
LCD Display Mode(169)							
LED Flashing Rates(170)	3 N//		<u> </u>				
Music Sources(171)	4 N//	\ 	<u> </u>	<u> </u>			
PBX Access Codes(172)	5 N//	\ 	-				
RLP Priority(173)	6 N//	\ ▼		· · ·			
RS-232 Port Settings(174)	7 N//	• •		· · · ·			
Serial Port Selections(175)	8 N//		-	•			
	9 N//	• •	<u> </u>	· ·			
SMDR Attributes(177)	10 N/A	• •					
System Date & Time(178)	11 N//						
System Multi Language(179) System Timers(180~182,186)	12 N//						
In Room Indication(183)							
Web Access Authorization	13 N//		<u> </u>	· ·			
Station Web Authorization	14 N//		<u> </u>	· ·			
NTP Attributes(195)	15 N//	\ ▼	-	· · ·			
SNMP Attribute(196)							
Cabinet Attribute(197)							
Hot Desk Attributes(250)							
System Call Routing(251)							
CO Call Rerouting(252)							
VM COS Attributes(253)							
Static Route Table(254)							
Access Control List(255)							
Attendant Ring Mode (257)							

Figure 4.4.5.32-1 Access Control List

Access Control determines the Source IP addresses that can access the system for specific protocols.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		N/A, ALL,	
Protocol	This field defines the accessing protocol type.	TCP, UDP,	N/A
		ICMP	
Port number	This field further defines the protocol TCP/IP port number.		
Dort type	The port number can be configured as either the source or destination	DEST/	
Port type	port number.	SRC	
Source ID address	The allowed source IP address and net mask allowed access is		
Source IP address	defined by this field.		
Remark	This is a general remark field.		

Table 4.4.5.32-1 ACCESS CONTROL LIST

4.4.5.33 Attendant Ring Mode – PGM 257

Selecting Attendant ring mode will display Attendant ring mode entry page. Click **[Save]** button after changing Value.

	< Favorite PGM Atter	ndant Ring Mo ×			
System Attributes(160~161)		~			
ystem Password(162)					Sav
larm Attributes(163)	Attendant Type	Current Ring Mode	Saved Ring Mode	OND	EMAND RING MODE Value(1 ~ 100)
ttendant Assignment(164)	Attendant Type	current rang mode	Main Attendant		
Iulticast IP/Port(165)	Main Attendant	Day Ring Mode	Day Ring Mode	•	
ISA COS(166)		, ,	Fenancy Group Attendant		
ID/DISA Destination(167) xternal Control Contacts(168)	ICM Tenancy Group Attendant 1	Day Ring Mode	Day Ring Mode	•	
CD Display Mode(169)	ICM Tenancy Group Attendant 2	Day Ring Mode	Day Ring Mode		
ED Flashing Rates(170)		, ,			
lusic Sources(171)	ICM Tenancy Group Attendant 3	Day Ring Mode	Day Ring Mode		
BX Access Codes(172)	ICM Tenancy Group Attendant 4	Day Ring Mode	Day Ring Mode		
LP Priority(173)	ICM Tenancy Group Attendant 5	Day Ring Mode	Day Ring Mode	• _	
S-232 Port Settings(174)	ICM Tenancy Group Attendant 6	Day Ring Mode	Day Ring Mode	•	
erial Port Selections(175)	ICM Tenancy Group Attendant 7	Day Ring Mode	Day Ring Mode	•	
ulse Dial (Break/Make) Ratio(176)	ICM Tenancy Group Attendant 8	Day Ring Mode	Day Ring Mode	•	
MDR Attributes(177)	ICM Tenancy Group Attendant 9	Day Ring Mode	Day Ring Mode	•	
ystem Date & Time(178)	ICM Tenancy Group Attendant 10	Day Ring Mode	Day Ring Mode	•	
ystem Multi Language(179)	ICM Tenancy Group Attendant 11	Day Ring Mode	Day Ring Mode	•	
ystem Timers(180~182,186)	ICM Tenancy Group Attendant 12	Day Ring Mode	Day Ring Mode		
Room Indication(183)	ICM Tenancy Group Attendant 13	Day Ring Mode	Day Ring Mode		
/eb Access Authorization	ICM Tenancy Group Attendant 14	Day Ring Mode	Day Ring Mode		
tation Web Authorization					
TP Attributes(195)	ICM Tenancy Group Attendant 15	Day Ring Mode	Day Ring Mode		
NMP Attribute(196)	ICM Tenancy Group Attendant 16	Day Ring Mode	Day Ring Mode		
abinet Attribute(197)	ICM Tenancy Group Attendant 17	Day Ring Mode	Day Ring Mode	<u> </u>	
ot Desk Attributes(250)	ICM Tenancy Group Attendant 18	Day Ring Mode	Day Ring Mode	•	
ystem Call Routing(251)	ICM Tenancy Group Attendant 19	Day Ring Mode	Day Ring Mode	•	
O Call Rerouting(252)	ICM Tenancy Group Attendant 20	Day Ring Mode	Day Ring Mode	•	
M COS Attributes(253)	ICM Tenancy Group Attendant 21	Day Ring Mode	Day Ring Mode	•	
tatic Route Table(254)	ICM Tenancy Group Attendant 22	Day Ring Mode	Day Ring Mode	•	
ccess Control List(255) ttendant Ring Mode (257)	ICM Tenancy Group Attendant 23	Day Ring Mode	Day Ring Mode		

Figure 4.4.5.33-1 Attendant Ring Mode

Administrator assigns the ring mode to 1 Main attendant and 15 ICM Tenancy Group Attendant. Five ring modes are supported as Day, Night, Timed, Auto, On demand ring mode (eMG80: 1~15/ eMG800: 1~32/UCP: 1~100).

The Attendant controls the system Ring mode changing from Auto ring Mode to Day, Night, Timed or On demand ring mode. Based on the ring mode selected in the field of Saved Ring Mode, different ring assignments, COS (Class of Service) and answering privileges are invoked for the system users.

In case Main attendant select the other ring mode of Day ring mode in the field of Saved Ring Mode, ICM Tenancy group attendant controls the system ring mode instead of Main attendant. So Current Ring Mode and Saved Ring Mode of ICM Tenancy group attendant may be different.

4.4.5.34 System Speed Dial

Selecting System Speed Dial will display the System Speed Dial entry page. Enter a valid range of System Speed Dial numbers and click **[Load]** to enter Speed Dial data. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing Value.

The index range is flexible according to selecting 'Speed Numbering' in 'System ID (100)'. <u>Enter Index range</u>: eMG80: 2000-4999 / eMG800: 2000-9999 / UCP: 20000-31999

stem Attributes(160~161)		<	Favori	te PGM	Syster	n Speed Di	al <mark>×</mark>			
stem Password(162)				D (00)		Defeut		0000		
arm Attributes(163)		Ente	er Index	Range (200	00 - 31999)	: Default :	20000-2	0099	Load	
tendant Assignment(164)		Inde	ex Range	20000-200	99					
ulticast IP/Port(165)			Index	CO Type	CO Value	Dial Digit	Name			
SA COS(166)			20000	N/A 🔻						
D/DISA Destination(167)										
ternal Control Contacts(168)			20001	N/A 🔻						
D Display Mode(169)			20002	N/A 🔻						
D Flashing Rates(170)			20003	N/A ▼						
usic Sources(171)			20004	N/A 🔻						
3X Access Codes(172)			20005	N/A 🔻						
P Priority(173)			20006	N/A 🔻						
8-232 Port Settings(174)			20007	N/A 🔻						
erial Port Selections(175)			20008	N/A 🔻						
Ilse Dial (Break/Make) Ratio(176)			20009	N/A T						
MDR Attributes(177)										
stem Date & Time(178)			20010	N/A 🔻						
stem Multi Language(179)			20011	N/A 🔻						
stem Timers(180~182,186)			20012	N/A 🔻						
Room Indication(183)			20013	N/A 🔻						
eb Access Authorization			20014	N/A 🔻						
ation Web Authorization			20015	N/A 🔻						
P Attributes(195)			20016	N/A 🔻						
IMP Attribute(196)			20017	N/A T						
binet Attribute(197)										
t Desk Attributes(250)			20018							
stem Call Routing(251)			20019	N/A 🔻						
Call Rerouting(252)			20020	N/A 🔻						
/ COS Attributes(253)			20021	N/A 🔻						
atic Route Table(254)			20022	N/A 🔻						
cess Control List(255)			20023	N/A 🔻						
tendant Ring Mode (257)			20024	N/A 🔻						
stem Speed Dial	-		20025	NI/A =						

Figure 4.4.5.34-1 System Speed Dial List

The eMG80 (eMG800/UCP) has memory for 3000(8000/12,000) Speed Dial numbers of up to 25 digits each. Each System Speed bin (index) is assigned the CO/IP Line for the Speed Dial, the number to be dialed and a name for Dial-by-Name.

4.4.5.35 Custom Messages

Selecting Custom Messages will display the Custom Message Table data entry page. Click **[Save]** button after changing Value.

System Attributes(160~161)	< Favorit	e PGM Custom M	essages X C	
System Password(162)				
larm Attributes(163)				
ttendant Assignment(164)	Index	Message	Range	
Iulticast IP/Port(165)	11		Max 24 Characters	
ISA COS(166)	12		Max 24 Characters	
ID/DISA Destination(167)	13		Max 24 Characters	
xternal Control Contacts(168)	14		Max 24 Characters	
CD Display Mode(169)	15		Max 24 Characters	
ED Flashing Rates(170)	16		Max 24 Characters	
lusic Sources(171)	17		Max 24 Characters	
BX Access Codes(172)	18		Max 24 Characters	
LP Priority(173)	19		Max 24 Characters	
S-232 Port Settings(174)	20		Max 24 Characters	
erial Port Selections(175)				
ulse Dial (Break/Make)				
atio(176)				
MDR Attributes(177)				
ystem Date & Time(178)				
ystem Multi Language(179)				
ystem Timers(180~182,186)				
Room Indication(183)				
/eb Access Authorization				
tation Web Authorization				
TP Attributes(195)				
NMP Attribute(196)				
abinet Attribute(197)				
ot Desk Attributes(250)				
ystem Call Routing(251)				
O Call Rerouting(252)				
M COS Attributes(253)				
tatic Route Table(254)				
ccess Control List(255)				
ttendant Ring Mode (257)				
ystem Speed Dial				
ustom Messages				

Figure 4.4.5.35-1 Custom Message

The system's 10 Custom messages can be defined with up to 24 characters each.

4.4.5.36 PPTP Attributes

Selecting PPTP Attributes will display the PPTP Attributes Table data entry page. Click **[Save]** button after changing Value.

tem Data 🗸 🗸	< Fav	vorite PGM PPTP	Attributes ×		
stem Attributes(160~161)			v		
stem Password(162)					
arm Attributes(163)	Order 12	8.44-11	14-1	Press	
tendant Assignment(164)	Order <u>1</u> a	Attribute PPTP Usage	Value	Range	
Iticast IP/Port(165)	2	PPTP Server IP Address	UFF •	IP Address	
SA COS(166)	3	PPTP ID		Max 24 Chars	
/DISA Destination(167)					
ernal Control Contacts(168)	4	PPTP Password		Max 24 Chars	
Display Mode(169)	5	PPTP Service CLI		Max 23 Digits	
D Flashing Rates(170)					
sic Sources(171)					
X Access Codes(172)					
P Priority(173)					
-232 Port Settings(174)					
rial Port Selections(175)					
se Dial (Break/Make) Ratio(176)					
DR Attributes(177)					
tem Date & Time(178)					
em Multi Language(179)					
tem Timers(180~182,186)					
oom Indication(183)					
b Access Authorization					
ion Web Authorization					
Attributes(195)					
P Attribute(196)					
Desk Attributes(250)					
em Call Routing(251)					
Call Rerouting(252)					
COS Attributes(253)					
ic Route Table(254)					
ess Control List(255)					
ndant Ring Mode (257)					
tem Speed Dial					
tom Messages					
P Attributes					

Figure 4.4.5.36-1 PPTP Attributes

When required, the system supports Point to Point Tunneling Protocol (PPTP). PPTP must be enabled and values for the PPTP server IP address, Id and password must be entered and a server name may be entered.

4.4.5.37 PPP Attributes for eMG – PGM 205

Selecting PPP Attributes will display the PPP Attributes data entry page. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

vstem Data V	< Fav	orite PGM	PPP Attributes(2	× 0		
System Attributes(160~161)				~		
System Password(162)						
larm Attributes(163)	Order ↓ª	Obash All	Attribute	Value	Range	
Attendant Assignment(164)	1	Check All	User ID 1	value	Max 12 Characters	
/lulticast IP/Port(165)				*****		
DISA COS(166)	2		User Password 1		Max 12 Characters	
DID/DISA Destination(167)	3		User ID 2	*****	Max 12 Characters	
external Control Contacts(168)	4		User Password 2		Max 12 Characters	
CD Display Mode(169)	5		PPP SERVER IP Addr	10.0.0.3		
ED Flashing Rates(170)	6		PPP CLIENT IP Addr	10.0.0.2		
lusic Sources(171)						
BX Access Codes(172)						
LP Priority(173)						
S-232 Port Settings(174)						
erial Port Selections(175)						
ulse Dial (Break/Make) Ratio(176)						
MDR Attributes(177)						
ystem Date & Time(178)						
ystem Multi Language(179)						
vstem Timers(180~182,186)						
Room Indication(183)						
eb Access Authorization						
tation Web Authorization						
TP Attributes(195)						
NMP Attribute(196)						
ot Desk Attributes(250)						
ystem Call Routing(251)						
O Call Rerouting(252)						
M COS Attributes(253)						
tatic Route Table(254)						
ccess Control List(255)						
ttendant Ring Mode (257)						
ystem Speed Dial						
ustom Messages						
PTP Attributes						
PP Attributes(205)						

Figure 4.4.5.37-1 PPP Attributes

In addition to remote access via an IP network connection, the system database may be accessed remotely via an ISDN connection. Placing a call over an ISDN Line to the designated PPP Station will provide a connection to the system database. The system will request a user id and password, which must match one of the User Ids and passwords assigned. After a matching id and password are received, the iPECS Login Home page is provided.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
User ID 1	The System accepts this PPP ID 1 as valid.	Max. 12 characters	likppp01
User Password 1	The password entered is used to authorize PPP ID 1.	Max. 12 characters	lpkts01
User ID 2	The System accepts this PPP ID 2 as valid.	Max. 12 characters	likppp02
User Password 2	The password entered is used to authorize PPP ID 2.	Max. 12 characters	lpkts02
PPP Server IP	When configured, the PPP Server IP Address must match	IP Address	
Addr	this entry. To apply this option the system must be restarted.	IP Address	
PPP Client IP Addr	When configured, the PPP Client IP Address must match	IP Address	
	this entry. To apply this option the system must be restarted.		

Table 4.4.5.37-1 PPP ATTRIBUTES

4.4.6 Station Group Data

Selecting the Station Group Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

PGM Base Function Base	< Favorite PGM			×
Q PGM Search				Edit
System ID & Numbering Plans	System Overview System ID & Numberin	System IP Plan(102) System ID & Numberin	Device IP Plan(103) System ID & Numberin	Common Attributes(1 Station Data
Station Data				
Board Based Data	Flexible Buttons(115/ Station Data	Common Attributes(1 CO Line Data	CO/IP Ring Assignm CO Line Data	CID/CPN Attributes(151) CO Line Data
CO Line Data				
System Data	System Attributes(16 System Data	System Password(162) System Data	Station Group Assign Station Group Data	Station Group Attribu Station Group Data
Station Group Data v				
Station Group Overview	Station Authorization Tables Data	System Authorization Tables Data	Flexible DID Conversi Tables Data	
Station Group Assignment(190) Station Group Attributes(191)				
< Pick-Up Group Overview				
Pick-Up Group(192)				
Personal Group Overview				
Personal Group(260)				
Personal Group Attributes(261)				
ISDN Line Data				
SIP Data				
Tables Data				
Networking Data				
H.323 Routing Table				
T-NET Data				

Figure 4.4.6-1 Station Group Data

Stations can be grouped so that incoming calls will search (Station) for an idle station in the group. The system allows assignment of three Station processes, Circular, Terminal and ACD. In addition, there are eight (8) functional groups available: ACD (Automatic Call Distribution) based on ACD station, Ring, Call Pick-Up, External Voice Mail (SLT connected), VSF-Voice Mail, iPECS Feature Server Voice Mail and Network Voice Mail, and UCS Groups.

Certain types of groups can incorporate announcements, which are given to the calling party. The system's VSF can store up to two hundreds (200) announcements for use with Station Groups.

Note that a station can belong to multiple groups if the groups are all of the same type. Also note that when a station group is assigned to a group type (Circular, Terminal, ACD, VM, FS VM, VSF-VM, Net VM, UCS and Ring), the group attributes are initialized to the default values.

4.4.6.1 Station Group Overview

Selecting the Station Group Overview item will return the Station Group Overview page. This page displays the Station Group attributes (type, pick-up attribute, Member list, and Group name) for all the Station Groups.

M Base Function Base	< Favorite PGM	Stat	ion Group O <mark>×</mark>	
M Search O	Group Number <u>↓</u> ª	Type <u>↓</u> a	Pickup Attribute Member List Group Name	
	*401	Circular	OFF	Go to Assignment
m ID & Numbering Plans	*402	ACD	OFF	Go to Assignment
n Data	*403	Ring	OFF	Go to Assignment
Based Data	*404	Voice Mail	OFF	Go to Assignment
	*405	Pick-Up	ON	Go to Assignment
e Data	*406	VSF-VM	OFF	Go to Assignment
Data	*407	UMS-VM	OFF	Go to Assignment
Group Data 🗸 🗸	*408	UCS	OFF	Go to Assignment
	*409	N/A	OFF	Go to Assignment
Group Overview	*410	N/A	OFF	Go to Assignment
Group Assignment(190) Group Attributes(191)	*411	N/A	OFF	Go to Assignment
Group Overview	*412	N/A	OFF	Go to Assignment
oup(192)	*413	N/A	OFF	Go to Assignment
Group Overview	*414	N/A	OFF	Go to Assignment
al Group(260)	*415	N/A	OFF	Go to Assignment
al Group Attributes(261)	*416	N/A	OFF	Go to Assignment
e Data	*417	N/A	OFF	Go to Assignment
	*418	N/A	OFF	Go to Assignment
	*419	N/A	OFF	Go to Assignment
a	*420	N/A	OFF	Go to Assignment
Data	*421	N/A	OFF	Go to Assignment
ing Table	*422	N/A	OFF	Go to Assignment
	*423	N/A	OFF	Go to Assignment
I	*424	N/A	OFF	Go to Assignment
	*425	N/A	OFF	Go to Assignment
	*426	N/A	OFF	Go to Assignment

Figure 4.4.6.1-1 Station Group Overview

All information of each group will be displayed and changed the assignment on this page.

Each Group can be assigned Type, Pickup attributes, Member list, and Group name by clicking "Go to Assignment" on this page. Station Group Assignment (190) will be displayed and directly go to Station Group Attributes (191) of the group by clicking "Go to Attributes".

4.4.6.2 Station Group Assignment - PGM 190

Selecting Station Group Assignment will display the Station Group data entry page. Enter the desired Station Group number and click **[Load]** to display the Group Assignment.

PGM Base Function Base	< Favorite PGM Station Group A×	×
Q PGM Search O	Enter Group Number : Load	
System ID & Numbering Plans	Group Number *401	
Station Data	Group Type : Circular	
Board Based Data	Pick-up Attribute : OFF ▼ Save Group Type Go to Attributes	
CO Line Data	Add/Delete Group Member	
	Station Range - O Add O Del Save]
System Data	Add Station Number + Save]
Station Group Data V	Unselect All Station Number	
Station Group Overview	Save / Delete	
Station Group Assignment(190)		
Station Group Attributes(191)		
Pick-Up Group Overview		
Pick-Up Group(192)		
Personal Group Overview		
Personal Group(260)		
Personal Group Attributes(261)		

Figure 4.4.6.2-1 Station Group Assignments

Under Station Group Assignments the type, members and Pick-Up attributes are assigned to the Station Group. Note for the Net VM group, the network number must be assigned as the Net VM group member station.

ATTRIBUTE	- DESCRIPTION	RANGE	DEFAULT
Group Type	Defines the type of station group.	N/A, Circular, Terminal, ACD, Ring, Voice Mail, Pick-Up, VSF-VM, UMS VM, NET VM, UCS	N/A
Pick-up Attribute	Stations can pick-up group calls ringing at other stations in the group. This does not apply to the VM groups.	OFF ON	OFF
Member	Assigns stations as members of a station group or, for the Net VM group type, defines the Net Number of the group.		-

Table 4.4.6.2-1 STATION GROUP ASSIGNMENT

4.4.6.3 Station Group Attributes - PGM 191

Selecting Station Group Attributes will display the Station Group Attributes data entry page. Enter the Station Group number and click **[Load]**, the Web page for the selected group will be displayed as in Figure 4.4.6.3-1 to Figure 4.4.6.3-8 based on the Group type.

Each type of group has a different set of available attributes relating to announcements, timers, overflow, etc. Table 4.4.6.3-1 through Table 4.4.6.3-8 provides descriptions for the attributes and data entries required. Note that the attributes for the Circular and Terminal Station groups are given in Table 4.4.6.3-1 and the UCD attributes include the ACD functions Table 4.4.6.3-2.

PGM Base Function Base	<	Favorite PGM Station G	roup Attrib×		
Q PGM Search Enter Group Number : Load					
System ID & Numbering Plans Group Number *401 Group Type : Circular					
Station Data		Attribute : OFF			
Board Based Data	Order	Attribute	Value	Range	
CO Line Data	1	VSF Announce 1 Timer	15	000 - 999 (sec)	
CO Line Data	2	Guar-Annc (Timer 0) Wait If Busy	ON V		
System Data	3	VSF Announce 2 Timer	0	000 - 999 (sec)	
Station Group Data V	4	VSF Announce 1 Location	0	0 - 200 (0 : Unused)	
Station Group Data V	5	VSF Announce 1 Auto Drop			
Station Group Overview	6	VSF Announce 2 Location	0	0 - 200 (0 : Unused)	
, Station Group Assignment(190)	7	VSF Announce 2 Auto Drop			
Station Group Attributes(191)	8	VSF Announce 2 Repeat Timer	0	000 - 999 (sec)	
Pick-Up Group Overview	9	VSF Announce 2 Repeat	OFF T		
Pick-Up Group(192)			STA/NET or Station Group	Station or Group Number	
Personal Group Overview	10	Overflow Destination		Drop 🔲 1 - 200	
Personal Group(260)			System Speed	System Speed	
Personal Group Attributes(261)	11	Overflow Timer	180	000 - 600 (sec)	
ISDN Line Data	12	Wrap-Up Timer	2	000 - 999 (sec)	
ISDN Line Data		No Answer Timer		× 7	
SIP Data	13		15	00 - 99 (sec)	
Tables Data	14	Pilot Station Group Report No Member	ON V		
Tables Edld	15	Report No Member Music Source	Internal Music V		
Networking Data	17	Allow Member Forward		OFF : Ignore Forward	
H.323 Routing Table	18	Mailbox Message Wait Station		Station Number	
	19	Mailbox Password		Max 12 Digits	
T-NET Data			STA/NET or Station Group	Station or Group Number	
Zone Data	20	Forced Forward Destination	VSF Announcement 0	1 - 200	
Device Login	-		System Speed	System Speed	

Figure 4.4.6.3-1 Terminal & Circular Group Attributes

Table 4.4.6.3-1 TERMINAL	& CIRCUL	AR GROUP	ATTRIBUTES

ATTRIBUTE	- DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Timer	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds the VSF Announce 1 timer, the call is sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the station process (guaranteed announcement).	000~999 (seconds)	015
Guar-Annc(Timer 0) Wait If Busy	When a call assigned to receive a guaranteed announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement (OFF).	OFF ON	ON

ATTRIBUTE	- DESCRIPTION	RANGE	DEFAULT
VSF Announce 2 Timer	After the 1st announcement, the 2nd ANNC TMR is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000~999 (seconds)	000
VSF Announce 1 Location	The Station Group can be assigned an announcement, which is played if the call remains queued beyond the VSF Announce 1 Timer duration. The announcement location is the VSF Announcement number. An entry of 00 indicates no announcement.	00~200	00: none
VSF Announce 1 Auto	If this attribute is selected, the call will drop after the 1st VSF announcement.	Check box	
Drop VSF Announce 2 Location	The Station Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the VSF Announce 2 Timer duration. The announcement location is the VSF Announcement number. An entry of 00 indicates no announcement.	00~200	00: none
VSF Announce 2 Auto Drop	If this attribute is selected, the call will drop after the 2nd VSF announcement.	Check box	
VSF Announce 2 Repeat Timer	The 2nd announcement can be repeated to callers that remain in queue at intervals of the Announcement 2 Repeat Timer. Note VSF Announce 2 Repeat below must be "ON".	000~999 (seconds)	000
VSF Announce 2 Repeat	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the Announce 2 Repeat Timer interval, defined above.	OFF ON	OFF
Overflow Destination	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or route to the assigned overflow destination. If VSF Announcement is selected, Auto Drop can be checked.	STA/NET or Station Group/ VSF Announcement/ Auto Drop/ System SPD	
Overflow Timer	A call to the group will remain at the last station in the group or can be sent to the assigned Overflow Destination after expiration of the Overflow Timer.	000~600 (seconds)	180
Wrap-Up Timer	After terminating a group call, a Group member will be maintained in a busy state for the duration of the Wrap- Up timer.	000~999 (seconds)	002
No Answer Timer	Calls to a station in the group are directed to the station, if unavailable or unanswered in the No Answer Timer, the call can be routed based on the assigned hunt process.	00~99 (seconds)	15
Pilot Station Group	A circular/terminal Station group can be set so that only calls to the pilot number (station group number) will hunt.	OFF ON	ON
REPT No Member	If a call is received and no members are on-duty, an ICM call will return re-order tone, while a CO/IP call will be routed to the overflow destination.	OFF ON	OFF
Music Source	A Music source can be assigned so that calls to the group will receive audio from the assigned source in	Ring back tone/ Internal Music/	Internal Music

ATTRIBUTE	- DESCRIPTION	RANGE	DEFAULT
	place of ring-back tone.	External Music/ VSF MOH/ SLT MOH1~5/ VSF MOH2~3	
Allow Forward Member	A member activating Call forward may be placed in an unavailable state for Station group calls (ON). When OFF, group calls are sent to the member as normal (OFF).	OFF ON	ON
Mailbox Message Wait Station	When a call overflows or routes to the VM group, a station number is used to identify the Mailbox for the group messages.	Station Number	
Mailbox Password	The password associated with a group Mailbox is defined here. The password is used in conjunction with the group Mailbox as with a normal station.	Max. 12 digits	
Forced Forward Destination	Calls to a Station group may forward directly to a defined destination, bypassing the hunt process. "Forced Forward", below, must be enabled.	STA./NET or Station group/ VSF Announcement/ Sys. Speed	
Forced Forward Destination Usage	Calls to a Station group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF
Group Name	A name can be designated for the group.	Max. 12 characters	
Maximum Queued Call Counter	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF Announcement 1, if assigned, is played.	00-99	99

Table 4.4.6.3-1 TERMINAL & CIRCULAR GROUP ATTRIBUTES

iPECS eMG80 & eMG800 & UCP Administration and Programming Manual

PGM Base Function Base	<	Favorite PGM Station Gro	up Attrib <mark>X</mark>	
PGM Search	D Enter C	Group Number :	Load	Save
System ID & Numbering Plans	Group	Number *402 Type : ACD		
Station Data	Pick-up	Attribute : OFF		
Board Based Data	Order	Attribute	Value	Range
	1	VSF Announce 1 Timer	15	000 - 999 (sec)
CO Line Data	2	Guar-Annc (Timer 0) Wait If Busy	ON V	
System Data	3	VSF Announce 2 Timer	0	000 - 999 (sec)
Nation Ocean Data	4	VSF Announce 1 Location	0	0 - 200 (0 : Unused)
Station Group Data	5	VSF Announce 1 Auto Drop		
Station Group Overview	6	VSF Announce 2 Location	0	0 - 200 (0 : Unused)
Station Group Assignment(190)	7	VSF Announce 2 Auto Drop		
Station Group Attributes(191)	8	VSF Announce 2 Repeat Timer	0	000 - 999 (sec)
Pick-Up Group Overview	9	VSF Announce 2 Repeat		
Pick-Up Group(192)			STA/NET or Station Group	Station or Group Number
Personal Group Overview	10	Overflow Destination		Drop 🔲 1 - 200
Personal Group(260)			System Speed	System Speed
Personal Group Attributes(261)	11	Overflow Timer	180	000 - 600 (sec)
SDN Line Data	12	Wrap-Up Timer	2	000 - 999 (sec)
SUN Line Data		No Answer Timer		
SIP Data	13		0	00 - 99 (sec)
Tables Data	14	Report No Member		
i ables Data	15	Music Source ACD Warning Tone	OFF T	
Networking Data	16	ACD warning Tone		Station or Group Number
H.323 Routing Table	17	Alternate Destination	STA/NET or Station Group	
1.525 Nouting Table			SYS SPD	System Speed
I-NET Data	18	Supervisor Timer	30	000 - 999 (sec)
Zone Data	19	Supervisor Call Count	0	00 - 99
Lone Data	20	Max Queued Call Counter	99	00 - 99
Device Login	▼ 21	Supervisor 1		Station Number

Figure 4.4.6.3-2 ACD Group Attributes

Table 4.4.6.3-2 ACD GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Timer	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds the VSF Announce 1 Timer, the call is sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
Guar-Annc (Timer 0) Wait If Busy	When a call assigned to receive a guaranteed announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement. (OFF)	OFF ON	ON
VSF Announce 2 Timer	After the 1st announcement, a 2nd timer is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000~999 (seconds)	000
VSF Announce 1 Location	Each Station Group can be assigned an announcement, which is played if the call remains queued beyond the VSF Announce 1 Timer duration. The announcement location is a VSF announcement number. An entry of 00 indicates no announcement.	00~200	00: none

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Auto Drop	If this attribute is selected, the call will drop after the 1st VSF announcement		
VSF Announce 2 Location	The Station Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the VSF Announce 2 Timer duration. The announcement location is a VSF announcement number. An entry of 00 indicates no announcement.	00~200	00: none
VSF Announce 2 Auto Drop	If this attribute is selected, the call will drop after the 2nd VSF announcement		
VSF Announce 2 Repeat Timer	The 2nd announcement can be repeated to calls that remain in queue at intervals of the VSF Announce 2 Repeat Timer. Note repeating must be "ON" under VSF Announce 2 Repeat below.	000~999 (seconds)	000
VSF Announce 2 Repeat	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the VSF Announce 2 Repeat Timer interval.	OFF ON	OFF
Overflow Destination	A call to the group will continue to route through the group until answered or all group members have been tried. The call will queue to the group or route to the assigned Overflow Destination. If VSF Announce is assigned, Auto Drop is available.	STA/NET or Station Group/ VSF Announcement/ Auto Drop/ System SPD	
Overflow Timer	A call to a group will remain queued to the group or be sent to the assigned Overflow Destination after expiration of the Overflow Timer	000~600 (seconds)	180
Wrap-Up Timer	After terminating a group call, a Station Group member will be maintained in a busy state for the duration of the Wrap-Up timer.	000~999 (seconds)	002
ACD No Answer Timer	Calls to an agent in the group are directed to the station, if unanswered in the NO ANSWER TIMER, the call can be routed another agent	00-99 (seconds)	00
REPT No Member	If a call is received and no members are on-duty, an ICM call will return re-order tone, while a CO/IP call will be routed to the overflow destination.	OFF ON	OFF
Music Source	A Music source can be assigned so that calls to the group will receive audio from the assigned source in place of ring-back tone while in queue.	Ring back tone/ Internal Music/ External Music/ VSF MOH/ SLT MOH1~5/ VSF MOH2~3	Internal Music
ACD Warning Tone	An ACD supervisor can monitor agent conversations. A warning tone can be provided to the agent and connected party when the supervisor activates the monitor feature.	OFF ON	OFF
Alternate Destination	When a call comes into the group and there are no group members available, the call will be routed to the assigned Alternate Destination.	STA/NET or Station Group, System SPD	

Table 4.4.6.3-2 ACD GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Supervisor Timer	When calls have been in queue longer than the Supervisor Timer, the ACD supervisor is notified by a display of the longest queue time.	000~999 (seconds)	030
Supervisor Call Count	When the number of calls in queue exceeds the Supervisor Call Count, the ACD Supervisor is notified by a display of queued calls.	00~99	00
Maximum Queued Call Counter	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF Announcement 1, if assigned, is played.	00-99	99
Supervisor 1 to 5	Any valid iPECS IP or LDP Phone with display can be assigned as a Supervisor, max. 5 ACD Supervisors.	Station	
ACD DND Wrap Timer	This parameter sets the duration a station will receive ring before the system places the station in ACD DND and unavailable for group calls. A setting of '00' disables automatic ACD DND.	002~200 (Sec.)	010
Entered Caller ID ICLID Usage	Within 5 seconds of a guaranteed announcement, the caller may dial digits as an ICLID. The user-dialed digits are compared to the ICLID Table entries, for routing or, for a single dialed digit, to the ACD CCR table below.	OFF ON	OFF
Forward Member Calls	A member activating Call Forward may be placed in an unavailable state for Station group calls (ON). When OFF, group calls are sent to the member as normal.	OFF : no FWD ON : FWD	ON
Group Name	An ACD group name can be designated.	Max. 12 characters	
CIQ Route 1			
CIQ Route 2	When an ACD call is queued, the caller may be allowed		
CIQ Route 3	to dial a digit to exit the queue and route to another destination. The alternate destination is based on the		
CIQ Route 4	user-dialed digit and can be a station, Station group,		
CIQ Route 5	system-speed bin, or network station. Dial the digit		
CIQ Route 6	below for the type of destination and enter the value associated with the destination.		Not selected
CIQ Route 7	1: Enter a station number.		
CIQ Route 8	2: Enter a Station group number.		
CIQ Route 9	3: Enter a system speed bin.		
CIQ Route 0	4: Enter a network station number		
ZAP Tone	Agents using a headset can have ACD calls connected to them automatically preceded by a tone (Zap tone).	OFF ON	OFF
CIQ Announcement	If enabled, queued callers receive the CIQ message (You are # in queue) after the 1 st and 2 nd announcement.	OFF ON	OFF
Mailbox Message Wait Station	When an ACD call overflows or routes to the VM group, a station number is used to identify the Mailbox for the ACD group messages	Station number	
Mailbox Password	The password associated with an ACD group Mailbox is defined here. The password is used in conjunction with the ACD group Mailbox as with a normal station.	Max. 12 digits	

Table 4.4.6.3-2 ACD GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CIQ Display To Agent - Mode	When an ACD call is in queue, the Call in queue information is displayed in the LCD of agent and supervisor phones.	OFF ON	OFF
CIQ #1 Page Alert - Threshold	If the queued call count exceeds the threshold, the system plays the CIQ #1 Announcement to the CIQ #1 Page Zone after the CIQ #1 Announcement Delay Timer. The announcement is repeated at intervals of the CIQ #1 Announcement Repeat Timer.	00-99	10
CIQ #1 Page Alert – Announcement Location	VSF announcement number for the CIQ #1 Announcement.	00-200	0
CIQ #1 Page Alert – Page Zone	Page Zone to receive CIQ #1 Announcement.	eMG80:00~15 or 00-40/ eMG800:0~105/ UCP:0~105	00
CIQ #1 Page Alert - Delay Time	Delay timer for CIQ #1 Announcement	000-180	015
CIQ #1 Page Alert - Repeat Time	Interval for repeating the CIQ #1 Announcement.	000-180	045
CIQ #2 Page Alert - Threshold	If the queued call count exceeds the threshold, the system plays the CIQ #2 Announcement to the CIQ #2 Page Zone after the CIQ #2 Announcement Delay Timer. The announcement is repeated at intervals of the CIQ #2 Announcement Repeat Timer.	00-99	20
CIQ #2 Page Alert - Announcement Location	VSF announcement number for the CIQ #2 Announcement.	00-200	0
CIQ #2 Page Alert – Page Zone	Page Zone to receive CIQ #2 Announcement.	eMG80:00~15 or 00-40/ eMG800:0~105/ UCP:0~105	00
CIQ #2 Page Alert - Delay Time	Delay timer for CIQ #2 Announcement	000-180	015
CIQ #2 Page Alert - Repeat Time	Interval for repeating the CIQ #2 Announcement.	000-180	025
CIQ #3 Page Alert - Threshold	If the queued call count exceeds the threshold, the system plays the CIQ #3 Announcement to the CIQ #3 Page Zone after the CIQ #3 Announcement Delay Timer. The announcement is repeated at intervals of the CIQ #3 Announcement Repeat Timer.	00-99	30
CIQ #3 Page Alert - Announcement Location	VSF announcement number for the CIQ #3 Announcement.	00-200	0
CIQ #3 Page Alert - Page Zone	Page Zone to receive the CIQ #3 Announcement.	eMG80:00~15 or 00-40/ eMG800:0~105 UCP:0~105	00
CIQ #3 Page Alert - Delay Time	Delay timer for the CIQ #3 Announcement	000-180	015

Table 4.4.6.3-2 ACD GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CIQ #3 Page Alert - Repeat Time	Interval for repeating the CIQ #3 Announcement.	000-180	005
Forced Forward Destination	Calls to a Station group may forward directly to a defined destination, by passing the hunt process. "Forced Forward", below, must be enabled.	STA./NET or Station group, VSF Announcement, Sys. Speed	
Forced Forward Dest Usage	Calls to a Station group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF
Auto Ring Mode	Reference table of Auto Ring Mode Table Time for ACD Group Ring Mode. When Manual Change is selected, the Group supervisor can change the ACD group ring mode manually with ACD Group Ring Mode flexible number.	Manual Change/ eMG: Table 0 ~ 15 UCP: Table 0 ~ 100	Manual Change
Day Destination	When the ACD Ring Mode Table schedule is in the Day mode, ACD group calls route to the destination defined here.	Normal Service, STA/NET or Station group, VSF Announcement, Sys. Speed	Normal Service
Night Destination	When the ACD Ring Mode Table schedule is in the Night mode, ACD group calls route to the destination defined here.	Normal Service, STA/NET or Station group, VSF Announcement, Sys. Speed	Normal Service
Timed Destination	When the ACD Ring Mode Table schedule is in the Timed mode, ACD group calls route to the destination defined here.	Normal Service, STA/NET or Station group, VSF Announcement, Sys. Speed	Normal Service
ACD Group Queuing Call Indication	If there are queued group calls, the queuing indication can be served to group members by Mute Ring and LED button flashing.	OFF ON (RING and LED) ON (LED only)	OFF

Table 4.4.6.3-2 ACD GROUP ATTRIBUTES

iPECS eMG80 & eMG800 & UCP Administration and Programming Manual

PGM Base Function Base	<	Favorite PGM Station G	iroup Attrib×		
GM Search C Enter Group Number : Load					
ystem ID & Numbering Plans		Number *403 Type : Ring			
tation Data	Pick-u	Attribute : OFF			
oard Based Data	Order	Attribute	Value	Range	
	1	VSF Announce 1 Timer	15	000 - 999 (sec)	
O Line Data	2	Guar-Annc (Timer 0) Wait If Busy	ON T		
/stem Data	3	VSF Announce 2 Timer	0	000 - 999 (sec)	
Station Group Data ~	4	VSF Announce 1 Location	0	0 - 200 (0 : Unused)	
	5	VSF Announce 1 Auto Drop			
Station Group Overview	6	VSF Announce 2 Location	0	0 - 200 (0 : Unused)	
Station Group Assignment(190)	7	VSF Announce 2 Auto Drop			
Station Group Attributes(191)	8	VSF Announce 2 Repeat Timer	0	000 - 999 (sec)	
Pick-Up Group Overview	9	VSF Announce 2 Repeat	OFF V		
Pick-Up Group(192)		STA/NET or Station Group		Station or Group Number	
Personal Group Overview	10	Overflow Destination	VSF Announcement 0 Auto Drop	1 - 200	
Personal Group(260)			System Speed	System Speed	
Personal Group Attributes(261)	11	Overflow Timer	180	000 - 600 (sec)	
DN Line Data	12	Wrap-Up Timer	2	000 - 999 (sec)	
	13	Music Source	Internal Music V	\ /	
P Data	14	Max Queued Call Counter	99	00 - 99	
bles Data	15	Allow Member Forward	ON V	OFF : Ignore Forward	
	16	Group Name		Max 12 Characters	
tworking Data	17	Mailbox Message Wait Station		Station Number	
323 Routing Table	18	Mailbox Password		Max 12 Digits	
NET Data		STA/NET or Station Group		Station or Group Number	
	19	19 Forced Forward Destination	VSF Announcement 0	1 - 200	
ne Data			System Speed	System Speed	

Figure 4.4.6.3-3 Ring Group Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Timer	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available station. If the queue period exceeds the VSF Announce 1 Timer, the call is sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the hunt process (guaranteed announcement).	000~999 (seconds)	015
Guar-Ann(Timer 0) Wait If Busy	When a call assigned to receive a guaranteed announcement arrives and all channels are busy, the call may wait with Ring back until a channel is available (ON) or bypass the announcement. (OFF)	OFF ON	ON
VSF Announce 2 Timer	After the 1st announcement, a 2nd announcement Timer is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned 2nd VSF announcement.	000~999 (seconds)	000
VSF Announce 1 Location	Each Ring Group can be assigned an announcement, which is played if the call remains queued beyond the VSF Announce 1 Timer duration. The announcement location is a VSF Announcement number. An entry of 00 indicates no announcement.	00~200	00: none

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Auto Drop	If this attribute is selected, the call will drop after the 1st VSF announcement.	Check box	
VSF Announce 2 Location	The Ring Group can be assigned a 2nd announcement, which is played if the call remains queued beyond the VSF Announce 2 Timer duration. The announcement location is a VSF Announcement number. An entry of 00 indicates no announcement.	00~200	00: none
VSF announce Auto Drop	If this attribute is selected, the call will drop after the 2nd VSF announcement	Check box	
VSF Announce 2 Repeat Timer	The 2nd announcement can be repeated to calls that remain in queue at intervals of the VSF Announce 2 Repeat Timer. Note VSF Announce 2 Repeat below must be "ON".	000~999 (seconds)	000
VSF Announce 2 Repeat	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the VSF Announce 2 Repeat Timer interval, defined above.	OFF ON	OFF
Overflow Destination	A call to the group will continue to ring group member stations until answered. The call will remain at the last station or routes to the assigned Overflow Destination. If VSF Announce is assigned, Auto Drop is available.	STA/NET or Station Group, VSF Announcement, Auto Drop, System SPD	
Overflow Timer	A call to a group will remain in the group or route to the assigned Overflow Destination after expiration of the Overflow Timer.	000~600 (seconds)	180
Wrap-Up Timer	After terminating group call, a Station Group member will be maintained in a busy state for the duration of the Wrap- Up Timer.	000~999 (seconds)	002
Music Source	A Music source can be assigned so that calls to the group will receive audio from the assigned source in place of ring-back tone.	Ring back tone/ Internal Music/ External Music/ VSF MOH/ SLT MOH1~5/ VSF MOH2~3	Internal Music
Maximum Queued Call Counter	When the number of calls queued to the group match this parameter, new calls will receive error tone and be disconnected after the VSF AA announcement, if assigned, is played.	00-99	99
Allow Forward Member	A member activating Call Forward may be placed in an unavailable state for Station group calls (ON). When OFF, group calls are sent to the member as normal.	OFF : no FWD ON : FWD	ON
Group name	A group name can be designated.	Max.12 characters	
Mailbox Message Wait Station	When a call overflows or routes to the VM group, a station number is used to identify the Mailbox for the group messages.	Station number	
Mailbox Password	The password associated with the group Mailbox is defined here. The password is used in conjunction with the group Mailbox as with a normal station.	Max. 12 digits	
Forced Forward	Calls to a Station group may forward directly to a defined	STA/NET or Station	

Table 4.4.6.3-3 RING GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Destination	destination, bypassing the hunt process. "Forced Forward", below, must be enabled.	group, VSF Announcement, Sys. Speed	
Forced Forward Dest Usage	Calls to a Station group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF
Ring group indication	When a station calls a Ring Group, DSS/BLF buttons assigned for the calling station will flash and muted ring is received.	OFF, Mute, Burst	Mute

PGM Base Function Base	< Fa	avorite PGM Station	n Group Attri ×		
Q PGM Search	Enter Gro	oup Number :	Load		
System ID & Numbering Plans	Group Ty	mber *404 pe : Voice Mail			
Station Data	Pick-up A	Attribute : OFF			
Board Based Data	Order	Attribute	Value		Range
CO Line Data	1 1	Wrap-Up Timer	2		000 - 999 (sec)
CO Line Data	2	Put Mail Index	1 •		
System Data	3 (Get Mail Index	2 🔻		
Station Group Data	4	Station Group Type	Terminal •		
Station Group Data V	5	Overflow Timer	180		000 - 600 (sec)
Station Group Overview			STA/NET or Station Group		Station or Group Number
Station Group Assignment(190)	6	Overflow Destination	VSF Announcement 0 0 Aut	to Drop 🔲	1 - 200
Station Group Attributes(191)			System Speed		System Speed
Pick-Up Group Overview			STA/NET or Station Group		Station or Group Number
Pick-Up Group(192)	7	Forced Forward Destination	VSF Announcement 0		1 - 200
Personal Group Overview			System Speed		System Speed
Personal Group(260)	8	Forced Forward Dest Usage	OFF T		oyotom opoda
Personal Group Attributes(261)		Group Name			Max 12 Characters
		Server Type	3rd-PARTY TYPE ▼		max 12 Ghardelets
ISDN Line Data		Server Type Server Number			0 - 10
SIP Data					
	12	Member Type	SLT TYPE Capacity (SIP TYPE Only)		0 - 2400

Table 4.4.6.3-3 RING GROUP ATTRIBUTES

Figure 4.4.6.3-4 External Voice Mail Group Attributes

Table	Table 4.4.6.3-4 EXTERNAL VOICE MAIL GROUP ATTRIBUTES	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Wrap-Up Timer	After terminating a group call, the VM port will be maintained in a busy state for the duration of the Wrap-Up timer.	000~900 (seconds)	002
Put Mail Index	For external analog Voice Mail groups, an index to the Voice Mail Dial Table that contains the "Put Mail" dial code.	1~4	1
Get Mail Index	For external analog Voice Mail groups, an index to the Voice Mail Dial Table that contains the "Get Mail" dial code.	1~4	2
Station Group Type	The type of Station Group process applied to the SLT ports connected to the VM can be assigned as Circular or Terminal.	Terminal/ Circular	Terminal

Server number

Member Type

10	IDIE 4.4.0.3-4 EXTERNAL VOICE MAIL GROUP ATT		
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Overflow Timer	A call to a group will remain at the last station in the group or be sent to the assigned Overflow Destination after expiration of the Overflow Time.	000~600 (seconds)	180
Overflow Destination	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or will route to the assigned Overflow Destination. If assigned VSF Announce, Auto Drop is available.	STA/NET or Station Group, VSF Announcement, Auto Drop, System Speed	-
Forced Forward Destination	Calls to a Station group may forward directly to a defined destination, by passing the hunt process. "Forced Forward", below, must be enabled.	STA/NET or Station group, VSF Announcement, Sys. Speed	
Forced Forward Dest Usage	Calls to a Station group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF
Group Name	A group name can be designated.	Max. 12 character	
Server type	When a third party SIP server is used for AA/VM, or the IPCR or third party SIP recording server is used, the server type must be selected.	IPCR/ 3rd party	3rd party

eMG: 0-2

UPC:0-10

eMG80:0-140

eMG800:0-1200

UCP:0-2400

(SLT Type/ SIP Type)

0

SLT Type

Table 4.4.6.3-4 EXTERNAL VOICE MAIL GROUP ATTRIBUTES

Each IPCR and third party SIP server must be

assigned a server number from $01 \sim 10$ which

Member type is assigned as SLT type or SIP Type. In

case of SIP Type, enter the capacity from 1-140 for

eMG80 & 1-1200 for eMG800 & 1-2400 for UCP.

correlates this group with an Agent table.

	PGM Base Function Base	Fav	vorite PGM Station	n Group A	ttrib <mark>×</mark>	
a	PGM Search	Enter Grou	ip Number :		Load	I
	System ID & Numbering Plans	Group Num Group Typ	nber *405 e : Pick-Up			
	Station Data		tribute : ON			
	Board Based Data	Order	Attribute	V	alue	Range
	CO Line Data	1	Auto Pick-Up	OFF	•	
	CO Line Data	2	All Ring	OFF	•	
	System Data					
	Station Group Data ~					
	Station Group Overview					
	Station Group Assignment(190)					
	Station Group Attributes(191)					
	Pick-Up Group Overview					
	Pick-Up Group(192)					
	Personal Group Overview					
	Personal Group(260)					
	Personal Group Attributes(261)					

Figure 4.4.6.3-5 Pick-Up Group Attributes

Table 4.4.6.3-5 PICK-UP GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Auto Pick Up	If a group member is ringing, other members of the Group can Pick-Up the ringing call by simply going "Off-hook".	OFF ON	OFF
All Ring	When a call is offered to a member of the Pick-Up Group in the Tone Ring mode, all members will ring. Note Auto Pickup above must be "ON".	OFF ON	OFF

PGM Base Functio			Favorite PGM	Station Group Attrib×	
Q PGM Search			roup Number :	Load	
System ID & Numbering Plans	G	Group T	lumber *406 ype : VSF-VM		
Station Data	P	Pick-up	Attribute : OFF		
Board Based Data	C	Order	Attribute	Value	Range
CO Line Data		1	Retention Time (Day)	0	00 - 99
CO Line Data		2	Dial Time Out (sec)	15	00 - 99
System Data		3	Group Name		Max 12 Characters
Station Group Data	~				
Station Group Overview					
Station Group Assignment(19	0)				
Station Group Attributes(19	1)				
Pick-Up Group Overview					
Pick-Up Group(192)					
Personal Group Overview					
Personal Group(260)	0				
Personal Group Attributes(26	9				

Figure 4.4.6.3-6 VSF Group Attributes

Table 4.4.6.3-6 VSF GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Retention Time (day)	When voice messages are stored in the VSF, the system will maintain (store) the message for the maximum number of days set in this program (0 to 99 days). (Not used)	00-99 (day)	0
Dial Time Out (sec)	This timer determines the inter-digit time for a VSF-AA or a VM session. If this timer expires while the VSF AA or VM is awaiting user input, the system will assume the remote party has disconnected and will return the channel to idle.	00-99 (seconds)	15
Group Name	A group name can be designated.	Max. 12 characters	

iPECS eMG80 & eMG800 & UCP Administration and Programming Manual

PGM Base Function Base	<	Favorite PGM Station (Group Attrib			
PGM Search	Enter 0	Group Number :	Load			
System ID & Numbering Plans		Number *407 Type : UMS-VM				
Station Data	Pick-up	Attribute : OFF				
Board Based Data	Order	Attribute		Value		Range
	1	VSF Announce 1 Timer	15			000 - 999 (sec)
O Line Data	2	VSF Announce 2 Timer	0			000 - 999 (sec)
ystem Data	3	VSF Announce 1 Location	0			0 - 200 (0 : Unused)
tation Group Data v	4	VSF Announce 1 Auto Drop				
	5	VSF Announce 2 Location	0			0 - 200 (0 : Unused)
Station Group Overview	6	VSF Announce 2 Auto Drop				
Station Group Assignment(190)	7	VSF Announce 2 Repeat Timer	0			000 - 999 (sec)
Station Group Attributes(191)	8	VSF Announce 2 Repeat	OFF T			
Pick-Up Group Overview		9 Overflow Destination	STA/NET or Station Group			Station or Group Number
Pick-Up Group(192)	9		VSF Announcement 0		Auto Drop	1 - 200
Personal Group Overview			System Speed			System Speed
Personal Group(260) Personal Group Attributes(261)	10	Overflow Timer	180			000 - 600 (sec)
r ersonar Group Attributes(201)	11	No Answer Timer	15			00 - 99 (sec)
SDN Line Data	12	Pilot Station Group	ON T			
ID Date			STA/NET or Station Group			Station or Group Number
SIP Data	13	Alternate Destination	SYS SPD O			System Speed
ables Data	14	Station Group Type	Circular 🔻			
letworking Data	15	Wrap-Up Timer	2			000 - 999 (sec)
-			STA/NET or Station Group			Station or Group Number
323 Routing Table	16	Forced Forward Destination	VSF Announcement 0			1 - 200
-NET Data			System Speed			System Speed
one Data	17	Forced Forward Dest Usage	OFF T			
Ulle Data	18	Group Name				Max 12 Characters

Figure 4.4.6.3-7 iPECS Feature Server Voice Mail Group (UMS-VM) Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
VSF Announce 1 Timer	If all stations in the group are busy when a call is offered, the call may continue to wait (queue) for an available FS- VM channel. If the queue period exceeds the VSF Announce 1 Timer, the call is sent to a VSF announcement. If the timer is set to 000, the call will receive the first announcement, in full, prior to the station process (guaranteed announcement).	000~999 (seconds)	015
VSF Announce 2 Timer	After the 1st announcement, a 2nd Announcement Timer is activated. At expiration, if the call remains queued to the group, the call is sent to the assigned VSF Announce 2 Location.	000~999 (seconds)	000
VSF Announce 1 Location	Each group can be assigned an announcement, which is played if the call remains queued beyond the VSF Announce 1 Timer duration. The announcement location is a VSF Announcement number. An entry of 00 indicates no announcement.	00~200	00: none
VSF Announce 1 Auto Drop	If this attribute is selected, the call will drop after the 1st VSF announcement.	Check box	
VSF Announce 2 Location	The Group can be assigned a 2nd announcement, whichSF Announce 2is played if the call remains queued beyond the VSF		00: none

Table 4.4.6.3-7 FEATURE SERVER VOICE MAIL GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	no announcement.		
VSF Announce 2 Auto Drop	If this attribute is selected, the call will drop after the 2nd VSF announcement.	Check box	
VSF Announce 2 Repeat Timer	The 2nd announcement can be repeated to calls that remain in queue at intervals of the announcement 2 repeat timer. Note VSF Announce 2 Repeat below must be "ON".	000~999 (seconds)	000
VSF Announce 2 Repeat	After the 2nd announcement, if the call remains queued to the group, the 2nd VSF announcement can be repeated at the VSF Announce Repeat timer interval, above.	OFF ON	OFF
Overflow Destination	A call to the group will continue to route through the group until answered or all group members have been tried. The call will remain at the last station or route to the assigned Overflow Destination. If assigned VSF Announce, Auto Drop is available.	STA/NET or Station group, VSF Announcement, Auto drop, System Speed	
Overflow Timer	A call to a group will remain at the last station in the group or route to the assigned Overflow Destination after expiration of the Overflow Timer.	000~600 (seconds)	180
No Answer Timer	Calls to a station in the group are directed to the station, if unavailable or unanswered in the No Answer Timer, the call can be routed based on the assigned hunt process.	00~99 (seconds)	15
Pilot Station Group	A FS-VM Station group can be set so that only calls to the pilot number (station group number) will hunt.	OFF ON	ON
Alternate Destination	When a call comes into the group and there are no group members available, the call will be routed to the assigned Alternate Destination.	STA/NET or Station group, System SPD	
Station Group type	The Station group process for the FS-VM group can be defined as Circular or Terminal.	Circular/ Terminal	Circular
Wrap-Up Timer	After terminating any call, the FS port will be maintained in a busy state for the duration of the Wrap-Up Timer.	000~999 (seconds)	2
Forced Forward Destination	Calls to a group may forward directly to a defined destination, by passing the hunt process. "Forced Forward", below, must be enabled.	Sta./NET or Station group, VSF announcement, Sys. Speed	
Forced Forward Dest Usage	Calls to a Station group may forward directly to a defined destination, see above "Forced Forward Destination" when Forced Forward is enabled for the group.	OFF ON	OFF
Group Name	A group name can be designated.	Max. 12 characters	

Table 4.4.6.3-7 FEATURE SERVER VOICE MAIL GROUP ATTRIBUTES

	PGM Base Function Ba	se 🕺 <	F	avorite PGM	Statio	n Group Attrib <mark>×</mark>	
	Q PGM Search	Θ	Enter Gr	oup Number :		Load	
	System ID & Numbering Plans			umber *408 /pe : UCS			
	Station Data			Attribute : OFF			
	Board Based Data		Order	Attribute		Value	Range
	CO Line Data		1	UCS Server	1		01 - 16
	System Data						
	Station Group Data	~					
	Station Group Overview						
	Station Group Assignment(190)	_ 11 -					
<	Station Group Attributes(191)						
	Pick-Up Group Overview Pick-Up Group(192)						
	Personal Group Overview						
	Personal Group(260)						
	Personal Group Attributes(261)						

Figure 4.4.6.3-8 iPECS UCS Server Group Attributes

Table 4.4.6.3-8 UCS GROUP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
UC Server	UCS Server number, this value must be set to 1.	00-16	1

4.4.6.4 Pick Up Group Overview

Selecting the Pick Up Group Overview item will return the Station Pick Up Group Overview page. This page displays the Station Group member stations for all the Station Pick Up Groups. Note that data cannot be entered on this page.

am ID & Numbering Plans on Data d Based Data ine Data em Data on Group Data on Group Data on Group Overview tion Group Overview sonal Group Attributes(261) NLine Data Data es Data orking Data 3 Routing Table	PGM Base Function Base	F	unction Bas	se		<	Favorite PGM	Pick	-Up Gr	×Q
am ID & Numbering Planson Dataon Datad Based Data.ine Dataem Dataon Group Dataon Group Dataon Group Overviewtion Group Overviewsonal Group Overviewsonal Group Attributes(261)Line DataDatacataas Dataorking Data3 Routing TableT Data	PGM Search	1		Θ				ber	Men	nber List
2 an Data d Based Data ine Data em Data em Data on Group Data on Group Overview tion Group Overview tion Group Overview tion Group Overview tion Group Overview sonal Group Attributes(261) N Line Data Data as Data orking Data 3 Routing Table T Data	System ID & Numbering Plans	umberina F	Plans							
3 3 4 5 5 6 7 8 9 1 10 1 10 1 10 1 10 1 10 1 11 1 12 1 13 1 14 1 15 1 16 1 17 1 18 1 19 1 11 1 12 1 13 1 14 1 15 1 16 1 17 1 18 1 19 1 20 1 21 2 22 2 23 2 24 2 25 2 28 1		Jan Start Start								
4ine Dataem Dataon Group Dataon Group Dataon Group Overviewtion Group Assignment(190)tion Group Assignment(190)tion Group Assignment(190)tion Group Attributes(191)kLUp Group Overviewkc-Up Group (192)sonal Group Querviewsonal Group Attributes(261)Line DataDatacas Dataas Dataas Data3 Routing TableT Data	Station Data									
ine Data em Data on Group Data on Group Data on Group Overview tion Group Assignment(190) tion Group Assignment(190) tion Group Overview kLUp Group Overview kkUp Group Overview sonal Group Overview sonal Group (260) sonal Group Attributes(261) Lline Data Data as Data orking Data 3 Routing Table T Data	Board Based Data)ata					4			
8 9 10 11 10 11 11 12 13 k-Up Group Overview 14 k-Up Group Overview 15 sonal Group Overview 16 17 sonal Group Attributes(261) 18 19 11 12 13 14 15 16 17 18 19 20 21 22 22 23 24 25 26 27 28	CO Line Data									
910tion Group Overviewtion Group Assignment(190)tion Group Assignment(191)k.Up Group Overviewk.Up Group Overviewsonal Group Overviewsonal Group Overviewsonal Group Attributes(261)I Line DataDataas Dataas Data3 Routing Table3 Routing Table202122232425262728	System Data									
111213k-Up Group Overviewk-Up Group Overviewsonal Group Overviewsonal Group Overviewsonal Group Attributes(261)I Line DataDataas Dataas Nouting Data3 Routing TableT Data	Station Group Data	Data		~			9			
tion Group Attributes(191) k-Up Group Overview k-Up Group Overview sonal Group Overview sonal Group Attributes(261) I Line Data Data as Data arorking Data 3 Routing Table T Data	Station Group Overview	Overview								
k-Up Group Overview 14 k-Up Group (192) 15 sonal Group Overview 16 sonal Group (260) 17 sonal Group Attributes (261) 18 I Line Data 20 Data 21 20 21 22 22 23 24 24 25 25 26 27 28	Station Group Assignment(190)	Assignme	ent(190)				12			
k-Up Group(192) 15 sonal Group Overview 16 sonal Group(260) 17 sonal Group Attributes(261) 18 I Line Data 20 Data 21 Sonal Group Data 23 3 Routing Table 26 27 28	Station Group Attributes(191)	Attributes	(191)				13			
sonal Group Overview 16 sonal Group (260) 17 sonal Group Attributes (261) 18 I Line Data 19 Data 20 as Data 21 rorking Data 25 3 Routing Table 26 27 28	Pick-Up Group Overview	up Overvie	ew				14			
sonal Group(260) 17 sonal Group Attributes(261) 18 I Line Data 19 Data 20 as Data 22 rorking Data 24 3 Routing Table 26 27 28	Pick-Up Group(192)	p(192)					15			
sonal Group Attributes(261) 18 1 Line Data 19 Data 20 21 21 22 23 23 24 24 25 26 27 28 28	Personal Group Overview	up Overvie	W				16			
19 10 11 12 20 21 22 23 24 25 26 27 28	Personal Group(260)	up(260)					17			
A Line Data 20 Data 21 Data 22 as Data 23 rorking Data 24 3 Routing Table 26 27 28	Personal Group Attributes(261)	up Attribute	es(261)				18			
Data 21 22 23 23 24 24 25 26 27 28 28				\neg			19			
Data 22 es Data 23 orking Data 24 3 Routing Table 26 27 28	ISDN Line Data	а					20			
22 23 24 24 25 26 27 28 28	SIP Data									
24 25 3 Routing Table 27 28										
orking Data 25 3 Routing Table 26 27 28	Tables Data									
3 Routing Table 26 27 28				\neg						
3 Routing Table 27 27 Z8 28	Networking Data	ta								
27 T Data 28	H.323 Routing Table	Table								
1 Data										
29	T-NET Data									
	Zone Data									
30	Luie Daid									
ce Login	Device Login				-					

Figure 4.4.6.4-1 Pick Up Group Overview

4.4.6.5 Pick Up Group - PGM 192

Selecting Pick Up Group will display the Pick Up Group entry page. Enter the desired Pick Up Group number and click **[Load]** to display the group member Assignment.

Enter Group Number: eMG80: 0-49 / eMG800: 0-199 / UCP: 0-199

	PGM Base Function Base		Favorite PGM	Pick-Up Gro X	×
	Q PGM Search	2	Enter Group Number (0	0 - 199) : Load	
	System ID & Numbering Plans		Group Number 1		
	Station Data			Add/Delete Group Member	
	Board Based Data		Station Range	- Add O Del Save	
			Add Station Number	+ Save	
	CO Line Data		Unselect All	Station Number	
	System Data			Save / Delete	
	Station Group Data ~				
	Station Group Overview				
	Station Group Assignment(190)				
	Station Group Attributes(191)				
<	Pick-Up Group Overview				
	Pick-Up Group(192)				
	Personal Group Overview				
	Personal Group(260)				
	Personal Group Attributes(261)				

Figure 4.4.6.5-1 Pick Up Group

Table 4.4.6.5-1 PICK UP GROUP ASSIGNMENT

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Member	Assign stations as members of the Pick-Up group.		

4.4.6.6 Personal Group Overview

Selecting Personal Group Overview displays the master station and member list for all the personal groups.

PGM Base Function Base	< Favo	rite PGM	Personal Group .	× 0	
GM Search	Group Nu	mber Master Sta	tion Member List		
	1	1011	1012(0)	Go to Assignment	
tem ID & Numbering Plans	2			Go to Assignment	
tion Data	3			Go to Assignment	
rd Based Data	4			Go to Assignment	
	5			Go to Assignment	
Line Data	6			Go to Assignment	
tem Data	7			Go to Assignment	
tion Group Data 🗸 🗸	8			Go to Assignment	
	9			Go to Assignment	
tation Group Overview	10			Go to Assignment	
tation Group Assignment(190) tation Group Attributes(191)	11			Go to Assignment	
ick-Up Group Overview	12			Go to Assignment	
ick-Up Group(192)	13			Go to Assignment	
ersonal Group Overview	14			Go to Assignment	
ersonal Group(260)	15			Go to Assignment	
ersonal Group Attributes(261)	16			Go to Assignment	
N Line Data	17			Go to Assignment	
	18			Go to Assignment	
Data	19			Go to Assignment	
les Data	20			Go to Assignment	
working Data	21			Go to Assignment	
-	22			Go to Assignment	
23 Routing Table	23			Go to Assignment	
ET Data	24			Go to Assignment	
e Data	25			Go to Assignment	
ice Login	26			Go to Assignment	

Figure 4.4.6.6-1 Personal Group Overview

Clicking **[Go to Assignment]** goes to move Personal group (260) for assigning Master station & Member Station and setting Personal group attributes directly.

4.4.6.7 Personal Group - PGM 260

Selecting Personal Group will display the Personal Group entry page. Enter a valid Personal Group number and click load to enter group data.

<u>Enter Group Number</u> : eMG80: 1-70 / eMG800: 1-600 / UCP: 1-1200

	PGM Base Function Base	< Favorite PGM	Personal Group(2×		x >
	Q PGM Search	Enter Personal Group Nu	umber (1 - 1200) : Load		
	System ID & Numbering Plans	Personal Group Number	1		
	Station Data	Master Station : 1011	Save Go to Attributes		
	Board Based Data		Add/Delete Group Member		
		Station Range	- Add O Del	Save	
	CO Line Data	Add Station Number	+	Save	
	System Data	Select All	Station Number	Dly	
	Station Group Data ~		Save / Delete		
<	Station Group Overview Station Group Assignment(190) Station Group Attributes(191) Pick-Up Group Overview Pick-Up Group(192) Personal Group Overview Personal Group(260) Personal Group Attributes(261)		1012	0	

Figure 4.4.6.7-1 Personal Group

Several stations can share same station number. That means Personal Group is extended feature of Linked Pair.

A Personal Group is composed with a master station and several member stations.

A master station and all member stations share master station's number.

In case of Member station, each member station can be set the delay (Dly) time.

By using this shared number, almost features (Call To xxx / Call From xxx / SMDR / Message Wait...) can be activated.

But, some features can be chosen by PGM 261 attribute about all station activating or individual station working.

In PGM 260, Personal group master and member can be assigned.

In PGM 261, Personal group attribute can be set.

4.4.6.8 Personal Group Attribute - PGM 261

Selecting Personal Group Attribute will display the Personal Group Attribute entry page. Enter a valid Personal Group number to enter the group data. Click **[Save]** button after changing Value.

Enter Group Number: eMG80: 1-70 / eMG800: 1-600 / UCP: 1-1200

PGM Base Function Base	< Favor	rite PGM Per	sonal Gro X	×
Q PGM Search	Enter Pers	onal Group Number	(1 - 1200) : Load	Save
System ID & Numbering Plans	Personal G	Group Number 1		
Station Data	Order <u>↓</u> a	Attribute	Value	
Station Data	1	Wake-Up	Individual 🔻	
Board Based Data	2	Call-Forward	Overall 🔻	
	3	Do-Not-Disturb	Individual 🔻	
CO Line Data	4	Linked Pair Mode	OFF (Cover Ring)	
System Data				
Station Group Data ~				
Station Group Overview				
Station Group Assignment(190)				
Station Group Attributes(191)				
< Pick-Up Group Overview				
Pick-Up Group(192)				
Personal Group Overview				
Personal Group(260)				
Personal Group Attributes(261)				



ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT					
Wake-Up	If this value is set to Overall, all member wake-up follow by master wake up. If this value is set to Individual, individual wake-up is worked by each station.	Individual/ Overall	Individual					
Call-Forward	If this value is set to Overall, call forward setting affect to Master and all members. If this value is set to Individual, individual Call Forward is worked by each station.	Individual/ Overall	Overall					
Do-Not Disturb	If this value is set to Overall, DND setting affect to Master and all members. If this value is set to Individual, individual DND is worked by each station.	Individual/ Overall	Individual					
Linked Pair Mode	If this value is set to ON, Master and Member Stations are linked and only one station can be activated.	OFF(Cover Ring)/ ON(Cover Ring and State Sync.)	OFF(Cover Ring)					

Table 4.4.6.8-1 PERSONAL GROUP ATTRIBUTES

~

System Attributes(16...

System Data

Station Authorizatio...

Tables Data

4.4.7 ISDN Line Data

Board Based Data

CO Line Data

System Data

Station Group Data

ISDN Attributes(200) CLIP/COLP Table(201) MSN Table(202) ICLID Route Table(203) ICLID Ring Assignment(204) PPP Attributes(205) Prefix Dialing Table(206)

ISDN Line Data

shown in the following figure.				
PGM Base Function Base	< Favorite PGM			×
Q PGM Search				Edit
System ID & Numbering Plans	System IP Plan(102) System ID & Numberi	Device IP Plan(103) System ID & Numberi	Common Attributes(Station Data	Flexible Buttons(115 Station Data
Station Data		Contraction of the state of the	oranosi Data	Control Data

CO/IP Ring Assignm...

CO Line Data

Station Group Assig ...

Station Group Data

Flexible DID Conver...

Tables Data

CID/CPN Attributes(1...

CO Line Data

Station Group Attrib...

Station Group Data

Common Attributes(...

CO Line Data

System Password(162)

System Data

System Authorizatio...

Tables Data

Selecting the ISDN Line Data program group returns the sub-menu displayed in the left frame as shown in the following figure.



Each ISDN (Integrated Services Digital Network) Line provides digital services to the end-user. Basic Rate Lines have three (3) channels, 2 B channels and a D channel. The 2 B channels provide 64 Kbps each, a total of 128 Kbps for "Bearer" or voice channels. The D channel provides a 16 Kbps signaling channel. Primary Rate Lines have 23/30 64 Kbps 'B' channels and 1/2 64 Kbps signaling channels. For proper operation, entries are required for various attributes and Tables to match the ISDN circuit and services.

4.4.7.1 ISDN Attributes - PGM 200

Selecting ISDN Attributes will display the ISDN Attributes data entry page. Click **[Save]** button after changing Value.

	PGM Base Function Bas		< Favori	te PGM ISDN	Attribu	×
c	PGM Search	0				
	System ID & Numbering Plans		Order <u>↓</u> a	Attribute	Value	Range
			1	CO ATD Code		Max 2 Digits
	Station Data		2	CLI Print To Serial	OFF V	
	Board Based Data		3	Display DID Info	OFF •	
	CO Line Data					
	System Data					
	Station Group Data					
	ISDN Line Data	~				
	ISDN Attributes(200)					
	CLIP/COLP Table(201)					
	MSN Table(202)					
	ICLID Route Table(203)					
	ICLID Ring Assignment(204)					
	Prefix Dialing Table(206)					

Figure 4.4.7.1-1 ISDN Attributes

ISDN attributes define several characteristics of the ISDN interface. ISDN call cost services (Advice of Charge), CLI modification, voice encoding, and other characteristics of the interface are defined, refer to the following table.

Table 4.4.7.1-1 ISDN ATTRIBUTES

ATTRIBUTE	DESCRIPTION	evystem is set to send the station number with or COLP, either the station number or this ATD e sent based on Common Attributes section, D assignment. Calling Line Id may be included in call records, DR Attributes section. DR Attributes section.	
CO ATD Code	When the system is set to send the station number with ISDN CLIP or COLP, either the station number or this ATD code will be sent based on Common Attributes section, EXT or ATD assignment.	Max.2 Digits	
CLI Print To Serial	The ISDN Calling Line Id may be included in call records,	OFF/	OFF
	refer to SMDR Attributes section.	ON	011
Display DID	Display DID digit information on LCD and print it to serial	OFF/	OFF
Information	port.	Max.2 Digits OFF/ OFF OFF/ OFF/ OFF OFF	

4.4.7.2 CLIP/COLP Table - PGM 201

Selecting CLIP/COLP Table will display the CLIP/COLP Table Attributes data entry page. Click **[Save]** button after changing Value.

PGM Base Function Base	< Favo	rite PGM	CLIP/COLP T X			
PGM Search	D					Sa
System ID & Numbering Plans	Order <u>↓</u> ª	Table	Value		Range	
Station Data		CID Password		Go to Setting	Max 12 Characters	
Station Data	1	COLP table 0			Max 10 Digits (include '*' and '#')	
Board Based Data	2	COLP table 1			Max 10 Digits (include '*' and '#')	
CO Line Data	3	COLP table 2			Max 10 Digits (include '*' and '#')	
Co Lino Data	4	COLP table 3			Max 10 Digits (include '*' and '#')	
System Data	5	COLP table 4			Max 10 Digits (include '*' and '#')	
Station Group Data	6	COLP table 5			Max 10 Digits (include '*' and '#')	
· · · · · · · · · · · · · · · · · · ·	7	COLP table 6			Max 10 Digits (include '*' and '#')	
ISDN Line Data V	8	COLP table 7			Max 10 Digits (include '*' and '#')	
ISDN Attributes(200)	9	COLP table 8			Max 10 Digits (include '*' and '#')	
CLIP/COLP Table(201)	10	COLP table 9			Max 10 Digits (include '*' and '#')	
MSN Table(202)	11	COLP table 10			Max 10 Digits (include '*' and '#')	
ICLID Route Table(203)	12	COLP table 11			Max 10 Digits (include '*' and '#')	
ICLID Ring Assignment(204)	13	COLP table 12			Max 10 Digits (include '*' and '#')	
Prefix Dialing Table(206)	14	COLP table 13			Max 10 Digits (include '*' and '#')	
SIP Data	15	COLP table 14			Max 10 Digits (include '*' and '#')	
Tables Data	16	COLP table 15			Max 10 Digits (include '*' and '#')	
l ables Data	17	COLP table 16			Max 10 Digits (include '*' and '#')	
Networking Data	18	COLP table 17			Max 10 Digits (include '*' and '#')	
H.323 Routing Table	19	COLP table 18			Max 10 Digits (include '*' and '#')	
Those though a bio	20	COLP table 19			Max 10 Digits (include '*' and '#')	
T-NET Data	21	COLP table 20			Max 10 Digits (include '*' and '#')	
Zone Data	22	COLP table 21			Max 10 Digits (include '*' and '#')	
	23	COLP table 22			Max 10 Digits (include '*' and '#')	
Device Login	24	COLP table 23			Max 10 Digits (include '*' and '#')	
UCS Standard	25	COLP table 24			Max 10 Digits (include '*' and '#')	

Figure 4.4.7.2-1 CLIP/COLP Table

Normally, the system will send the primary Directory Number of the ISDN Line in the ISDN call SETUP and CONNECT messages to identify the caller (CLIP) or the answering (COLP) party respectively. Under certain circumstances, it may be desirable to provide the secondary or DID number for the ISDN Line. In these cases, the CLIP/COLP Table may be used to define the digits sent. The number sent is selected based on the index assigned for the CO/IP Line under *'CID/CPN Attributes section'*.

The CLI Station Number is sent in place of the station number. For all other entries, the station number is sent as a suffix to the number in the Table. Note that this number is sent only if CLIR/COLR is disabled under the CLIR Service and COLR Service assignments in the Station ISDN Attributes.

Setting CID Password directly

You can set the CID password to click "Go to Setting" button. After clicking it, you will move to the following PGM 162 and set the CID password, and then save CID password to mark tick on the save box and click the Save button.

4.4.7.3 MSN Table - PGM 202

Selecting MSN Table will display the MSN Table data entry page. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing Value.

Enter Index Range: eMG80: 1-500 / eMG800: 1-1500 / UCP: 1-2400

	PGM Base Function Base		<	Favor	ite PGM MS	SN Table(202) ×		
	PGM Search	3	Ente	r Index I	Range (1 - 2400) : Defa	ult : 1-100		? Load
y:	stem ID & Numbering Plans			k Range				
ta	tion Data			Index	CO Line Range Start (1 - 998)	CO Line Range End (1 - 998)	Index of Flexible DID Table (0 - 9999)	Called Telephone Number MAX 23 Digits (Include '*' and '#')
oai	rd Based Data							
01	Line Data			2				
	ture Data	- 11	_	4				
/s	item Data	_		5				
ta	tion Group Data			6				
;	DN Line Data 🗸 🗸		_	7				
		- 11-		8				
	DN Attributes(200)			9 10				
	IP/COLP Table(201)			10				
	SN Table(202)			12				
	LID Route Table(203)		_	13				
	LID Ring Assignment(204)		_	14				
	P Attributes(205) afix Dialing Table(206)			15				
P	renx Dialing Table(200)			16				
P	Data			17				
		-		18				
able	es Data			19				
etw	orking Data			20				
	-	_		21				
323	3 Routing Table			22				
NF	T Data			23				
			_	24				
on	e Data			25				
e	vice Login			26 27				
		-						

Figure 4.4.7.3-1 MSN Tables

When an ISDN Line assigned for DID operation receives an incoming call, the call will be routed to a station based on the Flexible DID Table Index assigned in the MSN Table. Each iPECS configuration has a different capacity as indicated by the entry range in the following table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CO Line Range	Enter the CO Line Range.	eMG80:1-74 eMG800:1-600 UCP:1-998	None
Index of Flexible DID Table	Index to the Flexible DID Table.	0~9999	None
Called Telephone Number	When the received MSN number matches this entry, the call is routed based on the DID Table index entered above.	Max. 23 Digits (Include * and #)	None

4.4.7.4 ICLID Route Table - PGM 203

Selecting ICLID Route Table will display the ICLID Route Table data entry page. Click **[Save]** button after changing field.

PGM Base Function Base	Favorite PGM ICLID	Route Tabl <mark>×</mark>		
PGM Search O	Enter Index Range (1 - 500) :			? Load
System ID & Numbering Plans	Index Range 1-20			
Station Data	Index ICLID Ring Assign Index	Caller Telephone Number	Caller Name	Ring Tone
Station Data	1			
Board Based Data	2			
CO Line Data	3			
CO Line Data	4			
System Data	5			
Station Group Data	6			
Claich Croup Data	7			
ISDN Line Data ~	8			
	9			
ISDN Attributes(200) CLIP/COLP Table(201)	10			
MSN Table(202)	11			
ICLID Route Table(203)	12			
ICLID Ring Assignment(204)	13			
PPP Attributes(205)	14			
Prefix Dialing Table(206)	15			
	16			
SIP Data	17			
Tables Data	18			
	19			
Networking Data				
H.323 Routing Table	20			

Figure 4.4.7.4-1 ICLID Route Table

The system can employ ICLID (Incoming Calling Line Id) to determine the routing of incoming external calls. Each CO/IP Line, including DID Lines and ACD group calls may be assigned to employ ICLID routing. The system will compare the received ICLID to entries in the ICLID Route Table and, if a match is found, will route the call to the destination defined in the ICLID Ring Assignment Table index assigned here.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ICLID Ring Assign Index	Index to the ICLID Ring Assignment Table that determines the call routing.	eMG: 001~250 UCP: 001~500	None
Caller Telephone Number	ICLID (Incoming Caller Id) to match for the index. If the Caller Id matches the Table entry, the index is used to select the route.	24 Digits	None
Caller Name	ICLID name that is sent by the system to the destination for the ICLID routed call.	12 characters	None
Ring Tone	If the received Caller Id matches the Caller Telephone Number, the Ring tone selected here is employed for the call alerting.	01 ~ 16	Ring Tone

Table 4.4.7.4-1 ICLID ROUTE TABLE ATTRIBUTES

4.4.7.5 ICLID Ring Assignment Table - PGM 204

Selecting ICLID Ring Assignment Table will display the ICLID Ring Assignment Table data entry page. The station number starts 100 for eMG80 and 1000 for eMG800/UCP. Click **[Save]** button after changing Value.

PGM Base Function Base	< Favorite	PGM ICLID	Ring As X			
System ID & Numbering Plans	Table Number		Louis			l
	At	tribute	Value	Range	Station Delay Value [Station:Delay]	
Station Data		 Station Range 	Range : Delay :	0~9	[100:0]	
		Station Group				
CO Line Data	Day	O VSF	Announcement : Auto Drop :	0~70		
		AA Ring Time		0~30		
Station Group Data		Net Station				
ISDN Line Data ~		 Station Range 	Range :	0~9	[100:0]	
ISDN Attributes(200)		Station Group				
CLIP/COLP Table(201) MSN Table(202)	Night	○ VSF	Announcement : Auto Drop :	0~70		
ICLID Route Table(203)		AA Ring Time		0~30		
ICLID Ring Assignment(204)		Net Station				
Prefix Dialing Table(206)		 Station Range 	Range :	0~9		
		Station Group				
Tables Data	Timed Ring	● VSF	Announcement : Auto Drop :	0~70		
Networking Data		AA Ring Time		0~30		
H.323 Routing Table		 Net Station 				

Figure 4.4.7.5-1 ICLID Ring Assignment Table

If the Incoming Caller ID matches an entry in the ICLID Route Table, the index from the Table is used to determine the call routing from the ICLID Ring Assignment Table. Separate ring assignments are made for Day, Night, and Timed Ring mode for each index, 001 to 250, in this table. When assigned to ring to a VSF announcement, the call can be automatically dropped after the announcement by entering '#' after the announcement number.

When CO Lines are programmed to Ring an external AA/VM, VSF or Feature Server Group as an Automated Attendant, the Ring signal can be on an immediate or delayed basis allowing other stations/groups to be assigned Ring and answer prior to signaling the AA. The delay is defined in seconds from 00 to 30.

4.4.7.6 PPP Attributes for UCP - PGM 205

Selecting PPP Attributes will display the PPP Attributes data entry page. Use the check boxes to indicate which attributes to define; data for checked attributes is stored for the entire range of stations when saved. Click **[Save]** button after changing Value.

PGM Base Function Base		Favo	ite PGM	PPP Attribut X			
PGM Search	0						
stem ID & Numbering Plans		Order <u>↓</u> a	Check All	Attribute	Value	Range	
ation Data	-	1		PPP Destination		Station Number	
	- 11	2		User ID 1		Max 12 Characters	
oard Based Data		3		User Password 1	*****	Max 12 Characters	
) Line Data	1	4		User ID 2		Max 12 Characters	
		5		User Password 2	******	Max 12 Characters	
stem Data		6		PPP SERVER IP Addr	0.0.0.0		
tion Group Data		7		PPP CLIENT IP Addr	0.0.0.0		
ON Line Data ~							
DN Attributes(200)							
IP/COLP Table(201)							
ISN Table(202)							
LID Route Table(203)							
LID Ring Assignment(204)							
PP Attributes(205)							
refix Dialing Table(206)							

Figure 4.4.7.6-1 PPP Attributes

In addition to remote access via an IP network connection, the system database may be accessed remotely via an ISDN connection. Placing a call over an ISDN Line to the designated PPP Station will provide a connection to the system database. The system will request a user id and password, which must match one of the User Ids and passwords assigned. After a matching ID and password are received, iPECS Login Home page is provided.

Table 4.4.7.6-1 PPP ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
PPP Destination	If the incoming capability is 64 Kbps unrestricted digital and the called party number matches the PPP destination, the system will automatically answer the call and request PPP ID and password.	Station number	None
User ID 1	The System accepts this PPP ID 1 as valid.	Max. 12 characters	likppp01
User Password 1	The password entered is used to authorize PPP ID 1.	Max. 12 characters	lpkts01
User ID 2	The System accepts this PPP ID 2 as valid.	Max. 12 characters	likppp02
User Password 2	The password entered is used to authorize PPP ID 2.	Max. 12 characters	lpkts02
PPP Server IP Addr	When configured, the PPP Server IP Address must match this entry. To apply this option the system must be restarted.	IP Address	
PPP Client IP Addr	When configured, the PPP Client IP Address must match this entry. To apply this option the system must be restarted.	IP Address	

4.4.7.7 Prefix Dialing Table - PGM 206

Selecting ISDN Prefix Dialing Attributes will display the Prefix Dialing Table Attributes data entry page. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing Value.

PGM Base Function Ba		¢		Favorite PGM	Prefix Dialing	Table(20		2										
PGM Search	•	Enter	Index I	Range (1 - 500) Definat 1-100				Load									50	ve.
System ID & Numbering Plans			Range															
Station Data		8	Index	Prefix Code MAX 8 Digits (Include "" and '#')			Max Digit (00-30)	Number Of Typ	pe N	lumbering Plan	Sending Complet	e Call Ch	arge Typ	pe Ca	(000.999)	Call Cost Per Call Charge Timer (Must be 6 digits)	Flat R	Łate
Board Based Data		0			0	0	Ø	Unknown	• 0	inknown 🔹	OFF	Unknow	n	• 0		000000	OFF	•
CO Line Data		8				Č	0					Unknow		• 0		000000	OFF	
	-	8				0	0					Unknow		• 0		000000	OFF	
System Data	_	8			0	0	0					Unknow		• 0		000000	OFF	
Station Group Data		8				0	0					Unknow		• 0		000000	OFF	
ISDN Line Data	~	8			0	0	0					Unknow		• 0		000000	OFF	
in the state of the sector.	_	8			5	0	0					Unknow		• 0		000000	OFF	
ISDN Attributes(200)		8				0	0					• Unknow		• 0		000000	OFF	
CLIP/COLP Table(201)		12			0	0	0					• Unknow		• 0		000000	OFF	
MSN Table(202)		8				0	0	Contraction of the second				Unknow		• 0		000000	OFF	
ICLID Route Table(203)		8			0	0	0					Unknow		• 0		000000	OFF	
CLID Ring Assignment(204) PPP Attributes(205)		8				5					17343	Unknow		• 0		000000	OFF	
Prefix Dialing Table(206)		8			5	0	0					• Unknow		• 0		000000	OFF	
Million America Manager America		0			0	0	0					Unknow		• 0		000000	OFF	
SIP Data		-			-	v .	0					Unknow		* 0		000000	OFF	
Tables Data	-	8				0	0					Unknow		• 0		000000	OFF	
Tables Data	_				0	0	0					Unknow		• 0		000000	OFF	
Networking Data					0	0	0	Providence in the				Unknow				000000	OFF	
H 323 Routing Table					0	0	0					Unknow		• 0		000000	OFF	
		8				0	0					Unknow Unknow		• 0		000000	OFF	
T-NET Data					0	õ	0					Unknow		• 0		000000	OFF	
Zone Data		10				0	0					Unknow		• 0		000000	OFF	
Device Login					T	0	0					Unknow		• 0		000000	OFF	
and the second		1			0			9				Unknow		. 0		000000	OFF	

Figure 4.4.7.7-1 Prefix Dialing Table Attributes

Prefix Dialing Table. With this table, three features can be supported.

- 1. Analog CO Call Charge with NPR metering.
- 2. SIP direct dialing with no wait inter-digit timer.
- 3. ISDN Prefix Call ISDN en-block Dialing with Prefix Call Setup.

If first some digits (up to 8 digits) of outgoing dial number are matched with Prefix Code of each table, this table can start work. By each Co-line (PGM 142 - F20), Table ID (0-6) can be set. This table ID (PGM 142 - F20) is associated with PGM 206 - each table ID.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
Prefix Code	Enter the Prefix code. (Max 8 digits)	Max. 8 Digits (Include * and #)		
Table ID	Enter Table ID (0-6). 0 means NOT used.	0-6	0	
Min Digit	Select the minimum dial digits (00-30).	00-30	0	
Max Digit	Select the maximum dial digits (00-30).	00-30	0	
Number Of Type	Select Number of Type (0~6). Unknown/International/National/Network Spec/Subscriber/Abbreviated /Reserved.	Unknown/ International/ National/ Network spec/ Subscriber/ Abbreviated/ Reserved	Unknown	

Table 4.4.7.7-1 Prefix dialing Table Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Numbering Plan	Select Numbering Plan (0~6). Unknown/ISDN/Data Numbering/Telex/National Standard/Private /Reserved.	Unknown/ ISDN Telephony/ Data numbering/ Telex/ National standard/ Private/ Reserved	Unknown
Sending Complete	Select Sending Complete option. (On/Off)	ON/OFF	OFF
Call Charge Type	Call Charge Type (0~5). Unknown/Local/Long Distance/International/Mobile/reserved	Unknown/ Local/ Long distance/ International/ Mobile/ Reserved	Unknown
Call Charge Timer	Call Charge Timer can be assigned. By this timer value Call Metering can be established.	000-999	0
Call Cost	Call Cost is calculated by CALL TIMER. (ex : timer is 1 min, cost is 000020, then after 3 minute call, total call cost is calculated to 000060)	00000-999999	000000
Flat Rate	If Flat Rate is ON, Flat Rate is applied by CALL COST per a call.	ON/OFF	OFF

Table 4.4.7.7-1 Prefix dialing Table Attributes

4.4.7.8 ISDN Clock Priority for eMG800 - PGM 207

Selecting ISDN Clock Priority will display the ISDN Clock priority Attributes data entry page. Click **[Save]** button after changing Value.

	PGM Base Function Base	•	Fa	avorite PGM	ISDN Clock Pr	io ×	×
	Q PGM Search						Save
	System ID & Numbering Plans		Seq	Туре	Priority	New Priority	
	Station Data		25	T1IM GW			
	Board Based Data						
	CO Line Data						
	System Data						
	Station Group Data						
	ISDN Line Data v						
<	ISDN Attributes(200) CLIP/COLP Table(201) MSN Table(202) ICLID Route Table(203) ICLID Ring Assignment(204) Prefix Dialing Table(206) ISDN Clock Priority(207) SIP Data Tables Data						

Figure 4.4.7.7-1 ISDN Clock Priority Attributes

Table 4.4.7.7-1 ISDN Clock Priority Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Priority	Clock priority if more than one ISDN boards are used	1-18	

4.4.8 SIP Data

Selecting the SIP Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

PGM Base Function Base	< Favorite PGM			×
Q PGM Search				Edit
System ID & Numbering Plans	System Overview System ID & Numberin	System IP Plan(102) System ID & Numberin	Device IP Plan(103) System ID & Numberin	Common Attributes(1 Station Data
Station Data				
Board Based Data	Flexible Buttons(115/ Station Data	Common Attributes(1 CO Line Data	CO/IP Ring Assignm CO Line Data	CID/CPN Attributes(151) CO Line Data
CO Line Data				
System Data	System Attributes(16 System Data	System Password(162) System Data	Station Group Assign Station Group Data	Station Group Attribu Station Group Data
Station Group Data				
ISDN Line Data	Station Authorization Tables Data	System Authorization Tables Data	Flexible DID Conversi Tables Data	
SIP Data v				
 SIP Common Attributes(210) SIP Trunk Status Overview SIP CO Attributes(133) SIP Registration Status Overview SIP UID Alloc Status Overview SIP UDE ID Attributes(126) SIP Phone Attributes(211) SIP Phone Provisioning(212) Provisioning File View&Delete VMEX Station Data(215) VMEX Connection Table(216) Tables Data Networking Data H.323 Routing Table 				

Figure 4.4.8-1 SIP Data

4.4.8.1 SIP Common (System based) Attributes - PGM 210

Selecting SIP Common Attributes will display the SIP System based Attributes data entry page. The attributes are system based SIP server data that running on MPB/UCP. Click **[Save]** button after changing Value.

DNS server address is where system can get IP address of external party that was written in Name in system. Local UDP/TCP/TLS Port is MPB/UCP's SIP signaling port number.

'Signal TLS Option' is for the SIP signaling by TLS configuration.

SIP Common Attr... PGM Base Function Base Favorite PGM Q PGM Search 0 Save Order Attribute Value Range Remark System ID & Numbering Plans Max 32 Primary DNS Address SYSTEM will be restarted after [SAVE] 1 Characters Station Data Max 32 2 Secondary DNS Address SYSTEM will be restarted after [SAVE] Board Based Data Characters 3 Local Server UDP Port 5060 Port SYSTEM will be restarted after [SAVE] CO Line Data 4 Local Server TCP Port 5060 Port SYSTEM will be restarted after [SAVE] 5061 System Data 5 Local Server TLS Port Port SYSTEM will be restarted after [SAVE] 0 (OFF), 10-Check Message Send Station Group Data 6 0 Timer 3600 se SIGNAL TLS OPTION ISDN Line Data TLS Version SYSTEM will be restarted after [SAVE] SIP Data Crypt Mode SYSTEM will be restarted after [SAVE] 2 RSA . 3 First TLS None SYSTEM will be restarted after [SAVE] SIP Common Attributes(210) 4 Second TLS None SYSTEM will be restarted after [SAVE] SIP Trunk Status Overview TRANSACTION_USER • Persistent Level SYSTEM will be restarted after [SAVE] SIP CO Attributes(133) 6 Capacity Level 70 0-100 SYSTEM will be restarted after [SAVE] SIP Registration Status Overview 7 Connection Reuse(TLS) ON SIP UID Alloc Status Overview 8 System Cert File Format PEM(Normal) SIP User ID Attributes(126) Max 16 SIP Phone Attributes(211) 9 System Cert Key Password ***** Characters SIP Phone Provisioning(212) 10 TLS Security OFF **T** SYSTEM will be restarted after [SAVE] Provisioning File View&Delete 11 SRTP Security OFF **•** SYSTEM will be restarted after [SAVE] VMEX Station Data(215) SIP MESSAGE BLOCKING OPTION VMEX Connection Table(216) IP AUTH USAGE Server IP and SIP Ext IF 1 ON V REGISTER from FMC or Remote SIP Ext(IP AUTH Tables Data 2 Remote REGISTER ALLOW **T** USAGE ON) Time for checking invalid remote REGISTER(Remote Networking Data 3 REGISTER Check Time 0 0-3600 sec REGISTER ALLOW) Max number of invalid remote REGISTER(Remote H.323 Routing Table 4 REGISTER Threshold 0-60000 REGISTER ALLOW) T-NET Data Blocking Time for remote REGISTER(Remote REGISTER Lock Time 0-250 min 0

SIP Status' the status of is running of SIP server in MPB/UCP.

Figure 4.4.8.1-1 SIP Common Attributes

Check Message Send Timer – This is Keep Alive Message (OPTIONS) frequency from SIP server (MPB/UCP) to SIP Phone. If a SIP Phone does not respond to system's Keep Alive Message then system will make the status of SIP Phone to 'disconnected' in system.

Keep Alive Message (OPTIONS) programming for a SIP station is as below:

- Frequency: SIP Data / SIP Common Attributes (210) Check Message Send Timer.
- Usage ON/OFF for a SIP Extension: SIP Data / SIP Phone Attributes (211) Keep Alive Usage.
- Retry Count: IP Data / SIP Phone Attributes (211) Retry Count.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Primary DNS	Name Resolution Server.	IP Address	
Address	System will be restarted after Save.	(Max. 32 characters)	
Secondary DNS	Name Resolution Server.	IP Address	
Address	System will be restarted after Save.	(Max. 32 characters)	
Local Server UDP	SIP UDP signaling port.		5060
Port	System will be restarted after Save.		5000
Local Server TCP	SIP TCP signaling port.		5060
Port	System will be restarted after Save.		
Local Server TLS	SIP TLS signaling port.		5061
Port	System will be restarted after Save.		
Check Message Send Timer	Keep Alive (OPTIONS Message) sending frequency	0, 10 ~ 3600 (Sec.) 0: OFF	0
	Signal TLS option		
	TLS version.		
TLS Version	TLS1.0: TLS1.0 is used for TLS connection. TLS1.2: TLS1.2 is used for TLS connection. SSL3(Auto) : TLS1.0 or TLS1.2 is used – auto negotiation System will be restarted after Save.	TLS1.0/ TLS1.2/ SSL3(Auto)	TLS1.0
a	TLS Crypt Mode.		
Crypt Mode	System will be restarted after Save.	RSA/ECC	RSA
First TLS	SIP signaling TLS encryption primary key method. System will be restarted after Save.	None/ ARIA-128/ AES-128/ ARIA-128-SHA2/ AES-128-SHA2/ AES-256-SHA2(RSA)	None
Second TLS	SIP signaling TLS encryption secondary key method. System will be restarted after Save.	None/ ARIA-128/ AES-128/ ARIA-128-SHA2/ AES-128-SHA2/ AES-256-SHA2(RSA)	None
Persistent Level	TLS signaling path method TRANSACTION : different path with INVITE, INFO, MESSAGE TRANSACTION_USER : same path with INVITE, INFO, MESSAGE System will be restarted after Save.	TRANSACTION/ TRANSACTION_USE R	TRANSACTI ON_USER
Capacity Level	TLS session maintenance rate, maximum 70%. System will be restarted after Save.	0 - 100	70
Connection Reuse (TLS)	TLS session maintain or not.	OFF ON	ON
System Cert File Format	The system supports two certification formats Privacy- Enhanced Electronic Mail (PEM) or Distinguished Encoding Rules (DER).	PEM(Normal) DER (Normal)	PEM (Normal)
System Cert Key password	Password to encrypt private key.	Max. 16 characters	

Table 4.4.8.1-1 SIP Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
TLS Security	Change password that is used to encrypt TLS certification periodically.	OFF ON	OFF
SRTP Security	Allow only SRTP call (blocking none SRTP call).	OFF ON	OFF
	SIP Message blocking option		
IP AUTH USAGE	ON: Discard SIP Request (INVITE, REGISTER, NOTIFY, OPTIONS, MESSAGE) if VIA IP and From IP are neither the server IP nor SIP Extension IP.	OFF ON	ON
Remote Register	ALLOW: proceed REGISTER from remote site. DENY: Discard all remote REGISTER. (It is applied with IP AUTH USAGE ON)	ALLOW/ DENY	ALLOW
REGISTER Check Time	Time interval to check invalid remote REGISTER flooding. (It is applied with IP AUTH USAGE ON and Remote REGISTER ALLOW)	0~3600 (Sec.)	0
REGISTER Threshold	Threshold value to decide if it is invalid remote REGISTER flooding. (It is applied with IP AUTH USAGE ON and Remote REGISTER ALLOW)	0~60000	0
REGISTER Lock Time	Time interval to discard remote REGISTER if it is REGISTER flooding state. (It is applied with IP AUTH USAGE ON and Remote REGISTER ALLOW)	0~250 (Min.)	0
	SIP SMS Option		
SMS Domain	Domain Name used for sending SIP SMS	Max. 32 characters	
SMS request URI	Request URI for sending SIP SMS. This is only for Korea telecom.	Max. 32 characters	1549
SMS Mode	Assign SMS mode(normal or external) This is only for Korea telecom.	Normal, External	Normal
	SIP FAX Option		
Start w/ G.711 Fax	G711 Fax path through Mode. G711 will be negotiated as voice path and Fax will send this voice path.	OFF ON	OFF
G.711 Fax method	G711 Fax Mode. VBD – VBD codec attribute will be added in SDP.	711A/711U/711A(VBD) .711U(VBD)	711A
T38 FAX Failover(711)	When T38 Negotiation is failed, G711 Codec will be used for Fax Transmission.	OFF ON	OFF
	Miscellaneous Option		
OCS Prefix Code	When the server type assigned for a SIP Trunk is OCS, the system will send these digits as a prefix to the number in the SIP "To:" header.	Max. 8 Digits	
SIP Pound Use	SIP employs Enblock dialing where the user dials all digits before they are sent to the carrier for processing. When the user completes dialing of a SIP call, '#' is used to indicate end of dialing. If users must be able to dial '#', SIP Pound Use can be disabled and the system will automatically send digits at expiration of the inter-digit time.	OFF ON	OFF
BLF SYNC NOTIFY Timer	When the system reboots, the button LEDs of SIP phones may indicate erroneous status. To display proper status LEDs, the system sends a Notify message to	10-360	10

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	synchronize the LED states at expiration of this timer.		
SRTP PATH(SIPEXT)	For SIP extensions connected to the same LAN as the system, the SRTP path can be established through a VoIP channel (Packet Relay) or directly between the end-points.	VOIM RELAY or DIRECT	VOIM RELAY
DNS SRV Usage	The system can be configured to query the DNS for the SRV resource record, which defines domains for various services.	OFF ON	OFF
Out OF Rsc Response	When the system has no resources available for the SIP Request, the system will respond with this code.	503/ 486	503
Error Code For Trunk Rerouting	If iPECS system receives this Error Code in response to a request, the call will be rerouted. The semi-colon (;) is used to separate multiple SIP message codes.		
	SIP QOS Option		
SIP QOS Method Selection	For SIP messages, the system can employ Diff Serv or TOS to implement QoS.	DSCP/ TOS	TOS
SIP Signal DSCP value	When Diff Serv is selected as the QoS method, the DSCP value for SIP signaling messages is defined.	0~63	0
SIP Signal TOS value	When TOS is selected as the QoS method, the TOS value for SIP signaling messages is defined.	0~7	5
RTP DSCP value	When DSCP is selected as the QoS method, the DSCP value for RTP packets is defined.	0~63	0
RTP TOS value	When TOS is selected as the QoS method, the TOS value for RTP packets is defined.	0~7	5
	SIP T-NET Option		
CM Prefix	Korea Telecom only, when employing an iPECS system as the CM, iPECS system will require a Prefix to set-up a SIP trunk call.	Max. 4 Digits	
CM Prefix Method	Korea Telecom only, enables the Prefix method for processing a call with a SIP trunk through iPECS system.	Normal, With prefix	Normal
	SIP Trunk Register Option		
Register Retry Timer	When registration fails, iPECS system attempts to register periodically at intervals of this timer.	20~3600	60
Option Check number	Korea Telecom only, a SIP Options message is used for redundancy. If the system does not respond to the Option message after the number of attempts, the redundant server becomes active	1~20	1
Option Check Interval	Korea Telecom only, a SIP Options message is used for redundancy. The Option message is sent at intervals of this timer.	20~3600	20
	SIP Alarm Server Option		
Alarm Server Usage	If this value is changed, all WTIB will restart.	OFF/ON	OFF
Alarm Server Address	Enter the alarm server address up to 32 characters.	Max. 32 characters	
Alarm Server UDP	Default UDP port for Alarm server.	Port	5060

Table 4.4.8.1-1 SIP Common Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Port			
Alarm Server Check Usage	If IPECS doesn't receive reply for this option 3 consecutive times, will not send Message and Information to Alarm server. PGM 210 check message send timer.	OFF/ ON	OFF
Terminal State Announcement	Information (Terminal state) is sent to Alarm server if this value is ON, not sent to Alarm server if this value is OFF.	OFF/ ON	OFF
600BE Channels for Alarm	The number of 600BE channels reserved for Alarm SMS.	0~1	0

 Table 4.4.8.1-1 SIP Common Attributes

4.4.8.2 SIP Trunk Status Overview

Selecting SIP Trunk Status Overview displays the overview page. The page displays the Proxy, Domain, etc. for the SIP Trunks configured in PGM 133.

PGM Base Function Base	K Favorite PG	SM SIP Trunk St X		
Q PGM Search	Index Proxy A	ddress Domain COL Range S	IP Group UID Range State UIDSEL	
	1	-	-	
System ID & Numbering Plans	2	-	-	
Station Data	3	-	-	
	4	-	-	
Board Based Data	5	-	-	
CO Line Data	6	-	-	
CO Line Data	7	-	-	
System Data	8	-	-	
	9	-	-	
Station Group Data	10	-	-	
ISDN Line Data	11	-	-	
ISDN LINE Data	12	-	-	
SIP Data v	13	-	-	
	14	-	-	
SIP Common Attributes(210)	15	-	-	
SIP Trunk Status Overview	16	-	-	
SIP CO Attributes(133)	17	-	-	
SIP Registration Status Overview	18	-	-	
SIP UID Alloc Status Overview	19	-	-	
SIP User ID Attributes(126)	20	-	-	
SIP Phone Attributes(211)	21	-	-	
SIP Phone Provisioning(212)	22	-	-	
Provisioning File View&Delete	23	-	-	
VMEX Station Data(215)	24	-	-	
VMEX Connection Table(216)	25	-	-	
VMEX Connection Table(210)	26	-	-	
Tables Data	27	-	-	
	28	-	-	
Networking Data	29	-	-	
	30	-	-	
H.323 Routing Table	31	-	-	
T-NET Data	32	-	-	
	▼ 33	_		

Figure 4.4.8.2-1 SIP trunk status overview

4.4.8.3 SIP CO Attributes - PGM 133

Selecting SIP CO Attributes returns the SIP CO Attributes data input page. Enter the CO Range and click **[Load]** to enter attribute values. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

PGM Base Function Base	<	Favorite	PGM SIP CO Attributes(133) X				
PGM Search O	Enter C	O Range (1 - 9	98) : [Load			Save
System ID & Numbering Plans	CO Rat	nge 1					UnRegister
Station Data	Order	Check All	Attribute	Value	ŧ.	Range	Univegister
6046645755	1	0	Soft Switch Type	Normal •			
Board Based Data	2	0	Proxy Server Address			IP Address	
CO Line Data	3	(C)	Use Outbound Proxy	OFF .			
	4	0	Connection Mode	UDP ·			
System Data	5	0	Caller Name Service	Use 🔹			
Station Group Data	6	0	181 Being Forwarded	Unused *			
ISDN Line Data	7	0	100 rel	OFF .			
ISON CITY Data	8	0	Use single codec only	OFF ·			
SIP Data 🗸	9	-0	Use rport method	OFF .			
SIP Common Attributes(210)	10	0	Domain			Max 40 Characters	
SIP Common Attributes(210) SIP Trunk Status Overview	11		Invite Acceptance	From All			
SIP CO Attributes(133)	12	8	Contact Address Domain	SIP Device Addr ·			
SIP Registration Status Overview	13	0	From Address Domain	Server Domain •			
SIP UID Alloc Status Overview	14	0	Firewall IP Apply	ON Y			
SIP User ID Attributes(126)	15	0	Diversion Recursing	Recursing *		302,Blind Transfer	
SIP Phone Attributes(211)	16	10	VSF Answer Response	200 OK •			
SIP Phone Provisioning(212)	17	153	RTP Diversion Method	Recursing •			
Provisioning File View&Delete	18	0	OPTIONS Usage(Keep Alive)	OFF .		PGM210 Check Message Send Timer	
VMEX Station Data(215)	19	0	Proxy Registration Timer	3600		1-65535	
VMEX Connection Table(216)	20	0	Proxy Server UDP Port	5060		Port(1-65535)	
Tables Data	21	0	Proxy Server TCP Port	5060		Port(1-66535)	
	22	0	Proxy Server TLS Port	5061		Port(1-65535)	
Networking Data	23	0	Registration UID Range			Max 2400 Entries	
H 323 Routing Table	24	0	DTMF Type	INBAND	•		
T-NET Data	25	10	Action with REG Failure	IDLE •		CO State	

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

Figure 4.4.8.3-1 SIP CO Attributes

Various parameters must be entered for proper operation of SIP Trunk including the SIP proxy and Registrar as outlined in the following table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Soft Switch Type	Allows identification of soft-switch to support extended soft-switch capabilities. KT, SK TELINK, etc.: Service Provider.	Normal/ Broadsoft/ KT/ SK TELINK/ KT-C/ MS OCS/ SKYPE CONNECT/ SIP-CC/ TI PK0/ ERICSSON IMS/ DNS REDUNT(Tele2)/ MS LYNC KT-CENTREX	Normal

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Proxy Server Address	SIP Proxy server IP address up to 64 characters.	IP address	
Use Outbound Proxy	The SIP module will communicate only to SIP Proxy Server. In this case, destination address of all communication will be the IP of SIP Proxy Server. Use Outbound Proxy flag should be 'OFF' when you use that SIP module for channels of 3rd-party SIP Extensions.	OFF/ ON	OFF
Connection Mode	This field establishes the SIP connection mode as UDP, TCP or TLS for SIP signaling messages.	UDP/TCP/ TLS	UDP
Caller Name Service	The caller name may be included in SIP messages. When included, the name can display in the LCD of iPECS IP and LDP Phones. In addition, the Contact Display Name assigned to the SIP User Id (PGM 126) will be sent in the SIP message.	Unused / Use	Use
181 Being Forwarded	A SIP 181 Message is sent when a call is being redirected or forwarded, if enabled.	Unused / Use	Unused
100rel support	To improve reliability of Provisional SIP messages, the system is configured to send and expect to receive an ACK response to such messages.	OFF ON	OFF
Use single codec only	During capabilities negotiation, the system sends the first priority codec id or the prioritized list of codecs as defined in the Codec priority settings below.	OFF ON	OFF
Use rport method	When employed behind a NAPT server, the system can use the Rport parameter in the SIP Via header to request the SIP server respond to the IP address and port of the originator.	OFF ON	OFF
Domain	Domain name of the Service Provider's SIP Call server that is used in SIP "To:" headers.	Max. 40 characters	
Invite Acceptance	The system can accept SIP INVITE requests from any domain or only from the "Domain" specified above.	Domain Only / From All	From All
Contact Address Domain	The system will populate the SIP "Contact" header Domain with either the iPECS device IP address or the "Domain" specified above.	SIP Device Addr/ Server Domain	SIP Device Addr
From Address Domain	The system will populate the SIP "From" header Domain with either the iPECS device IP address or the "Domain" specified above.	SIP Device Addr/ Server Domain	Server Domain
Firewall IP Apply	When the iPECS system and VoIP devices are assigned a Firewall IP address, the system can use either the Firewall or local IP address in the Via and Contact headers as well as in SDP messages.	OFF ON	ON
Diversion Recursing	When a SIP call is redirected by a 3xx Diversion response such as when a call forwards, the SIP message can be forked (recursing) or forwarded (non-recursing).	Recursing / Non-Recursing	Recursing
VSF Answer Response	The system can respond to a SIP Invite with a SIP 183 Session Progress message. This allows a VSF	183 Msg. 200 OK	200 OK

Table 4.4.8.3-1 SIP CO ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	announcement to play and user dialed digits to be analyzed by CCR and, if the CCR destination is an external number, the system can send a SIP 3xx call diversion message to forward the call via the SIP network.		
RTP Diversion Method	Reserved Currently.	Recursing / Non-Recursing	Recursing
OPTIONS Usage (Keep Alive)	With "OPTIONS Usage" ON, an Option message is sent at intervals of the Check Message Send Timer assigned in PGM 210 to assure a connection with the SIP CO. SIP COs generally provide an Option message. In this case, the UCP should not be enabled here.	OFF ON	OFF
Proxy Registration Timer	Periodically, the system must re-register with the SIP Registrar. While this timing is often negotiated with the Registrar, the system can be configured with this timer to establish the re-register interval.	1-65535	3600
Proxy Server UDP Port	When employing UDP transport, this port number is employed for messages to the SIP proxy.	Port	5060
Proxy Server TCP Port	When employing TCP transport, this port number is employed for messages to the SIP proxy.	Port	5060
Proxy Server TLS Port	When employing TLS transport, this port number is employed for messages to the SIP proxy.	Port	5061
Registration UID Range	The User Id indices from the SIP User ID Attributes Table PGM 126 that will register with the SIP Service Provider's SIP Registrar must be configured.	Max. 140 Entries	
DTMF Type	DTMF dialing signals can be sent from the system using in-band or various Info messages. The method or type must match the SIP Call Server.	INBAND/ 2833/ INFO (DTMF)/ INFO (DTMF RELAY)/ INFO(TELEPHON E EVENT)/ INFO(NORTEL NETWORKS)	INBAND
Action with REG Failure	When registration fails, the link is down to the SIP Call server, or the system receives no response to an Invite message in the "Call Setup No-response" timer below, the call will return error tone (Wait Idle), or Fail-over to a Line from the Fail-over CO Group specified below (Idle).	IDLE/ WATI IDLE	IDLE
Media Port	The UDP ports used for RTP (media) packets can be limited to a fixed range.	UDP Port	eMG80:6000- 7036 eMG800:6000- 14400 UCP:6000- 19972

ATTRIBUTE		RANGE	DEFAULT
ATTRIBUTE		KANGL	
	Secondary Proxy Server		
Secondary Proxy Server	It is used for SIP proxy server redundancy.	IP Address	
Address	KOREA telecom only. It is used for SIP proxy server redundancy.	Max. 32	
Secondary Domain	KOREA telecom only.	Characters	
Secondary Proxy Server	It is used for SIP proxy server redundancy.	Characters	
UDP Port	KOREA telecom only.	Port	
	ID Presentation Option		
	ID Usage		
	The system normally provides a P-Asserted ID in		
P-Asserted-ID	SIP messages. The system can be configured not	Unused	Use
	to provide the header.	Use	_
	The system normally provides a Remote-Party-ID in	L la constant	
Remote-Party-ID	SIP messages. The system can be configured not	Unused Use	Use
	to provide the header.	Use	
		Anonymous	
		Name &	
		Anonymous	
		Number/	
	SIP employs various headers that include a User Id	Anonymous	Anonymous
Privacy(CLIR)	and Name. In some cases, it may desirable to	Name/	Name &
Presentation	restrict the called party from receiving this	Privacy: user/	Anonymous
	information. Several options for Caller Id restriction	Privacy: id/	Number
	can be applied.	Privacy:	
		user;id;critical/	
		Privacy: id &	
		anonymous & P- Preferred-ID	
	ID Individuality		
CID Password	Enter CID Password.		
	The Id in the "From" header of SIP messages can		
	be based on the calling station, the User Id or a		
	fixed User Id.		
	Extension SIP User Id: one of three SIP User		
	Ids assigned to the station in PGM 111. Select	Extension SIP-	
	which of the three indices to use in the SIP UID	User-ID Table/	
	Selection below.	Extension	
- 15	Extension outgoing CLI: the CLI configured for	outgoing-CLI/	Extension SIP-
From ID	the station through Web PGM 113 and 151.	Authorized	User-ID Table
	Authorized Representative Id: the User Id of the	Representative	
	"Authorized Representative Id" assigned to the SIP	ID/	
	User Id that is indexed to the station in PGM 111.	Fixed Table	
	The specific index is selected below as the SIP UID		
	Selection.		
	Fixed Table: the SIP User ID from the SIP UID		
Fixed Table Index attribute assigned below.			
	The "Display" field of the "From" header can be	SYS RULE/	SYS RULE
From Display	configured to use the below:	Extension	SISKULL

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	System Rule: a. From ID = Extension SIP User-ID Table, display Contact Display Name from PGM 126, otherwise display Station Name from PGM 111 or blank. b. From ID = Extension Outgoing CLI, display Station Name from PGM 111 or blank. c. From ID = Authorized Rep Id, display Contact Display Name of Authorized Rep Id from PGM 126 otherwise display Station Name from PGM 111 or blank. d. From ID = Fixed Table display Contact Display Name from PGM 126 or Station Name from PGM 111 or blank. Extension outgoing CLI: the CLI configured for the station through Web PGM 113 and 151	outgoing-CLI	
P-Asserted-ID	The Id in the "P-Asserted Id" header of SIP messages can be based on the calling station, the User Id or a fixed User ID. Ext SIP User ID: one of three SIP User Table indices assigned to the station in PGM 111. Select which of three in the SIP UID Selection below. Extension outgoing CLI: the CLI configured for the station through Web PGM 113 and 151. Authorized Representative ID: the User Id of the "Authorized Representative ID" assigned to the SIP User Id that is indexed to the station in PGM 111. The specific index is selected below as the SIP UID Selection. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below.	Extension SIP- User-ID Table/ Extension outgoing-CLI/ Authorized Representative ID/ Fixed Table	Extension SIP- User-ID Table
P-Asserted-ID Display	 The "Display" field of the "P-Asserted Id" header can be configured to use the below: System Rule: a. P-Asserted ID = Extension SIP User-ID Table, display Contact Display Name from PGM 126, otherwise display Station Name from PGM 111 or blank b. P-Asserted ID = Extension Outgoing CLI, display Station Name from PGM 11 or blank c. P-Asserted ID = Authorized Rep Id, display Contact Display Name of Authorized Rep Id from PGM 126 otherwise display Station Name from PGM 126 otherwise display Station Name from PGM 111 or blank d. P-Asserted ID = Fixed Table display Contact Display Name from PGM 126 or Station Name from PGM 111 or blank d. P-Asserted ID = Fixed Table display Contact Display Name from PGM 126 or Station Name from PGM 111 or blank Extension outgoing CLI: the CLI configured for the station through Web PGM 113 and 151. 	SYS RULE/ Extension outgoing-CLI	SYS RULE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Contact ID	The Id in the "Contact ID" header of SIP messages can be based on the calling station, the User Id or a fixed User ID. Ext SIP User ID: one of three SIP User Table indices assigned to the station in PGM 111. Select which of three in the SIP UID Selection below. Extension outgoing CLI: the CLI configured for the station through Web PGM 113 and 151. Fixed Table: the SIP User Id from the SIP UID Fixed Table Index attribute assigned below	Extension SIP- User-ID Table/ Extension outgoing-CLI/ Fixed Table	Extension SIP- User-ID Table
Remote-Party-ID	The Id in the "Remote-Party ID" header of SIP messages can be based on the calling station, the User Id or a fixed User Id. Ext SIP User ID: one of three SIP User Table indices assigned to the station in PGM 111. Select which of three in the SIP UID Assignment section below. Extension outgoing CLI: the CLI configured for the station through Web PGM 113 and 151. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below.	Extension SIP- User-ID Table/ Extension outgoing-CLI/ Fixed Table	Extension SIP- User-ID Table
	Offnet Call Route ID Transit		
	CO to Offnet Direct Call Route		
The below applies to c	alls routed from a CO/IP Line to an Off-net location	by the system ov	er a SIP Trunk.
From/Contact ID	The ID in the "From" and "Contact" headers of SIP messages employ System Attendant CLI, the original CLI or a fixed User Id. Sys Atd: the CLI configured for the System Attendant through Web PGM 113 and 151. Original CLI: the CLI received by the system for the original incoming call. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below.	SYS ATD/ Original CLI/ Fixed Table	SYST ATD
From Display	The "Display" field of the "From" header can be configured to use the below: System Rule: a. From ID = System Atd, display Contact Display Name from PGM 126, otherwise display Attendant Station Name from PGM 111 or blank. b. From ID = Original CLI, display the Name in received by the system for the original call. c. From ID = Fixed Table display Contact Display Name from PGM 126 or Station Name from PGM 111 or blank. Original CLI: the CLI received by the system for	SYS RULE/ Original CLI	SYS RULE
P-Asserted-ID	the original incoming call. The ID in the "P-Asserted ID" header of SIP messages can be based on the System Attendant, the Original CLI or a fixed User ID.	SYS ATD/ Original CLI/ Fixed Table	SYST ATD

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	Sys Atd: CLI: the CLI configured for the System Attendant through Web PGM 113 and 151. Original CLI: the CLI received by the system for the original incoming call. Fixed Table: the SIP User Id from the SIP UID Fixed Table Index attribute assigned below.		
P-Asserted-ID Display	The "Display" field of the "P-Asserted Id" header can be configured to use the below: System Rule: a. P-Asserted ID = System Atd, display Contact Display Name from PGM 126, otherwise display Attendant Station Name from PGM 111 or blank. b. P-Asserted ID = Original CLI, display the Name in received by the system for the original call. c. P-Asserted ID = Fixed Table display Contact Display Name from PGM 126 or Station Name from PGM 111 or blank. Original CLI: the CLI received by the system for the original incoming call.	SYS RULE/ Original CLI	SYS RULE
Remote-Party-ID	The Id in the "Remote-Party ID" header of SIP messages can be based on the System Attendant, the Original CLI or a fixed User ID. Sys Atd: the CLI configured for the System Attendant through Web PGM 113 and 151. Original CLI: the CLI received by the system for the original incoming call. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below.	SYS ATD/ Original CLI/ Fixed Table	Original CLI
Diversion	The Id in the "Diversion" header of SIP messages can be based on the System Attendant, the Original CLI or a fixed User ID, or Unused. Unused: no Diversion header provided. Sys Atd: the CLI configured for the System. Attendant through Web PGM 113 and 151. Original CLI: the CLI received by the system for the original incoming call. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below.	Unused/ SYS ATD/ Original CLI/ Fixed Table	Unused
Offnet Call Forward by Station The below apply to calls routed from a CO/IP Line to an Off-net location by a station over a SIP Trunk.			
From/Contact ID	The Id in the "From" and "Contact" headers of SIP messages employ the forwarding Station, the original CLI or a fixed User ID. Extension: the Extension SIP User ID or Extension Outgoing CLI as assigned for the From ID under ID Individuality. Original CLI: the CLI received by the system for the original incoming call.	Extension/ Original CLI/ Fixed Table	Extension

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
	Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below.			
From Display	The "Display" field of the "From" header can be configured to use the below: System Rule: a. From ID = Extension, display Contact Display Name from PGM 126, otherwise display Station Name from PGM 111 or blank. b. From ID = Original CLI, display the Name in received by the system for the original call. c. From ID = Fixed Table display Contact Display Name from PGM 126 or blank. Original CLI: the CLI received by the system for the original incoming call.	SYS RULE/ Original CLI	SYS RULE	
P-Asserted-ID	The Id in the "P-Asserted ID" header of SIP messages employ the forwarding Station, the original CLI or a fixed User ID Extension: the Extension SIP User ID or Extension Outgoing CLI as assigned for the From ID under ID Individuality. Original CLI: the CLI received by the system for the original incoming call Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below.	Extension/ Original CLI/ Fixed Table	Extension	
P-Asserted-ID Display	The "Display" field of the "P-Asserted Id" header can be configured to use the below: System Rule: a. P-Asserted ID = Extension, display Contact Display Name from PGM 126, otherwise display Station Name from PGM 111 or blank. b. P-Asserted ID = Original CLI, display the Name in received by the system for the original call. c. P-Asserted ID = Fixed Table display Contact Display Name from PGM 126 or blank. Original CLI: the CLI received by the system for the original incoming call.	SYS RULE/ Original CLI	SYS RULE	
Remote-Party-ID	The Id in the "Remote Party ID" header of SIP messages employ the forwarding station, the original CLI or a fixed User ID. Extension: the Extension SIP User ID or Extension Outgoing CLI as assigned for the From ID under ID Individuality. Original CLI: the CLI received by the system for the original incoming call. Fixed Table: the SIP User Id from the SIP UID Fixed Table Index attribute assigned below.	Extension/ Original CLI/ Fixed Table	Extension	
Diversion	The Id in the "Diversion" header of SIP messages can be based on the forwarding station, the Original CLI or a fixed User ID, or Unused.	Unused/ SYS ATD/ Original CLI/	Unused	

Table 4.4.8.3-1 SIP CO ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	Unused: no Diversion header provided.	Fixed Table	
	Extension: the Extension SIP User ID or		
	Extension Outgoing CLI as assigned for the From		
	ID under ID Individuality.		
	Original CLI: the CLI received by the system for		
	the original incoming call.		
	Fixed Table: the SIP User ID from the SIP UID		
	Fixed Table Index attribute assigned below.		
	Mobile Extension External Call		
The b	elow applies to calls routed to a Mobile Extension of	over a SIP Trunk	
	The Id in the "From" and "Contact" headers of SIP		
	messages employ the calling station, the original		
	CLI or a fixed User ID.		
	Extension: the Extension SIP User ID or	- · · · /	
	Extension Outgoing CLI as assigned for the From	Extension/	F otomolou
From/Contact ID	ID under ID Individuality.	Original CLI/	Extension
	Original CLI: the CLI received by the system for	Fixed Table	
	the original incoming call or Station number for ICM		
	call. Fixed Table: the SIP User ID from the SIP UID		
	Fixed Table Index attribute assigned below. The "Display" field of the "From" header can be		
	configured to use the below:		
	System Rule:		
	a. From ID = Extension, display Contact		
	isplay Name from PGM 126, otherwise display		
	Station Name from PGM 111 or blank.		
From Display	b. From ID = Original CLI, display Station	SYS RULE/	SYS RULE
	Name from PGM 111 for ICM call or the Name in	Original CLI	
	received by the system for the original outside call.		
	c. From ID = Fixed Table display Contact		
	Display Name from PGM 126 or blank.		
	Original CLI: the CLI received by the system for		
	the original incoming call.		
	The Id in the "P-Asserted Id" header of SIP		
	messages employ the calling station, the original		
	CLI or a fixed User ID.		
	Extension: the Extension SIP User ID or		
	Extension Outgoing CLI as assigned for the From	Extension/	
P-Asserted-ID	ID under ID Individuality.	Original CLI/	Extension
	Original CLI: the CLI received by the system for	Fixed Table	
	the original incoming call or station number for ICM		
	call.		
	Fixed Table: the SIP User ID from the SIP UID		
	Fixed Table Index attribute assigned below.		
	The "Display" field of the "P-Asserted ID" header		
P-Asserted-ID Display	can be configured to use the below:	SYS RULE/	SYS RULE
	System Rule:	Original CLI	
	a. P-Asserted ID = Extension, display Contact		

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
ATTRIDUTE		RANGE	DEFAULT	
	Display Name from PGM 126, otherwise display Station Name from PGM 111 or blank. b. P-Asserted = Original CLI, display Station Name from PGM 111 for ICM call or the Name in received by the system for the original outside call. c. P-Asserted = Fixed Table display Contact Display Name from PGM 126 or blank. Original CLI: the CLI received by the system for the original incoming call. The Id in the "Remote Party Id" header of SIP			
Remote-Party-ID	messages employ the Station CLI, the original CLI or a fixed User ID. Extension: the Extension SIP User ID or Extension Outgoing CLII as assigned for the From ID under ID Individuality. Original CLI: the CLI received by the system for the original incoming call or station number for ICM call. Fixed Table: the SIP User ID from the SIP UID Fixed Table Index attribute assigned below.	Extension/ Original CLI/ Fixed Table	Extension	
Diversion	The Id in the "Diversion" header of SIP messages can be based on the calling station, the Original CLI or a fixed User ID, or Unused. Unused: no Diversion header provided. Extension: the Extension SIP User ID or Extension Outgoing CLII as assigned for the From ID under ID Individuality. Original CLI: the CLI received by the system for the original incoming call or the station number for ICM call. Fixed Table: the SIP User Id from the SIP UID Fixed Table Index attribute assigned below.	Unused/ SYS ATD/ Original CLI/ Fixed Table	Unused	
	SIP UID Assignment			
SIP User ID Fixed Table Index	When a header is assigned to use "Fixed Table", the ID from this SIP User ID (PGM 126) Table index is used.	Index		
SIP User ID SELECTION	When a header is assigned to use the "Extension SIP-User-ID Table", the SIP User ID is selected using this SIP UID index in the Station Attributes (PGM 111).	Index, Index 2, Index 3	SIP User Table Index	
	External CODEC Priority Configuration			
1 st ~5 th priority	 1st. priority 2nd. priority 3rd. priority 4th. priority 5th. Priority 1. If specify priority to a specific CODEC then it will work for negotiation RTP data. 2. If only 1st. priority is specified and the others are 	None/ g.711-u/ g.711-a/ g.723.1/ g.729/ g.729-a/ g.722	none	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	none, then it will work as single CODEC only does.		
	SIP Call Setup Failover Option		
Call Setup No Response	When the system initiates a SIP Trunk call and receives no response from the SIP proxy server, after expiration of this timer the SIP call is canceled and a Fail-over call placed on the Fail-over CO/IP Line group specified below. Note the timer can be set at 3 to 15 seconds and '0', which disables Fail- over.	0, 3 ~ 15 sec	5sec
Failover CO Group Number	When the system attempts to initiate a SIP Trunk call and the SIP Trunk is in an OOS state or the SIP proxy server does not respond in the No Response time above, the system will cancel the SIP call and place a call over a CO/IP Line from this group.	eMG80:1 ~ 21 eMG800:1~201 (Max. Numbers of CO Group)	none
	SIP Session Timer		
Session Timer Usage	During a SIP call or "session", there are no signaling packets sent or received from the SIP Call server. In order to assure a session is still active, the system can periodically send an Option message that the SIP Call server should acknowledge.	ON/OFF	OFF
Session Timer Value	When "Session Timer Usage" is enabled, the system will verify the session at this timer interval.	90~ 3600	360
Min SE	During negotiation with "Session Timer Usage" enabled, the system will use this value as the minimum Session expiration timer and will not respond to a SIP Option message prior to expiration of this timer.	90~ 3600	90
	URI Formatting and Rules	·	
	General Formatting		
To Field Method	The SIP "To:" header is formatted using the SIP or Telephony method as shown below. sip: method/ SIP method sip:: method/ To: < sip:[Number]@[Domain];user=phone > tel: method Telephony method tel: method To: < tel:+[Number] >Domain tel: method When assigned the Telephony method for the "To" header, the number format can be: Local - [tel:+Number]@[Domain] or Global (+E164) - [tel:+E.164 Local/ Address]@[Domain] E.164 Address: Nation + Area Code + Number Sip: method/		SIP: method
Numbering Format			Local
Local: include Area Code	The Area code (PGM 143) can be added as a prefix if the 'Numbering Format' is set as Local. Example: user dials '8701234' and the Area code is '042' The resulting "To" field URI is	Yes No	No

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	tel:+0428701234@[Domain]		
Global: include phone- context	If the 'Numbering Format' is Global and the 'To Field Method' is Telephony, the 'phone-context' can be added as below. user dials '0011428701234' from Country code 82 The resulting "To" field URI is, tel:+0011428701234@[Domain];phone-context=+82	Yes No	No
	Specific Formatting by Conversion (examp	le)	
From 4 digits	To 6 digits	User Dial	Result
0	+82	0314504639	+82314504639
00	+	0082314504639	+82314504639
1588	1588	15886724	15886724
031		0314504639	4504639
	SRTP Setting		
SRTP Usage	When implemented by the carrier, the system can encrypt media (RTP) packets employing SRTP (Secure Real-Time Transport Protocol). But VoIP Virtual switching channel does not support SRTP.	OFF ON	OFF
1st CRYPTO	The first priority Crypt method for SRTP. The range is as below: None ARIA_CM_192_HMAC_SHA1_80 AES_CM_128_HMAC_SHA1_80 ARIA_CM_128_HMAC_SHA1_80 AES_CM_192_HMAC_SHA1_80 ARIA_CM_256_HMAC_SHA1_80 AES_CM_256_HMAC_SHA1_80		None
2nd CRYPTO	The second priority Crypt method for SRTP. The range is as below: • None • ARIA_CM_192_HMAC_SHA1_80 • AES_CM_128_HMAC_SHA1_80 • ARIA_CM_128_HMAC_SHA1_80 • AES_CM_192_HMAC_SHA1_80 • ARIA_CM_256_HMAC_SHA1_80 • AES_CM_256_HMAC_SHA1_80		None
	Caller/Called ID		
	ID Option		
Caller ID Selection	For the purposes of display and ICLID call routing, iPECS employ this header as the "Caller ID".	P-Asserted-ID/ Remote-Party-D/ From ID	P-Asserted-ID
Display Caller Name(Though Id is Anonymous)	Even though the User ID is Anonymous, the system can display the SIP "From" header "Display Name" field for the call.	No Yes	No
Called ID Selection	For the purposes of call routing, the "SIP Request" or "To" header will be employed by the system as	Request URI/ To ID	Request URI

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT				
	the "Called Party ID".						
Miscellaneous set							
Drop Busy Station	While busy, the system can be configured to terminate a station call, and accept and connect any new call from the SIP Trunk. For special use, it is available only in Italy.	No Yes	No				
Ignore INBAND DTMF	In some situations, DTMF tones from the connected party may be received along with the DTMF Type specified above. This can cause errors in detection such as double digits. In this case, the system can be configured to ignore Inband DTMF signals. Note do not disable Inband signals if selected as the "DTMF Type" above as this may disable DTMF detection.	No Yes	No				
SIP Trunk Group	Multiple SIP User ID ranges may register with the SIP CO, for example, SIP COs from different providers. When different SIP User ID ranges are required on a SIP CO, a different SIP Trunk Group should be assigned to each range. Note this has no relationship with the CO/IP Line Group.	0~71 (0:Normal/1- 71:Check To header)	0				
Send Refer for Transfer	The system can employ the SIP Refer method to forward or transfer incoming calls to an "Off-net" location if supported by the SIP Service Provider.	No Yes	No				
CN Payload Insert	When Comfort Noise generation is desired, the system will provide a Comfort Noise Payload during periods of silence.	No Yes	No				
Ignore 180 after 183	If the option is Yes, an appropriate ring back tone may be played to the calling party when the called party's phone is alerting without changing the internal or system ring back tone. For example, when placing a call from USA to Korea, a Korean ring back tone is heard by the caller.	No Yes	No				
Add "user=phone" param	For outgoing SIP call, "user=phone" will be added in Request URI of INVITE.	No Yes	No				
Advice of Charge	When assigned, The system estimates the call cost for display on the phone with appropriate regional protocol support.	No Service, SIP AOC	No Service				

4.4.8.4 SIP Registration Status Overview

Attem ID & Numbering Plans tion Data and Based Data Line Data tem Data tem Data tem Data ton Group Data N Line Data To Group Data N Line Data P Common Attributes(210) P Trunk Status Overview P CoAttributes(123) P Registration Status Overview P UiD Alloc Status Overview P UiD Alloc Status Overview P UiD Alloc Status Overview P Uiser ID Attributes(211) P Phone Provisioning (212) ovisioning File View&Delete vEX Station Data(215) vEX Station Data(215) <th>PGM Base Function Base</th> <th>< Favorite PGM</th> <th>SIP Regist</th> <th>×</th>	PGM Base Function Base	< Favorite PGM	SIP Regist	×
tem ID & Numbering Plans 2 3 tion Data 3 4 ard Based Data 4 5 Line Data 5 6 tem Data 6 7 tem Data 9 6 N Line Data 9 6 N Line Data 10 11 Data 11 11 P Common Attributes(210) 14 14 P CoAttributes(133) 14 14 P Registration Status Overview 16 16 P UD Alloc Status Overview 18 16 P Uber ID Attributes(211) 18 12 P Phone Attributes(211) 12 13 P Phone Provisioning Cit2) 20 21 ovisioning File View&Delete 22 23 VEX Station Data(215) 25 26 VEX Station Data(215) 26 27 Ves Data 28 28 28	Q PGM Search		tration User ID	SIP Status
4 4 ard Based Data 5 Line Data 6 tem Data 7 tion Group Data 8 N Line Data 9 Data 10 Data 11 P Common Attributes(210) 11 P Trunk Status Overview 14 P CO Attributes(133) 17 P Registration Status Overview 18 P UD Alloc Status Overview 19 P User ID Attributes(210) 18 P Phone Attributes(126) 22 P Phone Provisioning(212) 23 ovisioning File View&Delete 24 MEX Connection Table(216) 25 MEX Connection Table(216) 28	System ID & Numbering Plans			
and Based Data Line Data tem Data tem Data N Line Data N Line Data Data P Common Attributes(210) P Trunk Status Overview P CO Attributes(133) P Registration Status Overview P UID Alloc Status Overview P User ID Attributes(126) P Phone Provisioning(212) ovisioning File View&Delete VEX Station Data(215) MEX Connection Table(216) Mex Data	Station Data			
Line Data 7 8 9 ition Group Data 9 10 11 N Line Data 10 11 12 Data 11 12 13 P Common Attributes(210) 14 14 14 P CO Attributes(133) 16 16 16 P VID Alloc Status Overview 16 18 19 P UID Alloc Status Overview 19 12 18 P None Attributes(126) 12 12 12 Phone Attributes(211) 19 12 12 P None Attributes(211) 12 12 12 P None Provisioning(212) 23 20 21 visioning File View&Delete 24 22 23 VEX Station Data(215) 25 26 27 Ves Data 27 28 28 28	Board Based Data	5		
9 10 11 12 13 14 15 14 15 16 17 16 17 18 19 18 19 11 12 13 14 15 16 17 18 19 19 20 21 22 23 23 23 24 25 26 27 28	CO Line Data			
10 N Line Data Data Data P Common Attributes(210) P Trunk Status Overview P CO Attributes(133) P Registration Status Overview P UID Alloc Status Overview P UID Alloc Status Overview P User ID Attributes(210) P None Attributes(211) P Phone Provisioning(212) ovisioning File View&Delete MEX Station Data(215) MEX Connection Table(216) Jes Data	System Data			
N Line Data Data P Common Attributes(210) P Trunk Status Overview P CO Attributes(133) P Registration Status Overview P UID Alloc Status Overview P UID Alloc Status Overview P User ID Attributes(210) P Phone Attributes(211) P Phone Provisioning(212) ovisioning File View&Delete MEX Station Data(215) MEX Connection Table(216) Jes Data	Station Group Data	10		
Data Image: mail of the system P Common Attributes(210) P Trunk Status Overview P CO Attributes(133) P Registration Status Overview P UD Alloc Status Overview P UD Alloc Status Overview P User ID Attributes(126) P Phone Attributes(211) P Phone Provisioning(212) ovisioning File View&Delete MEX Station Data(215) MEX Connection Table(216) Image: Status Overview P Obsection Table(216)	ISDN Line Data			
P Common Attributes(210) 15 16 P Trunk Status Overview 16 17 P CO Attributes(133) 17 18 P UD Alloc Status Overview 19 16 P UD Alloc Status Overview 19 16 P User ID Attributes(126) 20 16 P Phone Attributes(211) 21 16 P Phone Provisioning(212) 23 16 ovisioning File View&Delete 24 16 MEX Connection Table(216) 25 16 Vies Data 27 28 17	SIP Data ~			
P CO Attributes(133) P Registration Status Overview P UID Alloc Status Overview P User ID Attributes(126) P Phone Attributes(211) P Phone Provisioning(212) rovisioning File View&Delete MEX Station Data(215) MEX Connection Table(216) oles Data	SIP Common Attributes(210)	15		
P Registration Status Overview P UID Alloc Status Overview P User ID Attributes(126) P Phone Attributes(211) P Phone Provisioning(212) ovisioning File View&Delete MEX Station Data(215) MEX Connection Table(216) oles Data				
P UID Alloc Status Overview P UID Alloc Status Overview P User ID Attributes(126) P Phone Attributes(211) P Phone Provisioning(212) rovisioning File View&Delete MEX Station Data(215) MEX Connection Table(216) Des Data				
P User ID Attributes(126) 20 P Phone Attributes(211) 21 P Phone Provisioning(212) 22 rovisioning File View&Delete 23 VEX Station Data(215) 25 VEX Connection Table(216) 26 27 28				
P Phone Attributes(126) 21 P Phone Attributes(211) 22 P Phone Provisioning(212) 23 ovisioning File View&Delete 24 VEX Station Data(215) 25 VEX Connection Table(216) 26 27 28				
P Phone Provisioning(212) 22 rovisioning File View&Delete 23 MEX Station Data(215) 24 VEX Connection Table(216) 26 View Data 27 28 28				
23 24 25 26 27 28		22		
MEX Station Data(215) 24 MEX Connection Table(216) 25 26 27 28 28		23		
MEX Connection Table(216) 25 26 27 28 20		24		
26 27 28 28 28 28 28 28 28 28 28 28 28 28 28		25		
28 28	VMEX Connection Table(216)	26		
28	Tables Data	27		
working Data 29		28		
	Networking Data	29		
30	H.323 Routing Table	30		
51	n.525 Routing Table			
ET Data 32 33	T-NET Data			

Figure 4.4.8.4-1 SIP Registration status overview

4.4.8.5 SIP UID Allocation Status Overview

Selecting SIP User ID Allocation Status will display the allocation overview page. The SIP User Id Allocation Status Overview page displays the station(s) assigned to each SIP User Id index in the Station Common Attributes PGM 111.

	PGM Base Function Base		<	Favorite PGM	SIP UID AI	×
¢	PGM Search	0		Index	Stati	on
	System ID & Numbering Plans			1		
	cyclem ib a namboning riand	-1		3		
	Station Data			4		
	Board Based Data			5		
	CO Line Data			6		
	CO Line Data			7		
	System Data			8		
	Station Course Data			9		
	Station Group Data			10		
	ISDN Line Data			12		
	SIP Data			13		
<	on Data	_		14		
	SIP Common Attributes(210)			15		
	SIP Trunk Status Overview			16		
	SIP CO Attributes(133)			17		
	SIP Registration Status Overview			18		
	SIP UID Alloc Status Overview			19 20		
	SIP User ID Attributes(126)			20		
	SIP Phone Attributes(211)			22		
	SIP Phone Provisioning(212)			23		
	Provisioning File View&Delete VMEX Station Data(215)			24		
	VMEX Station Data(215) VMEX Connection Table(216)			25		
				26		
	Tables Data			27		
	Naturalian Data			28		
	Networking Data			29 30		
	H.323 Routing Table			30		
	T NET Data			32		
	T-NET Data	-		33		

Figure 4.4.8.5-1 SIP UID Allocation Status Overview

4.4.8.6 SIP User ID Attributes – PGM 126

Selecting SIP User ID Attributes will display the SIP User ID input page. Enter a valid SIP User ID Index Number range, see Station Data, and click **[Load]** to view the SIP User ID Attributes for the first index in the range. Enter new data and click **[Save]** to modify the attributes for the index range.

Enter SIP User ID Index number: eMG80: 1-140 / eMG800: 1-1200 / UCP: 1-2400

PGM Base Function Base		< F	avorite PGM	SIP User ID Attr X		×
Q PGM Search	0	Enter S	IP User ID Ir	ndex Number (1 - 2400) :	C Load	Save
System ID & Numbering Plans		SIP Us	er ID Index 1			
Station Data		Order	Check All	Attribute	Value	Range
	-1			CID Password	Go to Setting	
Board Based Data	_	1		Registration User ID		Max 64 Characters
CO Line Data	_	2		Authentication User ID		Max 64 Characters
System Data	_	3		Authentication User Password		Max 32 Characters
Station Group Data			_			Max 16
ISDN Line Data		4		Contact Number		Characters
SIP Data		5		Contact Display Name		Max 21 Characters
	-8	6		Asc Station Number		
SIP Common Attributes(210)		7		User ID Register	Provision	
SIP Trunk Status Overview		8		Authorized Representative ID Table Index	0	0 - 2400
SIP CO Attributes(133)		9		User ID Usage	OFF T	
SIP Registration Status Overview		10		Ring Route Type	ID ASSIGNED STATION	
SIP UID Alloc Status Overview	. 8	11		DID Conversion Type	DID Digit Conversion	
SIP User ID Attributes(126) SIP Phone Attributes(211)		12		Number of Digits Expected from DID Circuit Expected from DID Circuit	4	2-4
SIP Phone Provisioning(212) Provisioning File View&Delete		13		DID Digit Mask	****	4 Digits: *,#,0-9
VMEX Station Data(215)		14		SMS Received Station Number		
VMEX Connection Table(216)						

Figure 4.4.8.6-1 SIP User ID Attributes

For each station, an index to the SIP User Id Attributes Table is defined in PGM 111 Station Attributes. The SIP User Id Attributes Table defines SIP characteristics associated with the index including User ID, Authentication name, etc. These characteristics are required for proper operation of the system and registration of the iPECS IP and LDP phones when employed with SIP trunk. See also, PGM 133. Note PGM 126 and PGM 133 are accessible only via Web Admin.

Setting CID Password directly

You can set the CID password to click "Go to Setting" button. After clicking it, you will move to the following PGM 162 and set the CID password, and then save CID password to mark tick on the save box and click the Save button.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Registration User ID	This field defines the SIP User Id from by the SIP Service provider. The User Id has the format User ID@Domain. Note the domain is commonly the system IP address.	Max. 64 characters	
Authentication User ID	The SIP Service Provider may require authentication of the user for registration and at other times during call setup.	Max. 64 characters	

Table 4.4.8.6-1 SIP User ID ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	The Authentication name from the provider must be entered for proper SIP registration.		
Authentication User Password	The SIP Service Provider may require authentication of the user for registration and at other times during call setup. The Authentication password from the provider must be assigned for proper SIP registration.	Max. 32 characters	
Contact Number	The Contact header of SIP messages is populated with the specified SIP User ID.	Max. 16 characters	
Contact Display Name	The Display Name specified is used for the Contact header Name field.	Max. 21 characters	
Associative Station Number	Not used.	Station number	
User ID Register	 The SIP Trunks are provided in two formats 1) Registered: the system must register for service often using Authentication 2) Provision: the provider sends all SIP messages to a fixed IP; the system does not register for service. 	Register/ Provision	Provision
Authorized Representative ID Table Index	The User Id can be assigned an index of another User ID. When the SIP CO is configured to employ the Authorized Representative Id as the SIP "From" or "Contact" header, the indexed User ID is employed.	eMG80:0~140 eMG800:0~1200 UCP:0~2400	0
User ID Usage	If registration is enabled (User ID Register above) the iPECS can send the User ID or Authorized Representative ID to the SIP Proxy to register the ID. Otherwise, only the Authentication Name and password are used.	OFF ON	OFF
Ring Route Type	Incoming calls from a SIP trunk can be routed 1) to the ID assigned Station (any station with any of the SIP User ID Table Indices in PGM 111 matching the incoming SIP User Id), 2) based on CO/IP Ring assignments (PGM 144), 3) using DID treatment defined below, or 4) follow the MSN Table routing (PGM 145).	ID Assigned Station/ Ring Assignment/ DID Conversion/ MSN-DID Conversion(PGM 145)	ID assigned Station
DID Conversion Type	When the Ring Route above is defined as DID, the system will send the call to a destination based on the DID conversion selected here. The digits in the SIP User ID may be used "as is" to identify the desired station, modified based on the DID Digit mask below and routed to the resulting station or the modified DID number can be used as an index to the Flexible DID Conversion Table, PGM 231 to route the call.	DID Digit Conversion/ Use 'as is'/ Modify Using Flexible DID Conversion Table	Use 'as is'
Number of Digits (2-4) Expected from DID Circuit	When DID Digit Conversion or Flexible DID Conversion Table routing is used, the number of digits received is defined in this field.	2-4	3
DID Digit Mask (4digits: *,#,0-9	When DID Digit Conversion or Flexible DID Conversion Table routing is used, the digit conversion is defined in this field. For each of the four (4) digits, use "*" to accept any digit, "#" to delete the digit, or a digit 0-9 to replace the digit.	4 Digits: *, #, 0-9	#***
SMS Received Station Number	When an SMS is received for this User Id, the Station to receive the SMS must be defined.		

Table 4.4.8.6-1 SIP User ID ATTRIBUTES

4.4.8.7 SIP Phone Attributes - PGM 211

Selecting SIP Phone Attributes will display the SIP Phone input page. Enter a valid SIP Station Number or range, and click **[Load]** to view the SIP Phone Attributes for the first Station Number in the range. Enter new data and click **[Save]** to modify the attributes for a Station or range.

PGM Base Function Base	< Fa	avorite PGM	SIP Phone Attri			
PGM Search	Enter S	tation Range : (2 Load	Save
System ID & Numbering Plans	Station	Range 1000-10	45			
Station Data	Order	Check All	Attribute	Value		Range
	1		Registering Mode	Register •		
Board Based Data	2		Registration Status	Registered		
CO Line Data	3		IP Address	10.10.42.1		
	4		IP Port	5588		
System Data	5		Transport Mode	UDP		
Station Group Data	6		System SIP Port	5060		
	7		SIP Phone Type	3rd SIP V		
SDN Line Data	8		Device Register Mode	AUTO 🔻		
SIP Data v	9		Registration Timer Usage	OFF V		
	10		Registration Timer	3600		30-3600 sec
SIP Common Attributes(210)	11		Keep Alive Usage	OFF T		
SIP Trunk Status Overview	12		Retry Count	3		3-10
SIP CO Attributes(133) SIP Registration Status Overview	13		407 Authentication	ON T		
SIP UID Alloc Status Overview	14		181 Being Forwarded	OFF V		
SIP User ID Attributes(126)	15		100rel	OFF T		
SIP Phone Attributes(211)	16		Session Timer Support	OFF V		
SIP Phone Provisioning(212)	17		Max Session Timer	1800		180-3600 sec
Provisioning File View&Delete	18		Min Session Timer	90		60-150 sec
VMEX Station Data(215)	19		Within Same Firewall with UCP	ON V		
VMEX Connection Table(216)	20		SRTP Usage	OFF T		
Tables Data	21	0	1ST CRYPTO	None	•	
ables Data	22		2ND CRYPTO	None	•	
Networking Data	23		DTMF Type	INFO(DTMF RELAY)	T	
1.323 Routing Table	24		SMS TYPE			
1.525 Routing Lable	24		CO Dial Tone	OFF V		

Figure 4.4.8.7-1 SIP Phone Attributes

< Registration >

For a new registration of SIP station, input ID/PWD & Desired Station Number in PGM 443 of Station User Login Table. This SIP Phone Attributes are for Stations that are already registered to system.

- Register Mode Register/ Manual: Set Registration Time Out or Not
- Registration Status: View connection status (Disconnected or Not) for a station
- IP Address: SIP Phone's IP address
- IP Port: SIP Phone's IP Port Number
- Transport Mode: SIP signaling method
- SIP Phone Type: Automatically Assigned by System
- Device NAT Usage: Automatic Detection
- Registration Timer Usage: OFF Assign (Re-) Registration Timer by Provisioning (212), ON – Assign (Re-) Registration Timer by SIP Phone Attributes (211).
- Registration Timer: more than 10 minute recommended.
- 407 Authentication: Authentication of Registration (and Call Setup). To implement

authentication, user login Password should be available in PGM 443 for the Station.

< Keep Alive / NAT Resolution >

To keep stable information of SIP Phone's Connection, IP address and Port number that is under NAT environment, system uses 'OPTIONS' message to implement Keep Alive and assist NAT resolution - effort to maintain IP address of SIP Phone by sending message so often from system to SIP Phone. SIP Phone should be capable to answer for 'OPTIONS' message

- Check Message Sending Timer in [SIP Data / SIP Attributes (210)] : 120 seconds
- Keep Alive Usage for a SIP Station in [SIP Data / SIP Phone Attributes (211)] : ON
- Retry Count for a SIP Station in [SIP Data / SIP Phone Attributes (211)]: 3

< System Firewall Resolution >

In case of firewall routed with MPB, to distinguish remote SIP Phone that is outside of firewall from system local area a check bit is required per a SIP Station. With this check bit, system can determine whether to serve communication using firewall mapped WAN IP address of MPB or serve communication using LAN IP address of MPB/UCP.

 SIP Phones that are outside of system protect firewall : [SIP Data / SIP Phone Attributes (211)] – 'Same Firewall with MPB/UCP' to 'OFF'

< Session Timer >

To confirm talk state frequently during in talk state, system sends 'UPDATE' message to SIP Phone. If there is no response for the UPDATE message with in Maximum session timer, system will disconnect the talking call.

- [SIP Data / SIP Phone Attributes (211)] Session Timer Support : ON
- [SIP Data / SIP Phone Attributes (211)] Max Session Timer : if exceed, disconnect talking call
- [SIP Data / SIP Phone Attributes (211)] Min Session Timer: minimum guard timer for session timer negotiation.

< SRTP >

Voice & Video Data Encryption requires synchronization of CRYPTO method between system and SIP Phone side. If system specifies SRTP information then same information should be in SIP Phone side by Phone user programming.

SRTP usage requires a SRTP relay channel via system VOIU and VOIB/VOIM.

- [SIP Data / SIP Phone Attributes (211)] SRTP Usage: ON
 → SIP Phone self-programming is required, too SRTP ON
- [SIP Data / SIP Phone Attributes (211)] 1st CRYPTO key generation type: one of ARIA_CM_192_HMAC_SHA1_80, AES_CM_128_HMAC_SHA1_80, ARIA_CM_128_HMAC_SHA1_80
 CIP December 2016 Content on the second sec
- →SIP Phone self-programming is required, too 1st/2nd CRYPTO method
 [SIP Data / SIP Phone Attributes (211)] 2nd CRYPTO key generation type: one of ARIA_CM_192_HMAC_SHA1_80, AES_CM_128_HMAC_SHA1_80, ARIA_CM_128_HMAC_SHA1_80
 - \rightarrow SIP Phone self-programming is required, too 1st/2nd CRYPTO method

< DTMF >

- 1) INFO (OUT BAND) type DTMF
 - Presented in SIP signaling message.

- INFO (SIMPLE DTMF) / INFO (NORTEL NETWORKS) / INFO (DTMF RELAY) / INFO (TELEPHONE EVENT)

- Default: INFO (DTMF RELAY)

2) TONE (INBAND) type DTMF

- Presented in RTP packet

- Additional VOIU/VOIB (VOIM) DSP channel is required to detect DTMF in RTP

- INBAND / 2833

<CO DIAL TONE>

This is to avoid double play of CO dial tone

'Set' if SIP phone plays CO dial tone by itself. If not, there will be another CO dial tone from external.

<Request URI Type>

Some SIP Phone will reject Request-URI if IP and port in domain field is different from its contact IP and port.

'Normal': IP and port number in Request URI domain field will be the real IP and port number of the SIP phone.

'KT-FMC': IP and port number in Request URI domain field will be system IP and port

<Busy Serve>

System Busy Tone: there will be a 'busy-tone' on busy state that is presented by system. Additional VOIB/VOIU/VOIM DSP channel is required.

486 Busy Message: there will be '486 busy' SIP signaling response on busy state.

<Call Initiation Mode>

For a SIP station, system can establish multiple or single call sessions. With this option system can control 'call-wait' option in system side. Normally, the SIP Phone has its 'call-wait ON/OFF' option by itself.

Options are as below:

'Multiple': for a new additional call to SIP Phone, system initiates every call for the SIP Phone regarding it is on idle state. The 'call-wait allow/deny' is decided by SIP Phone itself. 'Single': system initiates only one call for a SIP Phone. The 'call-wait' is denied by system side. So, a call to a busy SIP station will be implemented on a busy state call-control.

DESCRIPTION	RANGE	DEFAULT
Initial registration of a SIP phone is accomplished	Manual Register	Register
		nitial registration of a SIP phone is accomplished Manual

Table 4.4.8.7-1 SIP PHONE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	PGM 443. The SIP phone can be required to register with the system periodically based on the Registration Timer or the registration can be maintained without the need for the SIP phone to reregister with the system (Manual).		
Registration Status	The system will display the status of the SIP phone registration.		
IP address	The system will display the IP address of the registered SIP phone.		
IP Port	The system will display the IP port used for the registered SIP phone.		
Transport Mode	The system will display the IP transport used by the registered SIP phone for signaling messages (UDP, TCP or TLS). In case of TLS, the options configured in the SIP Common Attributes (PGM 210) apply.		UDP
System SIP Port	The system will display the system SIP Port.		
SIP Phone Type	The type of SIP phone is generally determined by the system and can be an Ericsson-LG standard SIP phones or the 3rd party SIP phone type.		3 rd SIP
Device register mode	The Register Mode determines if the SIP phone is behind a NAT server. When set in the Auto mode, the system will determine if the phone is behind a NAT server.	AUTO, NO NAT, NAT	AUTO
Registration Timer usage	When the Registration Mode is "Register", the phone must register with the system periodically. The timer that determines the period can be the Registration Timer below (ON) or, when OFF, the timer is assigned through provisioning (PGM212).	OFF ON	OFF
Registration Timer	When the Registration Timer is enabled above, the system informs the SIP phone that registration is required at intervals of this Registration Timer. If the phone does not register within the timer, the phone is placed in an Out-of-Service state until the phone registers. Note shorter times will increase LAN traffic.	30-3600	3600
Keep Alive Usage	The system will periodically send an Option message to assure a connection with the registered SIP phone. Note when separated by a NAT server, Keep-Alive should be employed to maintain the NAT table record. The Check Message Sending Timer in PGM 210 determines the frequency.	OFF ON	OFF
Retry Count	The system periodically sends an Option message to assure a connection with the registered SIP phone. If there is no response, the system sends additional Option messages, and, after the retry count, considers the SIP phone Out-of-Service.	3-10	3
407 Authentication	The system can challenge the SIP phone during registration and outgoing call set-up with a SIP 407 Authentication message requiring the SIP phone to provide the Authentication Id and password assigned in	OFF ON	ON

Table 4.4.8.7-1 SIP PHONE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	the Station Login PGM 443.		
181 Being Forwarded	N/A	OFF ON	OFF
100 rel Support	N/A	OFF	
Session Timer Support	During a SIP call or "session", there are no signaling packets sent or received from the SIP Call server. In order to assure a session is still active, the system can periodically send an Update message that the SIP Call server should acknowledge.	OFF ON	OFF
Max Session Timer	When "Session Timer Support" is enabled, the system will verify the session at this timer interval.	1800	
Min Session Timer	During negotiation with "Session Timer Support" enabled, the system will use this value as the minimum Session expiration timer and will not respond to a SIP Option message prior to expiration of this timer.	60-150	90
Within same firewall with UCP (MPB)	For a remote SIP phone, the system must communicate with the phone employing the system's "Firewall" address (OFF). Otherwise, the system employs the LAN address to communicate with the SIP phone.	OFF ON	ON
SRTP Usage	When supported by the SIP phone, the system can encrypt media (RTP) packets employing SRTP (Secure Real-Time Protocol).	OFF ON	OFF
1 st CRYPTO	The first priority cryptographic method for SRTP is selected from the below: • None • ARIA_CM_192_HMAC_SHA1_80 • AES_CM_128_HMAC_SHA1_80 • ARIA_CM_128_HMAC_SHA1_80 • AES_CM_192_HMAC_SHA1_80 • ARIA_CM_256_HMAC_SHA1_80 • AES_CM_256_HMAC_SHA1_80		None
2 nd CRYPTO	The second priority cryptographic method for SRTP is selected from the below: • None • ARIA_CM_192_HMAC_SHA1_80 • AES_CM_128_HMAC_SHA1_80 • ARIA_CM_128_HMAC_SHA1_80 • AES_CM_192_HMAC_SHA1_80 • ARIA_CM_256_HMAC_SHA1_80 • AES_CM_256_HMAC_SHA1_80		None
DTMF Type	DTMF dialing signals sent by the SIP phone must be defined for the system to detect the tones properly. For Inband DTMF, a VoIP channel is required.	INBAND, 2833, INFO(SIMPLE DTMF), INFO(NORTEL NETWORKS), INFO(DTMF	INFO(DTMF RELAY)

Table 4.4.8.7-1 SIP PHONE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		RELAY), INFO(TELEPHONE EVENT)	
SMS Type	The Short Message Service Protocol (type) must be selected to support SMS.	AUTO, Text/plan, Text/plan(KR), Xnipm+xml	AUTO
CO DIAL TONE	When the user of a SIP phone dials a CO/IP Line access code with Enblock dialing, the system can provide virtual dial tone to the user.	OFF ON	OFF
MWI NOTIFY	For compatible SIP phones, the system supports SIP Subscribe/Notify. When enabled here, the system sends Message Waiting notifications to the SIP phone.	OFF message-summary	OFF
Request URI Type	The SIP Request header Domain field can use the SIP phone's IP address and port (Normal) or for 'KT-FMC' the Request URI Domain field will be system IP and port.	Normal KT FMC	Normal
Busy Service	To indicate a busy condition to the SIP phone, the system can provide RTP packets with busy tone or the SIP 486 Busy message. Providing busy tone requires a VoIP DSP channel in the system.	System Busy Tone, 486 Busy Message	System Busy Tone
Call Initiation Mode	The system can route calls to the SIP phone while busy (Multiple). In this case, the SIP phone determines if Call Waiting is supported. Otherwise, if the SIP phone is busy, the system routes calls based on the busy treatment (Single).	Multiple, Single	Multiple
Pre Audio Connection For DTMF	The system normally provides the 183 Session Progress SIP message to establish a "Pre-audio" connection. The "Pre-audio" connection permits the system to send tones (CO dial tone or ringback tone) to the SIP phone. In addition, the SIP phone can send DTMF tones the user dials in response to CO dial tone or a remote IVR message. Some SIP phones may require the 200 OK message, which "answers" the call, to allow dialing after the call has been initiated.	183 Session Progress, 200 OK	183 Session Progress
Do Not Overwrite Station Name	 This feature can be set in case of the following Range: OFF(REG): Extension name will be updated with displayed in REGISTER message. ON: Extension name will not be updated. OFF(INV): Extension name will be updated with displayed in INVITE message. OFF(REG+INV): Extension name will be updated with displayed in REGISTER or INVITE message. 	OFF(REG), ON, OFF(INV), OFF(REG+INV)	OFF(REG)
Follow CO Enblock Process	Skip "dial tone by system" phase and deliver transparent message of CO trunk to SIP phone.	OFF ON	OFF
Suffix DID Tbl to CLI	If this option is ON, CLI is published by suffixing DID Conversion table index.	OFF	OFF
SIP Profile	Select the SIP Profile type between Default and CISCO-CP. - Default: Normal SIP phone. - CISCO-CP: CISCO SIP phone.	Default, CISCO-CP	Default

Table 4.4.8.7-1 SIP PHONE ATTRIBUTES

4.4.8.8 SIP Phone Provisioning - PGM 212

Selecting SIP Phone Provisioning will display the SIP Phone Provisioning Data input page. Select one of CONFTYPE (Ericsson-LG Enterprise SIP Phone Type) and set the attributes you want to set for those types of SIP Phones on their registration to system and press **[Save]** button.

To store provisioning files that have been uploaded to the iPECS system, press **[Store uploaded Provision files]**. To view the stored configuration files, press **[View Provision files]**. To download Provision files, press **[Download Provision files]**. To view TLS Cert. files, press **[View TLS Cert files]** button.

PGM Search O								Save Load
System ID & Numbering Plans							Store uploaded Provision	
Station Data							View Provision	Names and
							Download Provision	
Board Based Data	Order	Attribute			Value	Range		
CO Line Data	1	CONFTYPE	None	•			View TLS cen	Tilles
			Address m	ust just	be entered for Private Conf file			
System Data	2	Private Mac				Private MAC Addr		
Station Group Data				MAC add	Iress for common Conf file		View TLS cert files	
	3	Register Timer	3600			120-3600		
ISDN Line Data	4	Local UDP Port	5060			Port(1-65535)		
SIP Data 🗸	5	Local TCP Port	5060			Port(1-65535)		
6	6	Local TLS Port	5061			Port(1-65535)		
SIP Common Attributes(210)	7	Local RTP Port	23000			Port(1-65535)		
SIP Trunk Status Overview	8	Proxy TCP Port	5060			Port(1-65535)		
SIP CO Attributes(133)	9	Proxy TLS Port	5061			Port(1-65535)		
SIP Registration Status Overview	10	Transport Mode	UDP •					
SIP UID Alloc Status Overview	11	Signaling Port	5060			Port(1-65535)		
SIP User ID Attributes(126) SIP Phone Attributes(211)			Pre	ferred Vo	ice Codec Priority			
SIP Phone Provisioning(212)	1	1st priority	None	T				
Provisioning File View&Delete	2	2nd priority	None	•				
VMEX Station Data(215)	3	3rd priority	None	¥				
VMEX Connection Table(216)	4	4th priority	None	•				
				NT	P Setting			
Tables Data	1	NTP Server Address				Max 32 Characters		
	2	NTP Interval	1			0-120(Hours)		
Networking Data	3	NTP Time Zone	(GMT+	01:00)C	OPENHAGEN, DENMARK			
H.323 Routing Table	4	DST Usage	OFF .					

Figure 4.4.8.8-1 SIP Phone Provisioning

<Why?>

To pre-assign default attributes and download configuration to SIP Extensions when they register to System.

< For Who? (for all of specified Phone type or for one MAC specified Phone) >

CONFTYPE: select Phone Type / Mandatory

- < Ericsson-LG Enterprise WIT-400HE >
 - Currently MPB/UCP (TFTP only) does not proceed provisioning for WIT400H(http only) because of different method
 - \rightarrow But, WIT-400HE follows System's default provisioning by itself automatically.

- < Ericsson-LG Enterprise LIP8002 / LIP88xx/LIP-8XXXE >
 - MPB/UCP proceed provisioning for LIP8002 / LIP88xx/LIP-8XXXE
- < Other 3rd party SIP Extensions >
 - Does not proceed provisioning

<u>Private Mac</u>: specify MAC address if provisioning target is only for one specific SIP extension / Optional

< For What ? >

<u>Re-Registration Timer</u>: this will be useless if [SIP User ID Attributes (PGM 126) - Registration Timer Usage] is ON

SIP Extension's Local UDP/TCP/TLS Port number

Proxy Port: Server port number in sight of SIP Extension toward MPB/UCP

Transport: Signaling mode

SIP Extension's CODEC Priority

NTP Server and DST setting

The default volume of Speaker/Handset/Headset, maximum volume of Handset

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT							
CONFTYPE	To modify or view a Configuration file, from the drop-down, select an Ericsson-LG Enterprise SIP Phone type.		None							
MAC address must just be entered for Private Conf file										
Private MAC	There are two types of Config files, a global file for all phones of a specific type and a phone specific file. To view or modify a Phone specific file, enter the MAC address of the SIP phone.	Private MAC address								
	Don't enter MAC address for common Conf file									
Registration Timer	When the SIP User ID Attributes are configured with Registration Mode=Register and the Registration Timer Usage=OFF, this timer is used to determine the valid registration period.	120-3600	3600							
Local UDP Port	When employing UDP transport, this port number is employed for messages from the SIP phone.	Port (1-65535)	5060							
Local TCP Port	When employing TCP transport, this port number is employed for messages from the SIP phone.	Port (1-65535)	5060							
Local TLS Port	When employing TLS transport, this port number is employed for messages from the SIP phone.	Port (1-65535)	5061							
Local RTP Port	The system sends RTP packets to the SIP phone using the first port available starting with this port number.	Port (1-65535)	23000							
Proxy TCP Port	The SIP phone will send messages to the UCP system over this SIP Server port.	Port (1-65535)	5060							
Proxy TLS Port	The SIP phone will send messages to the UCP system over this SIP Server port.	Port (1-65535)	5061							
Transport Mode	The IP packet transport mode used between the system and SIP phone for signaling messages is defined as UDP, TCP or TLS. In case of TLS, the options configured in the SIP Common	UPD TCP TLS	UDP							

Table 4.4.8.8-1 SIP PHONE PROVISIONING

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	Attributes (PGM 210) apply.		
Signaling Port	When SIP phone transports the message to the system, this port number is employed for messages from the SIP phone.	Port (1-65535)	5060
	Preferred Voice CODEC Priority		
1 st priority ~ 4 th priority	When the system negotiates with the SIP phone, the Codec priority specified is employed. If only the 1st. priority Codec is defined, only that Codec is available from the phone. If the Codec is not supported by the remote party, the call will fail.	G.711-u G.711-a G.723.1 G-729 G.722	None
	NTP Setting (Need for TLS)		
NTP Server Address NTP Interval	The IP8800 series phones employ NTP to determine the time of day. The NTP server id must be configured for the phone. The phone periodically checks the NTP server to determine the	Max. 32 Characters 0-120	1
NTP Time Zone	proper time of day. The phone must be configured with the local Time Zone for proper operation and time display.	(Hours) GMT	
DST Usage	The phone must be configured to support Daylight Saving Time.	ON OFF	OFF
	DSP Setting		
Speaker Volume	The default volume level of SIP phone speaker can be set through the Config file.	1-11, 1-7 (IP8850)	6
Handset Volume	The default volume level of SIP phone handset can be set through the Config file.	1-11, 1-7 (IP8850)	6
Headset Volume	The default volume level of SIP phone headset can be set through the Config file.	1-11, 1-7 (IP8850)	6
MAX Handset Volume	The default maximum volume level of SIP phone handset can be set through the Config file.	1-11	11
	Digit Map		
Dial Tone Digit	A digit string can be defined in the Config file so that the SIP phone will provide a "Second Dial Tone" to the user.	Max. 256 Digits	
Inter Digit Timer	Inter digit timer between Dial digit in SIP Phone.	01-20 (Sec.)	3
Pause Timer	Dial Pause timer in SIP Phone.	01-20 (Sec.)	3
Digit Map	Send setup to system numbering plan.	Max. 1000	
Emergency Code	The Emergency dial code for the SIP phone can be set through the Config file.	Max. 1000	
	System Setting		
Feature Sync.	Eventure Sync. With Do Not Disturb and Call Forward feature synchronization ON, when SIP Phone changes the DND or Call Forward state, the system is informed of the change in status.		ON
Auto Idle Timer	Phone goes to idle after this timer when the phone receives disconnect message or signal from system.	00-99 (Sec.)	5
Check Domain	The IP8800 SIP Phones can be configured to verify the domain in SIP messages match the registered proxy server.	OFF ON	ON
Telnet Usage	The IP8800 series phones can support Tenet access to the CLI.	Enable	Disable

Table 4.4.8.8-1 SIP PHONE PROVISIONING

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		Disable	
WEB Usage	The IP8800 series phones incorporate a Web server for access to the phone configuration files.	Enable Disable	Disable
	Security Setting		
	The system supports two certification formats Privacy-Enhanced	PEM(Normal),	
Cert File Format	Electronic Mail (PEM) or Distinguished Encoding Rules (DER).	DER (Normal)	PEM(Normal
Crupt Mode	The system provisioning cryptosystem is configured to employ	RSA	DCA
Crypt Mode	ECC	RSA	
TLS Version	TLS (Transport Layer Security) version can be selected. The	TLS1.0	TLS1.2
	default is TLS 1.2 for strong secure.	TLS1.2	1201.2
	SIP signaling TLS encryption primary key method.		
	System will be restarted after Save.		
	The range is as below:		
First TLS Crypto	• None,	Refer to	None
	• AES_128_CBC_SHA,	description	
	• ARIA_128_CBC_SHA,		
	• AES_128_CBC_SHA256,		
	ARIA_256_CBC_SHA256		
	SIP signaling TLS encryption second key method.		
	System will be restarted after Save.		
	The range is as below:		
Second TLS	• None,	Refer to	None
Crypto	 AES_128_CBC_SHA, 	description	Nono
	ARIA_128_CBC_SHA,		
	 AES_128_CBC_SHA256, 		
	ARIA_256_CBC_SHA256		
	When implemented by the carrier, the system can encrypt	Disable,	
SRTP Usage	media (RTP) packets employing SRTP (Secure Real-Time		Disable
	Transport Protocol).	Enable	
	The first priority Crypt method for SRTP.		
	The range is as below:		
First SDTD Crusts	• None,	Refer to	None
First SRTP Crypto	 AES_CM_128_HMAC_SHA1_80, 	description	none
	 ARIA_CM_128_HMAC_SHA1_80, 		
	ARIA_CM_192_HMAC_SHA1_80		
	The second priority Crypt method for SRTP.		
	The range is as below:		
Second SRTP	• None,	Refer to	Nono
Crypto	 AES_CM_128_HMAC_SHA1_80, 	description	None
	• ARIA_CM_128_HMAC_SHA1_80,		
	ARIA_CM_192_HMAC_SHA1_80		
Save button: save	provisioning for the specified common CONFTYPE or specific SIP	Extension with	Private MAC.
	vision files button: Store the uploaded provision files.		
	n files button: download the provision files.		
	button: display all of saved provisioning information.		
	button: display all of saved TLS Cert files information.		

Table 4.4.8.8-1 SIP PHONE PROVISIONING

4.4.8.9 Provisioning File View & Delete

Selecting Provisioning File View & Delete displays a list of all the Provisioning files stored in the provisioning files directory as shown in the following figure. Note this does not included files that have been uploaded to iPECS eMG/UCP file system but not "stored" under PGM 212. To delete a file from the provisioning file directory, check the box in front of the file to be deleted then click **[Delete]**.

	PGM Base Functio	n Base	<	Favorite PGM	Provisionin	X Q
¢	PGM Search	0				
	System ID & Numbering Plans		, I	View Provisioning files	or Delete	
	Station Data			Check All	File Name	File Size
	Board Based Data					
	CO Line Data					
	System Data					
	Station Group Data					
	ISDN Line Data					
	SIP Data	~				
<	SIP Common Attributes(210)					
	SIP Trunk Status Overview	- 1				
	SIP CO Attributes(133) SIP Registration Status Overvi					
	SIP UID Alloc Status Overview					
	SIP User ID Attributes(126)					
	SIP Phone Attributes(211)					
	SIP Phone Provisioning(212)					
	Provisioning File View∇	ete				
	VMEX Station Data(215)					
	VMEX Connection Table(216)					

Figure 4.4.8.9-1 Provisioning File View & Delete

Issue 1.6

4.4.8.10 VMEX Station Data - PGM 215

Selecting VMEX Station data will display the VMEX Station Data input page as shown in the following figure. Enter a range, and click **[Load]** to view the VMEX Data for all stations in the range. Use the check boxes to indicate the VMEX Station Data to modify. After modifying the data, click **[Save]** to store the VMEX Station Data.

					Station Dat ×		
PGM Search	Enter VMEX	Station	Index	: Range (1 - 2400) :			2 Load
System ID & Numbering Plans	VMEX Static	in Index	Rang	e 1-20			
Station Data	Check All	Order	Seq	Station Number	Mobile Number	DID Number	Connection Table Proxy Address Fail
		1	1	1000			0
Board Based Data		2		1001			0
CO Line Data		3		1002			0
Durton Data		4		1003			0
System Data		5		1004			
Station Group Data		6		1005			
DN Line Data		7		1006			
		8		1007			
IP Data v		9		1008			0
SIP Common Attributes(210)		10		1009			
SIP Trunk Status Overview		11		1010			D
SIP CO Attributes(133)		12		1011			0
IP Registration Status Overview		13		1012			
SIP UID Alloc Status Overview		14		1013			
SIP User ID Attributes(126)		15		1014			0
IP Phone Attributes(211) IP Phone Provisioning(212)		16		1015			
ovisioning File View&Delete		17		1016			
MEX Station Data(215)		18		1017			
MEX Connection Table(216)		19		1018			
Data		20		1019			0

Enter VMEX Station Index Range: eMG80: 1-140 / eMG800: 1-1200 / UCP: 1-2400

Figure 4.4.8.10-1 VMEX Station Data

The Virtual Mobile Extension feature permits a remote mobile phone to act as a station within the system employing SIP. For proper operation, various parameters as shown in the following table must be configured for the Station data.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT							
Station Number	The station number of the VMEX can be modified. The VMEX station number must not conflict with other numbering plans. The station number can be modified here or in PGM 105 and is affected by the 8 Digit Table	Station Number								
Mobile Number	The Caller Id of the Mobile phone must be entered to allow the system to recognize the VMEX phone. The mobile number here must match the number in the SIP From header.									
DID Number	The DID number associated with the VMEX must be configured to allow for recognition of calls to the VMEX.									
Connection Table	An index to the Connection Table PGM 216 must be entered. One of ten indices can be assigned permitting the use of multiple SIP Call servers.	0~10								
Proxy Address	The SIP Proxy for the VMEX must be configured for access to the VMEX.									
Fail-over	The index (Station Number) of the Mobile Extension Table (PGM 236) can be assigned for Fail-over operation. In this case, the Table entry must be configured for fail-over operation.	Station Number								

4.4.8.11 VMEX Connection table - PGM 216

Selecting VMEX Connection table will display the VMEX Connection Data input page. Use the check boxes to indicate the Table index data to modify and click **[Save]** button to store.

PGM Base Function Base	1		Favorite P	GM	VMEX Connection Tabl	le(216) ×									
Q PGM Search	0													Sa	av
System ID & Numbering Plans		Check All	Index	Proxy IP	Domain Name	Port	Firewall	E164 Typ	ю	To Prefix	From/Contact Prefix	Outband Prefix	Outband Usage	Divers Usag	
Station Data		8	1			5060	Apply •	Unknown	•				OFF ·	ON	,
Board Based Data	_		2			5060	Apply •	Unknown	•				OFF	ON:	
	-8.	0	3			5060	Apply •	Unknown	•				OFF .	ON	
CO Line Data		0	4			5060	Apply *	Unknown	٠				OFF .	ON	2
System Data		0	5			5060	Apply •	Unknown	•				OFF .	ON	1
	-1	(E)	6			5060	Apply *	Unknown					OFF .	ON	1
Station Group Data	- 8	0	7			5060	Apply •	Unknown	٠				OFF .	ON	1
ISDN Line Data		0	8			5060	Apply •	Unknown	•				OFF .	ON	1
SIP Data	~	0	9			5060	Apply •	Unknown	•				OFF .	ON	1
511 0510		0	10			5060	Apply *	Unknown	•				OFF +	ON	
SIP Common Attributes(210) SIP Trunk Status Overview SIP CO Attributes(133) SIP Registration Status Overview SIP UID Alloc Status Overview SIP UID Alloc Status Overview SIP Phone Attributes(211) SIP Phone Attributes(211) SIP Phone Provisioning(212) Provisioning F& View&Delate VMEX Station Data(215)															

Figure 4.4.8.11-1 VMEX Connection Table

With VMEX, the carrier's Mobile network sends calls to and from the Mobile phone directly to the system employing a SIP Call server. For proper operation, the SIP Call server must be configured and special prefix codes must be defined for calls from and to the mobile phone.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Proxy IP	This field assigns the IP address or URL of the Service Provider's SIP Proxy server.		
Domain Name	Domain name of the Service Provider's SIP Call server that is used in SIP "To:" headers.		
Port	Normally SIP signaling messages are sent on port 5060. If desired a different port can be defined.		5060
Firewall	The iPECS system can use the Firewall address or LAN address of the iPECS system board when communicating with the VMEX.	Not/ Apply	Apply
E164	The structure of the received SIP invite To header from the VMEX can be defined for proper conversion. This field is not presently used.	Unknown International National Local	Unknown
To Prefix	A special prefix code is included in the SIP invite "To" header sent from iPECS system to the carrier's SIP Call server to identify VMEX service	3 to 5 digits	
From Contact Prefix	A special prefix code is included in the SIP invite "From" and "Contact" header sent from iPECS system to the carrier's SIP Call server to identify VMEX service	3 to 5 digits	
Outbound Prefix	A special prefix code that must be in the SIP invite "To" header received by iPECS system for calls from the VMEX. If the prefix received does not match this entry, the call is rejected.	8 digits	
Outbound Usage	Not used.		
Diversion Usage	Not used		

4.4.9 Tables Data

Selecting the Tables Data group returns the sub-menu displayed in the left frame as shown in the following figure.

	Tables Data 🗸	< Fav	vorite PGM			×
	LCR Control Attribute(220)					V
	LCR LDT(221)					Edit
	LCR DMT(222)					
	LCR Table Initialization(223)		tem Overview	System ID & Numberin	Device IP Plan(103) System ID & Numberin	Common Attributes(1 Station Data
	Digit Conversion Table(270)	System	TID & Numbern	System ID & Numberin	System ID & Numbern	Station Data
	Toll Exception Table(224)					
	Emergency Code Table(226)		le Buttons(115/ Station Data	Common Attributes(1 CO Line Data	CO/IP Ring Assignm CO Line Data	CID/CPN Attributes(151) CO Line Data
	COS Table		Station Data	CO Line Data	CO Line Data	CO Line Data
	Station Authorization Code Table(227)	System	n Attributes(16	System Password(162)	Station Group Assign	Station Group Attribu
	System Authorization Code Table(227)	S	System Data	System Data	Station Group Data	Station Group Data
	CCR Table(228)	Station	Authorization	System Authorization	Flexible DID Conversi	
	Executive/Secretary(229)		Tables Data	Tables Data	Tables Data	
	Flexible DID Conversion(231)					
	System Speed Zone(232)					
<	Auto Ring Mode Table(233)					
	Voice Mail Dialing Table(234)					
	Registration Table(235)					
	Mobile Extension Table(236)					
	IPCR Agent Table(237)					
	Dummy Dial-Tone Digit Table					
	Flexible Button Default Table(239)					
	Preset Flexible Button Default(240)					
	Networking Data					
	H.323 Routing Table					
	T-NET Data					
	Zone Data					

Figure 4.4.9-1 Tables Data

4.4.9.1 LCR Control Attributes - PGM 220

Selecting LCR Control Attributes will display the LCR Control Attributes data entry page. Click **[Save]** button after changing Value.

The LCR Tables provide a mechanism to define the database, which will route outgoing calls, particularly long distance, using the most cost effective route. User dialed digits are compared to table entries and modified appropriately based on time of day, day of week, and assigned routes. There are four LCR Tables, LCR Control Attributes, LCR Leading Digit Table, LCR Digit Modification Table, and LCR Initialization Table.

PGM Base Fun	ction Base	< Fav	vorite PGM LC	R Contro ×				
Q PGM Search	٢							
System ID & Numbering Pla	ans	Order	Attribute	١	/alue		Range	
		1	LCR Access Mode	Disable		۲		
Station Data				Monday	Zone 1	•		
Board Based Data				Tuesday	Zone 1	•		
				Wednesday	Zone 1	•		
CO Line Data		2	Day Zone	Thursday	Zone 1	•		
System Data				Friday	Zone 1	•		
				Saturday	Zone 1	•		
Station Group Data				Sunday	Zone 1	•		
ISDN Line Data				Time Of Day Zone 1	0	- 24	00-24	
		3	Time Zone 1	Time Of Day Zone 2]-[]	00-24	
SIP Data				Time Of Day Zone 3		-	00-24	
Tables Data	~			Time Of Day Zone 1	0	- 24	00-24	
LCR Control Attribute(22	0)	4	Time Zone 2	Time Of Day Zone 2) · []]	00-24	
LCR LDT(221)				Time Of Day Zone 3		-	00-24	
LCR DMT(222)				Time Of Day Zone 1	0	- 24	00-24	
LCR Table Initialization(22)	3)	5	Time Zone 3	Time Of Day Zone 2		1-	00-24	
Digit Conversion Table(270)			Time Of Day Zone 3		<u>i-</u>	00-24	
Toll Exception Table(224)				,				
Emergency Code Table(22	6)							
COS Table								

Figure 4.4.9.1-1 LCR Control Attributes

The LCR Control Attributes Table, among other items, allows assignment of the LCR Access Modes. The LCR Access Modes defines the user operations that will access the LCR feature.

The LCR Access Modes are:

- LCR Disabled.
- Loop (user dials '9' or CO/IP Group code (8xx), or presses a Loop button).
- Loop and Internal (user dials digits without a CO/IP Access Code prefix).
- Loop and Direct CO Line (user dials CO Line Access Code (88xx) or pressing a {CO line} button).
- Loop, Direct CO Line, and Internal.
- Internal, Loop, Direct CO and Direct Loop.

In addition, days of the week are grouped into zones (Day Zones) and the time of day can be set into three groups (Time Zones). The following table provides general descriptive information and input ranges.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LCR Access Mode	This entry defines the effective LCR modes, the modes by which the user can access LCR.	Disable/ Only Loop LCR/ Internal and Loop LCR/ Loop and Direct CO LCR/ Internal, Loop and Direct CO LCR/ Internal, Loop, Direct CO and Direct Loop LCR	Disable
Day Zone	Each day of the week is assigned to a Day Zone (1~3). The active Day Zone is the Zone assigned to the current day of the week.	Zone1~3 (days of the week)	Zone 1
Time Zone1	This entry defines the hours of the day during which each Zone is active for Time Zone 1. Note hours not defined in Time Zone 2 and 3 are automatically part of Time Zone 1.	00~24	00~24
Time Zone2	This entry defines the hours of the day during which each Zone 2 is active for Time Zone 2. Note hours not defined in Time Zone 2 and 3 are automatically part of Time Zone 1.	00~24	00~24
Time Zone3	This entry defines the hours of the day during which Zone 3 is active for Time Zone 3. Note hours not defined in Time Zone 2 and 3 are automatically part of Time Zone 1.	00~24	00~24

Table 4.4.9.1-1 LCR Control Attribute

4.4.9.2 LCR LDT (Leading Digit Table) - PGM 221

Selecting LCR-LDT (Leading Digit Table) will display the LCR-LDT data entry page. Select the LDT Index range desired, blue text above the table header. Click **[Save]** button after changing Value.

Enter LDT Table Index Range: eMG80: 1-10 / eMG800: 1-32 / UCP: 1-32

	PGM Base Function Base		Fa	avorite PGM	LCR LDT(221) X			
					0			
Q	PGM Search O	E	nter L	DT Table Index (1 - 3	32) : Default : 1			Save
		E	nter li	ndex Range (0 - 249)	: Default : 0-99		2 Load	
	System ID & Numbering Plans	н н	DT Ta	ble Index 1				
	Station Data			Range 0-99				
		h	ndex	١	/alue	Range		
	Board Based Data			LCR Type	Both 🔻			
(CO Line Data			Compared Digits		Max 12 Digits (Include '*' and '#')		
E				Check Password	OFF V			
Ľ	System Data		0	LDT Zone Number	1	1-100		
:	Station Group Data			DMT 1		Must be 6 digits		
	SDN Line Data			DMT 2		Must be 6 digits		
Ľ	SDN Line Data			DMT 3		Must be 6 digits		
1	SIP Data			LCR Type	Both 🔻			
Ľ.	Tables Data			Compared Digits		Max 12 Digits (Include '*' and '#')		
-				Check Password	OFF V			
	LCR Control Attribute(220)		1	LDT Zone Number	1	1-100		
	LCR LDT(221)			DMT 1		Must be 6 digits		
	LCR DMT(222)			DMT 2		Must be 6 digits		
	LCR Table Initialization(223)			DMT 3		Must be 6 digits		
	Digit Conversion Table(270)			LCR Type	Both V			
	Toll Exception Table(224)			Compared Digits		Max 12 Digits (Include '*' and '#')		
	Emergency Code Table(226)			Check Password	OFF T			
	COS Table		2	LDT Zone Number	1	1-100		
	Station Authorization Code Table(227)		-	DMT 1		Must be 6 digits		
	System Authorization Code			DMT 2		Must be 6 digits		
	Table(227)			DMT 3		Must be 6 digits		
	CCR Table(228)			LCR Type	Both V	mast be o digits		
	Executive/Secretary(229)			Compared Digits		Max 12 Digits (Include '*' and '#')		
	Flexible DID Conversion(231)			Check Password	OFF T	max 12 Digits (moluue allu #)		
	System Speed Zone(232) Auto Ring Mode Table(233)	-	3	LDT Zone Number		1-100		

Figure 4.4.9.2-1 LCR Leading Digit Table

The Leading Digits Table is used to analyze the user-dialed digits to determine an appropriate Digit Modification Table Index. LDT Tables are provided for 10 for eMG80 system & 32 for eMG800/UCP system. The Table is divided into bins. The applicable LCR Access Modes (LCR Type) and the digits (up to the first 12) dialed by the user are compared with the entries in the Leading Digit Table. In addition, indices to the Digit Modification Table are defined for each of the three (3) Zones and Time Zones configured in the LCR Control Attributes. The following table provides a brief description and entries for the Leading Digit Table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
LCR Type	This entry defines the LCR modes that will apply to this LDT index.	Internal, CO Line, Both	Both

Table 4.4.9.2-1 LCR LEADING DIGITS

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Compared Digits	Up to 12 digits that, if matched by the user dialed digits, will access the DMT Indices of the associated Leading Digit Table bin.	Max. 12 digits (Include * and #)	
Check Password	If enabled (ON), when the dialed digits match the LDT digits, the system will send second dial tone to request the user input a valid Authorization code.	OFF ON	OFF
LDT Zone Number	If the LDT Zone Number of a station/co line is equal to this value, this LDT table is available to the station/co line. (Station Data->Common Attributes(111), CO Line Data->Common Attributes(140))	1-100	1
DMT1	This entry defines the Digit Modification Table index (00~99) for each Time Zone for Day Zone 1. The appropriate index will be selected for the current Day and Time Zone. One entry (DMT index) is made for each Time Zone, six (6) digits.	Must be 6 digits 3 DMT indices	
DMT2	This entry defines the Digit Modification Table index (00~99) for each Time Zone for Day Zone 2. The appropriate index will be selected for the current Day and Time Zone. One entry (DMT index) is made for each Time Zone, six (6) digits.	Must be 6 digits 3 DMT indices	
DMT3	This entry defines the Digit Modification Table index (00~99) for each Time Zone for Day Zone 3. The appropriate index will be selected for the current Day and Time Zone. One entry (DMT index) is made for each Time Zone, six (6) digits.	Must be 6 digits 3 DMT indices	

Table 4.4.9.2-1 LCR LEADING DIGITS

4.4.9.3 LCR DMT (Digit Modification Table) - PGM 222

Selecting LCR DMT (Digit Modification Table) will display the LCR-DMT data entry page. Enter the DMT Table Index range then click **[Load]** to modify the DMT data. Click **[Save]** button after changing Value.

PGM Search System ID & Numbering Plans Station Data Board Based Data		ndex Range (0 - 99) :		2 Load Save
Station Data		Cange 1-3		
	Index			
			Value	Range
		Add Digits		MAX 25 Digits (Include '**, '#' and following characters) D : Tone Detect, P : Pause, F : Billing STN
CO Line Data		Removal Position	1	01-12
System Data		Number of digits to be removed	0	00-12
	1	Add Position	1	01-13
Station Group Data		CO/IP Group	1	01-201
ISDN Line Data		Alternative DMT Index		00-99
SIP Data		Networking Number Plan Bin		001-251
Tables Data 🗸		SMDR code		MAX 4 Digits (Include '*' and '#')
LCR Control Attribute(220) LCR LDT(221)		Add Digits		MAX 25 Digits (Include '*', #' and following characters) D : Tone Detect, P : Pause, F : Billing STN
LCR DMT(222)		Removal Position	1	01-12
LCR Table Initialization(223)		Number of digits to be removed	0	00-12
Digit Conversion Table(270) Toll Exception Table(224)	2	Add Position	1	01-13
Emergency Code Table(226)		CO/IP Group	1	01-201
COS Table		Alternative DMT Index		00-99
Station Authorization Code Table(227)		Networking Number Plan Bin		001-251
System Authorization Code		SMDR code		MAX 4 Digits (Include '*' and '#')
Table(227) CCR Table(228)		Add Digits		MAX 25 Digits (Include '*', #' and following characters) D : Tone Detect, P : Pause, F : Billing STN
Executive/Secretary(229) Flexible DID Conversion(231)		Removal Position	1	01-12
System Speed Zone(232) Auto Ring Mode Table(233)		Number of digits to be removed	0	00-12

Figure 4.4.9.3-1 LCR Digit Modification Table

Using the index determined from the analysis of the LCR Leading Digits Table, the dialed number is modified in accordance with the Digit Modification Table and sent over the CO/IP group assigned for the index.

Digits of the dialed number can be deleted based on the "Removal Position" and "Number of digits to be removed" entries and a digit stream can be inserted in the resulting number. Counting from the first dialed digit, the Removal Position defines the location of the digit where removal begins and, the Number of digits to be removed defines the number of digits to remove. The "Add Digits" are then inserted in the resulting number at the digit position assigned by the Add Position entry. The resulting number is then dialed over the CO/IP path assigned. If the assigned path is not available, the "Alternate DMT index" is used to determine the number and CO/IP path to be used.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Add Digits	This entry defines the digit stream to insert in the number after digit removal. Digits 0~9, '*', '#', and special characters, P: timed Pause D: Dial tone detect F: Billing station number	Max. 25 digits	
Removal Position	This entry defines the position of the digit where removal is to begin, starting with the 1st dialed digit (01).	01~12	1
Number of digits to be removed	This entry defines the number of digits to remove starting at the "Removal Position	00~12	0
Add Position	This entry defines the position in the number, after digit removal, where the Add Digits are inserted.	01~13	1
CO/IP Group	This entry defines the CO/IP Group that the system will attempt to use for the call.	eMG80:01-21 eMG800:01-202 UCP: 01-201	1
Alternative DMT Index	This entry defines an Alternate Digit Modification Table Index to use if no path is available in the assigned CO/IP Group.	00~99	
Networking Number Plan Bin	This entry defines the Net Number Plan Table bin that the system will attempt to use for the transit out call.	001-251	
SMDR Code	This only used for TNET with CM. This code will be send to CM when the TNET status is changed from Local survival mode to bypass mode.	Max. 4 digits (Include * and #)	

Table 4.4.9.3-1 LCR DIGIT MODIFICATION

4.4.9.4 LCR Table Initialization - PGM 223

Selecting LCR Table Initialization will display the LCR Table Initialization data entry page. Click **[Initialize]** button to initialize input data.

PGM Base Function Base	< F	avor	tite PGM	able Initiali	×	
Q PGM Search						
System ID & Numbering Plans	Order		Attribute	1	/alue	Range
				Day Zone 1		Must be 6 digits
Station Data	1		DMT	Day Zone 2		Must be 6 digits
Board Based Data				Day Zone 3		Must be 6 digits
	2		CO Group			01- 201
CO Line Data	3		Alternative DMT Index			00-99
System Data	4		All LCR			
Station Group Data						
ISDN Line Data						
SIP Data						
Tables Data V						
LCR Control Attribute(220)						
LCR LDT(221)						
LCR DMT(222)						
LCR Table Initialization(223)						
Digit Conversion Table(270)						

Figure 4.4.9.4-1 LCR Table Initialization

The LCR Table Initialization allows global values to be assigned to the various Digit Modification Table entries. In addition, the LCR Leading Digits and LCR Digit Modification Tables can be initialized to the default (no entries) state.

The CO group rage is from 1 to 21 for eMG80 and from 1 to 201 for eMG800/UCP.

4.4.9.5 Digit Conversion Table - PGM 270

Selecting Digit Conversion Table will display the page shown. Click **[Save]** button after changing Value.

PGM Base Function Base	*	Favorite PGM	Digit Conversion Table(270) *					
PGM Search O	1 10100 1	able Number (1 - 32) : Defau						Save
	Enter In	ndex Range (1 - 200) : Defau	t:1-100	ดเ	oad			
System ID & Numbering Plans	Table M	lumber 1						
Station Data	Index F	Range 1-100						
Board Based Data	Index	Apply Time	Auto Ring Mode Table (0 - 32)	Dialed Digit (Max 24 Digits)	Changed Digit (Max 24 Digits)	ARS CO Access Code (Max 8 Digits)	Apply	Option
CO Line Data	1	Linconditional	• (All	۲
	2	Unconditional	•				All	٠
System Data	3	Unconditional	•				All	۲
Station Group Data	4	Unconditional	•				All	٠
ISDN Line Data	5	Unconditional	•				All	٠
ISDN Line Data	6	Unconditional	•				All	•
SIP Data	7	Unconditional	•				All	٠
ables Data 👻	8	Unconditional	•				All	•
	9	Unconditional	•				All	٠
LCR Control Attribute(220)	10	Unconditional	•				All	٠
LCR LDT(221)	31	Unconditional	•				All	
LCR DMT(222)	12	Unconditional	•				All	٠
LCR Table Initialization(223)	13	Unconditional	•				All	
Digit Conversion Table(270)	14	Unconditional	•				All	
Toll Exception Table(224) Emergency Code Table(226)	15	Unconditional	•				All	٠
COS Table	16	Unconditional	•				All	
Station Authorization Code	17	Unconditional	•				All	
Table(227)	18	Unconditional	•				All	,
System Authorization Code	19	Unconditional	•				All	•
Table(227) CCR Table(228)	20	Unconditional	•				All	•
Executive/Secretary(229)	21	Unconditional	•				All	•
Flexible DID Conversion(231)	22	Unconditional	•				All	•
System Speed Zone(232)	23	Unconditional	•				All	,
Auto Ring Mode Table(233)	* 24	Linconditional					All	1

Enter Table Number: eMG80: 1-15 / eMG800: 1-32 / UCP: 1-32

Figure 4.4.9.5-1 Digit Conversion Table

The Digit Conversion Table index is assigned to the Station and CO line. In addition, digit conversion can be applied according to the Apply Time Type (Unconditional, Day/Night/Timed or LCR/Time) as necessary. Each Table has 200 entries of up to 24 digits. Entries in the Tables can be any digit (0-9), "*", "#","X" (Mask Digit), "F" (Ignore digit). Each Index can be applied by Apply Option (All/Station/CO line/Disable).

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Apply time	The Apply time type to be applied when the dialed digit is dialed.	Unconditional, Follow Day/Night/Timed, Follow LCR	Unconditional
Auto Ring Mode table	Day/Night/Timed Time Table Index.	N/A, eMG:00-15 UCP:00-32	N/A
Dialed digit	Dialed digit to be compared.	Max. 24 Digits	
Changed digit	Changed digit.	Max. 24 Digits	
ARS CO Access Code	If a selected path is not available for some reason (All Busy, Line Fault etc.) after digit conversion, Alternative Route Selection (ARS) will connect calls using predefined designated ARS digit in digit conversion table.	Max. 8 Digits	
Apply option	The Apply Option can be applied according to the caller.	All / Station / CO line / Disable	All

Table 4.4.9.5-1 Digit Conversion table

4.4.9.6 Toll Exception Table - PGM 224

Selecting Toll Exception Table will display the Toll Table data entry page. Select the desired Allow or Deny Table, blue text above the table header, desired. Click **[Save]** button after changing Value.

PGM Base Function Base	< Favorite	PGM Toll Exc	epti ×								
Q PGM Search	Select Table	Select Table : Allow A									
System ID & Numbering Plans	Table Type										
Station Data	Index	Value	Max 20 Digits								
Board Based Data			(E: Stop, D: Don't Care)								
CO Line Data	2		Max 20 Digits (E: Stop, D: Don't Care)								
System Data	3		Max 20 Digits (E: Stop, D: Don't Care)								
Station Group Data	4		Max 20 Digits (E: Stop, D: Don't Care)								
ISDN Line Data	5		Max 20 Digits (E: Stop, D: Don't Care)								
SIP Data	6		Max 20 Digits (E: Stop, D: Don't Care)								
Tables Data	7		Max 20 Digits (E: Stop, D: Don't Care)								
LCR Control Attribute(220)	8		Max 20 Digits (E: Stop, D: Don't Care)								
LCR LDT(221) LCR DMT(222)	9		Max 20 Digits (E: Stop, D: Don't Care)								
LCR Table Initialization(223) Digit Conversion Table(270)	10		Max 20 Digits (E: Stop, D: Don't Care)								
Toll Exception Table(224)	11		Max 20 Digits (E: Stop, D: Don't Care)								
Emergency Code Table(226) COS Table	12		Max 20 Digits (E: Stop, D: Don't Care)								
Station Authorization Code Table(227)	13		Max 20 Digits (E: Stop, D: Don't Care)								
System Authorization Code Table(227)	14		Max 20 Digits (E: Stop, D: Don't Care)								

Figure 4.4.9.6-1 Toll Exception Table

There are ten Toll restriction Tables arranged in pairs. Each pair consists of an Allow Table and a Deny Table. Allow and Deny entries for Table `A' apply to Station and DISA Class of Service 2/4 and 11. Allow and Deny entries for Table `B' apply to Station and DISA Class of Service 3/4 and 11. Allow and Deny entries for Table `C' apply to Station and DISA Class of Service 5 and 6. Allow and Deny entries for Table `D' apply to Station and DISA Class of Service 8/10 and 11. Allow and Deny entries for Table `D' apply to Station and DISA Class of Service 9 to 11. Allow and Deny entries for Table `E' apply to Station and DISA Class of Service 9 to 11. The Allow and Deny Tables each permit up to 50 entries of up to 20 digits. Entries in the Tables can be any digit (0-9), "#" as a wild card (don't care) digit, or "*" as an end of entry digit.

Based on Table entries, stations or DISA users are allowed or denied dialing specified numbers. The following rules apply to establishing restrictions based on the Table entries:

- If the appropriate Allow/Deny Table pair has no entries and COS is 2 to 4, no restrictions are applied. If the COS is 5 or 6, no Long Distance dialing is allowed.
- If entries are only made in the Allow Table, only those numbers entered can be dialed, all other dialed numbers will be restricted.
- If entries are only made in the Deny Table, only those numbers entered will be restricted and all other numbers can be dialed.
- When there are entries in both the Allow and Deny Table pair, if the number is in the Deny Table, the number will be restricted otherwise the number can be dialed without restriction.

4.4.9.7 Emergency Code Table - PGM 226

Selecting Emergency Code Table will display the Emergency Code Table data entry page. Click **[Save]** button after changing Value.

	PGM Base Function Base	<	Fa	avorite PGM	Emerger	ncy X		x ~
	Q PGM Search						Sav	/e
	System ID & Numbering Plans		Index	Valu	ie	Range		
	Station Data		1	911		Max 15 Digits (Include E:Stop, D: Don't Care)		
	Board Based Data		2			Max 15 Digits (Include E:Stop, D: Don't Care)		
	CO Line Data		3			Max 15 Digits (Include E:Stop, D: Don't Care)		
	System Data		4			Max 15 Digits (Include E:Stop, D: Don't Care)		
	Station Group Data		5			Max 15 Digits (Include E:Stop, D: Don't Care)		
	ISDN Line Data		6			Max 15 Digits (Include E:Stop, D: Don't Care)		
	SIP Data		7			Max 15 Digits (Include E:Stop, D: Don't Care)		
<	Tables Data 🗸		8			Max 15 Digits (Include E:Stop, D: Don't Care)		
	LCR Control Attribute(220) LCR LDT(221)		9			Max 15 Digits (Include E:Stop, D: Don't Care)		
	LCR DMT(222) LCR Table Initialization(223)		10			Max 15 Digits (Include E:Stop, D: Don't Care)		
	Digit Conversion Table(270)							
	Toll Exception Table(224)							
	Emergency Code Table(226)							
	COS Table							
	Station Authorization Code Table(227)							
	System Authorization Code Table(227)							

Figure 4.4.9.7-1 Emergency Code Table

The Emergency Code Table is used to identify emergency numbers which, when dialed, will override all COS dialing restrictions. An Emergency Code number may be up to fifteen (15) digits in length.

4.4.9.8 COS Table

Selecting COS Table will display the COS Table data entry page. Data can be filtered to display specific modes and the values to change can be limited to a specific mode and type, Station or System Authorization codes.

	PGM Base Function Base	< Favorite PGM	cc	S Table	×					
				2 10010	C					
	Q PGM Search	Day: N/A V Night: N/A V Timed Ring: N/A V Filter								
	System ID & Numbering Plans	COS value to change :		 Night 	N/A Timed Rin					
	Station Data	Type : Station Sy	/stem							
		Change								
	Board Based Data		COS T	ablo						
	CO Line Data	Station Number		Night	Timed Ring					
		Station Number	Station	_	Timed King					
	System Data	1000	1	1	1					
	Station Group Data	1001	1	1	1					
	Station Group Data	1002	1	1	1					
Į	ISDN Line Data	1003	1	1	1					
		1004	1	1	1					
	SIP Data	1005	1	1	1					
	Tables Data 🗸	1006	1	1	1					
		1007	1	1	1					
	LCR Control Attribute(220)	1008	1	1	1					
	LCR LDT(221)	1009	1	1	1					
	LCR DMT(222)	1010	1	1	1					
	LCR Table Initialization(223)	1011	1	1	1					
	Digit Conversion Table(270)	1012	1	1	1					
	Toll Exception Table(224)	1013	1	1	1					
	Emergency Code Table(226)	1014	1	1	1					
	COS Table	1015	1	1	1					
	Station Authorization Code	1016	1	1	1					
	Table(227)	1017	1	1	1					
	System Authorization Code	1018	1	1	1					
	Table(227)	1019	1	1	1					
	CCR Table(228)	1020	1	1	1					
	Executive/Secretary(229)	1021	1	1	1					
	Flexible DID Conversion(231)	1022	1	1	1					
	System Speed Zone(232)	1023	1	1	1					
_	Auto Ring Mode Table(233)	1024	1	1	1					

Figure 4.4.9.8-1 COS Table

Assignments for COS are made for the Day, Night, and Timed Ring for each station and system Authorization code. The standard Station COS 1 to 11 is assigned to each Authorization code. Note the COS may also be defined in the Station and System Authorization Code Tables.

4.4.9.9 Authorization Codes Table - PGM 227

There are two Authorization Code Tables, the System Authorization Code Table and Station Authorization Code Table. Selecting Station Authorization Code Table will display the data entry page in Figure 4.4.9.9-1 and selecting System Authorization Code Table will display the page in Figure 4.4.9.9-2. Enter a Station or System Index range and click **[Load]** to modify the data. For convenience, the copy, paste, and drag is available to enter or modify data. Please click **[Save]** button to apply after changing Value.

PGM Base Function Base	< Favorite PGM	Station Autho	riz <mark>x</mark>					
PGM Search	Enter Station Range					2 Load		
ystem ID & Numbering Plans	Station Range 1000-	1050						
tation Data		Auth	Code / COS	value to cha	nge			
ation Data	Enter Station	Range :]-[Autho	rization Code :			
pard Based Data	Enter Station	Range :) - [Day	1 Vight 1 V	Timed Ring 1 🔻		
O Line Data	Range Save							
ystem Data	Station Number	er Authorization Cod	e Day COS	Night COS	Timed Ring COS			
tation Group Data	1000		1 🔻	1 🔻	1 🔻			
	1001		1 🔻	1 🔻	1 🔻			
DN Line Data	1002		1 🔻	1 🔻	1 🔻			
P Data	1003		1 🔻	1 🔻	1 🔻			
	1004		1 🔻	1 🔻	1 🔻			
ables Data V	1005		1 🔻	1 🔻	1 🔻			
LCR Control Attribute(220)	1006		1 🔻	1 🔻	1 🔻			
LCR LDT(221)	1007		1 🔻	1 🔻	1 🔻			
LCR DMT(222)	1008		1 🔻	1 🔻	1 🔻			
CR Table Initialization(223)	1009		1 🔻	1 🔻	1 🔻			
Digit Conversion Table(270)	1010				1 🔻			
oll Exception Table(224)	1011				1 •			
Emergency Code Table(226)	1012				1 •			
OS Table	1012				1 •			
Station Authorization Code	1013				1 •			
Table(227) System Authorization Code								
able(227)	1015				1 •			
CR Table(228)	1016				1 🔻			
xecutive/Secretary(229)	1017				1 🔻			
lexible DID Conversion(231)	1018		1 🔻	1 🔻	1 🔻			
System Speed Zone(232)	1019		1 🔻	1 🔻	1 🔻			
Auto Ring Mode Table(233)	1020		1 🔻	1 🔻	1 🔻			

Figure 4.4.9.9-1 Station Authorization Code Table

Auth Code / COS value to change								
	Enter Station Range :	-	Authorization Code :					
۲	Enter Station Range :	-	Day 1 Vight 1 Vimed Ring 1 V					
Range Save								

User can change the authorization code and COS for the station range across the board and click the Range save button to save.

Enter System Index Range: eMG80: 1-360 / eMG800: 1-1200 / UCP: 1-2800

PGM Base Function Base	<	Favorit	e PGM System	n Aut	horiz	×							
PGM Search	Enter	System	n Index Range (1 - 280	0) : D	efaul	t : 1-100					? L	bad	
ystem ID & Numbering Plans	Syste	em Inde	x Range From 1-100										
tation Data		_				COS valu	ie t	o change					
		Enter	System Index Range :						▼ Night	_1 ▼ Im	ned Ring 1	•	
oard Based Data						Rar	ige	Save					
O Line Data		Index	Authorization Code	Day	cos	Night CC)S	Timed Ring COS	Remark				
ystem Data		1		1	٠	1	•	1 🔻					
tation Group Data		2		1	٠	1	۲	1 🔻					
		3		1	۲	1	۲	1 🔻					
SDN Line Data		4		1	•	1	•	1 🔻					
IP Data		5		1	۲	1	•	1 🔻					
		6		1	۲	1	•	1 🔻					
ables Data V		7		1	۲	1	•	1 🔻					
LCR Control Attribute(220)		8		1	۲	1	•	1 🔻					
LCR LDT(221)		9		1	۲	1	•	1 🔻					
LCR DMT(222)		10		1	۲	1	•	1 🔻					
LCR Table Initialization(223)		11		1	۲	1	•	1 🔻					
Digit Conversion Table(270)		12		1	٠	1	•	1 🔻					
Toll Exception Table(224)		13		1	۲	1	v	1 🔻					
Emergency Code Table(226)		14		1	•	1	•	1 🔻					
COS Table		15		1	•	1	•	1 🔻					
Station Authorization Code Table(227)		16		1	v	1	v	1 🔻					
System Authorization Code		17		1	•	1	•	1 🔻					
Table(227)		18		1	•	1	•	1 🔻					
CCR Table(228)		19		1	•	1	•	1 🔻					
Executive/Secretary(229)	_	20		1	•	1	•	1 🔻					
Flexible DID Conversion(231)	_	21		1	•		•	1 🔻					
System Speed Zone(232) Auto Ring Mode Table(233)				1	•		• •						

Figure 4.4.9.9-2 System Authorization Code Table

CC	S value to char	ige	
Enter System Index Range :	-	Day 1 Vight 1	▼ Timed Ring 1 ▼
	Range Save		

User can change COS for the system index range across the board and click the Range save button to save.

Authorization codes are employed to control access to system resources and facilities. Walking COS, CO/IP Group access, DISA calls and certain Call Forward types may require input of a valid Authorization code. Codes up to 12 digits may be entered into the system database.

There are two types of Authorization codes, station and system. The Station entries are associated with individual stations. The number of system Authorization codes varies based on the configuration; the number of available codes is provided in Table 2.1-x. Each Authorization code may be assigned a separate COS for Day, Night and Timed Ring mode operation.

The system will allow the station associated Authorization codes to be duplicated. However, the iPECS will not allow duplicate or conflicting system level codes unless the '*' and Authorization table indexing is used to enter codes. Conflicting codes occur when a shorter code contains the first digits of a longer code, i.e. 12 conflicts with 1234.

STATION COS	RESTRICTIONS
1	No restrictions are placed on dialing from the station.
2	The assignments in Exception Table A are monitored for allow and deny numbers.
3	The assignments in Exception Table B are monitored for allow and deny numbers.
4	The assignments in both Exception Tables A & B are monitored for allow and deny numbers.
5	The leading digit dialed cannot be a Long Distance code, default "0", and further denied/allowed based on Exception Table C.
6	The leading digits dialed cannot be a Long Distance code & digit count cannot exceed the LD digit counter, default 8 digits, and further denied/allowed based on Exception Table C.
7	Intercom and paging calls are allowed. No outgoing dialing except for emergency calls is allowed on CO Lines.
8	The assignments in the Exception Table D are monitored for allow and deny numbers.
9	The assignments in the Exception Table E are monitored for allow and deny numbers.
10	The assignments in the Exception Table D & E are monitored for allow and deny numbers.
11	The assignments in the Exception Table A & B and D & E are monitored for allow and deny numbers.

Table 4.4.9.9-1 STATION CLASS-OF-SERVICE

Table 4.4.9.9-2 STATION/CO LINE COS TOLL RESTRICTIONS

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 1	No Restriction	No Restriction	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 2	Exception Table A governs the dialing	Exception Table A governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 3	Exception Table B governs the dialing	No Restriction	Exception Table B governs the dialing	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 4	Exception Table A & B governs the dialing	Exception Table A governs the dialing	Exception Table B governs the dialing	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 5	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Local Call only (LD Code, "1" or "0") and Table C	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 6	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call (LD code/counter) and Table C	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 7	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only	In-house dialing only

	CO COS 1	CO COS 2	CO COS 3	CO COS 4	CO COS 5
STA COS 8	Exception Table D governs the dialing	Exception Table D governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 9	Exception Table E governs the dialing	Exception Table E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 10	Exception Table D & E governs the dialing	Exception Table D & E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction
STA COS 11	Exception Table A & B and D & E governs the dialing	Exception Table A & B and D & E governs the dialing	No Restriction	Only Local Call(LD code/counter) and Table C	No Restriction

Table 4.4.9.9-2 STATION/CO LINE COS TOLL RESTRICTIONS

4.4.9.10 Customer Call Routing Table - PGM 228

Selecting CCR Table will display the Customer Call Routing data entry page. Enter an index to select the appropriate CCR Table and click **[Load]** to modify the table. Click **[Save]** button after changing Value.

PGM Search O	Enter Inde	ex (1 - 200) : Load			S
System ID & Numbering Plans	Customer	Call Routing Table Index 1			
Station Data	Order <u>↓</u> a		Туре	Value	VMID
Station Data	1	1 Destination	N/A	▼	STA :
Board Based Data	2	2 Destination	N/A	•	STA :
CO Line Data	3	3 Destination	N/A	•	STA :
CO Line Data	4	4 Destination	N/A	•	STA :
System Data	5	5 Destination	N/A	•	STA :
Station Group Data	6	6 Destination	N/A	•	STA :
Station Group Data	7	7 Destination	N/A	•	STA :
ISDN Line Data	8	8 Destination	N/A	•	STA :
SIP Data	9	9 Destination	N/A	• ·	STA :
	10	0 Destination	N/A	• ·	STA :
Tables Data V	11	Busy Destination	ATD •		
LCR Control Attribute(220)	12	Error Destination	ATD •		
LCR LDT(221)	13	NoAns Destination	ATD •		
LCR DMT(222)	14	CCR 1 Digit Only	OFF •		
LCR Table Initialization(223)	15	Temporary Announcement Use	OFF T		
Digit Conversion Table(270)	16	Temporary Announcement No (0 - 200, 0: Unused)		0	
Toll Exception Table(224)					
Emergency Code Table(226)					
COS Table					
Station Authorization Code Table(227)					
System Authorization Code Table(227)					

Figure 4.4.9.10-1 Customer Call Routing Table

The system incorporates IVR (Interactive Voice Response) capabilities called CCR (Customer Call Routing). After, or during a VSF Announcement, the caller may dial digits to select a destination or route for the call. The CCR Table defines the destination type and value associated with the digit dialed by the caller in response to the index, a VSF Announcement (01-70). The available destinations are shown in Table 4.4.9.10-1 below.

Up to 70 single-level Audio Text menus may be assigned or, multi-level menu structures (maximum 70 levels) can be established using one menu as a destination for the previous level. Each CCR announcement can have re-route destination – Busy / Error / No Answer case. Each re-routed destination types are Tone / Attendant / Station Group / VSF Announcement number.

The table includes a "CCR 1 Digit Only" option. When this option is enabled, the system will accept only a single digit as the entry. When the option is OFF, the caller can dial multiple digits that are accepted as DISA dialing.

Temporary announcement can be used in holiday, or emergency case.

When Temporary Announcement Usage is set to ON, programmed Temp Announcement is played instead of CCR table announcement.

This Temporary Announcement can be set also by Remote Access - by using [Remote Access to Mobile Extension] feature.

Issue 1.6

After access to Mobile Extension,

To turn On Temp Announcement, 8 + CCR Announcement Number.

To turn Off Temp Announcement, 9 + CCR Announcement Number.

TYPE	DESCRIPTION
	N/A
01	Route to a Station
02	Route to a Station Group
03	Route with System Speed Dial
04	Route as PBX Transfer with System Speed Dial (Flash then dial speed dial digits)
05	Route to VSF Announcement
06	Route to VSF Announcement and disconnect
07	Route to Networked Station
08	Conference Room
09	Internal Page
10	External page
11	All Call Page
12	Route to voice mail (station group/station number)
13	Company Directory (USA Only)
14	Record VM Greeting (USA Only)
15	Room type Conf Group Join

4.4.9.11 Executive/Secretary Table - PGM 229

Selecting Executive/Secretary will display the Executive/Secretary Table data entry page. Click **[Save]** button after changing Value.

PGM Base Function Base	<	Favorite PGN	1	Executive/Secretary	(229) ×				
PGM Search									Save
stem ID & Numbering Plans	Index	Executive	Secretary	CO Call To Secret	ary Call Executive If Secre	etary DND Executive G	rade ICM Call To Secre	tary Secretary Auto A	Ans Executive Grou
•	1			Disable 🔻	Disable 🔻	12	Disable 🔻	Disable 🔻	0
ition Data	2			Disable 🔻	Disable 🔻	12	Disable 🔻	Disable 🔻	0
rd Based Data	3			Disable •	Disable 🔻	12	Disable 🔻	Disable 🔻	0
Line Data	4			Disable •	Disable 🔻	12	Disable 🔻	Disable 🔻	0
Line Data	5			Disable 🔻	Disable 🔻	12	Disable •	Disable 🔻	0
em Data	6			Disable 🔻	Disable 🔻	12	Disable 🔻	Disable 🔻	0
on Group Data	7			Disable •	Disable 🔻	12	Disable 🔻	Disable 🔻	0
on Group Data	8			Disable •	Disable 🔻	12	Disable 🔻	Disable 🔻	0
Line Data	9			Disable 🔻	Disable 🔻	12	Disable 🔻	Disable 🔻	0
Data	10			Disable •	Disable 🔻	12	Disable 🔻	Disable 🔻	0
	11			Disable •	Disable 🔻	12	Disable 🔻	Disable 🔻	0
es Data 🗸	12			Disable •	Disable 🔻	12	Disable 🔻	Disable 🔻	0
Control Attribute(220)	13			Disable •	Disable 🔻	12	Disable 🔻	Disable 🔻	0
R LDT(221)	14			Disable •	Disable 🔻	12	Disable 🔻	Disable 🔻	0
2 DMT(222)	15			Disable •	Disable 🔻	12	Disable 🔻	Disable 🔻	0
Table Initialization(223)	16			Disable •	Disable •	12	Disable •	Disable •	0
Conversion Table(270)	17			Disable •	Disable •	12	Disable •	Disable •	0
Exception Table(224)	18			Disable •	Disable •	12	Disable •	Disable 🔻	0
rgency Code Table(226) 3 Table	19			Disable •	Disable •	12	Disable •	Disable •	0
on Authorization Code	20			Disable •	Disable •	12	Disable •	Disable •	0
e(227)	21			Disable •	Disable •	12	Disable •	Disable •	0
em Authorization Code	22			Disable •	Disable •	12	Disable •	Disable V	0
e(227) ! Table(228)	23			Disable •	Disable 🔻	12	Disable •	Disable 🔻	0
cutive/Secretary(229)	24			Disable •	Disable •	12	Disable •	Disable •	0
kible DID Conversion(231)	25			Disable •	Disable •	12	Disable •	Disable T	0
stem Speed Zone(232)	26			Disable V	Disable V	12	Disable V	Disable V	0
o Ring Mode Table(233)	*				Di un -		0	Di un -	

Figure 4.4.9.11-1 Executive/Secretary Table

Stations can be paired as Executive/Secretary pairs so that when the Executive enters DND, intercom and transferred calls are automatically routed to the Secretary. An Executive may have only one Secretary however, a Secretary can be assigned to multiple Executives. A Secretary of one pair may be the Executive of another however, assignments that form a loop-back are not allowed. In addition, when active, the Secretary can be assigned to receive the Executive's voice messages, refer to Common Attributes section.

The "CO Call to Sec" option will route all CO calls to the Executive to the defined Secretary's station regardless of the Executive's station status. The "Call Exec if Sec DND" option will route Executive calls back to the Executive if the Secretary is in DND. The Exec Grade permits higher grade Executives to override the Executive/Secretary Forward feature to call a lower grade Executive (Korea only). The highest grade is 1 and the lowest grade is 12. The "ICM Call to Sec" option will route all internal calls to the Executive(except for calls from higher or same grade executive) to the defined Secretary's station regardless of the Executive's station status.

Refer to the following table for a description of the Executive/Secretary parameters and the input required.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Executive	Assign Executive.		
Secretary	Assign Secretary.		
CO Call to Secretary	If desired, all incoming CO calls to the Exec. The call is routed to the Secretary's station regardless of the Executive's status.	Enable/ Disable	Disable
Call Executive if Secretary is in DND	If the Secretary is in DND, Executive calls can be routed back to the Executive.	Enable/ Disable	Disable
Executive grade	Higher (or equal) grade Executives can override the Executive/Secretary Forward feature (5 th : ICM call to SEC) to call a lower grade Executive. Highest grade: 01, Lowest grade: 12.	01~12	12
ICM Call to Secretary	If this option is ON, all internal calls to the executive station (except for calls from higher or same grade executive) are routed to the Secretary's station regardless of the Executive's status. 8801 Default value Korea, India, Israel, Turkey, Thailand : ON Otherwise : OFF	Enable/ Disable	Disable
Secretary Auto Answer	When executive call to the secretary who is in 'T' mode. The call will be answered by hands free mode if it is ON.	Enable/ Disable	Disable
Executive Group	If Group is greater than 1, it works that lower grade executive can call to higher grade executive directly when they are same group.	00-50	00

Table 4.4.9.11-1 Executive/Secretary Table

4.4.9.12 Flexible DID Conversion Table - PGM 231

Selecting Flexible DID Conversion Table will display the Flexible DID Table data entry page. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing Value. Click **[Initialize All table Data]** to initialize all table and Click **[Delete All Table Data]** to delete.

PCM Base Function Base	<i>k</i>		Fav	orite PGM		Fiexible OID Com	(PCC)eolane		× O									
POM Search 0	Ent	irinda	k Rangé (D - 99)	99) : Detsuit : 0.99			E Load	i i										Ba
	100	020	19528					1.1										Initialize All Table Da
System ID & Numbering Plans			ge 0-99															Derete All Table Da
Station Data		Inde	x Day Ring Mo	de Destination Value	VMID Night	ing Mode Destination	Value VM	ID Te	ned Ring Mode Destination	alue V	MID	Reroute Destination	Value	VMID	ICLID Table Usage	ICM Tenancy Group (Auto Ring Mode Table)		Ring room maner
loant Based Data	. 0		NA	•	NA.			NO					•		OFF *		Refer To CO Hold •	
O Line Data	- 10		N/A.	5	NA	•		NO					•		OFF •		Rafer To CO Hold V	
O Une bata	. 0		NA	•	NA			164			N		•		OFF .		Refer To CO Hold •	
ystem Data	10		NA.	•	N/A	•		Nº			N		•		CFF .		Refer To CO Hold *	
ation Group Data	.11		N/A.	•	NA	•		NO			N		•		0F7 *		Refer To CO Hold •	
ation Group Lata	÷ 0		NA	•	NA.	•		260			N		•		OFF *		Refer To CO Hold •	
ON Line Data	- 10		N/A	•	NA	•		NO			N		•		OFF .		Refer To CO Hold •	
# Data	- 0		N/A	•	NA.	•		NO			N		•		OFF •		Refer To CO Hold *	
er bata	0		N/A.	•	N/A			142			N		•		OF# •		Refer To CO Hold *	
abies Cata -	1	\$	N/A.	•	NA	•		NU			N		•		Ch4 .		Refer To CO Hold •	
122-001100-001000	10	10	N/A	•	NA.	•		140			N		•		OFF •		Refer To CO Hold +	
LCR Control Attribute(220)	1.0	11	N/A	•	NA	•		No	•		N	ih.	•		OFF .		Refer To CO Hold .	
LOR LDT(221) LOR DWT(222)	- 0	12	N/A.	•	NA	•		NO	•		N	14	•		OFF .		Refer To CO Hold ·	
LOR DMT(222) LOR Table Initialization(223)	0	п	NA	•	NA			769	•		N	iA .	•		OFF .		Refer To CO Hold •	2
Digit Conversion Table(270)	- 4	14	N/A.	•	N/A			340	•		N	18.	•		017 .		Refer To CO Hold •	0
Toll Exception Table(224)	1	15	NA	•	NA	•		NO	•		N	IA	•		OFF .		Refer To CO Hold •	2
Emergency Code Table(226)	13	15	N/A	•	NA.	,		NO.	•		N	A.	,		OFF 7		Refer To CO Hold *	5
COS Table	- 10	17	NA	•	NA	•		N	•		N	ih.	•		OFF .		Refer To CO Hold ¥	0
Staton Authorization Code	0	18	N/A	•	NA			767	•		N	FA.	•		OFF .		Refer To CO Hold .	2
Table(227)	- (1	19	N/A	•	NA.			147	•		N	iA.	•		OFF .		Parter To CO Hold .	2
Bystem Authorization Code	10	20	N/A.	•	NA.			No	•		N	IA.	•		OFF .		Rater To CO Hold *	2
Table(227)	13	21	NA	•	NA.			NO	•		N	IA.	•		055 .		Refer To CO Hold •	5
CCR Table(228)	10	22	NA	•	NA			N	•		N	ih.	•		OFF .		Refer To CO Hold .	2
Executive/Secretary(229) Tectible DOI Conversion(233)		23	NA		NA	•		NO	•		N	iA.	•		OFF .		Refer To CO Hold .	2
Bystem Speed Zone(232)	11	34	N/A		N/A			NO	•		Ň	/A	•		OFF .		Refer To CO Host +	5
Auto Ring Mode Table(233)	- 0	20	NA:	•	NA.			N			N	(A	•		OFF .		Refer To CO Hold •	2
Voice Mail Dialing Table(234)	- 12	28	NA		NA.			NO			N	IA.			015		Refer To CO Hold *	2
Registration Table(235)	10	27	NA	•	NA			N			N	IA.	,		OFF T		Refer To CO Hold *	2
Mobile Extension Table(236)		28	N/A		NA			141				A			OFF T		Refer To CO Hold .	2

Figure 4.4.9.12-1 Flexible DID Conversion Table

When the received DID digits are converted, the resulting three-digit number may be used as an index to the Flexible DID Conversion Table. The Flexible DID Table index is used when DID Line is assigned a Conversion type 2, refer to the DID Service attributes section 4.4.4.6. Using the index from the digit conversion a destination for the DID call is determined by a Look-up in the Flexible DID Table. The destination for the call is generally defined as a type and a value. The type selects options such as station, station group, VSF, etc. The value specifies the particular station, station group, etc. In addition, ICLID routing can be enabled for DID lines or can be assigned as an index to the Auto Ring Mode table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Day Ring Mode Destination	Destination setting for Day Ring mode.	N/A,	N/A
Night Ring Mode Destination	Destination setting for Night Ring mode.	Station,	N/A
Timed Ring Mode Destination	Destination setting for Timed Ring mode.	Station Group,	N/A
Reroute Destination	Destination setting for Reroute Ring mode.	System Speed,	N/A
		PABX transfer with	
		system speed,	
		VSF announcement,	
		VSF announcement	
		and Disconnect,	
		Networking,	
		Conference room,	
		Internal page,	
		External page,	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
ICLID Table ICM Tenancy Group (Auto Ring Table)	Use ICLID Routing, section 4.4.7.4. A DID Conversion Table Index can be assigned to employ an ICM Tenancy Group Auto Ring Table to determine	All call page, Voice mail (Station group), ICLID Table, Company Directory, Record VM Greeting, Room type Conf Group Join OFF/ON eMG80: 0~15 eMG800: 0~32 UCP: 0~100	OFF N/A
МОН	Day/Night/Timed operation mode. A Music source is assigned so that calls to the destination receive audio from the source in place of ring-back tone.	Refer to CO Hold, Internal/External Music 1, External Music 2, VSF MOH, SLT MOH 1, SLT MOH 2, SLT MOH 3, SLT MOH 4, SLT MOH 5, VSF MOH 2, VSF MOH 3	Refer to CO Hold
Ring Tone	A call routed with the DID Conversion Table will employ the selected Ring tone to alert the destination.	0-16	0
Name	An eleven character Name can be configured for the Table bin.	11 characters	

Table 4.4.9.12-1 FLEXIBLE DID CONVERSION

4.4.9.13 System Speed Zone Table - PGM 232

Selecting System Speed Zone will display the System Speed Zone data entry page. Click **[Save]** button after changing Value.

PGM Base Function Base	< F	avorite PGM System Spe	ed <mark>X</mark>	S
System ID & Numbering Plans	Index	Feature	Value	5
Station Data		Speed Bin Range In Zone	20200 - 31999	
Station Data		Station Range to Access Zone	1000 -	
Board Based Data	1	Toll Checking	ON V	
CO Line Data		Auth Checking	ON V	
CO Line Data		Speed Bin Range In Zone	<u> </u>	
System Data		Station Range to Access Zone		
Station Group Data	2	Toll Checking	OFF T	
Station Group Data		Auth Checking	OFF V	
ISDN Line Data		Speed Bin Range In Zone		
SIP Data		Station Range to Access Zone		
on baa	3	Toll Checking	OFF T	
Tables Data ~		Auth Checking	OFF V	
		Speed Bin Range In Zone		
LCR Control Attribute(220) LCR LDT(221)		Station Range to Access Zone		
LCR DMT(222)	4	Toll Checking	OFF T	
LCR Table Initialization(223)		Auth Checking	OFF V	
Digit Conversion Table(270)		Speed Bin Range In Zone		
Toll Exception Table(224)		Station Range to Access Zone		
Emergency Code Table(226)	5	Toll Checking	OFF T	
COS Table		Auth Checking	OFF V	
Station Authorization Code		Speed Bin Range In Zone		
Table(227)		Station Range to Access Zone		
System Authorization Code Table(227)	6	Toll Checking	OFF T	
CCR Table(228)		Auth Checking	OFF V	
Executive/Secretary(229)		Speed Bin Range In Zone		
Flexible DID Conversion(231)		Station Range to Access Zone		
System Speed Zone(232)	7	Toll Checking	OFF T	
Auto Ring Mode Table(233)	•	Auth Checking		

Figure 4.4.9.13-1 System Speed Zone

System Speed Dial Bins assigned to a zone are only available to stations allowed access to that zone. Each zone can be assigned to apply the appropriate Station and CO Line COS for the speed dial number prior to dialing.

The speed Bin in Zone and Station Range to access zone is different according to selecting Speed Numbering, refer to 'Speed Numbering' in System ID (100)

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT	
Speed Bin Range in Zone	A range of Speed Dial Bins is assigned to a zone.			
Station Range to Access	A range of Stations is permitted access to the System			
Zone	Speed dials in the Zone.			
Tall Charling	Tall restriction can be applied to Speed Diels in the Zana	OFF		
Toll Checking	Toll restriction can be applied to Speed Dials in the Zone.	ON	ON	
Auth Checking	The user can be required to enter a valid Authorization	OFF		
Auth Checking	code to use Speed Dials in the zone.	ON	ON	

Table 4.4.9.13-1 SYSTEM SPEED ZONES

4.4.9.14 Auto Ring Mode Table - PGM 233

Selecting Auto Ring Mode Table will display the Auto Ring Mode Table data entry page. Enter the desired index (Tenancy Group) and click **[Load]** to enter data. Click **[Save]** button after changing Value.

Enter Index: eMG80: 0-15 / eMG800: 0-32 / UCP: 0-100

	PGM Base Function Base	*	Favorite	PGM Auto Ring M	Node <mark>×</mark>	
C	PGM Search		Enter Index (0	- 100) : Lo	ad	
	System ID & Numbering Plans		Auto Ring Mod	le Table Index 1		
	Station Data		Week	Index	Value	Range
	Board Based Data			Day Start Time	0900	Must be 4 Digits(hhmm) 0000-2359
	CO Line Data		Monday	Night Start Time	1800	Must be 4 Digits(hhmm) 0000-2359
	System Data		alonday	Timed Ring Start Time		Must be 4 Digits(hhmm) 0000-2359
	Station Group Data			Timed Ring End Time		Must be 4 Digits(hhmm) 0000-2359
	ISDN Line Data			Day Start Time	0900	Must be 4 Digits(hhmm) 0000-2359
	SIP Data		Tuesday	Night Start Time	1800	Must be 4 Digits(hhmm) 0000-2359
<	Tables Data ~		Tuesday	Timed Ring Start Time		Must be 4 Digits(hhmm) 0000-2359
J	LCR Control Attribute(220)			Timed Ring End Time		Must be 4 Digits(hhmm) 0000-2359
	LCR LDT(221) LCR DMT(222)			Day Start Time	0900	Must be 4 Digits(hhmm) 0000-2359
	LCR Table Initialization(223) Digit Conversion Table(270)		Wednesday	Night Start Time	1800	Must be 4 Digits(hhmm) 0000-2359
	Toll Exception Table(224) Emergency Code Table(226)		weunesday	Timed Ring Start Time		Must be 4 Digits(hhmm) 0000-2359
	COS Table			Timed Ring End Time		Must be 4 Digits(hhmm) 0000-2359
	Station Authorization Code Table(227)			Day Start Time	0900	Must be 4 Digits(hhmm) 0000-2359
	System Authorization Code Table(227)		Thursday	Night Start Time	1800	Must be 4 Digits(hhmm) 0000-2359
	CCR Table(228) Executive/Secretary(229)		mursuay	Timed Ring Start Time		Must be 4 Digits(hhmm) 0000-2359
	Flexible DID Conversion(231) System Speed Zone(232)			Timed Ring End Time		Must be 4 Digits(hhmm) 0000-2359
	Auto Ring Mode Table(233)	-		Day Start Time	0900	Must be 4 Digits(hhmm) 0000-2359

Figure 4.4.9.14-1 Auto Ring Mode Table

The system can be programmed to automatically select the Ring and COS based on time of day and day of the week. Three Ring & COS modes are available, Day, Night, and Timed. The Ring assignments are as defined in CO Ring Assignments. COS assignments are made in the Station COS and DISA COS programs discussed in sections, respectively.

The start times for Day, Night and start and end times for Timed modes are entered for each day of the week. After the Timed end time the mode returns to day if time is not in the Night mode. The Attendant can override the Automatic selection and select the desired mode (Day, Night, and Timed) manually. A separate Auto Ring Table can be established for each ICM Tenancy Group in section (indices 1 ~ 15 for eMG80 & indices 1~32 for eMG800 & 1~100 for UCP) and for the system (index 00).

4.4.9.15 Voice Mail Dialing Table - PGM 234

Selecting Voice Mail Dialing Table will display the Voice Mail Dialing data entry page. Click **[Save]** button after changing Value.

System ID & Numbering Plans		Fa	vorite PGM Voice M	ail D	× 0			
Station Data								
Board Based Data		0 1				2		
CO Line Data		Order	Index	Prefix :	Value	Range		
	_	1	Voice Mail 1 (Put)			Max 12 Digits (Include*,#,P,D,F) P : Pause, D : DND, F : Flash		
System Data				Suffix :		F. Fause, D. DND, F. Flash		
Station Group Data		2	Voice Mail 2 (Get)	Prefix :		Max 12 Digits (Include*,#,P,D,F)		
Station Group Bata				Suffix :		P : Pause, D : DND, F : Flash		
SDN Line Data		3	Voice Mail 3 (Busy)	Prefix :		Max 12 Digits (Include*,#,P,D,F)		
SIP Data		5	voice Mail 5 (Busy)	Suffix :		P : Pause, D : DND, F : Flash		
	_			Prefix :		Max 12 Digits (Include*,#,P,D,F)		
Tables Data	~	4	Voice Mail 4 (No Answer)	Suffix :		P : Pause, D : DND, F : Flash		
LOD Orighted Attribute (000)						Max 12 Digits (Include*,#,P,D,F)		
LCR Control Attribute(220) LCR LDT(221)		5	Voice Mail 5 (Error)	Suffix :		P : Pause, D : DND, F : Flash		
LCR DMT(222)				Prefix :		May 12 Digita (Ipolude* # D D E)		
LCR Table Initialization(223)		6	Voice Mail 6 (DND)	Suffix :		Max 12 Digits (Include*,#,P,D,F) P : Pause, D : DND, F : Flash		
Digit Conversion Table(270)				Prefix :				
Toll Exception Table(224)		7	Voice Mail 7	Suffix :		Max 12 Digits (Include*,#,P,D,F) P : Pause, D : DND, F : Flash		
Emergency Code Table(226)								
COS Table		8	Voice Mail 8 (CLI)	Prefix :		Max 6 Digits (Include*,#,P,D,F) P : Pause, D : DND, F : Flash		
Station Authorization Code				Suffix :				
Table(227) System Authorization Code		9	Voice Mail 9 (Disconnect)			Max 12 Digits (Include*,#,P,D,F) P : Pause, D : DND, F : Flash		
Table(227)		10	CLI Usage	Not Use	e 🔻			
CCR Table(228)		11	Fixed CLI Length	10		10-20		
xecutive/Secretary(229)		12	Fixed CLI Pad	0		0-9,*,#		
Flexible DID Conversion(231)								
System Speed Zone(232)								
Auto Ring Mode Table(233)								
Voice Mail Dialing Table(234)								
Registration Table(235)								
Mobile Extension Table(236)								

Figure 4.4.9.15-1 External Voice Mail Dialing Table

When an external Voice Mail system is used that connects to an SLT port, a digit sequence must be defined for the system to signal various call characteristics to the Voice Mail system. The external Voice Mail uses the sequences to determine appropriate announcements or further call routing. The Table permits the definition of digits as either a prefix or suffix to other digits (station number for mailbox identification). Sequences are defined for such call characteristics as Put Mail, Get Mail, No Answer call, etc. as described in the following table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Voice Mail 1 (Put)	Code to send when the voice mail is to receive call to record a message. Put Mail. When you enter the Digit, the following Digit means as below: P: Pause, D: DND, F: Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	
Voice Mail 2 (Get)	Code to send when the voice mail is to playback a recorded message.	Prefix Suffix	

Table 4.4.9.15-1 VOICE MAIL DIALING TABLE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	Get Mail. When you enter the Digit, the following Digit means as below: P: Pause, D: DND, F: Flash	(Max. 12 Digits/ Include *, #, P, D, F)	
Voice Mail 3 (Busy)	Code to send when the voice mail is to receive a call when the user is busy. Busy Mail. When you enter the Digit, the following Digit means as below: P: Pause, D: DND, F: Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	
Voice Mail 4 (No Answer)	Code to send when the voice mail is to receive a call when the user did not answer. No Answer Mail. When you enter the Digit, the following Digit means as below: P: Pause, D: DND, F: Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	
Voice Mail 5 (Error)	Code to send when the voice mail is to receive a call when a user dialing error exists. Error Mail. When you enter the Digit, the following Digit means as below: P: Pause, D: DND, F: Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	
Voice Mail 6 (DND)	 Code to send when the voice mail is to receive a call when the user is in DND. DND Mail. When you enter the Digit, the following Digit means as below: P: Pause, D: DND, F: Flash 	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	
Voice Mail 7	When you enter the Digit, the following Digit means as below: P: Pause, D: DND, F: Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	
Voice Mail 8(CLI)	When you enter the Digit, the following Digit means as below: P: Pause, D: DND, F: Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	
Voice Mail 9 (Disconnect)	Code for disconnect call. Disconnect Mail. When you enter the Digit, the following Digit means as below: P: Pause, D: DND, F: Flash	Prefix Suffix (Max. 12 Digits/ Include *, #, P, D, F)	
CLI Usage	Not use: Do not send CLI Real CLI length: Send CLI without padding before prefix code. Fixed CLI length: Send CLI with fixed length.	Not use, Real CLI length, Fixed CLI length	Not use
Fixed CLI Length	Define length of CLI.	10-20	10
Fixed CLI Pad	Define padding character for CLI.	0-9,*,#	0

Table 4.4.9.15-1 VOICE MAIL DIALING TABLE

4.4.9.16 Registration Table - PGM 235

Selecting Registration Table will display the Registration data entry page. Click **[Save]** button after changing Value.

Tables Data	~ ^				v	
LCR Control Attribute(220)		< Fa	vorite PGM	Regi	stratio X	i i i i i i i i i i i i i i i i i i i
LCR LDT(221)						
LCR DMT(222)						
LCR Table Initialization(223)		Index	MAC Addr	ess I	Maximum Po	rt Device ID
Digit Conversion Table(270)		1	00000000000	00	0	0
Toll Exception Table(224)		2	0000000000	0	0	0
Emergency Code Table(226)		3	00000000000	00	0	0
COS Table		4	00000000000	0	0	0
Station Authorization Code Table(227)		5	000000000000000000000000000000000000000		0	0
System Authorization Code Table(227)						
CCR Table(228)						
Executive/Secretary(229)						
Flexible DID Conversion(231)						
System Speed Zone(232)						
Auto Ring Mode Table(233)						
Voice Mail Dialing Table(234)						
Registration Table(235)						
Mobile Extension Table(236)						
IPCR Agent Table(237)						
Dummy Dial-Tone Digit Table						



When multiple iPECS systems are located on the same LAN, it may be desirable to register addon devices employing the Registration Table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
MAC Address	Enter MAC address of a device to register		0000000000000000
Maximum Port	Enter maximum number of ports (channels) for the device.	00-99	00
Device ID	A device ID may be entered for registration. The Device ID available are shown at the bottom of the System Overview Web page.	0-255	0

Table 4.4.9.16-1 MAC REGISTRATION TABLE

4.4.9.17 Mobile Extension Table - PGM 236

Selecting Mobile Extension Table will display the Mobile Extension data entry page. Select the Station Order range desired, blue text above the table header. Selecting the blue colored text in the Table header will sort the table based on the selected column. Click **[Save]** button after changing Value.

Tables Data 🔍	1		Favorite	PGM			Mobile Extensio	on Table(2)	16)	×									
LCR Control Attribute(220) LCR LDT(221)		Enter Statio	n Range :					1	Load	0									Sa/e
LCR DMT(222) LCR Table Initialization(223)		Station Ran	ge 1000-1045																
Digit Conversion Table(270) Toll Exception Table(224)		Station Number	PGM Auth	Usage	i.	Station Group Call Through	VSF Notity	Notify Retry (1.9)	Retry Interval (1.3 min)	Notity CI	4 1	Call Back	Delay Timer (0-255)	Announcement 0 - 200 (0 : Unused)	CO Group	Telephone Number	CLI Number	Suffix DID Thi To CLI	Tel Nun As CLI Num
Emergency Code Table(226)		1000	Disable •	Disable	•	Disable +	Unused •	8.55	3	Caper	•	OFF .	0	0	1			OFF .	OFF 1
COS Table		1001	Disable +	Disable		Disable +	Unused +	3	3	Caller		OFF .	0	0	1			OFF .	OFF .
Station Authorization Code Table(227)	1	1002	Disable •	Disable		Disable +	Unused *	3	3	Cafer		OFF .	0	0	1			OFF .	OFF
System Authorization Code		1003	Disable •	Disable		Disable +	Unused +		3	Cafer		OFF .	0	0	1			OFF .	OFF
Table(227)		1004	Disable •	Disable		Disable +	Unused +	3	3	Caller		OFF .	0	0	1			OFF .	OFF
CCR Table(228)		1005	Disable •	Disable		Disable +	Unused +		3			OFF .	0	0	1			OFF .	OFF
Executive/Secretary(229)		1005	Disable •	Disable		Disable +	Unused +		3			OFF .		0	1			OFF .	OFF
Flexible DID Conversion(231)		1007	Disable •	Disable		Disable +	Unused +		3			OFF .		0	1			OFF .	OFF
System Speed Zone(232)		1008	Disable +	Disable		Disable +	Unused +		3			OFF .		0	1			OFF .	OFF
Auto Ring Mode Table(233) Voice Mail Dialing Table(234)		1009	Disable •	Disable		Disable +	Unused +		3	Caller		OFF .	5	0	1			OFF .	OFF
Registration Table(235)		1010	Disable •	Disable		Disable +	Unused +		3		÷	OFF .		0	1			OFF .	OFF
Mobile Extension Table(236)		1011	Disable •	Disable		Disable +	Unused +		3			OFF .		0	1			OFF .	OFF
IPCR Agent Table(237)		1012	Disable +	Disable		Disable +	Unused +		3			OFF .		0	1			OFF .	OFF
Dummy Dial-Tone Digit Table		1012	Disable +	Disable	;	Disable +				Caler		OFF .		0	1			OFF .	OFF
Flexible Button Default Table(239)		1013					Unused •		3					S	1			OFF .	OFF
Preset Flexible Button Default(240)			Disable •	Disable	•	Disable +	Unused *		3		•	OFF .		0					
		1015	Disable •	Disable	•	Disable +	Unused •		3	Caller	•	OFF .	C.	0	1			OFF .	OFF
etworking Data		1015	Disable •	Disable	•	Disable +	Unused *		3	Caller	•	OFF .		0	1			OFF .	OFF
323 Routing Table		1017	Disable •	Disable	•	Disable +	Unused •		3	1.0.000	•	OFF .	C.	0	1			OFF .	OFF
AN TONE CONT.		1018	Disable •	Disable	•	Disable +	Unused *		3	1.0000001	•	OFF .		0	1			OFF .	OFF
NET Data		1019	Disable •	Disable	•	Disable +	Unused •		3	Caller	•	OFF .		0	1			OFF .	OFF
one Data		1020	Disable +	Disable	•	Disable +	Unused *		3	1.0.000000	•	OFF .		0	1			OFF .	OFF
and a state		1021	Disable +	Disable	•	Disable +	Unused •		3	Care.	•	OFF .	5	0	1			OFF *	OFF
Device Login		1022	Disable •	Disable	•	Disable •	Unused •	3	3	- Council	٠	OFF .		0	1			OFF .	OFF •
JCS Standard		1023	Disable +	Disable	٠	Disable +	Unused •	3	3	Caller	٠	OFF .	0	0	1			OFF .	OFF .

Figure 4.4.9.17-1 Mobile Extension Table

A mobile phone can be used in conjunction with an iPECS Phone. The Mobile phone can access system resources available to the user's wired phone and will receive ring for incoming iPECS calls. The user may be allowed to enable the Mobile extension and define the mobile number. The system can be defined to employ a specific CO/IP Line Group to place calls to the Mobile phone. In addition, the mobile phone can be assigned to receive Station group calls to the primary extension. Also, parameters for notification of new VSF voice mails can be defined.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
PGM Authority	The user may be allowed to activate the mobile extension feature.	Disable Enable	Disable
Usage	Mobile extension feature can be enabled and Fail Over to Mobile extension can be included.	Disable Mobile Ext Fail Over	Disable
Station Group Call Enable	When the paired station is a member of a Station group (ACD, Circular, or Terminal), group calls can be sent to the active mobile extension.	Disable Enable	Disable
VSF Notify	When enabled the active Mobile Extension will receive notification by the system when the user has a new message in the built-in Voice Mail.	Unused Use	Unused
Notify Retry	The number of attempts the system will make to complete a notification when receiving busy/no-	1 – 9 Times	3 Times

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	answer is defined.		
Retry Interval	This field defines the time between notification attempts. If a notification fails, the system will retry after the timer expires.	1 – 3 minutes	3 Minute
Notify CLI	When the system sends CLI to the Mobile Extension, the CLI can be either the original caller's CLI or the CLI of the station.	Caller My Ext.	Caller
Call Back	If "ON", an incoming Mobile Extension call will be released before answered and system places a call to Mobile Extension. After the Mobile answers, the dial tone is provided and the Mobile Extension can place internal or external calls.	OFF ON	OFF
Delay Timer	When the Mobile Extension requests a Call Back, the system will place the Call Back after expiration of this Delay timer.	0 ~ 255	0
Announcement	A system announcement can be recorded to provide the Mobile caller with a menu of dialing commands available to the remote Mobile user, remote control.	0-200	0
CO Group	The CO/IP Line group used to call (ring) the Mobile Extension is defined.	eMG80:1~21 eMG800:1~201 UCP: 1~201	1
Telephone Number	The telephone number of the Mobile extension or Fail-over number of the station must be assigned for proper operation.		Not assigned
CLI Number	When the Mobile Telephone number and CLI do not match, the CLI entered here is used to authorize incoming calls from the Mobile.		Not assigned
Suffix DID table index to the CLI	An incoming DID call is passed to the Mobile Extension with the original caller's CLI and the Flexible DID Conversion Table index. (format: 'original CLI' + '*' + 'DID Table Index')	OFF/ON	OFF
Tel Num As CLI Num	If this option is set to ON, Telephone Number is used the same as CLI Number. That means, when the mobile user calls to his station, if Telephone Number or CLI Number is matched with his mobile number, then the mobile user hears system dial tone, and calling to outside is available. If this option is set to OFF, only CLI Number is matched, system dial tone is served.	OFF/ON	ON

4.4.9.18 IPCR Agent Table - PGM 237

Selecting IPCR Agent Table will display the IPCR Agent data entry page. Select the Index and Agent ID Order range desired, blue text above the table header. Selecting the blue colored text in the Table header will sort the table based on the selected column. Click **[Save]** button after changing Value.

Enter the Agent order: eMG80: 1-140 / eMG800: 1-1200 / UCP: 1-2400

ables Data 🗸 🗸	< Favo	orite PGM	PCR Agent Tabl	×						
LCR Control Attribute(220)				0						
LCR LDT(221)		number of IPCR S				Sav				
LCR DMT(222)	Enter the Agent Order (1 - 2400) : Default : 1-100									
LCR Table Initialization(223)	IPCR Nun	nber 1								
Digit Conversion Table(270)	Agent Ord	ler 1-100								
Toll Exception Table(224)										
Emergency Code Table(226)	IPCR Age	nt License : 0 / To	tal(1200)							
COS Table	Index <u>↓</u> a	Agent ID <u>↓</u> ª	Object Type	Linked Object	Announce Number					
Station Authorization Code	1	(ACR)	N/A V		0					
Table(227)	2	(ACR)	N/A •		0					
System Authorization Code Table(227)	3	(ACR)	N/A V		0					
CCR Table(228)	4	(ACR)	N/A T		0					
Executive/Secretary(229)	5	(ACR)	N/A 🔹		0					
Flexible DID Conversion(231)	6	(ACR)	N/A T		0					
System Speed Zone(232)	7	(ACR)	N/A T		0					
Auto Ring Mode Table(233)	8	(ACR)	N/A T							
Voice Mail Dialing Table(234)	9									
Registration Table(235)		(ACR)	N/A T		0					
Mobile Extension Table(236)	10	(ACR)	N/A V		0					
PCR Agent Table(237)	11	(ACR)	N/A V		0					
Dummy Dial-Tone Digit Table	12	(ACR)	N/A •		0					
Flexible Button Default Table(239)	13	(ACR)	N/A *		0					
Preset Flexible Button Default(240)	14	(ACR)	N/A •		0					
	15	(ACR)	N/A 🔻		0					
tworking Data	16	(ACR)	N/A v		0					
323 Routing Table	17	(ACR)	N/A V		0					
	18	(ACR)	N/A T		0					
NET Data	19	(ACR)	N/A T		0					
ne Data	20	(ACR)	N/A V		0					
vice Login	21	(ACR)	N/A T							
wice Login	22	(ACR)	N/A T		0					
CS Data	* 23									

Figure 4.4.9.18-1 IPCR Agent Table

This table correlates an Object Type (Station or CO/IP Line) to the IPCR (Call Recording) Agent index in the IPCR server. The table is also employed with third-party servers for call recording. When a call is placed or received by the station or CO/IP Line, the call is recorded in the IPCR server under the Agent ID (Order number).

Multiple Announcement (1~9) in IPCR can be entered in 'Announce Number'.

4.4.9.19 Dummy Dial-Tone Digit Table

Selecting Dummy Dial-Tone Digit Table will display the Dummy Dial-Tone Digit data entry page. Click **[Save]** button after changing Value.

ables Data v	< Favorite	PGM Dumn	ny Dial ×	
LCR Control Attribute(220)			0	
LCR LDT(221)				
LCR DMT(222)				
LCR Table Initialization(223)	Index	Value	Range	
Digit Conversion Table(270)	1		Max 6 Digits ('0~9', **', #', 'X')	
Toll Exception Table(224)	2		Max 6 Digits ('0~9', '*', '#', 'X')	
Emergency Code Table(226)	3		Max 6 Digits ('0~9','*','#','X')	
COS Table	4		Max 6 Digits ('0~9', '*', #', 'X')	
Station Authorization Code Table(227)	5		Max 6 Digits ('0~9','*','#','X')	
System Authorization Code	6		Max 6 Digits ('0~9',**','#','X')	
Table(227)	7		Max 6 Digits ('0~9', '*', '#', 'X')	
CCR Table(228)	8		Max 6 Digits ('0~9', '*', '#', 'X')	
Executive/Secretary(229)	9		Max 6 Digits ('0~9', '*', #', 'X')	
Flexible DID Conversion(231)	10		Max 6 Digits ('0~9', '*', '#', 'X')	
System Speed Zone(232)	11		Max 6 Digits ('0~9', '*', '#', 'X')	
Auto Ring Mode Table(233)	12		Max 6 Digits (0~9, **, **, X)	
Voice Mail Dialing Table(234)				
Registration Table(235)	13		Max 6 Digits ('0~9', '*', #', 'X')	
Mobile Extension Table(236)	14		Max 6 Digits ('0~9','*','#','X')	
IPCR Agent Table(237)	15		Max 6 Digits ('0~9','*','#','X')	
Dummy Dial-Tone Digit Table	16		Max 6 Digits ('0~9', '*', #', 'X')	
Flexible Button Default Table(239)	17		Max 6 Digits ('0~9', '*', '#', 'X')	
Preset Flexible Button Default(240)	18		Max 6 Digits ('0~9', '*', #', 'X')	
letworking Data	19		Max 6 Digits ('0~9','*', #', 'X')	
-	20		Max 6 Digits ('0~9','*','#','X')	

Figure 4.4.9.19-1 Dummy Dial-Tone Digit Table

When digit conversion is programmed, the CO line is seized after digit conversion is completed and therefore user cannot hear the CO dial tone from PX until completing digit conversion. For this case, a dummy dial tone can be programmed. Pressing one of pre-programmed digits ('0–9', '*', '#', X') will provide CO dial tone to the user regardless of CO line seizure.

4.4.9.20 Flexible Button Default Table – PGM 239

Selecting Flexible button default table will display the below page. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

ables Data 🗸	< Favori	te PGM	Flexible Button X			
LCR Control Attribute(220)			U U			
LCR LDT(221)	Enter Index F	Range(1 - 30) :			oad	Save
LCR DMT(222)						
LCR Table Initialization(223)	Index Range	1				
Digit Conversion Table(270)	Check All	Button	Туре	Value	Label	
Toll Exception Table(224)		Flex Button 1	N/A 🔻			
Emergency Code Table(226)		Flex Button 2	N/A 🔻			
COS Table		Flex Button 3	N/A 🔻			
Station Authorization Code Table(227)		Flex Button 4	N/A 🔻			
System Authorization Code		Flex Button 5	N/A 🔻			
Table(227)		Flex Button 6	N/A T			
CCR Table(228)		Flex Button 7	N/A T			
Executive/Secretary(229)		Flex Button 8	N/A T			
Flexible DID Conversion(231)						
System Speed Zone(232)		Flex Button 9	N/A •			
Auto Ring Mode Table(233)		Flex Button 10	N/A T			
Voice Mail Dialing Table(234)		Flex Button 11	N/A 🔻			
Registration Table(235)		Flex Button 12	N/A 🔻			
Mobile Extension Table(236)		Flex Button 13	N/A 🔹			
IPCR Agent Table(237)		Flex Button 14	N/A 🔻			
Dummy Dial-Tone Digit Table		Flex Button 15	N/A 🔹			
Flexible Button Default Table(239)		Flex Button 16				
Preset Flexible Button Default(240)		Flex Button 17				
Networking Data		Flex Button 18				
Networking Data						
H.323 Routing Table		Flex Button 19				
T-NET Data		Flex Button 20	N/A T			
I-NE I Data		Flex Button 21	N/A 🔻			
Zone Data		Flex Button 22				
Davias Losin		Flex Button 23	N/A 🔻			
Device Login		Flex Button 24	N/A 🔻			
UCS Standard		Flex Button 25	N/A 🔹			

Figure 4.4.9.20-1 Flexible Button Default Table

The system provide 30 default flexible button table so administrator can be configured each table for using 'Preset Flexible Button Default (240)'.

Administrator can assign the type among the below types on Flexible button.

Table 4.4.9.20-1 FLEX BUTTON TYPE

TYPE	REMARK
N/A	Empty (unassigned), may be defined by the user.
CO Line	Assigns button to access a defined CO/IP line.
CO Group	Assigns button to access a free line in the CO/IP Group.
Loop	Assigns button to access a loop line.
Station Number	Assigns button as DSS/BLF for the assigned station number.
Programming (Numbering Plan)	Assigns button to dial a code from the Flexible Numbering Plan, see Appendix section.
Programming (PGM)	Assigns button to perform a User Program function from the Fixed Numbering Plan, Appendix section.
Station Speed Bin	Station Speed Dial bin.
System Speed Bin	System Speed Dial bin.
Net Station Number	Refer to section Network Numbering Plan Table - PGM 324.
U-Loop	U-Loop button for call wait of internal & external call.

4.4.9.21 Preset Flexible Button Default – PGM 240

Selecting Preset flexible button default will display the below page. Click **[Save]** button after changing Value.

	< Fav	orite PGM P	reset Flexibl X	
ontrol Attribute(220)			~	
DT(221)				
DMT(222)			Condition (And Operation)	
Table Initialization(223)	Priority	Station Type	No. of Flexible Buttons Station Range (Blank means all station range.)	Prosot Indox
Conversion Table(270)	1	All •		N/A V
xception Table(224)				
ncy Code Table(226)	2	All		N/A ▼
able	3	All		N/A ▼
n Authorization Code (227)	4	All	All	N/A ▼
m Authorization Code	5	All	All	N/A ▼
227)	6	All		N/A 🔻
Table(228)	7	All	All V	N/A 🔻
utive/Secretary(229)	8	All		N/A T
e DID Conversion(231)	9	All		N/A T
Speed Zone(232)	10	All		N/A T
ing Mode Table(233)	11	All		N/A T
fail Dialing Table(234)				
ration Table(235)	12	All		N/A 🔻
Extension Table(236)	13	All		N/A ▼
gent Table(237)	14	All	All	N/A ▼
y Dial-Tone Digit Table	15	All	All 🔻	N/A ▼
e Button Default Table(239)	16	All	All V	N/A ▼
Flexible Button Default(240)	17	All		N/A 🔻
D.	18	All		N/A T
ng Data	19	All		N/A T
outing Table	20	All		N/A T
	21	All		N/A T
ata	21	All		N/A T
ta				
	23	All		N/A ▼
ogin	24	All		N/A ▼
ndard	25	All	All V	N/A ▼

Figure 4.4.9.21-1 Preset Flexible Button Default

Administrator can assign Preset flexible button table to the station automatically by default. Before connecting the station, administrator has to set this table according to Priority, Station Type, the number of Button, Station Range, and check the preset Index (1~30). The preset index means the range of Flexible Button Default Table (PGM 239). Selecting the Networking Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

PGM Base Function Base	< Favorite PGM			×
Q PGM Search				Edit
System ID & Numbering Plans	System Overview System ID & Numberin	System IP Plan(102) System ID & Numberin	Device IP Plan(103) System ID & Numberin	Common Attributes(1 Station Data
Station Data				
Board Based Data	Flexible Buttons(115/ Station Data	Common Attributes(1 CO Line Data	CO/IP Ring Assignm CO Line Data	CID/CPN Attributes(151) CO Line Data
CO Line Data				
System Data	System Attributes(16 System Data	System Password(162) System Data	Station Group Assign Station Group Data	Station Group Attribu Station Group Data
Station Group Data				
ISDN Line Data	Station Authorization Tables Data	System Authorization Tables Data	Flexible DID Conversi Tables Data	
SIP Data				
< Tables Data				
Networking Data v				
Net Basic Attributes(320) Net Supplementary Attr(321) Net CO Line Overview				
Net CO Line Overview Net CO Line Attributes(322)				
Net Numbering Plan Overview				
Net Numbering Plan(324)				
Net Feature Code Table(325)				
H.323 Routing Table				
T-NET Data				
Zone Data				

Figure 4.4.10-1 Networking Data

4.4.10.1 Network Basic Attributes - PGM 320

Selecting Network Basic Attributes will display the Network Basic Attributes entry page. Click **[Save]** button after changing Value.

PGM Base Function Base		Favorit	e PGM Net Basic	×		
PGM Search	0					
System ID & Numbering Plans		Order <u>↓</u> a	Attribute	Value	Range	
Station Data		1	Net Enable	OFF T	00-99	
Clairon Data	_		NET Retry Count		00-99	
Board Based Data		3	NET CNIP Enable	ON V		
	-	4	NET CONP Enable	OFF V		
CO Line Data		5	NET Signal Method	Facility T		
System Data		6	NET Cas Enable	OFF V		
	_	7	NET VPN Enable	OFF V		
Station Group Data		8	NET CC Retain Mode	OFF T		
ISDN Line Data		9	NET IP AUTH	OFF V		
SIP Data						
Tables Data						
Networking Data	-					
Net Basic Attributes(320)						
Net Supplementary Attr(321)						
Net CO Line Overview						
Net CO Line Attributes(322)						
Net Numbering Plan Overview						
Net Numbering Plan(324)						
Net Feature Code Table(325)						

Figure 4.4.10.1-1 Network Basic Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Net Enable	For operation, the Networking function must be enabled here. Note a license is required.	OFF ON	OFF
Net Retry Count	Not used.	00-99	0
Net CNIP Enable	The name of calling station is sent to the called iPECS UCP. CNIP is shown in the LCD of the called party's station.	OFF ON	ON
Net CONP Enable	The name of the connected station is sent to the calling iPECS system. The CONP is shown in the LCD of the calling party's station.	OFF ON	OFF
Net Signal Method	Network signaling can be sent in the Facility or User QSIG supplementary service message.	UUS/ Facility	Facility
Net Cas Enable	Not used.	OFF ON	OFF
Net VPN Enable	Not used.	OFF ON	OFF
Net CC Retain Mode	This field defines the Network signaling retain mode for CCBS service.	OFF ON	OFF
Net IP Auth.	For operation, the Networking function must be enabled here. Note a license is required.	OFF ON	OFF

Table 4.4.10.1-1 NETWORK BASIC ATTRIBUTES

4.4.10.2 Network Supplementary Attributes - PGM 321

Selecting Network Supplementary Attributes will display the Network Supplementary Attributes entry page. Click **[Save]** button after changing Value.

PGM Base Function Base	< Fa	vorite PGM Net Supplem	entary O		
PGM Search	0				
System ID & Numbering Plans	Order <u>l</u> a	Attribute	Value	Range	
	1	Net Transfer Mode	REROUT V		
Station Data	2	TCP Port For BLF	9500	9500-9999	
Board Based Data	3	UDP Port For BLF	9501	9500-9999	
	4	BLF Manager IP Address			
CO Line Data	5	Duration of BLF State	10	01-99(100ms)	
System Data	6	Multicast IP Address			
·	7	Net Trans RCL Timer	10	001-300(sec)	
Station Group Data	8	Net Reroute CO Group	0	0- 20	
ISDN Line Data	9	BLF Service Usage	ON V		
SIP Data	10	Alternate/Secondary Signal Port	0	0, 1024-65535	
SIP Data					
Tables Data					
Networking Data ~					
Networking Data					
Net Basic Attributes(320)					
Net Supplementary Attr(321)					
Net CO Line Overview					
Net CO Line Attributes(322)					
Net Numbering Plan Overview					
Net Numbering Plan(324)					
Net Feature Code Table(325)					

Figure 4.4.10.2-1 Network Supplementary Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Net Transfer Mode	Call Forward and Transfer over the network employs the selected Rerouting or Join method	REROUT/ JOIN	REROUT
TCP Port for BLF	The TCP/IP port for BLF message packets to BLF Manager is defined.	9500-9999	9500
UDP Port for BLF	The UDP port for BLF message packets to BLF Manager is defined.	9500-9999	9501
BLF Manager IP	The IP Address of BLF Manager server is required when iPECS UCP is configured with eMG systems in the Network.		0.0.0.0
Duration of BLF State	The system sends BLF messages to the BLF Manager at intervals of this timer.	01-99 (Sec.)	10
Multicast IP	The multicast IP address for BLF service.		0.0.0.0
Net Trans Recall timer	When a call forward or transfer does not receive a response for the Network system, the call recalls the transferring party at expiration of this timer.	001-300 (msec)	10
NET Reroute CO Group	If an outgoing SIP call receives no response after expiration of this timer, the call is rerouted to the alternate CO line.	eMG80:0~20 eMG800:0~200 UCP:0~200	
BLF Service Usage	BLF Manager support must be enabled for use.	OFF, ON	ON

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Alternate/Secondary signal port	This signal port is used to add an alternate or secondary receiving signal port. A default receiving signal port is TCP 1720 and an additional signal port will be opened if this field is configured to valid value. When the system is installed behind xDSL modem, the problem of consecutive second call can happen by uncontrolled H.323 ALG function at xDSL modem. This field can be used to solve the problem of consecutive second call.	0, 1024-65535	0

4.4.10.3 Net CO Line Overview

Selecting Net CO Line Overview will be displayed as below.

	PGM Base Function Base	<	Favorite PGM	Net CO) Line Over	× C			
Q	PGM Search	0	Device Type ↓ ^a	CO Line ↓ª	CO Type ↓ª	INet CO Group ↓	^a Net CO Type ↓ ^a	Interworking System	
			VOIU	1	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
1	System ID & Numbering Plans		VOIU	2	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	Station Data		VOIU	3	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
Ľ			VOIU	4	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
1	Board Based Data		VOIU	5	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
			VOIU	6	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
1	CO Line Data		LGCM LOOP 4 GW	7	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	System Data		LGCM LOOP 4 GW	8	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
_	e jetem Para		LGCM LOOP 4 GW	9	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
1	Station Group Data		LGCM LOOP 4 GW	10	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
			MATM GW	11	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	ISDN Line Data		MATM GW	12	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	SIP Data		MATM GW	13	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
			MATM GW	14	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
1	Tables Data		MATM GW	15	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	Network in Data	~	MATM GW	16	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	Networking Data	~	MATM GW	17	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	Net Desis Attributes (200)		MATM GW	18	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	Net Basic Attributes(320)		MATM GW	19	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	Net Supplementary Attr(321)		MATM GW	20	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	Net CO Line Overview		MATM GW	21	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	Net CO Line Attributes(322)		MATM GW	22	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	Net Numbering Plan Overview		MATM GW	23	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	Net Numbering Plan Table(324)		MATM GW	24	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	a)
	Net Feature Code Table(325)		MATM GW	25	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
			MATM GW	26	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	H.323 Routing Table		T1IM GW	27	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	T-NET Data		T1IM GW	28	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	I-INE I Data		T1IM GW	29	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	Zone Data		T1IM GW	30	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
			T1IM GW	31	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	Device Login		T1IM GW	32	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)
	UCS Data	-	T1IM GW	33	Normal	0	PSTN	iPECS (Basic Call, Supplementary Service	e)

Figure 4.4.10.3-1 Network CO Line Overview

4.4.10.4 Network CO Line Attributes - PGM 322

Selecting Network CO Line Attributes will display the Network CO Line Group entry page. Enter a valid CO/IP Line range and click **[Load]** to enter the Network CO Line data. Click **[Save]** button after changing Value.

Enter CO Range: eMG80: 1-74 / eMG800: 1-600 / UCP: 1-998

PGM Base Function Base	< Fave	orite PGM Net CO	Line Attri $\overset{\mathbf{x}}{\mathcal{O}}$		
Q PGM Search	Enter CO	Range (1 - 998) :		? Load	i
System ID & Numbering Plans	CO Range	e 1			
Station Data	Order <u>↓</u> a		Value		Range
	1	Networking CO Group	0		0-24
Board Based Data	2	Network CO Line Type	PSTN V		
CO Line Data	3	Interworking System	iPECS (Basic Call, Supplementary Service)	•	
Station Group Data ISDN Line Data SIP Data Tables Data					
Networking Data ~					
Net Basic Attributes(320)					
Net Supplementary Attr(321)					
Net CO Line Overview					
Net CO Line Attributes(322)					
Net Numbering Plan Table(324)					
Net Feature Code Table(325)					

Figure 4.4.10.4-1 Network CO Line Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Networking CO Group	The CO/IP Lines in the assigned group are employed as Network CO Lines, connecting to other systems in the network.	00-24	00
Network CO Line Type	The CO/IP Line is assigned for use by the network as a PSTN (carrier) or connection to the network.	NET/ PSTN	PSTN
Interworking System	Select Qsig interworking system among the below type. - iPECS (Basic call, Supplementary service) - Nortel (Basic call, Name service) - Panasonic (Basic call, Name service-Tunneled message) - Cisco (Basic call, Name service-Display IE) - Simens (Basic call, Name service) - Astra (Basic call)	Refer to Description	iPECS (Basic call, Supplementar y service)

Table 4.4.10.4-1 NETWORK CO LINE ATTRIBUTES

4.4.10.5 Network Numbering Plan Table Overview

Selecting Network Numbering Plan Table Overview will be displayed as below.

PGM Base Function Base	×		Favorite PG	M		Net Numberle	ng Plan Overview	×														
DKT 0	10.775	 Networking 		Net CO	CPN ISDN	CPN	CPN	CPN	CPN	SETUP WAIT RESPONSE	ALT	1P		Digit PSTN	PSTN	CO And	^I Firewall	Transit Out Auth		Site E	mergency	Tunnela
System ID & Numbering Plans	ł.	Type <u>1</u> ⁿ	Plan 1 ^a	1º.	1ª	1ª	INFORMATIONS	CPN INFORMATION3	INFORMATION4	TIME	SPEED		am R	lepeat Enbloci	Method	CU	Routing	COS	Hide	Name	Rerout	SIG MS
Station Data	0	NET								0				No No	NET	OFF	ON	No	No		0	OFF
	1	NET								0		- 5	88 1	No No	NET	OFF	ON	No	No		0	OFF
icard Based Data	2	NET								0		5	88 1	No No	NET	OFF	ON	No	No		0	OFF
O Line Data	3	NET								0		9	88 1	No No	NET	OFF	ON	No	No		0	OFF
O Die Data	4	NET								0		5	88 1	No No	NET	OFF	ON	No	No		0	OFF
ystem Data	5	NET								0		5	88 1	No No	NET	OFF	ON	No	No		0	OFF
	6	NET								0		- 5	88 1	No No	NET	OFF	ON.	No	No		0	OFF
tation Group Data	7	NET								0		5	88 1	No No	NET	OFF	ON.	No.	No.		0	OFF
	8	NET								ġ.		- 5	88 1	No No	NET	OFF	ON	No	No		0	OFF
SDN Line Data	9	NET								0		5	88 1	No No	NET	OFF	ON	No	No		0	OFF
IP Data	10	NET								0		5	88 1	No No	NET	OFF	ON	No	No		0	OFF
	11	NET								0		6		No No	NET	OFF	ON	No	No		0	OFF
ables Data	12	NET								1		6		No No	NET	OFF	ON	No	No		0	OFF
	13	NET								0				No No	NET	OFF	ON	No	No		0	OFF
etworking Data	14	NET								0				No No	NET	OFF	ON	No	No		0	OFF
Net Basic Attributes(320)	15	NET								0				No No	NET	OFF	ON	No	No		0	OFF
	15	NET								0				No No	NET	OFF	ON	No	No		0	OFF
Net Supplementary Attr(321)	17	NET								0				No No	NET	OFF	ON	No	No		0	OFF
Net CO Line Overview	17	NET								3					NET	OFF	ON				0	OFF
Net CO Line Attributes(322)										0				No No				No	No			
Net Numbering Plan Overview	19	NET								9				No No	NET	OFF	ON	No	No		0	OFF
Net Numbering Plan(324)	20	NET								0				No No	NET	OFF	ON	No	No		0	OFF
Vet Feature Code Table(325)	21	NET								0				No No	NET	OFF	ON	No	No		0	OFF
	22	NET								0				No No	NET	OFF	ON	No	No		0	OFF
323 Routing Table	23	NET								0				No No	NET	OFF	ON	No	No		0	OFF
	24	NET								9				No No	NET	OFF	ON	No	No		0	OFF
NET Data	25	NET								0		5	88 1	No No	NET	OFF	ON	No	No		0	OFF
one Data	25	NET								0		5	88 1	No No	NET	OFF	ON	No	No		0	OFF
	27	NET								0		- 9	88 1	No No	NET	OFF	ON	No	No		0	OFF
evice Login	29	NET								0		9	88 1	No No	NET	OFF	ON.	No.	No.		0	OFF
-1.001109-0.0.1	29	NET								8		5	88	No No	NET	OFF	ON	No	No		0	OFF
CS Standard	30	NET								0		9	88 1	No No	NET	OFF	ON	No	No		0	OFF
	* 31	NET								3		5	88 1	No No	NET	OFF	ON	No	No		0	OFF

Figure 4.4.10.5-1 Network Numbering Plan Table overview

4.4.10.6 Network Numbering Plan - PGM 324

Selecting Network Numbering Plan Table will display the Network Numbering Plan Table data entry page. Enter a valid table index and click **[Load]** to enter the Network Numbering Plan data. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing Value.

Cililiane Funding	3 <u> </u>			examp P	NC			. 16	d Numbering P	han table(528)	4																		
The least 0	Enter Ind	es Range	@ (251)					12 1.244	1																				31
lymen O & Nunbeing Ners			ng Plan Tal 9 Numberio Max 10 Jinclude	o Plan	Net CO Group	CPW ISON INFORMATION	CPN	CPN		CFN INFORMATION	SETUP WAT HE SPONSE TIME	ALT	UCP IF UCF Po Addr Num II-1000	Ban	e PST lat Enblo	n PSTN ck Meth	cLJ CO of Code	Albi Fee		Out 3M DS Dyri	Hide	Inte Name Emer Max 12 Re-	out SI	D WSQ	Atternate/Secondary Signal Port (F45535)	ID .	Remote Route ID (Max 15	Jest Name o	
Nation Data					10-241	(Max 15 Digits)	(Enter IP Address)	ASDVIE)	(Criter IP Address)	(Enter IP Address)	(0, 3-15 sec)	SPEED (25000- 31399)										Aaracters) (0-10				(Max 15 Characters)	(Max 15 Characters)		
sent Based Data		41.											6599	110	▼ Np	* NET	 00 	* .0%	♥.Np	♥ No	•	0	OF		• 4			0/1	•
	- 3												5588	148	1.10	* NET	4 OH	* 05 * 0N	¥ N8	¥ /10	1	.0	OF		(g			OFF	
Lite Data	-38	AT 4											5593	10	• 10	* 1617 * 1617	1 011	* 04 * 04	* 10 * 10	♥ tio ♥ tio			00		10 10			OFF.	
sten Cata	12465												5588	No			1.044	1.01	¥ 101	¥ 160	-		OF		ia.			OFF	
1911 (1913	1993												8513	No.	100	V SIZT	¥ 0.00	101	W his	1 100			04					OFF.	- 2
Abn Group Data	1295												. 5593	Ter.	1.000	¥ 167	1.088	1.01	W fam	¥.10		0	0FI		10			OFF.	-0
	1.915												5535	. Nat	1.10	V MT	1.017	YON	V las	V No		a	Ċ.FI		ra.			OFT	
21 Line Data	14,000												1014	lin .	• 16e	. NET	. 011	* O1	* 1in	¥.5kg			071		ed.			OFF	
Data	12.511										1		5544	Net	¥ lin	V ALT	¥ 017	¥ 0%	¥.lis	₩ his		0	OP1		0			011	
1918	0.35	IET 1									(0598	fin .	¥.7m	. HET	¥ 088	¥ 0N	V No.	¥.76			OF		10			OFF	
cies Data	0.11										5		0500	112	• Fig.	¥.1027	* OFF	* 0N	v .ha	¥ 165		.0	OF		r.a			OFT	
	a [d]		1								1		8528	lip .	¥.16	V NET	A OLE	¥ 0N	¥.110	¥-141		0	OF		0			OFE	
teoring Data 👘	0 (131)										13		6500	No	¥ No.	¥367	 OII 	ON	• 10	▼ No.		.0	OF		• 0			OFF.	
		WT .									£		8555	1is	¥.50	♥ NET	A Obs.	¥.0%	W.las	¥ 148		0	OF		ŧ٥.			OFF	
wt Basic		IET 1									8		5588	No	 T No 	¥ NET	4.019	T ON	V .100	₹ 560		0	OF		r 0			OFF	
tributes(320)		ET 1									K		(8553	No.	¥ %p	¥ 167	4.044	¥.0N	♥ 14p	¥.1a		0	OF		0			077	•
et Supplementary		67											5588	192	10	* NET	4.044	* ON	¥.90	* 540			OF		10 10			OFF	
im(321)	- 16.7												5535	No	4.140	¥ NET	4 014	¥ ON	V No.	₩ No		0	OF1		3			OFF OFF	- 2
lat 00 Line Overview	12	er -											0588 5588	Ne	1.748	V NET	1 011	* 05 * 05		¥ /No	-		00		a 1			017	- 5
er 00 Une mitules(322)		47											2000	545	• 145	4 1421	• 014	• 04	¥.56	▼.5in			04		4			044	-
Rel Rumbering Plan Table(124)																													
Net Feature Code Table(325)																													

Figure 4.4.10.6-1 Network Numbering Plan Table

The Network Numbering Plan establishes the digit strings that make-up the numbering plan and associated routing for each Plan code.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Network Type	The type or use of the code is defined as directed to the PSTN (carrier) or a Networked system.	NET / PSTN	NET
Numbering Plan Code	This field defines the digits, 0 ~ 9 that make up a Network Numbering Plan code. An '*' will represent any digit. To assign the code for the stations in another system, enter the common station number digits followed by "#".	Max. 16 digits (Include * and #)	
Networking CO Group	The Numbering Plan CO Group indicates the Network CO/IP Group that is used for the connection. A '00' entry is an internal net station number.	00-24	
CPN ISDN Information	When an ISDN Line is used to place a network call, the CPN ISDN Information and the network Number are used as the Called party number.	Max. 16 digits	
CPN Information	 When a VoIP channel is used to place a network call, the CPN used is the IP address associated with the VoIP channel. 1: 00 CPN INFORMATION 01 2: 00 CPN INFORMATION 02 3: 00 CPN INFORMATION 03 4: 00 CPN INFORMATION 04 	Enter IP address	
Setup Wait Response Time	Networking call-setup failure timer when there is no proceeding message from network (i.e. IP-Network is down)	0, 3~15 Sec.	0
ALT Speed Bin	Should the Network path fail, the system can place the call over an alternative path using a System Speed Dial	eMG80:2000~4999 eMG800:2000~9999	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	number.	UCP: 20000~31999	
MPB IP Address	This field is the IP Address of the destination system for the code		0.0.0.0
MPB Port number	The TCP/IP port number of destination system for the Net Numbering Plan code is defined.	0000-9999	5588
Digit Repeat	When the number plan code, see above, is for PSTN call or transit-call, the number code can be included in SETUP message.	Yes No	No
PSTN Enblock	When a PSTN receives a Transit-out call from a networked user, the digits can be sent En-block (YES) or Over-lap (NO).	Yes No	No
PSTN CLI Method	The CLI sent with the call for this code can be set as the NET CLI (station number) or PSTN, which sends the CLI configured for the CO/IP Line and Station CLI.	NET PSTN	NET
CO Attendant Code CLI	When a networked system places a transit out call, the Centralized ATD CLI can be sent.	OFF ON	OFF
Firewall Routing	When the system can communicate with the networked system directly, over a common VPN, the systems Non Firewall address is sent in IP packets (OFF). Otherwise, the Firewall IP address is sent (ON).	OFF ON	ON
Transit Out Auth COS	When a user requests a transit-out call by seizing a CO line, COS may be applied according to the authorization code.	Yes No	No
SMDR Digit Hide	For a Transit-out call from the iPECS, the networked system that places the call may desire to receive the Authorization code	Yes No	No
Site name	A twelve-character name can be assigned to the system for use with network calls.	Max. 12 characters	
Emergency reroute timer	When a networked station places an Emergency call and the "Emergency CO or Group" in the Station Common Attributes is a Transit-out CO/IP Line or group, the call will Fail-over to the "Fail-over CO Group" in PGM 133 or the "Net Reroute CO Group" in PGM 321 after this timer expires. The "Fail-over CO Group" will have priority.	0-10 (Sec.)	00
Tunneled SIG MSG	Send and Receive H323 message that include ISDN QSIG message. It is used to make networking with Panasonic system.	OFF ON	OFF
Alternate/Secondary signal port	This destination signal port is used on calling to remote network system. A default destination signal port is TCP 1720 but the port number is changed if this field is configured to valid value. When the system is installed behind xDSL modem, the problem of consecutive second call can happen by uncontrolled H.323 ALG function at xDSL modem. This field can be used to solve the problem of consecutive second call. Here, the value should be an alternate or secondary receiving signal port which is configured at remote system.	0-65535	
Local route ID	These two fields are used when a remote network	Max. 15 characters	

Table 4.4.10.6-1 NETWORK NUMBERING PLAN TABLE

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Remote route ID	system want to check the route ID value to authenticate the system. Here, 'Local Route ID' is the route ID string for local system. And 'Remote Route ID' is the route ID string for remote system.	Max. 15 characters	
Sending Name option	Basically the calling party name is transferred in QSIG messages. This field is an additional way to send the calling party name. In some PBX systems, the Q.931 Display IE field is used to transferring the calling party name and this value can be used as an interoperating solution for displaying the calling party name.	OFF, Display IE(CISCO)	OFF

Table 4.4.10.6-1 NETWORK NUMBERING PLAN TABLE

4.4.10.7 Network Feature Code Table - PGM 325

Selecting Network Feature Code Table returns the data entry page. Click **[Save]** button after changing Value.

	PGM Base Function Base	< Favorite PGM	Net Feature X	
c	PGM Search			Save
	System ID & Numbering Plans	Value Range : Internal Pag Conference Room(1-9), Ca		(1-2), All Call Page(1-3: 1(INT), 2(EXT), 3(ALL)), Net Door Open(1-4),
	Station Data	Index Net Feature Code	Туре	Value
		1	N/A 🔻	
	Board Based Data	2	N/A 🔻	
	CO Line Data	3	N/A •	
	System Data	4	N/A 🔻	
	System Data	5	N/A 🔻	
	Station Group Data	6	N/A 🔻	
	ISDN Line Data	7	N/A •	
		8	N/A 🔻	
	SIP Data	9	N/A 🔻	
<	Tables Data	10	N/A 🔻	
	Networking Data	11	N/A 🔻	
	Networking Data ~	12	N/A 🔻	
	Net Basic Attributes(320)	13	N/A 🔻	
	Net Supplementary Attr(321)	14	N/A 🔻	
	Net CO Line Overview	15	N/A T	
	Net CO Line Attributes(322)	16	N/A T	
	Net Numbering Plan Overview	17	N/A T	
	Net Numbering Plan(324)	18	N/A T	
	Net Feature Code Table(325)	19	N/A T	
	H.323 Routing Table	20	N/A T	

Figure 4.4.10.7-1 Network Feature Code Table

Table 4.4.10.7-1 NETWORK FEATURE CODE TABLE	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Net Feature Code	Digit sequence or code used to activate special Network Features.	16 digits	None
Net Feature type	Each Network Feature Code is assigned to activate a feature in the destination system.	N/A, Internal Page, External Page, All Call Page, Net Door Open, Conference Room, Call Park,	N/A

In case of eMG80, the value range is as below:

Internal page: 1-35, External page (1), All Call page (1-3: 1(INT), 2(EXT), 3(ALL)), Net door Open (1-2), Conference Room (1-9), Call Park (1-19)

In case of eMG800, the value range is as below:

Internal page: 1-100, External page (1), All Call page (1-3: 1(INT), 2(EXT), 3(ALL)), Net door Open (1-2), Conference Room (1-9), Call Park (1-200)

4.4.11 H.323 Routing Table

Selecting the H.323 Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

PGM Base Function Base	< Favorite PGM				×
Q PGM Search O				(Edit
System ID & Numbering Plans	System Overview System ID & Numberi	System IP Plan(102) System ID & Numberi	Device IP Plan(103) System ID & Numberi	Common Attributes(Station Data	
Station Data					
Board Based Data	Flexible Buttons(115/ Station Data	Common Attributes(CO Line Data	CO/IP Ring Assignm CO Line Data	CID/CPN Attributes(1 CO Line Data	
CO Line Data					
System Data	System Attributes(16 System Data	System Password(162) System Data	Station Group Assig Station Group Data	Station Group Attrib Station Group Data	
Station Group Data					
ISDN Line Data	Station Authorizatio Tables Data	System Authorizatio Tables Data	Flexible DID Convers Tables Data		
SIP Data					
Tables Data					
Networking Data					
H.323 Routing Table V					
H.323 Basic Attributes(326)					
H.323 CO Group Attributes(327) H.323 Incoming route table(328)					
T-NET Data					
Zone Data					
Device Login					
UCS Data					
DECT Data					

Figure 4.4.11-1 H.323 Routing Table Main Page

4.4.11.1 H.323 Basic Attributes -PGM 326

Selecting H.323 Basic Attributes will display the data entry page. Click **[Save]** button after changing Value.

Enter Device/GW slot sequence number: eMG80: 1-300 / eMG800: 1-2890 / UCP: 1-3688

PCM Base Function Base	Fa	vorite PGM H.323 Basic	× A ×		
Q PGM Search	Enter De	vice/GW Slot Sequence Numb	er (1 - 3688) : Load	1	Save
System ID & Numbering Plans	Device/0	Gateway Sequence(Slot) Numbe	er 2430		
Station Data	Orde	r J ^a Attribute	Value		
Board Based Data					
CO Line Data					
System Data					
Station Group Data					
ISDN Line Data					
SIP Data					
< Tables Data					
Networking Data					
H.323 Routing Table V	·				
H.323 Basic Attributes(326)					
H.323 CO Group Attributes(327)					
H.323 Incoming route table(328)					

Figure 4.4.11.1-1 H.323 Basic Attributes

H.323 Signaling can be operated with each VOIB/VOIM or MPB/UCP.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	If it is set to ON, system allows H.323 signaling with system IP address. Or, each VOIB/VOIM IP Address can be used.	OFF ON	OFF

Table 4.4.11.1-1 H.323 Basic Attributes

4.4.11.2 H.323 CO Group Attributes -PGM 327

Selecting H.323 CO Group Attributes will display the data entry page. Click **[Save]** button after changing Value.

Enter Group number: eMG80: 1-20 / eMG800: 1-200 / UCP: 1-200

Q	PGM Search O	Enter Gro	up Number (1 - 200) :	Load	
	System ID & Numbering Plans	Group Nur	nber 1		
	Station Data	Order 1ª	Attribute	Value	Range
	Board Based Data	1	H323 Setup Mode	Fast •	
	Board Based Data	2	H323 Tunneling Mode	ON V	
	CO Line Data	3	H323 Early Media (earlyH245)	Setup Proceeding Alerting	
	System Data	4	H323 DTMF Path	IN T	
	System Data	5	TCP Keep Alive	ON T	
	Station Group Data	6	TCP No Delay	OFF V	
	ISDN Line Data	7	Sending Setup Ack message	OFF V	
				Gatekeeper Attributes	
	SIP Data	1	RAS Usage	OFF V	
	Tables Data	2	RAS MultiCast IP Port	1718	1-65535
	Tables Data	3	RAS MultiCast IP Address	224.0.1.41	
	Networking Data	4	RAS UniCast IP Port	1719	1-65535
	H.323 Routing Table	5	RAS UniCast IP Address	82.134.80.2	
	1.323 Routing Table *	6	RAS Keep Alive Time	120	001-999(1sec)
	H.323 Basic Attributes(326)	7	RAS IIR Multiplier Ratio	80	10-100 %
	H.323 CO Group Attributes(327)	8	RAS Number Plan Prefix	9	Max 23 Digits
	H.323 Incoming route table(328)	9	RAS Light RRQ Usage	OFF •	
		10	RAS GateWay ID(128Char)		
	T-NET Data	11	Fail Over Usage	OFF •	
	Zone Data	12	Call Setup No Response Time	5	0, 3 - 15 sec
		13	FailOver CO Group Number		1 - 200

Figure 4.4.11.2-1 H.323 CO Group Attributes

The VOIP channels are used for Distributed Networking, access to SIP or H.323 networks and for remote iPECS devices. When the standard H.323 VoIP protocol is employed for an external VoIP call, several attributes of these channels can be assigned. The H.323 call set-up mode and tunneling (H.245 Encapsulation) can be established.

Also for H.323 support, a RAS (Registration, Admissions and Status) channel can be defined. The RAS channel IP addresses (uni-cast and multi-cast) as well as the IP port Numbering Plan and other H.323 set-up characteristics are defined.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
H.323 Setup mode	H.323 IP calls can be set-up using the H.323 normal or Fast Start mode.	Fast Norm	Fast
H.323 Tunneling mode	H.323 IP calls can be set-up using the H.245 encapsulation (Tunneling).	OFF ON	ON
H323 Early Media (early H245)	This feature is the ability of two user endpoints to communicate before call is actually established in normal call mode. This feature is not used when 'H323 Setup Mode' is 'Fast'. * Setup: Caller party tries to open early media on receiving the Setup message. * Proceeding: Calling party tries to open early media on receiving the Proceeding message.	Setup, Proceeding, Alerting	

Table 4.4.11.2-1 H.323 CO Group Attributes

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	* Alerting: Calling party tries to open early media on receiving the Alerting message.		
H.323 DTMF Path	During a connection, DTMF Digits can be sent in-band or out of band (H.245).	IN/ RFC2833/ H245_ALNUM/ H225_SIG/ H245_SIG	IN
TCP Keep Alive	The system will send a polling message every 75 seconds to assure the status of the TCP connection.	OFF ON	ON
TCP No Delay	Normally small chunks of TCP (H323) messages are combined into one packet and be sent to remote party to improve the efficiency of network. Sometimes this action yields the H323 signaling problem when system is behind NAT router and there is H323 ALG is running. 'OFF' value can be a solution to overcome the problem.	OFF ON	OFF
Sending Setup Ack message	System provides SETUP ACK message when there is no 'sending complete IE' in SETUP message.	OFF ON	OFF
	Gatekeeper Attributes		
RAS Usage	Determine whether VOIU/VOIB/VOIM will be used as a Gatekeeper.	OFF ON	OFF
RAS MultiCast IP Port	Multi-cast IP Port for RAS Information of Gatekeeper.	1~65535	1718
RAS MultiCast IP Address	Multi-cast IP address for RAS Information of Gatekeeper.	IP Address	224.0.1.41
RAS UniCast IP Port	Uni-cast IP Port for RAS Information of Gatekeeper.	1~65535	1719
RAS UniCast IP Address	Uni-cast IP address for RAS Information of Gatekeeper.	IP Address	82.134.80.2
RAS Keep Alive Time	The time between exchange of RAS Information between GK and VOIB/VOIU.	001-999 (SEC)	120
RAS IIR Multiplier Ratio	This feature is used when H323 call is routed by RAS gatekeeper. Keep alive interval time between the system and gatekeeper is provided by gatekeeper on registration time. This value of ratio is used to change the keep alive interval time from gatekeeper.	10~100%	80
RAS Number Plan Prefix	The numbering plan for Calling Number in RAS Setup.	Max. 23 digits	
RAS Light RRQ usage	The Gatekeeper ID (This can be programmed only via WEB Admin).	OFF ON	OFF
RAS Gateway ID	The system can be assigned to use the simple RRQ (Registration Request) message (ON) or the full RRQ message (OFF).	Max. 128 characters	
Fail over Usage	The H.323 call will be failover to another line (FAIL OVER USAGE: ON).	OFF ON	OFF
Call Setup No Response time	The H.323 call will be failover. The time will be set.	0, 3-15 (Sec.)	0
Fail over CO Group number	If the H.323 call will be failover, assign another CO group.	eMG80:1-20 eMG800:1-200 UCP:1-200	

4.4.11.3 H.323 Incoming Route table -PGM 328

Selecting H.323 Incoming Route table will display the data entry page. Click **[Save]** button after changing Value.

Enter CO Group number: eMG80 : 1-20 / eMG800: 1-200 / UCP: 1-200

PGM Base Function Base	< F:	avorite PGM H.323 Inc	omi ×	
PGM Search				
System ID & Numbering Plans	Index	Calling IP Address	CO Group (1 - 200)	
	1	255.255.255.255	0	
Station Data	2	0.0.0.0	0	
oard Based Data	3	0.0.0.0	0	
	4	0.0.0.0	0	
O Line Data	5	0.0.0.0	0	
vstem Data	6	0.0.0.0	0	
tation Group Data	7	0.0.0.0	0	
tation Group Data	8	0.0.0.0	0	
SDN Line Data	9	0.0.0.0	0	
iIP Data	10	0.0.0.0	0	
	11	0.0.0.0	0	
ables Data	12	0.0.0.0	0	
letworking Data	13	0.0.0.0	0	
222 Deurine Table	14	0.0.0.0	0	
.323 Routing Table v	15	0.0.0.0	0	
1.323 Basic Attributes(326)	16	0.0.0.0	0	
H.323 CO Group Attributes(327)	17	0.0.0.0	0	
H.323 Incoming route table(328)	18	0.0.0.0	0	
NET Data	19	0.0.0.0	0	
ici bata	20	0.0.0.0	0	
ne Data	21	0.0.0.0	0	
rice Login	22	0.0.0.0	0	
	23	0.0.0.0	0	
CS Standard	24	0.0.0.0	0	
ECT Data	25	0.0.0.0	0	
lotel Data	26	0.0.0.0	0	
Iotel Data	• 27	0.0.0		

Figure 4.4.11.3-1 H.323 Incoming Route table

To get the direct H.323, the From IP-Address and 'incoming CO Group number' to be routed should be assigned.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Calling IP Address	IP address associated with H.323 incoming calls. 255.255.255.255 is used when external call cones from unknown IP Address which is not listed in this table entry.		0.0.0.0
CO Group	CO group number associated with H.323 incoming calls.	eMG80:1~20 eMG800:1~200 UCP:1~200	0

Table 4.4.11.3-1 H.323 Incoming Route table

 \sim

4.4.12 T-NET Data

System Data

Station Group Data

T-NET Basic Attributes(330) T-NET CM attributes(331) T-NET LM attributes(332) T-NET FoPSTN Table (333) T-NET Control Contact(334) T-NET Music/Alarm(335~336)

ISDN Line Data

SIP Data Tables Data Networking Data H.323 Routing Table T-NET Data

shown in the following figur	e.				
PGM Base Function Base	< Favorite PGM				
Q PGM Search					E
System ID & Numbering Plans	System Overview System ID & Numb	System IP Plan(102) System ID & Numb	Device IP Plan(103) System ID & Numb	Common Attribute Station Data	
Station Data					
Board Based Data	Flexible Buttons(11 Station Data	Common Attribute CO Line Data	CO/IP Ring Assign CO Line Data	CID/CPN Attributes CO Line Data	
CO Line Data					

System Password(...

System Data

System Authorizati...

Tables Data

Station Group Assi ...

Station Group Data

Flexible DID Conve...

Tables Data

Station Group Attri...

Station Group Data

System Attributes(...

System Data

Station Authorizati...

Tables Data

Selecting the T-NET Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

Figure 4.4.12-1 T-NET Data Main Page

In a Centralized Control T-NET (Transparent Network), remote devices may be registered to a Central iPECS system(CM) and to a Local iPECS system (LM). In this way, the CM maintains control of the remote device. Should the WAN connection between an LM and CM fail (polling error), the LM will initiate operational control of the locally registered devices. Calls between the systems (CM and LM) can automatically shift to PSTN Modules registered with the LM for Fail-over operation. The configuration and characteristics of LMs and CM are configurable as is Fail-over operation.

4.4.12.1 T-NET Basic Attributes -PGM 330

Selecting T-Net Basic Attributes will display the data entry page. Click **[Save]** button after changing Value.

					×
	PGM Base Function Base	<	Favorite P	GM T-NET Basic	× Q
	Q PGM Search				
	System ID & Numbering Plans		Order <u>↓</u> ª 1	Attribute T-NET Enable	Value
	Station Data		1	I-NET Enable	OFF •
	Board Based Data				
	CO Line Data				
	System Data				
	Station Group Data				
	ISDN Line Data				
	SIP Data				
<	Tables Data				
	Networking Data				
	H.323 Routing Table				
	T-NET Data v				
	T-NET Basic Attributes(330)				
	T-NET CM attributes(331)				
	T-NET LM attributes(332)				
	T-NET FoPSTN Table (333)				
	T-NET Control Contact(334)				
	T-NET Music/Alarm(335~336)				

Figure 4.4.12.1-1 Zone number overview

Each iPECS system in a Central Control network environment must be enabled for T-NET operation in order to function as part of the network.

4.4.12.2 T-NET CM Attributes -PGM 331

Selecting T-Net CM Attributes will display the data entry page. Click **[Save]** button after changing Value.

PGM Base Function Base	< Fav	orite PGM T-N	ET CM attri 🔀			•
Q PGM Search	Ð					Save
System ID & Numbering Plans	Order <u>↓</u> ª			Va	lue	Range
Station Data	1	Register Enable	OFF V			
Station Data	2	CM Server Type CM 1	eMG/UCP ▼ IP Address : 0.0.0.0		MAC Address :	
Board Based Data					MAC Address :	
CO Line Data	4	CM 2	IP Address : 0.0.0.0		MAC Address :	
oo Eine Data	5	IPKTS Port Number				0001-999
System Data	6	Total number of port				0000-999
Station Group Data	7	Polling Count	5			00-99
Station Group Data	8	Polling Interval	2			00-99
ISDN Line Data	9	Zone Number				1 - 32
SIP Data						
Tables Data						
Networking Data						
H.323 Routing Table						
T-NET Data ~						
T-NET Basic Attributes(330)						
T-NET CM attributes(331)						
T-NET LM attributes(332)						
T-NET FoPSTN Table (333)						
T-NET Control Contact(334)						

Figure 4.4.12.2-1 T-NET CM Attributes

Each LM (Local iPECS system), which is part of a Central Control Network, must be defined with the IP Address of the CM (Central iPECS system). The LM configuration data is sent to the CM at the time the LM registers with the CM. Total port counts define the ports, which are allocated in the CM database for use by devices registered to the LM. The number of ports defined in the database of each LM must be equal to or less than the ports defined in the CM for the LM, see PGM 332, in order to register properly.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Register	This field informs the LM to attempt registration with the CM. This field	OFF	OFF
Enable	must be set to ON for proper registration.	ON	UFF
CM server type	Assign the type of CM server; iPECS eMG/UCP or iPECS CM.	eMG/UCP, CM	eMG/UCP
IP Address	This field defines the IP address of the CM that will be used by the LM.	IPv4 address	
IPKTS Port	In the TNET environment, the IPKTS protocol signaling UDP port is	0001-9999	5588
number	defined. At present this field is not used, do not change this port number.	0001-9999	5500
Total number of port	This field defines the total number of ports the LM will request be allocated by the CM for devices attached to the LM. This value must be equal to or less than the port count in the CM for the LM devices.	0000-9999	0
Polling Count	This field defines the maximum polling failures an LM considers a WAN fault.	00-99	5
Polling interval	This field defines the interval time between LM to CM polling attempts.	00-99	2
Zone Number	Zone number can be assigned to Device or GW.	1-32	

4.4.12.3 T-NET LM Attributes -PGM 332

Selecting T-Net LM Attributes will display as below. Click [Save] button after changing Value.

PGM Base Function Base	< F	avorite PGM T-N	ET LM at X	
PGM Search				
System ID & Numbering Plans	Index		Value	Range
		MAC Address		
Station Data		IP Address		
Board Based Data	1	IPKTS Port	5588	0001-9999
CO Line Data		Total number of port	0	000-999
CO Line Data		Multicast IP Address	239.20.19.1	
System Data		Zone Number		1 - 32
Station Group Data		MAC Address		
		IP Address		
ISDN Line Data	2	IPKTS Port	5588	0001-9999
SIP Data	2	Total number of port	0	000-999
		Multicast IP Address	239.20.19.1	
Tables Data		Zone Number		1 - 32
Networking Data		MAC Address		
H.323 Routing Table		IP Address		
H.323 Routing Table		IPKTS Port	5588	0001-9999
T-NET Data ~	3	Total number of port	0	000-999
T-NET Basic Attributes(330)		Multicast IP Address	239.20.19.1	
T-NET CM attributes(331)		Zone Number		1 - 32
T-NET LM attributes(332)		MAC Address		
T-NET FoPSTN Table (333)		IP Address		
T-NET Control Contact(334)		IPKTS Port	5588	0001-9999
T-NET Music/Alarm(335~336)	4	Total number of port	0	000-999
Zone Data		Multicast IP Address	239.20.19.1	
Zune Data		Zone Number		1 - 32
Device Login		MAC Address		
UCS Standard		IP Address		
	•	IPKTS Port	5588	0001-9999

Figure 4.4.12.3-1 T-NET LM Attributes

The CM (Central iPECS system) must be programmed with the MAC and IP address of each LM (Local iPECS system) in the Centralized Control network as well as the maximum configuration of each LM. Up to 100 Local iPECS system (LMs) may be defined and configuration entered. The port counts define the ports that are allocated in the CM database for use by devices registered to the LM. The number of ports defined in the database for each LM in PGM 331, must be equal to or less than the ports defined in the CM for the LM, in order to register properly.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Mac Address	This field defines the MAC address of the LM that will be part of the T- NET environment and is used by the CM for authorization.	MAC address	
IP Address	This field is the IP address of the LM.	IPv4 address	
IPKTS Port	In the T-NET environment, the IP KTS protocol signaling UDP port is defined. At present this field is not used, do not change this port number.	0001-9999	5588
Total no of port	This field defines the total number of ports the LM will request from the CM for devices attached to the LM. This value must be equal to or more than the port count defined in the LM.	000-999	0
Multicast IP address	This field defines the multicast IP address that could be used in T-NET branch site.	IPv4 address	
Zone number	Zone number can be assigned to Device or GW.	1-32	

Table 4.4.12.3-1 T-NET LM ATTRIBUTES

4.4.12.4 T-NET FoPSTN table -PGM 333

Selecting T-NET FoPSTN Table will display the data entry page. Enter an index range then click **[Load]** to modify the data. Click **[Save]** button after changing Value.

PGM Base Function Base	< Favorite PGM T-NET FoPS ×		X >
Q PGM Search	Enter Index Range (0 - 599) :	2 Load	Save
System ID & Numbering Plans	Index Range 1-50		
Station Data	Enable FoPSTN : OFF Initialize FoPSTN :		
Board Based Data	Index Numbering Plan CO Group Tel Number		
CO Line Data			
System Data	3 1 1		
Station Group Data	4 1 5 1		
ISDN Line Data	6 1		
SIP Data	7		
< Tables Data	8 1 1		
Networking Data			
T-NET Data ~	11 1		
T-NET Basic Attributes(330) T-NET CM attributes(331)	12 1 13 1 14 1		
T-NET LM attributes(332) T-NET FoP STN table (333)			
T-NET Control Contact(334) T-NET Music/Alarm(335~336)	16 1 17 1		

Figure 4.4.12.4-1 T-NET FoPSTN table

The Fail-over function allows the systems in T-NET environment to complete calls between systems over a PSTN (analog or digital) line should the WAN connection to the CM fail. A CO gateway Module must be registered to the LM for local CO services. Users may call others in the normal manner and the call is routed over CO facilities to the remote CM. When calls are directed to a DID line at the receiving system, the system will select a line from the assigned CO Group and dial the Tel Number with the station number dialed as the trailing digits.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Numbering Plan	Station numbers associated with the remote system. A range can be indicated by using "*" to indicate the range. Example: 21* covers 210 to 219 or 2100 to 2199.	Station number	
CO Group	This field defines the CO Group of the local system that will be used to place calls to the stations entered in the Fail Over Numbering Plan above, should WAN failure occur.	eMG80:1~20 eMG800:1~200 UCP:1~200	
Tel Number	This field defines the telephone number the system should dial to place a call to the stations entered in the FO Numbering Plan, should WAN failure occur. An "*" may be entered as a wild card to indicate insertion of the dialed station number.	24 digits	

Table 4.4.12.4-1 Fail Over to PSTN ATTRIBUTES

4.4.12.5 T-NET Control Contact -PGM 334

Selecting T-NET Control Contact will display the data entry page. Enter the T-NET range from the T-Net LM Attributes then click **[Load]** to modify the data. Click **[Save]** button after changing Value.

Enter T-NET Range: eMG80: 1-15 / eMG800: 1-32 / UCP: 1-100

	PGM Base Functi	on Base	< Favorite PGM T-	NET Contr X			×
c	PGM Search	0	Enter T-NET Range (1 - 100)):		Load	Save
	System ID & Numbering Plans	5	T-NET Range 1-50				
	Station Data		External Control Contact	Value			
	Station Data			Unused			
	Board Based Data			O LBC			
	CO Line Data		First	Door Open			
	CO Line Data			External Control Device 1			
	System Data			External Control Device 2			
	Otation Ocean Data			Unused			
	Station Group Data			● LBC			
	ISDN Line Data		Second	Door Open			
	SIP Data			External Control Device 1			
	SIP Data			External Control Device 2			
<	Tables Data			Unused			
	Natural in a Data			● LBC			
	Networking Data		Third	Door Open			
	T-NET Data	~		External Control Device 1			
				External Control Device 2			
	T-NET Basic Attributes(330)			Unused			
	T-NET CM attributes(331)			O LBC			
	T-NET LM attributes(332) T-NET FoPSTN table (333)		Fourth	Door Open			
	T-NET Control Contact(334)			External Control Device 1			
	T-NET Music/Alarm(335~336			External Control Device 2]		

Figure 4.4.12.5-1 T-NET Control Contact

Each LM incorporates relay contacts that can be employed as a Door Lock Release. The contact activates a third party Door Lock Release mechanism activated by dialing the Door Unlock code at a local station.

4.4.12.6 T-NET Music/Alarm -PGM 335 ~ 336

Selecting T-NET Music/Alarm will display the data entry page. Enter the T-NET range from the T-Net LM Attributes then click **[Load]** to modify the data. Click **[Save]** button after changing Value.

	PGM Base Function Base	< Favo	orite PGM T-NET	Music/Alar×			× >
	Q PGM Search	Enter T-NE	T Range (1 - 100) :			C Load	Save
	System ID & Numbering Plans	T-NET Rar	nge 1				
	Station Data	Order <u>↓</u> a	Attribute	Value			
	Station Data			T-NET Music Assign			
	Board Based Data	1	BGM Type	Internal/External Music 1 🔻			
		2	MOH Type	Internal/External Music 1 🔻			
	CO Line Data	3	Internal/External Music	Internal Music 🔹			
	System Data	4	Internal Music Type	First •			
	-,		T	NET Alarm Attributes			
	Station Group Data	1	Alarm Enable	OFF V			
	ISDN Line Data	2	Alarm Contact Type	Close •			
	ISDN LINE Data	3	Alarm Mode	Alarm •			
	SIP Data	4	Alarm Single Mode	Repeat •			
<		5	Alarm 1 Display				
	Tables Data	6	Alarm 2 Display		(UCP 600/2400 only)		
	Networking Data		1.7		, , <i>i</i>		
	H.323 Routing Table						
	T-NET Data ~						
	T-NET Basic Attributes(330)						
	T-NET CM attributes(331)						
	T-NET LM attributes(332)						
	T-NET FoPSTN Table (333)						
	T-NET Control Contact(334)						
	T-NET Music/Alarm(335~336)						

Figure 4.4.12.6-1 T-NET Music/Alarm

To minimize WAN traffic, the CM does not provide BGM/MOH to an LM. The LM employs local BGM and MOH facilities to reduce traffic load on the WAN and IP channel processors. The LM uses IP Multicast for local BGM and MOH transport. In addition, the Alarm contacts of the LM can be defined for use as a local alarm or doorbell.

When alarm port 1 of the LM is activated, the string of {Alarm 1 Display} is displayed in assigned stations.

When alarm port 2 of the LM is activated, the string of {Alarm 2 Display} is displayed in assigned stations (if LM is UCP600/2400).

4.4.12.7 T-NET ISDN Clock Priority for eMG800 - PGM 337

Selecting T-NET ISDN Clock priority will display the data entry page. Enter the T-NET range from the T-Net LM Attributes then click **[Load]** to modify the data. Click **[Save]** button after changing Value.

	PGM Base Function Base	< Fav	orite PGM	T-NET IS	DN X
	Q PGM Search	Enter Inc	lex (1 - 32) : (Load
	System ID & Numbering Plans	T-NET R			
	Station Data	Seq	Туре	Priority	New Priority
	Board Based Data				
	CO Line Data				
	System Data				
	Station Group Data				
	ISDN Line Data				
	SIP Data				
	Tables Data				
)	Networking Data				
	H.323 Routing Table				
	T-NET Data ~				
	T-NET Basic Attributes(330)				
	T-NET CM attributes(331)				
	T-NET LM attributes(332)				
	T-NET FoPSTN Table (333)				
	T-NET Control Contact(334)				
	T-NET Music/Alarm(335~336)				
	T-NET ISDN Clock Priority(337)				

Figure 4.4.12.7-1 T-NET ISDN Clock Priority

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Priority	ISDN clock priority in a TNET site.	1-18	

Table 4.4.12.7-1 T-NET ISDN Clock priority

4.4.13 Zone Data

Selecting the Zone Data program group returns the sub-menu displayed.

	^				
PGM Base Function Ba	se	< Favorite PGM			
Q PGM Search	0				
System ID & Numbering Plans		System Overview	System IP Plan(102)	Device IP Plan(103)	Common Attributes(1
Station Data		System ID & Numberin	System ID & Numberin	System ID & Numberin	Station Data
Board Based Data		Flexible Buttons(115/	Common Attributes(1	CO/IP Ring Assignm	CID/CPN Attributes(151)
CO Line Data		Station Data	CO Line Data	CO Line Data	CO Line Data
System Data		System Attributes(16	System Password(162)	Station Group Assign	Station Group Attribu
		System Data	System Data	Station Group Data	Station Group Data
Station Group Data					
ISDN Line Data		Station Authorization	System Authorization	Flexible DID Conversi	
SIP Data		Tables Data	Tables Data	Tables Data	
Tables Data					
Networking Data					
H.323 Routing Table					
T-NET Data					
Zone Data	~				
Zone Number of Device/Gateway Overview					
Device Zone Number(436)					
Device Zone Attrtibutes(437)					
Access & Page Relay(438)					
Inside Zone Attributes Overview					
Zone Attribute(439)					
Zone RTP Relay Group(440)					
Inter-Zone Attributes(441)					
Zone Holiday Assignment(444)					

Figure 4.4.13-1 Zone Data Main Page

4.4.13.1 Zone Number Overview

Selecting Zone Number Overview returns the data entry page.

PGM Base Function Base	Î	< Fa	vorite PGM	Zone Number ox			
			Volite F OW	20110 1111001 0	;		
Q PGM Search	Θ	Seq <u>↓</u> a	Zone Number <u>↓</u>	^a T-NET Number <u>↓</u> ^a	Туре	MAC Address <u>↓</u> a	IP Address <u>↓</u> a
		1	1		LIP-8024D	b40edcba0e67	10.10.42.1
System ID & Numbering Plans		2401	1		BRIM4 GW	ffff0000ffff	10.10.10.10
Station Data		2402	1		T1IM GW	ffff0005ffff	10.10.10.11
Station Data	_	2403	1		ISDN-PRI GW	ffff000affff	10.10.10.12
Board Based Data		2404	1		VOIM8 GW	ffff000fffff	10.10.10.13
		3001	1		UVM GW	ffff0014ffff	10.10.10.14
CO Line Data		3201	1		MCIM GW	ffff0019ffff	10.10.10.15
System Data		3231	1		UCS Server	ffff0023ffff	0.0.0.0
System Data		3257	1		WTIM4 GW	ffff001effff	10.10.10.16
Station Group Data							
ISDN Line Data							
SIP Data							
Tables Data							
Networking Data							
H.323 Routing Table							
T-NET Data							
Zone Data	~						
Zone Number of Device/Gateway Overview							
Device Zone Number(436)							
Device Zone Attrtibutes(437)							
Access & Page Relay(438)							
Inside Zone Attributes Overview							

Figure 4.4.13.1-1 Zone number overview

Zone data is a tool employed to easily manage the characteristics of groups of devices under the control of an MPB/UCP. Such devices can be grouped to a Zone to define common characteristics including Country Code, DSCP, RTP packet handling, etc. Common attributes are defined at the device, Zone and Inter-zone level. Device settings have priority over system and Zone settings, while Zone settings have priority over system settings.

Generally, transport of RTP packets should be a peer-to-peer communication over either a LAN or VPN. If iPECS devices are separated by a NAPT server or direct peer-to-peer communications is not available, packet relay must be employed to assure communication. In packet relay, RTP packets are received by a local VoIP channel, which is under control of the MPB/UCP, and the IP address is translated from a public to the device's private address. The VoIP channel implements a secure channel using IPSec protocol. Devices can be assigned as part of an "RTP Relay group" to use the same VoIP channels to implement relay of RTP packets. Packet relay groups also provide for conversion of multi-cast packets from the MPB/UCP to uni-cast and back again at the group level to multi-cast. Note packet relay requires a VoIP channel be available locally for each simultaneous call that requires packet relay.

4.4.13.2 Device Zone Number – PGM 436

Selecting the Device Zone Number returns the Zone Number data input page. Enter the Sequence number range (refer to section 4.4.1.4 System & Device IP Address Plan - PGM 102 & 103) and click **[Load]** to assign a Zone number for the device. Click **[Save]** button after changing Value.

Enter Device/GW sequence Range: eMG80: 1-300 / eMG800: 1-2890 / UCP: 1-3688

PGM Base Function Base	< Fav	orite PGM	Device Zone Nu	×			
Q PGM Search	Enter Devi	ce/GW Slot Sequ	ence Range (1 - 3688) : [2 Load	
System ID & Numbering Plans		teway Sequence					
Station Data	Order <u>↓</u> ª	Attribute Zone Number	Value 1		nge - 32		
Board Based Data		Zone Number	L.		- J2		
CO Line Data							
System Data							
Station Group Data							
ISDN Line Data							
SIP Data							
Tables Data							
Networking Data							
H.323 Routing Table							
T-NET Data							
Zone Data ~							
Zone Number of Device/Gateway Overview							
Device Zone Number(436) Device Zone Attrtibutes(437)							
Access & Page Relay(438)							

Figure 4.4.13.2-1 Device Zone Number

Device Zone Number assigns a device to one of up to 32 specific Zones.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Zone number	Zone number can be assigned to Device or GW.	1-32	1

Table 4.4.13.2-1 DEVICE ZONE ATTRIBUTES

4.4.13.3 Device Zone Attributes – PGM 437

Selecting the Device Zone Attributes returns the Device Zone Attributes data input page. Enter the Sequence number Range (refer to section 4.4.1.4 System & Device IP Address Plan - PGM 102 & 103) and click **[Load]** to assign a Zone number for the device. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

PGM Base Function Base		< Fa	vorite PGM	Device Zone Attr X				
Q PGM Search	2	Enter Dev	ice/GW Slot	Sequence Range (1 - 3688) :			? Load	[
System ID & Numbering Plans		Device/Ga	ateway Seque	nce(Slot) Range 1				
Station Data	1	Order <u>↓</u> a	Check All	Attribute	Value	Range		
	-	1		Remote Access Password		Max 12 Digits		
Board Based Data		2		Diff Serv	46	00-63		
CO Line Data		3		Nation Code	North America 🔻			
	-	4		Language Code	English 🔻			
System Data		5		Codec Type	FOLLOW ME(ADM132) V			
Station Group Data	-	6		RTP Relay Group	RLY GRP 00 V			
Station Group Data		7		Page Area Group	PAGE AREA 00 V			
ISDN Line Data		8		VM Device Slot Seq.		3001		
SIP Data Tables Data		9		Select Default Multi Language	 English(North America) Unknown Unknown Unknown 			
Networking Data					UnknownUnknown			
H.323 Routing Table		10		VM Retry Count	3	0 - 9		
-	-	11		Remark		Max 21 Characters		
T-NET Data								
Zone Data v								
Zone Number of Device/Gateway Overview								
Device Zone Number(436)								
Device Zone Attrtibutes(437)								
Access & Page Relay(438)								

Enter Device/GW sequence Range: eMG80: 1-300 / eMG800: 1-2890 / UCP: 1-3688

Figure 4.4.13.3-1 Device Zone Attributes

Device Zone Attributes define characteristics specific to the device including the registration password, Diff Serv Code Point, Nation, etc. In addition, Zone characteristics set at the Device level take precedence over characteristics for the Zone Attributes. While a Zone may incorporate up to 15 different RTP packet Relay Groups, for clarity a single RTP Relay Group should be used within a Zone.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Remote Access Password	Registration password assigned in device for Remote stand-alone device only	Max. 12 digits	None
Diff Serv	MPB assigned code point will take precedence. Applies to all devices	0-63	4
Country Code	Country location of the device. Available selections are given in Country code table.	Country Code	Nation dependent
Language Code	Each device can be assigned a local language or	Language Code	Nation

Table 4.4.13.3-1 DEVICE ZONE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	English as the LCD Display Language.		dependent
Codec Type	The codec selection method can be defined as device based, see PGM 132, or based on the codec type assigned to the Zone.	Follow Zone, Follow Me (ADM132)	Follow Me (ADM132)
RTP Relay Group	This attribute defines the RTP Relay group employed by the device, 00-no relay. Zone parameters define the VoIP device to employ.	00-15	00 (no relay)
Page Area Group	The Paging Area Group identity is employed to determine when multicast to unicast conversion is needed to relay paging data across the network using a VoIP channel of a VOIU/VOIM or Paging Agent (VoIP channel of an iPECS LIP Phone).	00-15	00 (same paging relay area)
VM Device Slot Sequence. (VMIU/VMIB Slot Sequence)	The VSF gateway used to support Voice Mail for a device is defined. The VSF/UVM must be under control of the same eMG/UCP as the device.	eMG80: Max. 3 Digits eMG800/UCP: Max. 4Digits	
Select Default Multi Language	The recorded language selection prompt is played to the user when accessing the built-in AA/VM. The system supports up to six languages.	1~6	1
VM Retry Count	The user may select an available language. If the language is unavailable, the user may attempt to enter a valid language type based on this retry counter. If the user cannot enter a valid language, the announcement is provided in the default language.	0-9	3
Remark	Descriptive information to help installer/programmer in identifying the device Zone, i.e. Branch1.	Max. 21 characters	

Table 4.4.13.3-1 DEVICE ZONE ATTRIBUTES

4.4.13.4 Access & Page Relay – PGM 438

Selecting Access & Page Relay returns the Access & Page RTP packet relay data input page. Enter the Sequence number Range (refer to section 4.4.1.4 System & Device IP Address Plan -PGM 102 & 103) and click **[Load]** to define packet relay characteristics for Paging between Zones. Click **[Save]** button after changing Value.

Enter Device/GW sequence Range: eMG80: 1-300 / eMG800: 1-2890 / UCP: 1-3688

PGM Base Function Base	< F	a∨orite PGM	Access & Page	×	
PGM Search	Enter De	evice/GW Slot Sec	quence Range (1 - 3688)		Coad S
System ID & Numbering Plans		Gateway Sequence			
Station Data	-			Zone Paged By RTP Relay From Zone	
	1	Zone 1	Disable 🔻	Disable •	
Board Based Data	2	Zone 2	Disable 🔻	Disable 🔻	
	3	Zone 3	Disable 🔻	Disable 🔻	
CO Line Data	4	Zone 4	Disable 🔻	Disable 🔻	
System Data	5	Zone 5	Disable 🔻	Disable 🔻	
- ,	6	Zone 6	Disable 🔻	Disable 🔻	
Station Group Data	7	Zone 7	Disable 🔻	Disable 🔻	
	8	Zone 8	Disable 🔻	Disable 🔻	
ISDN Line Data	9	Zone 9	Disable 🔻	Disable 🔻	
SIP Data	10	Zone 10	Disable 🔻	Disable 🔻	
	11	Zone 11	Disable 🔻	Disable 🔻	
Tables Data	12	Zone 12	Disable 🔻	Disable 🔻	
Networking Data	13	Zone 13	Disable 🔻	Disable 🔻	
tetworking Data	14	Zone 14	Disable 🔻	Disable 🔻	
1.323 Routing Table	15	Zone 15	Disable T	Disable 🔻	
	16	Zone 16	Disable •	Disable	
T-NET Data	17	Zone 17	Disable	Disable	
Zone Data 🗸 🗸	. 18	Zone 18	Disable •	Disable	
	19	Zone 19	Disable	Disable V	
Zone Number of Device/Gateway	20	Zone 20	Disable •	Disable V	
Overview	21	Zone 21	Disable •	Disable 🔻	
Device Zone Number(436)	22	Zone 22	Disable V	Disable	
Device Zone Attrtibutes(437)	23	Zone 23	Disable •	Disable	
Access & Page Relay(438)	24	Zone 24	Disable V	Disable	
Inside Zone Attributes Overview	25	Zone 25	Disable T	Disable T	
Zone Attribute(439)	26	Zone 26	Disable •	Disable T	
Zone RTP Relay Group(440)	20	Zone 20	Disable •	Disable V	
Inter-Zone Attributes(441)	28	Zone 27	Disable •	Disable	
Zone Holiday Assignment(444)	• 29	Zone 20	Disable •	Disable •	

Figure 4.4.13.4-1 Zone Page RTP Packet Relay

iPECS protocol employs multi-cast to send of RTP packets to multiple devices at one time. This improves efficiency and lowers traffic by sending a single multi-cast packet to multi-cast group members. In particular, paging employs this multi-cast technique. However, since multi-cast is not commonly supported outside of the LAN, uni-cast must be used to transport such signals between routers. At the receiving Zone, a local VoIP channel receives the uni-cast signal from the controlling MPB. The VoIP channel then converts the packet address to a multi-cast signal for delivery to devices in the same Zone RTP Relay Group.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Page RTP Relay to Zone	The device can be configured to relay RTP packets for paging to other zone members, Paging Rely.	Disable Enable	Disable
Page By RTP Relay From Zone	The device can be configured to receive relayed packets from the assigned Zones(s).	Disable Enable	Disable

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4.4.13.5 Inside Zone Attributes Overview

PGM Base Function Base	<	Favorite P	GM	Inside 2	Cone Attributes	ov *										
PGM Search O	Zone	Nation Code	Language Code	Codec	RTP Relay Rule	RTP Relay Device	VMIU/VMIM F	Remark	Time Zone	1.Z Conns	OGT Calls	мон	Emer Noti	Emer Noti2	DCOB Noti	SIP Noti
System ID & Numbering Plans	1	North America	English	System	If Need	13/ 14	15/16		Sys Time	0	0	Sys Hold				
Station Data	2	North America	English	System	If Need	13/ 14	15 / 16		Sys Time	0	0	Sys Hold				
3oard Based Data	3	North America	English	System	If Need	13/ 14	15/16		Sys Time	0	0	Sys Hold				
CO Line Data	4	North America	English	System	If Need	13/ 14	15/16		Sys Time	0	0	Sys Hold				
iystem Data	5	North	English	System	If Need	13/ 14	15/16		Sys Time	0	0	Sys Hold				
Station Group Data	6	North	English	System	If Need	13/ 14	15/16		Sys	0	0	Sys				
SDN Line Data	7	America North	English	10000		13/ 14	15 / 16		Time Sys	0	0	Hold				
SIP Data		America North	10.000	5.28953 Sec. 19	If Need				Time Sys			Hold				
ables Data	B	America	English	System	If Need	13/ 14	15/16		Time	0	D	Hold				
Networking Data	9	North America	English	System	If Need	13/ 14	15 / 16		Sys Time	0	0	Sys Hold				
H.323 Routing Table	10	North America	English	System	If Need	13/ 14	15 / 16		Sys Time	0	0	Sys Hold				
-NET Data	11	North America	English	System	If Need	13/ 14	15 / 16		Sys Time	0	0	Sys Hold				
Cone Data ~	12	North America	English	System	If Need	13/ 14	15 / 16		Sys Time	0	0	Sys Hold				
Zone Number of Device/Gateway Overview	13	North America	English	System	If Need	13/ 14	15 / 16		Sys Time	0	0	Sys Hold				
Device Zone Number(436)	14	North America	English	System	If Need	13/ 14	15 / 16		Sys Time	0	0	Sys Hold				
Device Zone Attrtibutes(437) Access & Page Relay(438)	15	North America	English	System	If Need	13/ 14	15/16		Sys Time	0	0	Sys Hold				
Inside Zone Attributes Overview Zone Attribute(439)	16	North America	English	System	If Need	13/ 14	15/16		Sys Time	0	0	Sys Hold				
Zone RTP Relay Group(440)	17	North America	English	System	If Need	13/ 14	15/16		Sys Time	0	0	Sys				
Inter-Zone Attributes(441) Zone Holiday Assignment(444)	18	North America	English	System	If Need	13/14	15/16		Sys Time	0	o	Sys				

Figure 4.4.13.5-1 Zone Attributes Overview

4.4.13.6 Zone Attribute – PGM 439

Selecting the Zone Attributes returns the Zone Attributes data input page. Enter the desired Zone number range and click **[Load]** to assign Zone characteristics. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

PGM Base Function Base	< F	avorite PGN	M Zone Attribute(439) ×							
Q PGM Search O	Enter Zone	Number Ra	nge (1 - 32) :	2 Load	Save					
System ID & Numbering Plans	Zone Numb	Zone Number Range 1								
Station Data	Order <u>1</u> ª	Check All	Attribute	Value	Range					
otation Data	1		Nation Code	North America 🔹						
Board Based Data			E.164 Management Information (Outgoing Dial Number : E	164 -> Normal) (Incoming CLI Number : N	Normal -> E164)					
CO Line Data	1		Area Code		Max 5 Digits					
CO Line Data	2		International Access Code		Max 5 Digits					
System Data	3		Local Number Digit Count	0	00 - 30 (for incoming CLI)					
Station Group Data	4		Leading Zero Insertion For Area Code	No T	ex.031 (for outgoing called number)					
Station Group Data	5		My Area Code Insertion	No •	ex. 31, 031 (for outgoing called number)					
ISDN Line Data		Exceptional Conversion : for Outgoing Dial Number								
	1		Conversion Case #1 : From (4 dgt)	> To (6 dgt)						
SIP Data	2		Conversion Case #2 : From (4 dgt)	> To (6 dgt)						
Tables Data	3		Conversion Case #3 : From (4 dgt)	> To (6 dgt)						
	4		Conversion Case #4 : From (4 dqt)	> To (6 dgt)						
Networking Data		-	Conversion Case #5 : From (4 dqt)	> To (6 dqt)						
H.323 Routing Table	5	Exceptional Conversion : for Incoming CLI Number								
	1		Conversion Case #1 : From (6 dqt)	> To (6 dgt)						
T-NET Data			Conversion Case #2 : From (6 dgt)	> To (6 dat)						
Zone Data v	-	_	Conversion Case #3 : From (6 dgt)	> To (6 dgt)						
	-									
Zone Number of Device/Gateway Overview	4		Conversion Case #4 : From (6 dgt)	> To (6 dgt)						
Device Zone Number(436)		-	Normal Zone Manag							
Device Zone Attrtibutes(437)			Language Code Codec Type	English •						
Access & Page Relay(438)			RTP Relay Rule	System Codec If Need						
Inside Zone Attributes Overview				If Need I	11222 CAN Common Number					
Zone Attribute(439)			1st RTP Relay Device Slot Seq.		H323 G/W Sequence Number					
Zone RTP Relay Group(440)			2nd RTP Relay Device Slot Seq.	14	H323 G/W Sequence Number					
Inter-Zone Attributes(441)			VMIU/VMIM Slot Seq.	1: 15 2: 16	VM G/W Sequence Number					
Zone Holiday Assignment(444)	7		Remark		Max 21 Characters					
, 5	* 8		Display Time Zone	System Time	▼					

Figure 4.4.13.6-1 Zone Attributes

The nation code, codec and VMIU/VMIB assigned for a Zone will be employed by all devices in the Zone unless a different entry is made in Device Zone data. If the Device Zone data is default or assigned by the MPB, the Zone data will take precedence.

The Zone Attributes define when and which VoIP channels to use for RTP packet relay. Local VoIP channels are assigned to perform the packet relay function and the use can be defined as "if needed" or use the assigned RTP Relay Group. For "if Need", the MPB will employ the IP KTS STUN protocol to determine when packet relay is required. If assigned "RTP Relay Group", packet relay will always be employed for RTP packet receipt.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT			
Nation Code	Nation code of devices in the zone. Available selections are given in Country code table.	Country code				
E.164 Management Information (Outgoing Dial Number : E164-> Normal) (Incoming CLI Number: Normal -						
	>164)					
Area Code	Assign area code that is use to convert CLI format (normal <-> E.164)	Max 5 Digits				
International Access Code	Assign international access code that is use to convert CLI format (normal <-> E.164)	Max 5 Digits				
Local Number Digit Count	CLI length is over this count then it is long distance call otherwise it is local call.	00-30	0			

Table 4.4.13.6-1 ZONE ATTRIBUTES

	Table 4.4.13.6-1 ZONE ATTRIBUTES		
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	(it is for incoming CLI)		
Leading Zero Insertion for Area code	For an outgoing call, the system can insert a zero ('0') in front of area code.	No Yes	No
My Area Code Insertion	For an outgoing call, the system can insert my area code in the CLI.	No Yes	No
	Exceptional Conversion : for Outgoing Dial No	umber	
Conversion Case #1			
Conversion Case #2	The first digits, up to four (4), dialed by the user can be converted to a digit string of up to six (6) digits and may		
Conversion Case #3	include a plus (+) sign. For example if the "From" digits are 00 and the "To" digits are +820, if the user dials	From (4-digits) and To (6-digits)	
Conversion Case #4 Conversion Case	002233432, the system converts the number to +820 2233432.		
#5			
	Exceptional Conversion : for Incoming CLI Nu	Imber	
Conversion Case #1 Conversion Case	The first digits, up to four (4), received as the CLI can be converted to a digit string of up to six (6) digits and may		
#2 Conversion Case	include a plus (+) sign. For example if the "From" digits are 00 and the "To" digits are +820, if the user dials	From (4-digits) and To (6-digits)	
#3 Conversion Case #4	002233432, the system converts the number to +820 2233432.		
	Normal Zone Management Information		
Language Code	Language code of devices in the zone.	Language Code	Nation dependent
Codec Type	Assigns the codec employed by devices in the Zone.	System codec G.711 G.723.1 G.729 G.722	System codec
RTP Relay Rule	Assigns when to use the packet relay function, with "If Need" the MPB will automatically determines when to use packet relay, while "RTP Relay Group" will always implement packet relay for RTP packets.	If need/ Relay Group/ Forced to Relay	If need
1st RTP Relay	Assigns the local VOIU or VOIB IP channels that will be	Sequence	eMG80:13
Device Slot Seq.	used to implement packet relay for devices in the Zone.	Number	eMG800:19
2nd RTP Relay	Back-up VoIP channels for RTP packet relay use in the	Sequence	eMG80:14
Device Slot Seq.	Zone.	Number	eMG800:NA
VM Device Slot Sequence (VMIU/VMIB Slot Sequence)	Assigns the UVMU/UVM/VMIU/VMIB used to support Voice Mail for devices in the Zone. The UVMU/UVM/VMIU/VMIB must be under control of the same MPB/UCP as the device being assigned.	Sequence Number	eMG80: 2 (1:15/2:16) eMG800: 3
Remark	Descriptive information to help installer/programmer in	Max. 21 characters	
	· · · · · ·	I	

Table 4.4.13.6-1	ZONE ATTRIBUTES	

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
	identifying the device Zone, i.e. Branch1.		
Display time zone	The time & date displayed at the station are based on the time zone selected or the system time	Time zone, System time	System time
Max Total Inter Zone Connections	This parameter may be used to limit the number of maximum Inter Zone connections. When this value is set to 0, there is no limit on the total Inter Zone connections.	eMG80:0-140 (0: No limit) eMG800: 0-1200 (0: No limit) UCP: 0-2400 (0: No limit)	0
Max Outgoing CO Calls	This field may be used to limit the number of outgoing CO/IP calls from the Zone. When this value is set to 0, there is no limit on the number of outgoing CO/IP calls.	eMG80:0-74 (0: No limit) eMG800: 0-600 (0: No limit) UCP: 0-998 (0: No limit)	0
Zone MOH Assign	A Music source can be assigned so that calls to this zone.	Refer to Sys Hold, Internal music External Music VSFMOH, SLT MOH1~5, VSF MOH2~3	Refer to Sys Hold
Emergency Call Notify Station	Assigns the destination station for Emergency Call Notification.	Station number	
Emergency Call Notify 2 nd Station	This field assigns a secondary station to receive notification of an Emergency call from a device in the Zone.	Station number	
DCOB Fault Notify Station	This field assigns the station to receive notification of a DCOB (Digital CO Board) fault.	Station number	
SIP Registration Fault Notify Station	This field assigns the station to receive notification of a SIP Trunk registration fault.	Station number	
Daylight Saving Usage	If option is "System DST mode", the zone will follow the system DST mode (System Date &Time (178)). If option is "OFF", the zone will not apply the Daylight Saving Time.	System DST mode, OFF	System DST mode

Table 4.4.13.6-1 ZONE ATTRIBUTES

4.4.13.7 Zone RTP Relay Group – PGM 440

Selecting the Zone RTP Relay Group returns the RTP Relay ON/OFF data input page. Enter the desired Zone and Group numbers and click **[Load]** button to assign Zone characteristics. Click **[Save]** button after changing Value.

PGM Base Function Base	< Favorite PGN	Zone RTP R X	×
Q PGM Search	Enter Zone Numb Enter RTP Relay	er (1 - 32) : Group Number (1 - 15) : Loa	d
System ID & Numbering Plans	Zone Number 1		
Station Data	RTP Relay Group	Number 1	
Board Based Data	Order <u>↓</u> ª 1	Force To RTP Relay Relay Group 1	
CO Line Data	2	Relay Group 1	
	3	✓ Relay Group 3	
System Data	4	🖉 Relay Group 4	
Station Group Data	5	Relay Group 5	
· · · · · · · · · · · · · · · · · · ·	6	✓ Relay Group 6	
ISDN Line Data	7		
SIP Data	8	✓ Relay Group 8	
	9		
Tables Data	10		
Networking Data	11		
	12	✓ Relay Group 12	
H.323 Routing Table	13	✓ Relay Group 13	
T-NET Data	14	✓ Relay Group 14	
I-NET Data	15	✓ Relay Group 15	
Zone Data v			
Zone Number of Device/Gateway Overview			
Device Zone Number(436)			
Device Zone Attrtibutes(437)			
Access & Page Relay(438)			
Inside Zone Attributes Overview			
Zone Attribute(439)			
Zone RTP Relay Group(440)			
Inter-Zone Attributes(441)			

Figure 4.4.13.7-1 Zone RTP Packet Relay Groups

While it is strongly recommended that a Zone only have a single RTP Relay Group, up to 15 Groups can be assigned to a Zone. Devices in an RTP Relay Group should have common requirements for packet relay use. In some situations, it may be necessary to implement packet relay to groups in a Zone. Note that when "if Need" is assigned as the RTP Relay Rule in the Zone Attributes, assignments here are ignored.

4.4.13.8 Inter Zone Attribute – PGM 441

Selecting the Inter Zone Attribute returns the data input page. Enter the desired Source and Destination Zone number range and click **[Load]** to assign Zone characteristics. Click **[Save]** button after changing Value.

PGM Base Fun	ction Base	< Favo	orite PGM	Inter-Zone Attribu						
PGM Search	0	C Enter Source/From Zone Number (1 - 32) :								
		Enter Destination/To Zone Numeber (1 - 32) : Loan								
System ID & Numbering Pla	ins	Source Zo	ne Range 1							
Station Data		Destination	n Zone Range 1							
Board Based Data		Order <u>↓</u> a	Check All	Attribute	Value	Range				
		1		Codec Type	N/A •					
CO Line Data		2		RTP Relay Rule	If Need 🔻					
System Data		3		RTP Relay Device Utilization	For Both Side	v				
		4		Src. RTP Relay Device Slot Seq		Sequence Number				
Station Group Data		5		Dest. RTP Relay Device Slot Seq.		Sequence Number				
ISDN Line Data		6		Max Inter Zone Connection	0	0-2400 (0:No Limit)				
SIP Data		7		Use Firewall IP	ON T					
Tables Data										
Networking Data										
H.323 Routing Table										
T-NET Data										
Zone Data	~									
Zone Number of Device/G Overview	iateway									
Device Zone Number(436)									
Device Zone Attrtibutes(4	37)									
Access & Page Relay(43	3)									
Inside Zone Attributes Ov	erview									
Zone Attribute(439)										
Zone RTP Relay Group(4										
Inter-Zone Attributes(44	·									
Zone Holiday Assignment	(444) 👻									

Figure 4.4.13.8-1 Inter-Zone Attributes

Inter Zone Attributes define RTP packet relay treatment for communications between devices in different Zones.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Codec Type	Assigns the codec employed by devices in the Zone.	System Codec/ G.711 / G.723.1 G.729 / G.722	NA
RTP Relay Rule	Assigns when to use the packet relay function between Zones, with "If Need" the MPB will automatically determine when to use packet relay, while "RTP Relay Group" will always implement packet relay for RTP packets between the Zones.	If need/ Always not/ Forced to do	lf need
RTP Relay Device Utilization	Assigns how to employ the Source and Destination VoIP channels. The assigned Source channels may be used for both sides of the communication or separately only for a device in the Source Zone. The Destination channels are then used as back-up channels or only for devices in the Destination Zone.	For Both Side/ Separated (SRC to DEST)	For Both side
Src RTP Relay Device Slot Seq.	The Sequence number associated with the VoIP channels in the Source Zone that handle Packet Relay.	Sequence Number	

Table 4.4.13.8-1 INTER-ZONE ATTRIBUTES

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Dest. RTP Relay Device Slot Seq.	The Sequence number associated with the VoIP channels to handle packet relay for the Destination Zone is defined. When Utilization is Separate the channels are used for devices in the destination Zone, otherwise they are used as back up for both sides.	Sequence Number	
Max Inter Zone connection	This field determines the maximum Inter Zone connections between the source zone and destination zone. When this value is set to 0, there is no limit on the number of connections between the zones.	eMG80:0-140 eMG800: 0-1200 UCP:0-2400	0
Use Firewall IP	If this option is set to ON, System use Firewall IP of VoIP board for RTP relay between Zones. But, if this option is OFF, System use Local IP of VoIP board for RTP relay between zones.	OFF ON	ON

Table 4.4.13.8-1 INTER-ZONE ATTRIBUTES

4.4.13.9 Zone Holiday Assignment - PGM 444

Selecting the Zone Holiday Assignments returns the data input page. Enter the desired Source and Destination Zone numbers range and click **[Load]** to assign Zone holiday. Click **[Save]** button after changing Value.

	PGM Base Function Base		< Fa	vorite PGM		Zone Holiday Assig	n _C					×
	Q PGM Search	0	Enter Zon	e Number Ra	nge (1 - 3	2) :				2 Load		Save
	System ID & Numbering Plans		Zone Num	ber Range 1								
	Station Data			Attribute			Value	e			Range	
	Board Based Data		1	Ring Mode	Timed	Ring Mode 🔻						
	CO Line Data				1:						YY/MM/DD - YY/MM/DD	format
	System Data		2	Vacation	3:						(Must be 12 digits)	
	Station Group Data				5 : 01 :	02 :	03 :	04 :	05 :			
	ISDN Line Data				06:	02 .	03 .	04 .	10 :			
					11 :	12 :	13 :	14 :	15 :		MM/DD format (Must be 4 digits)	
	SIP Data	_	3	Holiday	16 :	17 :	18 :	19 :	20 :			
<	Tables Data				21 :	22 :	23 :	24 :	25 :			
	Networking Data				31 :	32 :	33 :	34 :	35 :			
	-	-11			36 :	37 :	38 :	39 :	40 :			
	H.323 Routing Table	_										
	T-NET Data											
	Zone Data	~										
	Zone Number of Device/Gateway Overview											
	Device Zone Number(436)											
	Device Zone Attrtibutes(437)											
	Access & Page Relay(438)											
	Inside Zone Attributes Overview											
	Zone Attribute(439)											
	Zone RTP Relay Group(440) Inter-Zone Attributes(441)											
	Zone Holiday Assignment(444)											

Figure 4.4.13.9-1 Zone Holiday Assignment

Holidays and vacation day intervals for each zone can be established to define the Service mode (Day, Night, and Timed) Up to 40 holidays and 5 vacation intervals can be defined.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Ring Mode	Enter the desired Service mode for the Holiday or Vacation.	Day Ring Mode/ Night Ring Mode/ Timed Ring Mode/ N/A	Timed Ring Mode
Vacation	Five ranges may be entered for vacation periods, enter the start and end dates as YY/MM/DD – YY/MM/DD.	Must be 12 digits	None
Holiday	Each Zone can have up to 40 holidays assigned, entering the date as MM/DD.	Must be 4 digits	None

Table 4.4.13.9-1	ZONE HOLIDAY	ASSIGNMENT

4.4.14 Device Login

Selecting the Device Login Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

	PGM Base Function Base	< Favorite PGM				×
c	PGM Search				Edi	lit
	System ID & Numbering Plans	System Overview System ID & Numberin	System IP Plan(102) System ID & Numberin	Device IP Plan(103) System ID & Numberin	Common Attributes(1 Station Data	
	Station Data					
	Board Based Data	Flexible Buttons(115/ Station Data	Common Attributes(1 CO Line Data	CO/IP Ring Assignm CO Line Data	CID/CPN Attributes(151) CO Line Data	
	CO Line Data					
	System Data	System Attributes(16 System Data	System Password(162) System Data	Station Group Assign Station Group Data	Station Group Attribu Station Group Data	
	Station Group Data					
	ISDN Line Data	Station Authorization Tables Data	System Authorization Tables Data	Flexible DID Conversi Tables Data		
	SIP Data					
<	Tables Data					
	Networking Data					
	H.323 Routing Table					
	T-NET Data					
	Zone Data					
	Device Login v					
	Remote Device Registration(442)					
	Station User Login(443)					
	UCS Standard					
	DECT Data					

Figure 4.4.14-1 Device Login Data Main Page

4.4.14.1 Remote Device Registration – PGM 442

Selecting the Remote Device Registration will display the Remote Registration Table data input page. Enter a Table index range and select **[Load]** to enter MAC address information. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing Value.

PGM Base Function Base	•	Favorit	e PGM	Remote Dev	vice R	×Q							
Q PGM Search O	Ente	er Index I	Range (1 - 70) : [Default : 1-	70				2 Lo	? Load	? Load	? Load Sa	2 Load Save
System ID & Numbering Plans	Inde	x Range											
Station Data			MAC Address	Password		Nation Code	Remark						
Board Based Data		1			1	North America North America							
					1	North America V							
CO Line Data		4			1	North America V							
System Data		5			1	North America V							
Station Group Data		6			1	North America 🔻							
		7			1	North America 🔻							
ISDN Line Data		8			1	North America 🔻							
SIP Data		9			1	North America 🔻							
Tables Data		10			1	North America 🔻							
		11			1	North America 🔻							
Networking Data		12			1	North America 🔻							
H.323 Routing Table		13			1	North America 🔻							
T-NET Data		14			1	North America 🔻							
		15			1	North America 🔻							
Zone Data		16			1	North America V							
Device Login 🗸 🗸		17 18			1	North America ▼ North America ▼							
Remote Device Registration(442)		18			1	North America V							
Station User Login(443)		20			1	North America V							
Clation Cool Login (110)		20			1	North America V							
UCS Data		22			1	North America V							
DECT Data		23			1	North America 🔻							
		24			1	North America 🔻							
Hotel Data		25			1	North America 🔻							
Redundancy Data	-	26			4	North Amorica -							

Figure 4.4.14.1-1 Remote Device Registration

When a device attempts to register with the controlling iPECS, the system will check the device MAC address and password against the Registration table. If a match is found, the device is registered regardless of Dip-switch 2 position of eMG and Dip Switch position 3 of UCP. The system database is updated and the device receives device specific configuration data from the MPB/UCP.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Mac Address	Mac address of remote device	MAC Address	
Password	Password, if any, assigned in the devices database via Device Web admin.	Up to 12 digits	
Zone	The Zone to be assigned to the device.	01-32	01
Nation code	Nation or country location of the device.		Assigned in System ID

Table 4.4.14.1-1 REMOTE DEVICE REGISTRATION

4.4.14.2 Station User Login – PGM 443

Selecting the Station User Login will display the User Login Registration data input page. Enter an index range then click **[Load]** to modify Station Login data. For convenience, the copy, paste, and drag is available to enter or modify data. Click **[Save]** button after changing Value.

	PGM Base Function Base	*		Fav	rorite PGM	Station User I	_ogin(4	143) ×							
c	PGM Search		Ente	er Index I	Range (1 - 2400) : Def	ault : 1-100					2 Load				Save
	System ID & Numbering Plans		Inde	x Range											
	Station Data		E.	ator Indo	ID / Des x Range :	ired Number S	ave								
	Board Based Data				on Number :										
	Doard Dased Data				sword (same with ID va	lue) : 🗍									
	CO Line Data			1101 000	more (sume with to ve	ID Save									
	System Data														
	Station Group Data			Index	Registered Number	Device Type	ID	Password	Zone	Desired Number	Nation Code	Language	Linked	Version	Remark
									1		North America 🔻	•			
	ISDN Line Data			2					1		North America v	English •			
	SIP Data			3					1		North America 🔻	•			
	Tables Data		_	4					1		North America 🔻				
									1		North America 🔻	Ŭ			
	Networking Data								1		North America 🔻	•			
	H.323 Routing Table			7					1		North America 🔻	•			
	-			8					1		North America v	English •			
	T-NET Data			9					1		North America 🔻	English •			
	Zone Data			10					1		North America 🔻	English v			
				11					1		North America 🔻	English v			
	Device Login V			12					1		North America 🔻	English V			
	Remote Device Registration(442)			13					1		North America v	English V			
	Station User Login(443)			14					1		North America 🔻	English •			
				15					1		North America 🔻	English •			
	UCS Data			16					1		North America 🔻	English •			
	DECT Data			17					1		North America 🔻	English •			
				18					1		North America 🔻	English •			
	Hotel Data			19					1		North America 🔻	English •			
	Redundancy Data	-		20					1		North America 🔻	English 🔻			

Enter Index Range: eMG80: 1-140 / eMG800: 1-1200 / UCP: 1-2400

Figure 4.4.14.2-1 Station User Login

Station User Login configures User credentials for registration of iPECS UCS clients and initial registration of SIP phones. A station must register with the system each time it is connected to the system. The ID and password are assigned along with other characteristics of the remote station such as Zone, desired station number, country code, Language and a remark can be defined. The iPECS UCS Client can be configured as link-paired station by assigning the same Desired-Number as a registered desktop iPECS LIP Phone.

Note for the UCS Client, the UCS Standard Client Login, PGM 446, may be employed in place of PGM 443 as a single point to configure the client information.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Registered Number	Station number registered to the station, displayed only after registration.	Station number	
Device Type	This filed is indicated what kind of device type is.		
ID	The User Login ID must be entered for registration	12 Characters	
Password	The User Login password must be entered for registration.	12 digits	

Table 4.4.14.2-1 STATION USER LOGIN

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Zone	The device can be assigned to a Zone.	1-32	1
Desired Number	The desired number can be entered for the device. To link an iPECS UCS and iPECS LIP Phone, enter the station number of the registered iPECS LIP Phone prior to registration of the iPECS UCS or the UCS Client, PGM 446 may be used as the single administration point.	Station number	
Nation code	The Nation code for the device is assigned.		Assigned in System ID
Language	The default Language type for system voice prompts can be assigned to the device from the available languages.	Language Code	Nation dependent
Linked	This field indicates the Linked pair status of the station.		

Table 4.4.14.2-1 STATION USER LOGIN

4.4.15 UCS Data

Selecting the UCS Data group returns the sub-menu displayed in the left frame as shown in the following figure.

PGM Base Function Bas	se Kavorite PC	GM		×
Q PGM Search	0			Edit
System ID & Numbering Plans	System Over			Common Attribute
Station Data	System ID & N	System ID & Numb.	System ID & Numb	Station Data
Board Based Data	Flexible Butto	ons(1 Common Attribute.	CO/IP Ring Assign	CID/CPN Attributes
CO Line Data	Station Da	CO Line Data	CO Line Data	CO Line Data
System Data	System Attribu			Station Group Attri
Station Group Data	System Da	ata System Data	Station Group Data	Station Group Data
ISDN Line Data	Station Author Tables Da		Flexible DID Conv Tables Data	
SIP Data	Tables Da		Tables Data	
Tables Data				
Networking Data				
H.323 Routing Table				
T-NET Data				
Zone Data				
Device Login				
UCS Data	~			
Common Attributes(445)				
UCS Standard Client Login(446)				
UCS Premium Client Login(446)				
UCS Standard Client Attributes(447)				
Administrative Message(448)				
UCS Standard Client Audio Setting(449)	•			

Figure 4.4.15-1 UCS Data Main Page

4.4.15.1 Common Attributes – PGM 445

Selecting Common attributes will display the common attributes input page. Click **[Save]** button after changing Value.

(PGM Base Function Base		avorite PGM Common Attributes(, x			×
(PGM Search					Save
	System ID & Numbering Plans	Order <u>↓</u>	a Attribute <u>↓</u> a		Value	Range
	Station Data	1	Concurrent Clients In Login	100		System Capacity
		2	Client Min. Changeable Password Length	12		0-12
	Board Based Data	3	Do Not Allow The Same Password And User ID	OFF T		
	CO Line Data	4	XML Port	8899		00001-65535
	System Data	5	Clients Check Interval	30		30-60 sec
	System Data	6	UCS Server Type	Standard	Ⅰ ▼	ł.
	Station Group Data			LDAP Ser	rver Settings	
	ISDN Line Data	1	Server Display Name	LDAP Serv	ver	
		2	Server IP			
	SIP Data	3	Server Port			00001-65535
	Tables Data	4	Require Login	ON V		
<		5	Use SSL	OFF •		
	Networking Data	6	Search Base			
	H.323 Routing Table					
	T-NET Data					
	Zone Data					
	Device Login					
	UCS Data v					
	Common Attributes(445)					
	UCS Standard Client Login(446)					
	UCS Premium Client Login(446)					
	UCS Standard Client Attributes(447)					

Figure 4.4.15.1-1 Common Attributes

Common Attributes for the UCS Clients include client login characteristics and LDAP server information shared with the clients as shown in the following table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Concurrent Clients in login	iPECS system employs a per-seat license. The number of UCS Clients that are active at a time cannot exceed the licensed capacity.	System capacity	100
Minimum Password Length	The minimum length of a UCS Client password can be defined up to 12 characters.	0-12	12
Do Not Allow the Same Password and User ID	The User ID can be employed as the password if permitted (OFF).	OFF ON	OFF
XML Port	The system employs XML to send or request certain information such as the User picture. The TCP/IP port can be defined.		8899
Clients Check Interval	Periodically, iPECS system will verify the status of logged in UCS clients.	30-60 Seconds	30

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
UCS Server Type	The server that provides UCS service can be iPECS system (Standard) or the external UCS Server (Premium). Additional video and collaboration features are provided by the UCS Server as Premium service. When the UCS Server is employed, the Standard Client Login information (PGM 446) is transferred from iPECS system to the UCS Server after the client is registered. If "Preserve UCS DB when server type is changed" is checked, UCS DB will not be initialized when UCS server mode is changed.	Standard Premium	Standard
	LDAP Server Settings		
Server Display Name	When the UCS Client requires access to an LDAP server, the system will provide the LDAP server information to the client. The server name is defined in this field.	15 characters	
Server IP	When an LDAP server is employed, the IP address of the server must be defined.		0.0.0.0
Server Port	When an LDAP server is employed, the TCP/IP port of the server must be defined.	00001-65535	
Require Login	The UCS Client ID and Password may be required for log in to the LDAP server.	OFF ON	ON
Use SSL	When supported by the server, the client can employ SSL (Secure Sockets Layer) for added security.	OFF ON	OFF
Search Base	Search base means Search option. You can get the search option from LDAP Server manager. For example, if OU (Organization Unit) is OC and DC (Directory Company) are ucapp and com, you can give the option "OU=OC, DC=ucapp, DC=com" in this field. You will get the desired directory.		

Table 4.4.15.1-1 Common attributes

4.4.15.2 UCS Standard Client Login – PGM 446

Selecting UCS Standard Client Login will display the UCS standard client login input page. Enter the Client index and click **[Load]** to modify the Client data. Use the check boxes to indicate the attributes to modify. Click **[Save]** button after changing Value.

PGM Base Function Base	< Favorite PGM UCS Standard Client Logi					
PGM Search 0	Favorite PGM UCS Standard Client Logi	n(446) × C				
	Enter UCS Client Index (1 - 200) : Default : 1-100	E Load				Sa
stem ID & Numbering Plans	UCS Client Index 1-100					Delet
tation Data						
oard Based Data	(*) Required input Item Index Station Number (*) User ID (*) User Password (*) Name (*) Office Ph	none Cellular Phone Home Phone Office Name Office Dep	partment (*) E-mail Address (*) Linked	Pair Unique ID	Mutual Presence Permission	License
0 Line Data	8 1.		OFF	•	ON •	STD-V .
system Data	8 2		OFF		ON •	STD-V .
	0.3		OFF		ON .	STD-V.*
Station Group Data	60 A		OFF	•	0N •	STD-V .
SDN Line Data	GL 5		OFF	•	ON .	STD-V •
IP Data	B 6		OFF	*	ON +	STD-V .
or Data	10 T		OFF		ÓN •	STD-V •
lables Data	13 A		OFF	•		STD-V .
Vetworking Data	0.5		OFF	•	ON •	STD-V •
Sector Processor	10		OFF	•	ON .	STD-V .
1 323 Routing Table	B 11		OFF	•	ON •	STD-V .
-NET Data	B 12		OFF	•	0N •	STD-V .
Ione Data	B 13		OFF		ON •	STD-V .
one Lata	B 14		OFF	*	ON •	STD-V .
Nevice Login	U 15		OFF			STD-V .
CS Data v	□ 16		OFF			STD-V *
	E 17		OFF			STD-V .
Common Attributes(445)	E 18		OFF			STD-V •
UCS Standard Client Login(446)	E 19		OFF	*	ON •	STD-V .
UCS Premium Client Login(446)	E 20		OFF	•		STD-V •
UCS Standard Client Attributes(447)	El 21		OFF			STD-V +
Administrative Message(448)	0 22		OFF			STD-V .
UCS Standard Client Audio	8 23		OFF			STD-V .
Setting(449)	1 24		OFF	•	ON T	STD-V.*

Enter UCS Client Index: eMG80: 1-32 / eMG800: 1-200 / UCP: 1-200

Figure 4.4.15.2-1 UCS Standard Client Login

The UCS Client information is configured for each client prior to registration. When the UCS Server is employed to provide Premium service, iPECS system will transfer the information to the server after the client registers and, after registration, any changes to the client configuration are accomplished in the UCS Server.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station Number	The station number for the UCS Client can be assigned here and will update PGM 103 and 443.		
User ID	The UCS Client Id for the UCS Client can be assigned here and will update PGM 103 and 443.	Min. 4 characters	
User PWD	The UCS Client password, up to 32 characters must be assigned.	Max. 32 characters	
Name	The user's name, up to 32 characters should be entered.	Max. 32 characters	
Office Phone	Set Office phone number.	Max. 32 characters	
Cellular Phone	Set Cellular phone number.	Max. 32 characters	
Home Phone	Set Home phone number.	Max. 32 characters	
Office Name	Set Office name.	Max. 32 characters	
Office Department	Set Office Department.	Max. 32 characters	
Email address	Set Email address.	Max. 40 characters	
Linked Pair	If the UCS Client is part of a Linked pair, it must be enabled here. By entering the Station number of iPECS IP Phone as the UCS Client Station Number, the stations will employ MAC linking.	OFF ON	OFF

Table 4.4.15.2-1 UCS Standard Client Login

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Unique ID	When the UCS Server is employed, each client must have a unique Id of at least 40 characters, which identifies the clients to the UCS Server. Once the Client registers, iPECS system will send the information to the UCS Server. Note that the UCS Server Type in PGM 445 must be configured as "Premium".	Min. 40 characters	
Mutual presence permission	The presence status of the Client can be shared with other clients.	OFF ON	ON
License	The status of license will be displayed and select the license for usage among range.	STD-V STD-NV MOBILE	License

Table 4.4.15.2-1 UCS Standard Client Login

4.4.15.3 UCS Premium Client Login - PGM 446

Selecting UCS Premium Client Login will display the UCS Premium client login input page. Enter the Client index and click **[Load]** to modify the Client data. Use the check boxes to indicate the attributes to modify. Click **[Save]** button after changing Value.

Enter UCS Server ID: eMG80: 1-2 / eMG800: 1-5 / UCP: 1-16

PGM Base Function Base			112101012020		10.524			×							
PGM Search O	* <u>_</u>		Favorite PGM			Sumium C	lient Login(445	o ×							
System ID & Numbering Plans	Ente	WUCS S	ierver ID (t - 16) :	L	nad										Save
Station Data	UCS	Dis Sarver 10 1											Losiete		
Board Based Data			input item												
CO Line Data	R.C	onfirmat	ion from UCS Server												
System Data	Pag	e index (100 users per page)	1 • Los	1										
Station Group Data			Station Number (")	User ID (")	User Password (*)	Name (")	Office Phone	Cellular Phone	Home Phone	Office Name	Office Department (*)	E-mail Address (")	Linked Pair	Unique ID Mutual Presence Permission	License
SDN Line Data													OFF	ON	PREM-V PREM-V
IP Data	0												OFF -	ON ON	PREMIV
abies Data													OFF	ON	PREM-V
and the second se	- 10	5											OFF	ON	PREM-V
Vetworking Data	-												OFF	ON	PREM-V
1323 Routing Table	- 60												OFF	ON	PREM-V
-NET Data													OFF -	ON	PREMIV
and the second sec	- 10												OFF -	ON .	PREM-V
lone Data		10											OFF -	ÓN -	PREM-V
Device Login		11											OFF -	ON	PREM-V
ICS Data		12											OFF -	ON	PREM-V PREM-V
25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		13 14											OFF -	ON ON	PREM-V
Common Attributes(445)		15											OFF	ON ON	PREMV
UCS Standard Client Login(445)	10												OFF	ON	PREMV
UCS Premium Client Login(445) UCS Standard Client	6												OFF	ON	PREMV
Attributes(447)		15											OFF	ON	PREM-V
Administrative Message(448)		19											OFF	ON	PREM-V
UCS Standard Client Audio		20											OFF	ON	PREMAY

Figure 4.4.15-1 UCS Premium Client Login

The UCS Client information is configured for each client prior to registration. When the UCS Server is employed to provide Premium service, iPECS system will transfer the information to the server after the client registers and, after registration, any changes to the client configuration are accomplished in the UCS Server.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Station Number	The station number for the UCS Client can be assigned here and will update PGM 103 and 443.		
User ID	The UCS Client Id for the UCS Client can be assigned here and will update PGM 103 and 443.	Min. 4 characters	
User PWD	The UCS Client password, up to 32 characters must be assigned.	Max. 32 characters	
Name	The user's name, up to 32 characters should be entered.	Max. 32 characters	
Office Phone	Set Office phone number.	Max. 32 characters	
Cellular Phone	Set Cellular phone number.	Max. 32 characters	
Home Phone	Set Home phone number.	Max. 32 characters	
Office Name	Set Office name.	Max. 32 characters	
Office Department	Set Office Department.	Max. 32 characters	
Email address	Set Email address.	Max. 40 characters	
Linked Pair	If the UCS Client is part of a Linked pair, it must be enabled here. By entering the Station number of iPECS IP Phone as the UCS Client Station Number, the stations will employ MAC linking.	OFF ON	OFF

 Table 4.4.15.3-1 UCS Premium Client Login

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Unique ID	When the UCS Server is employed, each client must have a unique Id of at least 40 characters, which identifies the clients to the UCS Server. Once the Client registers, iPECS system will send the information to the UCS Server. Note that the UCS Server Type in PGM 445 must be configured as "Premium".	Min. 40 characters	
Mutual presence permission	The presence status of the Client can be shared with other clients.	OFF ON	ON
License	The status of license will be displayed and select the license for usage among range.	PREM-V PREM-NV MOBILE	

Table 4.4.15.3-1 UCS Premium Client Login

4.4.15.4 UCS Standard Client Attributes – PGM 447

Selecting UCS Standard client attributes will display the UCS standard client attributes input page. Enter the UCS Client index then click **[Load]** to modify the client data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter UCS Client Index: eMG80: 1-32 / eMG800: 1-200 / UCP: 1-200

PGM Base Function Ba		vorite PGM	UCS Standard Cli	< 0					
Q PGM Search	Enter UCS Client Index (1 - 200) :								
System ID & Numbering Plans	UCS Clie	ent Index 1							
Station Data	Order ‡		Attribute	Value	Range				
Board Based Data	1		Allow Scheduled Dial	ON T	PC Client Only				
	2		Allow Flexible Button	ON T	PC Client Only				
CO Line Data	3		Allow Step Call	ON V	PC Client Only				
System Data	4		Allow Call Memo	ON V	PC Client Only				
Station Group Data	5		Allow Call Pickup	ON •	PC Client Only				
ISDN Line Data									
SIP Data									
Tables Data									
Networking Data									
H.323 Routing Table									
T-NET Data									
Zone Data									
Device Login									
UCS Data	~								
Common Attributes(445)									
UCS Standard Client Login(446)									
UCS Premium Client Login(446)									
UCS Standard Client Attributes(447)									
Administrative Message(448)									
UCS Standard Client Audio Setting(449)									

Figure 4.4.15.4-1 UCS Standard Client Attributes

The UCS Client can be allowed or denied access to several features as described in Table 4.4.15.4-1.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Allow Scheduled Dial	Allows Scheduled Dialing from the client.	OFF/ON	ON
Allow Flexible Button	Allows the user to access Flex buttons on the UCS Client.	OFF/ON	ON
Allow Step Call	Allows access to the step-call feature by the UCS client.	OFF/ON	ON
Allow Call Memo	Allows the UCS Client access to the Call Memo feature.	OFF/ON	ON
Allow Call Pickup	Permits the UCS Client use of the Direct and Group Call Pick- up features.	OFF/ON	ON

4.4.15.5 Administrative Message – PGM 448

Selecting Administrative Message will display the administrative message input page. Click **[Send]** button after filling out the subject and Contents and checking the destination.

	PGM Base Function Base	Favorite PGM Administrative ×	×
	Q PGM Search	Attribute Value	
	System ID & Numbering Plans	Subject(Max 80 Bytes)	
		Destination	
	Station Data		
	Board Based Data		
	CO Line Data	Contents(Max 255 Bytes)	
	System Data		
	Station Group Data	Send	
	ISDN Line Data	Order Date Time Subject Contents	
	SIP Data		
<	Tables Data		
	Networking Data		
	H.323 Routing Table		
	T-NET Data		
	Zone Data		
	Device Login		
	UCS Data V		
	Common Attributes(445) UCS Standard Client Login(446) UCS Premium Client Login(446) UCS Standard Client Attributes(447) Administrative Message(448) UCS Standard Client Audio		

Figure 4.4.15.5-1 Administrative Message

An administrator can send a message to UCS Clients such as a Welcome message.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Subject	Message subject.	Max. 80 bytes	
Destination	The message can be sent to currently active UCS Clients or to All Clients. For the All Clients selection, the message is sent to all active Clients and as each Client logs in.	Login user All users	All
Contents	Message body.	Max. 255 bytes	

 Table 4.4.15.5-1 Administrative Message

4.4.15.6 UCS Standard Client Audio Setting – PGM 449

Selecting UCS Standard Client Audio setting will display the audio setting input page. Enter the Client index and click **[Load]** to modify the Client data. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

Enter UCS Client Index: eMG80: 1-32 / eMG800: 1-200 / UCP: 1-200

	PGM Base Function Base										
			avorite PGM	UCS Standard Client×							
(PGM Search				-						
	System ID & Numbering Plans	Enter UC	S Client Index (1	- 200) :			Load				
	System ib a Nambering Frans	UCS Client Index 1									
	Station Data										
	Board Based Data	Audio Setting By Mobile Model									
	CO Line Data			e User & Moblie Phone							
	CO Line Data	Order <u>↓</u>	Check All	Attribute	Value						
	System Data		Earpiece	or Earphone Conversation Mod	le						
	Station Group Data	1		Enable Noise Suppression	OFF T						
		2		Enable Automatic Mic Volume	OFF T						
	ISDN Line Data	3		Echo Control	Disable EC •						
	SIP Data		S	peaker Conversation Mode							
	Tables Data	1		Enable Noise Suppression	OFF T						
	Tables Data	2		Enable Automatic Mic Volume	OFF T						
	Networking Data	3		Echo Control	Disable EC 🔻						
	H.323 Routing Table										
	-										
	T-NET Data										
	Zone Data										
	Device Login										
	UCS Data ~										
	Common Attributes(445)										
	UCS Standard Client Login(446)										
	UCS Premium Client Login(446)										
	UCS Standard Client Attributes(447)										
	Administrative Message(448)										
	UCS Standard Client Audio Setting(449)	-									

Figure 4.4.15.6-1 UCS Standard Client Audio Setting

Audio characteristic for the Speaker and earphone mode can be established for best overall audio performance.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT					
Earpiece or Earphone conversion mode								
Enable Noise Suppression	The system can implement various levels of "Noise suppression from "OFF" to "Very High" in six levels.	OFF ON	OFF					
Enable Automatic Mic. Volume	The system can implement Auto gain control for the Earphone.	OFF ON	OFF					
Echo Control	Echo cancellation can be enabled for the Earphone.	Disable Minimum Low	Disable EC					

Table 4.4.15.6-1 Audio Setting by Mobile User & Mobile phone

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
		Moderate	
		High	
		Maximum	
Speaker Conversation Mode			
Enable Noise Suppression	The system can implement various levels of "Noise	OFF	OFF
	suppression from "OFF" to "Very High" in six levels.	ON	
Enable Automatic Mic. Volume	The system can implement Auto gain control for the	OFF	OFF
	Speakerphone.	ON	
Echo Control		Disable	
		Minimum	
	Echo cancellation can be enabled for the	Low	OFF
	Speakerphone.	Moderate	
		High	
		Maximum	

Table 4.4.15.6-1 Audio Setting by Mobile User & Mobile phone

4.4.16 DECT Data

Selecting the DECT Data program group returns the sub-menu displayed in the left frame as shown in the following figure.

	PGM Base Function Base	< Favorite PGM			×
c	PGM Search				Edit
	System ID & Numbering Plans	System Overview System ID & Numberin	System IP Plan(102) System ID & Numberin	Device IP Plan(103) System ID & Numberin	Common Attributes(1 Station Data
	Station Data		ojotan ib a ranban		Otation Data
	Board Based Data	Flexible Buttons(115/ Station Data	Common Attributes(1 CO Line Data	CO/IP Ring Assignm CO Line Data	CID/CPN Attributes(151) CO Line Data
	CO Line Data				
	System Data	System Attributes(16 System Data	System Password(162) System Data	Station Group Assign Station Group Data	Station Group Attribu Station Group Data
	Station Group Data				
	ISDN Line Data	Station Authorization Tables Data	System Authorization Tables Data	Flexible DID Conversi Tables Data	
	SIP Data				
<	Tables Data				
	Networking Data				
	H.323 Routing Table				
	T-NET Data				
	Zone Data				
	Device Login				
	UCS Standard				
	DECT Data ~				
	DECT Registration(0#) DECT Attributes(491) DECT Multizone Support				

Figure 4.4.16-1 DECT Data Main Page

4.4.16.1 DECT Registration (0#)

Selecting DECT Registration returns the DECT Registration input page. Use the check mark to indicate which attributes to modify; data for checked attributes is stored by clicking **[Save]** button.

PGM Base Function Base	•	F	avori	te PGM DECT Regis	tr X		
Q PGM Search	>						
System ID & Numbering Plans		Order		Attrib	ute	Value	Comment
	-	1	\odot	Park Code		NOT PROGRAMMED	
Station Data		2	\bigcirc	AC Code		1111	
Board Based Data		3	\bigcirc	DECT Subscribe All Data E	Erase Password		
CO Line Data	1				Option		
System Data	-	1	0	DECT Subscribe enable	Desired Station Phone Type	GDC-480/500H •	
	-	2		DECT Unsubscribe	Desired Station		
Station Group Data		3	\bigcirc	DECT User Authentication	Desired Station		
ISDN Line Data		4	0	DECT Mobility	Desired Station DECT Mobility ON/OFF	OFF V write	
SIP Data		5	\bigcirc	Station Erase	Desired Station		
Tables Data				DECT Registered St	ation		
Networking Data		Ord	ler	Station Regi	stration Status		
H.323 Routing Table							
T-NET Data							
Zone Data							
Device Login							
UCS Standard							
DECT Data ~							
DECT Registration(0#) DECT Attributes(491)							
DECT Multizone Support							

Figure 4.4.16.1-1 DECT Subscription Screen

On this page, the DECT PARK and authorization codes are defined. Several "Options" are available to enable subscription, unsubscribe a DECT station, enable mobility, etc. A chart is included displaying the registered and subscribed DECT terminals.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Park Code	The PARK (Portable Access Rights Key) Code is a unique system Id entered at the DECT handset during the subscription process.	14 digits	Not programmed
AC Code	The Authentication Code is entered at a DECT handset to verify subscription.	Up to 8 digits	1111
DECT Subscribe All Data Erase Password	To erase all data of DECT, enter the password.		
	Option		
DECT Subscribe	Enables the system to accept subscription from a		
Enable	DECT handset.		

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Desired Station	Desired station number for the wireless DECT handset.	Station Number	
Phone Type	Several types of handsets may be selected.	GDC-480H/500H, GDC-400/450H, Standard GAP	GDC- 480H/500H
	Press [Send] button after entering the number and type.		
DECT Unsubscribe	To terminate a subscription, enter the station number for the DECT handset. Note the Station must be connected, otherwise use Station Erase field below.	Station number	
DECT User Authentication	To subscribe successfully, the user will be required to enter the Station Authorization Code from PGM 227.		
DECT Mobility	When a DECT handset is registered to multiple systems that are networked, calls can be routed over the network to the DECT handset location.	Station number	
	Enter the registered station number, select Mobility ON or OFF and click [write] box then Save the page.	OFF ON	OFF
Station Erase	To terminate the registration for a DECT phone that is not connected, enter the registered station number and click [Save] button.	Station number	

Table 4.4.16.1-1 DECT Registration

4.4.16.2 DECT ATTRIBUTES - PGM 491

Selecting the DECT Attributes returns the DECT ATTRIBUTES input page. Click **[Save]** button after changing Value.

	PGM Base Function Base	<	Fa	vorite PGM DECT Attrib ×			
(PGM Search						
	System ID & Numbering Plans		Order		Value	Remark	
	Station Data		1	Auto Call Release	OFF •		
	Station Data		2	Base Fault Alarm	Disable •		
	Board Based Data		3	Chain Fault Alarm	Disable		
	CO Line Data		4	Handover Sensitivity (GDC-500H only)	Normal •	If this value is changed, all WTIMs will restart.	
	System Data						
	Station Group Data						
	ISDN Line Data						
	SIP Data						
	Tables Data						
	Networking Data						
	T-NET Data						
	Zone Data						
	Device Login						
	UCS Standard						
	DECT Data ~						
	DECT Registration(0#)						
	DECT Attributes(491)						
	DECT Multizone Support						

Figure 4.4.16.2-1 DECT ATTRIBUTES

DECT Attributes define functions associated with the DECT equipment and operation as shown in the following table.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Auto Call Release	If enabled, when the other party of an active internal call disconnects, DECT terminal returns to idle.	OFF ON	OFF
Base Fault Alarm	If enabled, DECT Base station alarms are sent to the Attendant.	Disable Enable	Disable
Chain Fault Alarm	If enabled, alarms are sent to the Attendant indicating a fault in the link between WTIM modules. This feature is only for UCP.	Disable Enable	Disable
Handover Sensitivity (GDC- 500H only)	The user can control the handover sensitivity of GDC- 500H. (Normal or Strong) If this value is changed, all WTIBs will restart.	Normal Strong	Normal

Table 4.4.16.2-1 DECT Attributes

4.4.16.3 DECT Multi-zone support

Selecting the DECT Multi-zone support will display the DECT Multi-zone support input page. Click **[Save and All WTIM (WTIB)s reset]** button after changing Value to apply.

PGM Base Function Base	•	F	avorite PGM	DECT	Multiz X				
Q PGM Search	0							Save and all W	ГIMs
System ID & Numbering Plans		Zone	Master Zone	Master	Slave1	Slave2			
Station Data	_	0	ON V	0	0	0			
	_	1	OFF V	0	0	0			
Board Based Data	_	2	OFF V		0	0			
CO Line Data		3	OFF OFF	0	0	0			
System Data		4	OFF V	0	0	0			
-	_	5 6	OFF V	0	0	0			
Station Group Data		7	OFF T	0	0	0			
ISDN Line Data		8	OFF V	0	0	0			
SIP Data		9	OFF V	0	0	0			
Tables Data		Attribute Value							
Networking Data		Thre	shold strength						
-			shold duration				3sec ▼		
T-NET Data	_	Refe	rence strength						
Zone Data									
Device Login									
UCS Standard									
DECT Data	~								
DECT Registration(0#)									
DECT Attributes(491)	_								
DECT Multizone Support									

Figure 4.4.16.3-1 DECT Multi-zone support attributes

It is for roaming of DECT phones in large sites with more than 3 WTIM (WTIB).

4.4.17 Hotel Data

Selecting the hotel data returns the sub-menu displayed in the left frame as shown in the following figure.

	SIP Data	^				[×
	Tables Data		Favorite PGM				~
	Networking Data					Edi	it
	H.323 Routing Table		System Overview System ID & Numberin	System IP Plan(102) System ID & Numberin	Device IP Plan(103) System ID & Numberin	Common Attributes(1 Station Data	
	T-NET Data				Cystem is a number	Otation Data	
	Zone Data		Flexible Buttons(115/ Station Data	Common Attributes(1 CO Line Data	CO/IP Ring Assignm CO Line Data	CID/CPN Attributes(151) CO Line Data	
	Device Login						
	UCS Standard		System Attributes(16 System Data	System Password(162) System Data	Station Group Assign Station Group Data	Station Group Attribu Station Group Data	
	DECT Data						
	Hotel Data	~	Station Authorization Tables Data	System Authorization Tables Data	Flexible DID Conversi Tables Data		
<	HOTEL Attributes(300) HOTEL Room Attributes(301) Room Type(302) Room Class(303) Room Class Rate(304) Call Charge Rate(305) MiniBar List(306) Tax Rate(307) Part Time(308) Room Charge Preview ICM Call Of Room Call Group of Room Overview Call Group of Room Overview Call Group Of Room One-Time CO Call Check-In/Out Overview Check-In Check-Out Hotel Info Move Room						

Figure 4.4.17-1 Hotel Data main page

With Hotel Data, we describe the function on another Hotel Feature and Programming manual. Refer to "Hotel Feature and Programming manual'.

4.4.18 Green Mode for eMG - PGM 500

Selecting the Green Mode program group returns the sub-menu displayed in the left frame as shown in the following figure.

	PGM Base Function Base	Favorite PGM			×
(PGM Search				Edit
	System ID & Numbering Plans	System Overview System ID & Numberin	System IP Plan(102) System ID & Numberin	Device IP Plan(103) System ID & Numberin	Common Attributes(1 Station Data
	Station Data	System ID & Numbern	System ib a Numbern	System ID & Numbern	Station Data
	Board Based Data	Flexible Buttons(115/ Station Data	Common Attributes(1 CO Line Data	CO/IP Ring Assignm CO Line Data	CID/CPN Attributes(151) CO Line Data
	CO Line Data	Station Data	CO Line Data	CO Line Data	CO Line Data
	System Data	System Attributes(16 System Data	System Password(162) System Data	Station Group Assign Station Group Data	Station Group Attribu Station Group Data
	Station Group Data	System Data	System Data	Station Gloup Data	Station Group Data
	ISDN Line Data	Station Authorization Tables Data	System Authorization Tables Data	Flexible DID Conversi Tables Data	
	SIP Data	Tables Data	Tables Data	Tables Data	
<	Tables Data				
	Networking Data				
	H.323 Routing Table				
	T-NET Data				
	Zone Data				
	Device Login				
	UCS Standard				
	DECT Data				
	Hotel Data				
	Green Mode v				
	Green Mode Activation(500) Green Mode Time Setting(501)				

Figure 4.4.18-1 Green mode main page

4.4.18.1 Green mode activation

Selecting Green Mode Activation returns the page shown. Click **[Save]** button after changing Value.

PGM Base Function Base		< Fav	vorite PGM	Green Mode	×	
Q PGM Search	0					
System ID & Numbering Plans						
Station Data			Save Usage :			C (C)
Board Based Data		1	DSIB	1000 - 1011	Power Save Mod	ON
CO Line Data						
System Data						
Station Group Data						
ISDN Line Data						
SIP Data						
Tables Data						
Networking Data						
H.323 Routing Table						
T-NET Data						
Zone Data						
Device Login						
UCS Standard						
DECT Data						
Hotel Data						
Green Mode	~					
Green Mode Activation(500) Green Mode Time Setting(501)	•					

Figure 4.4.18.1-1 Green Mode Activation

The system can disable the power of a Digital Phone or Single Line Telephone (SLT) installed in the HYIB/SLIB/DSIB to save power during night or holiday mode. The power ON/OFF can be controlled by Web admin manually or automatically by assigning power ON/OFF time.

ATTRIBUTE	DESCRIPTION	DEFAULT
Power Save Usage	Enables or Disables Power Save usage.	Disable
Slot No.	The Slot Number of board supporting power control.	
Board Type	Board Type.	
Station Range	Station Number Range of board supporting power control.	
Power Save Mode	Enables or Disables Power Save Usage Mode of each board.	Disable
Current Status	Displays the current status of board power ON/OFF.	ON
Power ON button	Power ON manually all of stations in Power Save used board.	
Power OFF button	Power OFF manually all of stations in Power Save used board.	

Table 4.4.18.1-1 Green Mode Activation Attributes

4.4.18.2 Green Mode Time Setting

Selecting the Green Mode Time Setting returns the page shown. Click **[Save]** button after changing Value.

	PGM Base Function Base	< Favorite F	GM Green M	ode ×		×
•	Q PGM Search					Save
ſ	System ID & Numbering Plans	Attribute	Value		Range	
		Monday	Power On Time			
	Station Data	Worlday	Power OFF Time			
	Board Based Data	Tuesday	Power On Time			
	CO Line Data		Power OFF Time Power On Time			
	System Data	Wednesday	Power OFF Time			
	Station Group Data	Thursday	Power On Time		hhmm (Must be 4 digits) 00:00 ~ 23:59	
	ISDN Line Data		Power OFF Time		00.00 ~ 23.59	
		Friday	Power On Time Power OFF Time			
	SIP Data		Power On Time			
<	Tables Data	Saturday	Power OFF Time			
	Networking Data		Power On Time			
	H.323 Routing Table	Sunday	Power OFF Time			
	T-NET Data					
	Zone Data					
	Device Login					
	UCS Standard					
	DECT Data					
	Hotel Data					
	Green Mode v					
	Green Mode Activation(500) Green Mode Time Setting(501)					

Figure 4.4.18.2-1 Green Mode Time Setting

The power ON/OFF time can be assigned to control Green Mode automatically. The power ON/OFF time can be defined at each day in a week. And when defined that time, power to assign board will be served or not.

ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
Power ON Time	The time to start newer supply to assigned board	hhmm	
Power ON Time	The time to start power supply to assigned board.	(Must be 4 Digits)	
Power OFF Time	The time to stop power supply to assigned board.	hhmm	
Fower OFF Time	The time to stop power supply to assigned board.	(Must be 4 Digits)	

Table 4.4.18.2-1 Green Mode Time Setting

4.4.19 Redundancy Data for UCP600 & 2400

Selecting the redundancy data returns the sub-menu displayed in the left frame as shown in the following figure.

	PGM Base Function Base	< Favorite PGM			×
	Q PGM Search O				Edit
	System ID & Numbering Plans	System IP Plan(102) System ID & Numberi	Device IP Plan(103) System ID & Numberi	Common Attributes(Station Data	Flexible Buttons(115 Station Data
	Station Data				
	Board Based Data	Common Attributes(CO Line Data	CO/IP Ring Assignm CO Line Data	CID/CPN Attributes(1 CO Line Data	System Attributes(16 System Data
	CO Line Data				
	System Data	System Password(162) System Data	Station Group Assig Station Group Data	Station Group Attrib Station Group Data	Station Authorizatio Tables Data
	Station Group Data				
	ISDN Line Data	System Authorizatio Tables Data	Flexible DID Conver Tables Data		
	SIP Data				
<	Tables Data				
	Networking Data				
	T-NET Data				
	Zone Data				
	Device Login				
	UCS Standard				
	DECT Data				
	Hotel Data				
	Redundancy Data ×				
	Redundancy Attributes(502) Redundancy IP Address(503)				

Figure 4.4.19-1 Redundancy Data main page

4.4.19.1 Redundancy Attributes – PGM 502

Selecting Redundancy attributes will display the page shown. Click **[Save]** button after changing Value.

PGM Base Function Base	<	Favorite PGM Redundance	y ×		
Q PGM Search					
System ID & Numbering Plans		Attribute	Value	Remark	
Station Data		CPU Redundancy Usage	OFF T		
Station Data		Change Active UCP By Power Fail	OFF •		
Board Based Data		Geographic Redundancy	OFF T		
CO Line Data					
System Data					
Station Group Data					
ISDN Line Data					
SIP Data					
Tables Data					
Networking Data					
T-NET Data					
Zone Data					
Device Login					
UCS Standard					
DECT Data					
Hotel Data					
Redundancy Data 🗸 🗸					
Redundancy Attributes(502) Redundancy IP Address(503)					

Figure 4.4.19.1-1 Redundancy Attributes

The Redundancy attributes enable redundancy and activate "Geographical" redundancy.

	· · · · · · · · · · · · · · · · · · ·		
ATTRIBUTE	DESCRIPTION	RANGE	DEFAULT
CPU Redundancy	When redundancy is employed, this field informs the master	OFF	OFF
usage	UCP that a redundant UCP is available.	ON	OFF
Change Active UCP By	When power fails, the active UCP is changed to the standby	OFF	OFF
Power Fail	mode and the standby UCP becomes active.	ON	OFF
Geographical	Geographical redundancy permits remote location of the	OFF	OFF
Redundancy	redundant UCP modules.	ON	UFF

4.4.19.2 Redundancy IP Address – PGM 503

Selecting the redundancy IP Address will display the page shown. Click **[Save]** button after changing Value.

	PGM Base Function Base	< Favorite	PGM	Redundancy X		
•	Q PGM Search					
	System ID & Numbering Plans		Attrib	ute	Value	
	-			IP Address	10.10.10.2	
	Station Data	My system	LAN	Net Mask	255.255.0.0	
	Board Based Data			Gateway IP Address		
	Sourd Sabod Sala			Firewall IP Address	0.0.0.0	
	CO Line Data			IP Address	10.20.10.2	
	Custom Data	Micovotom	LAN	Net Mask	255.255.255.0	
	System Data	My system	LAN	Gateway IP Address	10.20.10.1	
	Station Group Data			Firewall IP Address	0.0.0.0	
				IP Address	0.0.0.0	
	ISDN Line Data			Net Mask	0.0.0.0	
	SIP Data	Associate	System LAN	1 Gateway IP Address		
	Tables Data			Firewall IP Address	0.0.0.0	
				IP Address	10.20.10.3	
	Networking Data			Net Mask	255.255.255.0	
	T-NET Data	Associate	System LAN	2 Gateway IP Address	10.20.10.1	
	Zone Data			Firewall IP Address	0.0.0.0	
	Device Login					
	UCS Standard					
	DECT Data					
	Hotel Data					
	Redundancy Data 🗸					
	Redundancy Attributes(502)					
	Redundancy IP Address(503)					

Figure 4.4.19.2-1 Redundancy IP Address

For proper operation, the IP addressing parameters of the LAN1 ports of the redundant UCP modules must be defined for Redundancy.

4.4.20 Initialization - PGM 450

Selecting Initialization will return the sub-menu in the left frame in as shown in the following figure.

	PGM Base Function Base	< Favorite PGM			*
	System ID & Numbering Plans				Edit
	System D & Numbering Plans Station Data	System Overview System ID & Numberin	System IP Plan(102) System ID & Numberin	Device IP Plan(103) System ID & Numberin	Common Attributes(1 Station Data
	Board Based Data	Flexible Buttons(115/	Common Attributes(1	CO/IP Ring Assignm	CID/CPN Attributes(151)
	CO Line Data	Station Data	CO Line Data	CO Line Data	CO Line Data
	System Data	System Attributes(16	System Password(162)	Station Group Assign	Station Group Attribu
	Station Group Data	System Data	System Data	Station Group Data	Station Group Data
	ISDN Line Data	Station Authorization	System Authorization	Flexible DID Conversi	
	SIP Data	Tables Data	Tables Data	Tables Data	
<	Tables Data				
	Networking Data				
	H.323 Routing Table				
	T-NET Data				
	Zone Data				
	Device Login				
	UCS Standard				
	DECT Data				
	Hotel Data				
	Green Mode				
	Initialization ~				
	Initialization(450)	-			

Figure 4.4.20-1 Initialization

4.4.20.1 Initialization Table - PGM 450

Selecting Initialization will display the Initialization Table data entry page. Use the check mark to indicate which attributes to modify; data for checked attributes is initialized by clicking **[Initialize]** button or reset system by clicking **[Reset system]** button.

	. e		avorite PGM	Initialization(450)	×		
System ID & Numbering Plans	1						Initial
Station Data							Reset Syste
Board Based Data	Orde	Select	Attribute	Value	Remark	Result	Change ACT/S
CO Line Data	1		All Database				
System Data	2	8	Flexible Number Plan		P/GM106-109		
System Data	3	0	Station Data		PGM111~114,115/129,116~127,Station Name Display,Station Speed Dial		
itation Group Data	4	6	CO Line Data)+[PGM140~147,150~153.133.Name		
SDN Line Data	5	6	System Data		PGM100, 105, 106, 238, 160~177, 179, 183, 197, 250, 251, 253, 255, 436-444, 491, Custom Msg, PPTP Attr		
	6	12	Station Group Data		PGM190~192		
IP Data	7	0	ISDN Table		PGM201-203,206,231		
bles Data	8	0	System Timer		PGM180~182,186		
etworking Data	9		Toll Table		PGM224		
and the second	10	0	LCR Data		PGM220-223		
323 Routing Table	11	63	Other Tables		PGM227~229.232~233.236.239.240		
NET Data	12	0	Flexible Button		PGM115,129		
	13	8	Networking Data		PGM320-325		
one Data	14	0	SIP Data		PGM126,133,210-212,215,216		
evice Login	15	8	T-NET Data		PGM330~336		
CS Data	16	8	Zone Data		PGM436~441,444		
	17	61	Remote Device Registration		PGM442		
ICT Data	18	.6	Station User Login]+[PGM443		
otel Data	19	0	Personal Group Data		PGM260,261		
	20	.8	UCS Standard Data		PGM445-449		
edundancy Data	21	0	Hotel Data		PGM300-308		
aitialization 👻	22	0	Remove default password(*)		PGM227(Authorization Code Only)		

Figure 4.4.20.1-1 Initialization Menu

The system has been pre-programmed with certain features using the default data. The default data are loaded into memory when the system is initialized. The system should always be initialized when first installed or the database appears corrupted.

In addition, the UCP system can be restarted from this page and, if redundant processors are equipped, the active and standby UCP modules can be modified.

The system can be initialized manually during installation.

Note

- 1) If you reset eMG system when Dip switch 2 is On, all database will be initialized including PGM 101-104.
- 2) If you reset UCP system when Dip switch 4 is On, all database will be initialized including PGM 101-104.

4.5 Maintenance

The Maintenance tab main screen displays information on the system software versions as well as information on modules and terminals connected to the system. From this page, the database upload/download, software upgrade, access control, license install and other management functions shown in Figure 4.5-1 ~ 4.5-3 are accessed. In addition, at the top of the central screen, detailed software version information is provided. Also, you can monitor the device in real time by clicking **[Real-time Device Monitoring]**.

As eMG/UCP software is being upgraded regularly, we cannot guarantee the software version displayed and it may be different from the current version.

Among Menus on Maintenance, the following functions are not available at UCP2400.

- 1. VSF Prompt message
- 2. VSF System greeting
- 3. Voice Mail USB Backup on VSF Mail Management

Real time monitoring for Device

You can monitor the current status about Device in real time. The new information is highlighted in red.

	iPECS iPECS eMG80	Administra	ation	Maintenance			•	Change Language Log Out
(PGM Search	< System Info	ormation	o				
	S/W Upgrade							Real-time Device Monitoring
	Database			Rls1512-2.0.8-App				
	Multi Language	Boot Version : 2 Kernel Version		9/15				
1	SMDR	H/W Issue : 0 System bootup	time : 15-	12-14 16:39:08				
	File System	Classification	Туре	Logical Num	IP Address	Version	Connection	State
	MOUNT	со	BRIB2	1 - 4	10.10.10.2	R2.0.8	Connected	[1:Idle][2:Idle][3:Idle][4:Idle]
	MOH Management License Management	STA	DSIB12	100[LDP 9030D] 101[-] 102[-] 103[-] 104[-] 105[-] 106[-] 107[-] 108 109 110 111	10.10.10.2	R2.0.8	Connected	[100:Use][101:N/A][102:N/A][103:N/A][104:N/A] [105:N/A][106:N/A][107:N/A][108:Idle][109:Idle] [110:Idle][111:Idle]
	DECT Statistics Feature	MISC	MISU	1-7	10.10.10.2	D2 0.9	Connected	
	VSF Prompt Message	WIGO	MISO	1-7	10.10.10.2	R2.0.8 (1:KR10Da)	Connected	
<	VSF System Greeting	VSF	VMIU	1 - 8	10 10 10 2	(2:GSA0Fa) (3:CS10Ba)	Connected	[1:Idle][2:Idle][3:Idle][4:Idle][5:Idle][6:Idle][7:N/A]
	Voice Mail Management					(4:GMA0Bb) (5:IT10Fa)		[8:N/A]
	Function Program					(6:TK10Ba)		
	User Management	MCIM	Virtual	1 - 32			Connected	[1:Idle][2:Idle][3:Idle][4:Idle][5:Idle][6:Idle][7:Idle] [8:Idle][9:Idle][10:Idle][11:Idle][12:Idle][13:Idle] [14:Idle][15:Idle][16:Idle][17:Idle][18:Idle][19:Idle]
	Trace	WCIW	MCIB	1 - 52			Connected	[20:1dle][21:1dle][22:1dle][23:1dle][24:1dle][25:1dle] [26:1dle][27:1dle][28:1dle][29:1dle][30:1dle][31:1dle]
	TDM Gain Control							[32:Idle]
	IP Gain Control							
	Tone/Ring Gain&Cadence Control							
	Appliances Control							

Figure 4.5-1 eMG80 Maintenance Main Page

	IPECS eMG800	Adminis	ration	Maintenance				Change Language Log Out							
0	C PGM Search	< System	Informatio	on o				×							
	S/W Upgrade							Real-time Device Monitoring							
	Database		Appl Version : S-eMG800-Ris1512-2.0.8-App Boot Version : 1.0Ca SEP/15												
	Multi Language	Kernel Version		2/15											
	SMDR	HW Issue : 0 System bootup time : 15-12-15 15:54:43													
	File System	Classification	n Type	Logical Num	IP Address	Version	Connection	State							
	MOH Management	CO	VOIU	1 - 8	10.10.10.2	R2.0.8	Connected	[1:Idle][2:Idle][3:Idle][4:Idle][5:Idle][6:Idle][7:Idle][8:Idle]							
	License Management	со	BRIM4 GW	9 - 16	10.10.10.10		Connected	[9:Idle][10:Idle][11:Idle][12:Idle][13:Idle][14:Idle][15:Idle][16:Idle]							
	DECT Statistics Feature	со	T1IM GW	17 - 40	10.10.10.11		Connected	[17:1dle][18:1dle][19:1dle][20:1dle][21:1dle][22:1dle][23:1dle][24:1dle][25:1dle] [26:1dle][27:1dle][28:1dle][29:1dle][30:1dle][31:1dle][32:1dle][33:1dle][34:1dle] [35:1dle][36:1dle][37:1dle][38:1dle][39:1dle][40:1dle]							
	VSF Prompt Message	со	VOIB24	41 - 64	10.10.10.12		Connected	[41:1dle][42:1dle][43:1dle][44:1dle][45:1dle][46:1dle][47:1dle][48:1dle][49:1dle] [50:1dle][51:1dle][52:1dle][53:1dle][54:1dle][55:1dle][56:1dle][57:1dle][58:1dle] [59:1dle][60:1dle][61:1dle][62:1dle][63:1dle][64:1dle]							
	Voice Mail Management	STA	DSIB12	1000[-] 1001[-] 1002[-] 1003[-] 1004[-] 1005[-] 1006 1007 1008 1009 1010 1011	10.10.10.2	R2.0.8	Connected	[1000:N/A][1001:N/A][1002:N/A][1003:N/A][1004:N/A][1005:N/A][1006:Idie] [1007:Idie][1008:Idie][1009:Idie][1010:Idie][1011:Idie]							
	Function Program	STA	LIP- 8040L	1012	10.10.10.13		Connected	[1012:N/A]							
	User Management	STA	LIP- 9040	1013	10.10.10.14		Connected	[1013:N/A]							
	Trace	MISC	MISU	1-7	10.10.10.2	R2.0.8	Connected								
	TDM Gain Control					R2.0.8 (1:NO-									
	IP Gain Control					PPT) (2:NO-									
	Tone/Ring Gain&Cadence Control					PPT) (3:NO-									
	Appliances Control	VSF	VMIU	1 - 4	10.10.10.2	PPT) (4:NO- PPT) (5:NO- PPT) (6:NO- PPT)	Connected	[1:1dle][2:1dle][3:1dle][4:1dle]							

Figure 4.5-2 eMG800 Maintenance Main Page

PGM Search	System Info	rmation					1 N							
S/W Upgrade							Real-time Device Monitoring							
Database	Appl Version : S			1-App										
Multi Language	Boot Version : 1 Kernel Version		/16											
SMDR	H/W Issue : 1 System bootup	H/W Issue : 1 System bootup time : 16-04-17 10:05:05												
File System	Classification	Туре	Logical Num	IP Address	Version	Connection	State							
MOH Management	СО	VOIU	1 - 6	10.10.10.2	T2.1.1	Connected	[1:Idle][2:Idle][3:Idle][4:Idle][5:Idle][6:Idle]							
License Management	STA	LIP- 8012E	1000	10.10.10.10	1.1Ea	Connected	[1000:Use]							
DECT Statistics Feature			1001 1002											
VSF Prompt Message	STA	SLTM8 GW	1005 1006 1007 1008 1009[-] 1010[-] 1011[-] 5 1012[-]	10 10 10 11	6.1Ee	Connected	[1001:Idle][1002:Idle][1003:Idle][1004:Idle][1005:Idle]							
VSF System Greeting	SIA			10.10.10.11		Connected	[1006:Idle][1007:Idle][1008:Idle]							
User Greeting														
Company Directory							[1009:N/A][1010:N/A][1011:N/A][1012:N/A][1013:N/A]							
Voice Mail Management	STA	DTIM8		10.10.10.12										
Function Program		GW	1013[-] 1014[-]				[1014:N/A][1015:N/A][1016:N/A]							
User Management			1015[-] 1016[-]											
Trace	MISC	MISU	1 - 10	10.10.10.2	T2.1.1	Connected								
TDM Gain Control					T2.1.1 (1:GSA0Fa) (2:NO-PPT)									
IP Gain Control	VSF	UVMU	1 - 8	10.10.10.2	(3:NO-PPT) (4:NO-PPT)	Connected	[1:Idle][2:Idle][3:Idle][4:Idle][5:Idle][6:Idle][7:Idle][8:Idle							
Tone/Ring Gain&Cadence Control					(5:NO-PPT) (6:NO-PPT)									
Appliances Control	MCIM	MCIU	1-6	10.10.10.2	T2.1.1	Connected	[1:Idle][2:Idle][3:Idle][4:Idle][5:Idle][6:Idle]							

Figure 4.5-3 UCP Maintenance Main Page

4.5.1 S/W Upgrade

iPECS system employs a NAND based memory file system thus, html, UCP/MPB upgrade and iPECS appliance image files can be uploaded without impact to the current database. All of iPECS series modules can be upgraded by remote access through the system. Selecting S/W Upgrade from the Maintenance page displays the Appliance Version page and sub-menus display in the left frame as shown in the following figure.

Q	PGM Search	< System Info	rmation					× (* * * * * * * * * * * * * * * * * * *
	S/W Upgrade							Real-time Device Monitoring
	Database	Appl Version : Boot Version :			1-App			
	Multi Language	Kernel Version H/W Issue : 1		/10				
	SMDR	System bootup	time : 16-	04-17 10:0	5:05			
	File System	Classification	Туре	Logical Num	IP Address	Version	Connection	State
	MOH Management	СО	VOIU	1 - 6	10.10.10.2	T2.1.1	Connected	[1:Idle][2:Idle][3:Idle][4:Idle][5:Idle][6:Idle]
	License Management	STA	LIP- 8012E	1000	10.10.10.10	1.1Ea	Connected	[1000:Use]
	DECT Statistics Feature			1001 1002				
	VSF Prompt Message	STA	SLTM8		10.10.10.11	6.1Ee	Connected	[1001:Idle][1002:Idle][1003:Idle][1004:Idle][1005:Idle]
	VSF System Greeting	STA	GW					[1006:Idle][1007:Idle][1008:Idle]
	User Greeting							
	Company Directory			1009[-] 1010[-] 1011[-] 1012[-] 1013[-] 1014[-]	10.10.10.12	F.1Bb	Connected	
	Voice Mail Management	STA	DTIM8					[1009:N/A][1010:N/A][1011:N/A][1012:N/A][1013:N/
	Function Program		GW					[1014:N/A][1015:N/A][1016:N/A]
	User Management			1015[-] 1016[-]				
	Trace	MISC	MISU	1 - 10	10.10.10.2	T2.1.1	Connected	
	TDM Gain Control					T2.1.1 (1:GSA0Fa) (2:NO-PPT)		
	IP Gain Control	VSF	UVMU	1 - 8	10.10.10.2	(3:NO-PPT) (4:NO-PPT)	Connected	[1:Idle][2:Idle][3:Idle][4:Idle][5:Idle][6:Idle][7:Idle][8:Idle]
	Tone/Ring Gain&Cadence Control					(5:NO-PPT) (6:NO-PPT)		
	Appliances Control	MCIM	MCIU	1 - 6	10.10.10.2	T2.1.1	Connected	[1:Idle][2:Idle][3:Idle][4:Idle][5:Idle][6:Idle]

Figure 4.5.1-1 S/W Upgrade

There are two types of upgrade images: application and kernel image. If both are required, upgrade the kernel first and then the application.

The VMIU is part of the MPB and VSF prompts are upgraded by uploading prompt files to the MPB. VMIB prompts are upgraded by direct upload of prompt files to the VMIB.

4.5.1.1 File Upload

From the File Upload page, click **[Select file]** button and then open the pop-up folder. Select the desired file to upload to the system's memory and click the **[Start]** button. The file is sent to the system's memory, saved and automatically loaded upon a system reset or restart.

Prior to upload, verify sufficient memory is available in eMG/UCP File System for the files to be uploaded. Refer to '*File System section*' to view the free disk space and delete any unused files. Note names of files required for normal system operation will be grey out and cannot be deleted.

Html image files are extracted and previous HTML files are deleted at completion of the upload process. New VSF prompt files are also available immediately upon successful uploaded.

		•	< System Information File Upload X	x >
	S/W Upgrade V		Select Upload File and Wait for Uploading to end!!	
	File Upload Upgrade Process		+ Select File	
	Database		S-UCP-RIs1604-2.1.1-App.rom 11.51 MB Reset Success - Clear	
	Multi Language			
	SMDR			
	File System			
	MOH Management			
	License Management			
<	DECT Statistics Feature			
	VSF Prompt Message			
	VSF System Greeting			
	User Greeting			
	Company Directory			
	Voice Mail Management			
	Function Program			
	User Management			
	Trace			
	TDM Gain Control			
	IP Gain Control			
	Tone/Ring Gain&Cadence Control	•		

Figure 4.5.1.1-1 File Upload

* If file upload succeeds, a success page will be displayed.

4.5.1.2 Upgrade Process

If the iPECS Appliance image is uploaded, the appliances of the type for which an image was uploaded will be displayed and can be selected to upgrade, as shown in the following figure Upgrade Process. Select the desired appliance and click **[Upgrade]** button, the upgrade process will start and a progress screen will be displayed.

S/W Upgrade 🗸	< System Inf	orm	Upgrade Pro	oc ×
File Upload Upgrade Process	Uploaded SW : UPS	070 Phone (Vers	on B 14d)	
Database	Check All Numb	er IP Address	Current Version	Status
Multi Language	B 123	10.123.187.1	E 14d	
SMDR				
File System				

Figure 4.5.1.2-1 Upgrade Process

4.5.1.2.1 Upgrade Process View

The Upgrade Process View provides a status window; refer to the following Upgrade Process View, for Module and terminal upgrade activity in process.

S/W Upgrade	~	< System	n Inform		Upgrade Proc	×	
File Upload Upgrade Process			a constant	221010373	C 2010		Upgra
Database				0 Phone (Versi			
Multi Language		Check All			Current Version	Status	
SMDR		0	123	10.123.187.11	B1Ad	37%	
File System							

Figure 4.5.1.2-1 Upgrade Process View

4.5.1.2.2 iPECS eMG/UCP Upgrade Process

iPECS Software Full Upgrade Sequence

The following shows the order in which the upgrade process proceeds and firmware files for iPECS and modules. Note the xxxx in the ROM file names indicates the version number of the file.

MPB/UCP Upgrade Process

1. Upload MPB/UCP application image.

iPECS UCP	UCP application image
	(Example, S-UCP-Rls1601-2.1.1-app.rom
iPECS eMG	eMG 80/800 MPB application image
	(Example,
	eMG80: S-eMG80MPB-RIs1512-2.1.1-App
	eMG800: S-eMG800MPB-RIs1512-2.1.1-App)

2. Restart MPB/UCP.

Note:

If the new system database is not compatible with existing system database, it will be necessary to initialize the system database. This can be done manually using the Initialize Dip Switch located on the UCP/MPB module or via the Initialization Web page.

Upgrade of the UCP/MPB includes HTML files; a separate upload of the HTML files is not required. HTML files can be separately upgraded under the File System

Appliances Upgrade Process

- LIP 8012/8024/8040E application image:
 GS98Pxxxx.rom (xxxx indicates the version)

 LIP 8002E application image:
 GS99Pxxxx.rom (xxxx indicates the version)
- 2. Select target appliances & Upgrade application image and click [Upgrade].
- 3. Wait until upgrade process completes.
- 4. Automatically restart when upgrade completes successfully.

Upgrade of Voice Prompt for eMG

- 1. Access to VSF Prompt Upgrade page.
- 2. Select First/Second/Third for multiple language voice prompt.
- With the proper prompt file.

 VSF prompt file:
 ??96Wxxxx.rom (?? Is nation, i.e. GS, DM, KR, etc. ; xxxx indicates the version)

Upgrade of Voice Prompt to VMIU for eMG

- 1. Access to MPB.
- 2. Select First/Second/Third for multiple language of voice prompt.
- 3. Upload the proper prompt file to VMIU.

VMIB prompt file: ??96Wxxxx.rom (?? Is nation, i.e. GS, DM, KR, etc. ; xxxx indicates the version)

4.5.1.3 Upgrade HTML Files

The "File View" Menu is used to upload file and reload the system's html files. Upload time of html will take $5 \sim 10$ minutes.

4.5.1.3.1 Appliances Upgrade (Device and iPECS Phone)

Upload appliance image, and click **[Upgrade process]** button to select upgrade appliances. If appliances are selected, click **[Upgrade]** button. The page shown in Figure 4.5.1.2-1 will be displayed indicating the Upload command has been sent and upgrade process is working. This page will display the Upload status. When the appliance upgrade process is successful, the status is updated to "Success". If the upgrade process fails, the process is attempted an additional three (3) times before abandoned.

4.5.1.3.2 Direct Appliances Upgrade

Should the above managed upgrade process fail, appliances (Devices and iPECS Phones) can be upgraded directly using the appliance IP address as the upgrade destination address. Note the later may require local access.

	ownload
V Mar	wmload ning The download process will reset the unit into the download mode. This will terminute all retwork connections and reset your browser connections.
24 111	P Download method (Select remote TFTP' sener IP address and Nenione) TFTP Sener IP Filename Start TFTP Download
нт	P Download method (Select Riename on local browser machine) Fitename. Start HTTP Download

Figure 4.5.1.3.2-1 iPECS Phone Direct Connect Upgrade

4.5.1.4 WTIB Base upgrade Process for eMG800

Upgrade WTIB base image of eMG800.

- 1. Upload WTIB base image to MPB.
- 2. Select target base & Upgrade.
- 3. Wait until upgrade process completes.
- 4. Automatically restart when upgrade completes successfully.

PECS eMG800			Administration	Maintenance		• • •	Change Language	Log Ou
S/W Upgrade	~	<	System Inform	WTIB Base Up	×O			
File Upload								
Upgrade Process								Upgrad
WTIB Base Upgrade Process		U	Jploaded S/W Version :					
Database			Check All WTIB# WT	IB Type WTIB Versio	n Base 1 Base 2 Base 3	Base 4 Base 5 Base	e 6 Base 7 Base 8	
Multi Language								
SMDR								
File System								

Figure 4.5.1.4 WTIB Base Upgrade Process

4.5.2 Database

4.5.2.1 Database Upload

The Database Upload selection will display the Database Upload page as shown in figure. Select **[Select Files]** then select the database file desired from the local PC and click **[Start]** to upload the database to the system.

Q Maint Search	< System Inform Database Upload X	×
S/W Upgrade	Select Database File and Wait for Uploading to end!!	
Database v		
Database Upload Database Management	+ Select File	_
Multi Language	DB_ALLeMG80_T1.2.4_130830_143826.admgzu 156.29 KB OStart O Cance	-
SMDR		
File System		
MOH Management		

Figure 4.5.2.1-1 Database Upload

4.5.2.2 Database management

Selecting Database Management will display the Database Download page. Select the structure to determine the portion or structure of the download. Click **[Download]** then select the directory and file name in the pop-ups that follow to save the file to the PC. After building a database file, the download function will be available. A maximum of five downloadable files for various types of data and structure can be built; building additional files deletes the oldest.

Maint Search	0	< System In	formation	Database Management C				
S/W Upgrade								Delet
Database	~	Select structure	to build :	All Database • Bu	ild			
Database Upload	_	The database fil	es can be	saved up to 5. If you build a DB file	when a system	n has already 5 DB files, the oldest file will be deleted.		
Database Management		Check All	location	File Name	File Size	Add/Modify comment to file name(Max. 30 Characters)		
Multi Language				DB_ALLUCP100_140101.admgzu	730792 Bytes	Save	Apply	Downlo
SMDR				DB_ALLUCP100_050527.admgzu	699115 Bytes	Save	Apply	Downlo
File System								
MOH Management								

Figure 4.5.2.2-1 Database Download

You can add or modify the file name by entering the characters including special character (#, \$, %, &, ', (), -, ., @, _). The comment will be created as [XXXXX] before '.admgzu'. It is useful to search DB after downloading.

Clicking on **[Download]** button will present the File Download window. Files should be saved to disk. Note that this screen will appear for all download processes.

A user can apply DB file from USB memory. The DB file name is composed of system type, DB type, date & time and version information.

4.5.3 Multi Language

The system can employ either English or a "Local Language" for the Web page displays. The multi-language file, which is a csv (comma separated variable) formatted file, is downloaded to a PC and the English terms are translated to the local language. The modified file can then be uploaded to iPECS system. Once uploaded, the user can select the "Change Language" button and select either English or the Local Language translation for Web page displays.

4.5.3.1 Multi Language File Upload

The Multi Language File Upload selection returns the Multi Language File Upload page as shown in figure. By selecting the Multi Language File desired from the local PC, the desired Multi Language File can be uploaded to iPECS system.

S/W Upgrade	< System Inform X
Database	Select Multi Language File and Wait for Uploading to end!!
Multi Language 🗸 🗸	
Multi Language File Upload	+ Select File
Multi Language File Download	common Lan 7 csv 10.43 MB
SMDR	
File System	

Figure 4.5.3.1-1 Multi Language File Upload

4.5.3.2 Multi Language File Download

Selecting Multi Language File Download will display the Multi Language File Download page figure. Selecting this option will download the entire iPECS system Multi Language File to the local PC. This also allows the Multi Language File in the PC to be uploaded to iPECS system using the file upload procedures in S/W Upgrade section.

			×		×
S/W Upgrade	< System Infor	Multi Langua	0		V
Database					Delete
Multi Language 🗸 🗸	Press [Download] t	outton for download / Che	eck messages and	press [Delete] button	
Multi Language File Upload	Check All	File Name			
Multi Language File Download		common.lang.csv	Download		
SMDR					
File System					

Figure 4.5.3.2-1 Multi Language File Download

The iPECS system can download SMDR data in a SYLK format file (.slk). The file is compressed using the "gz" file format. After unzipping, the file can be opened under any common spreadsheet application. The system will provide a view of SMDR data for the station range entered in the Web page Figure. This page may also be employed to delete SMDR records for the station range entered.

S/W Upgrade		< System Infor SMDR ×
Database		SMDR All Data Download
Multi Language		Station Range View Delete
SMDR	~	SMDR Interface Data Download
SMDR		SMDR Interface Data View View
File System		SMDR Interface Data Delete Delete

Figure 4.5.4-1 SMDR Access

4.5.5 File System

4.5.5.1 File View & Delete

The File View & Delete page displays a list of the various files stored in the file system memory. To delete a file, check the box for the file and click **[Delete]**. Files can also be downloaded to the PC using the **[Download]** button to the right of the file name.

Note the system requires the files displayed in grey and the system will not allow deletion of these files.

Q PGM Search	< System Info	ormation File View & Dele	ete X	
S/W Upgrade				
Database	Check All	File Name	File Size	
Multi Language		Upload Directory I	ist	
01100		GS95O60Ff_2.rom	3378792 Bytes	Download
SMDR		1.wav	16702 Bytes	Download
File System V		10.wav	20700 Bytes	Download
		HTTP Directory li	st	
File View & Delete		S-UCP-RIs1604-2.1.1-Htm.rom	5324722 Bytes	Download
File System Information		_main_app2.rom	35649169 Bytes	Download

Figure 4.5.5.1-1 File View and Delete

4.5.5.2 File System Information

The File System Information page displays the disk status including the total and free disk space as shown in figure. Use this page to determine if the free space on the disk is sufficient for uploading Upgrade files, section 4.5.1.

S/W Upgrade	<	System Infor	File System I Z
Database		Attribute	Value
Multi Language		Total Disk Space	245760 KBytes
SMDR		Free Disk Space	164320 KBytes
File System V			
File View & Delete			
File System Information			

Figure 4.5.5.2-1 File System Information

4.5.6 MOH (Music On-Hold) Management

4.5.6.1 MOH Delete & Download

The MOH Delete & Download page displays a list of the thirteen files stored in the file system memory. To delete a file, check the box for the file and click **[Delete]**. Files can also be downloaded to the PC using the **[Download]** button to the right of the file name.

Maint Search	< System Infor	r MOI	H Delete/D	×	
V Upgrade					
abase	Check All	File Name	File Size		
ti Language		1.moh	226.5K	Download	
DR		2.moh	180.6K	Download	
System		3.moh	172.4K	Download	
Management v		4.moh	281.4K	Download	
		5.moh	265.9K	Download	
OH Delete/Download		6.moh	234.9K	Download	
OH Upload		7.moh	172.2K	Download	
ense Management		8.moh	289.4K	Download	
		9.moh	172.4K	Download	
CT Statistics Feature		10.moh	281.0K	Download	
F Prompt Message		11.moh	124.3K	Download	
F System Greeting		12.moh	250.4K	Download	
ce Mail Management		13.moh	250.4K	Download	

Figure 4.5.6.1-1 MOH Delete & Download

4.5.6.2 MOH Upload

Selecting "MOH Upload" will display the page shown in figure. Here MOH can be uploaded to the system for each of up to thirteen (13) MOH. MOH files format must be followed as shown in the page 'G.711 a/u-Law wav (8000Hz, 16bit, mono)'.

Q PGM Search	< System Information MOH Upload ×
S/W Upgrade	Select Location and then Wav File (Wait for Uploading to End)
Database	File Format: G.711 a/u-law wav (8000Hz, 8bit, mono)
Multi Language	First Select File
SMDR	
File System	
MOH Management ~	
MOH Delete/Download	
MOH Upload	

Figure 4.5.6.2-1 MOH Upload

4.5.7 License Install

Various licenses can be installed to expand capacity of the system and Auto Attendant/Voice Mail services available in the system as well as soft clients and feature applications. After obtaining a license, the code is entered in the Value column as shown in Figure 4.5.7-1.

PGM Base Function Base	< Favorite PGM System Overview C			
PGM Search	Syste	m License Ove	erview	
	,	o. : 000E56F40		
ystem ID & Numbering Plans 🛛 🗸 🗸 🗸 🗸 🗸 🗸	License	Status	Currently used	Purchased
System ID(100)	Software Permissions	Activated	-	Not activated
System Overview	Total System Port Expansion	199 copy(s)	50 (STN 1 + CO 49)	50 copy(s)
evice Port Num Change(101)	Total IP Extension	199 copy(s)	1 (LIP 1 + SIP1st 0)	30 copy(s)
J ()	Third Party SIP Extension	199 copy(s)	0	0 copy(s)
stem IP Plan(102)	VOIP Virtual Switching Channel(8ch/copy)	2 copy(s)	0 ch	0 copy(s)
evice IP Plan(103)	VMU Recording Time Add 10-Hour	Not activated		Not activated
O Device Sequence Number(104)	Mobile Extension	199 copy(s)	0	30 copy(s)
exible Station Number(105)	IP Networking or QSIG	Activated		Not activated
exible Numbering Plan(106~109)	Transparent Network(T-NET) or Local Survivability	Activated		Not activated
Digit Extension Table(238)	Hotel Feature	Activated		Not activated
in Data	FIDELIO Interface	Activated		Not activated
ation Data	Third Party TAPI Interface	Activated	Disconnected	Not activated
ard Based Data	Third Party SIP Application Server Interface	10 copy(s)	0	0 copy(s)
	Third Party SIP Application Channel Interface	199 copy(s)	0	0 copy(s)
Line Data	MS LYNC EV Channel	199 copy(s)	0	0 copy(s)
em Data	MS LYNC RCC Gateway	Activated		Not activated
ani Data	MS LYNC RCC Client(2010)	199 copy(s)	RCC(max:398, set:0, using:0)	0 copy(s)
ion Group Data	MS LYNC RCC Client(2013)	199 copy(s)	RCC(max:398, set:0, using:0)	0 copy(s)
	MS LYNC RCC or Voice Client(2010)	199 copy(s)	Voice(0)	0 copy(s)
N Line Data	MS LYNC RCC or Voice Client(2013)	199 copy(s)	Voice(0)	0 copy(s)
2 Data	ClickCall Application	199 copy(s)	(set:0, using:0)	2 copy(s)
Juna	UCS Client Desk Standard with Non Voice	100 copy(s)	0	0 copy(s)
es Data	UCS Client Desk Standard with Voice	100 copy(s)	0	2 copy(s)
	UCS Client Desk Premium with Non Voice	199 copy(s)	0	0 copy(s)
orking Data	UCS Client Desk Premium with Voice	199 copy(s)	0	0 copy(s)
Routing Table	UCS Client Mobile	199 copy(s)	0	2 copy(s)
o reading fabro	IP Attendant for Office	50 copy(s)	0	0 copy(s)
IET Data	IP Attendant for Hotel	50 copy(s)	0	0 copy(s)
-	IP Call Recording Server	10 copy(s)	0	0 copy(s)
ne Data	IP Call Recording Agent	199 copy(s)	0	0 copy(s)
· · ·	IP Call Recording Trunk	199 copy(s)	0	0 copy(s)

Figure 4.5.7-1 License Install

4.5.7.1 License upload

Before License upload, make sure that the date of system is set correctly. Click the Select files button and then open the pop-up folder. Select a valid license file to upload to the system and click the **[Start]** button. If the file which is sent to the system is "System License File", it will be saved and automatically applied without restart. The enabled features by uploading license file can be shown in "System Overview" page.

Q Maint Search	< System Information License Upload X C	×
S/W Upgrade	Select a License File and Wait for Uploading to end!!	
Database	Some boards may be restarted after uploading license file.	
Multi Language	+ Select File	
SMDR		
File System	XXX_2015101400000_UCP.dat 11.05 MB ③ Start Ø Cancel	
MOH Management		
License Management ~		
License Upload		
Gateway License		
Temp License Activation		

Figure 4.5.7.1-1 License Upload

You can check license upload detailed log by clicking "Log View" button.

4.5.7.2 Gateway License for UCP

All gateways which can have gateway license type are displayed in this web page. If a valid gateway license file was uploaded by "License Upload" and a gateway with matched serial number is registered in system, **[Apply]** button will be activated. This button is used to send the license file to the gateway. After the license file is sent, it will be deleted and the gateway will be restarted to apply features of the license file.

1) The following figure is before uploading the license.

S/W Upgrade	<	System I	nforma	Gateway L	icense X			
Database		Туре	IP Address	MAC Address	Serial Number	Status	Result	
Multi Language		UVM GW	10.10.10.12	ffff0002ffff		0 ch / 0 hou	r	Apply
SMDR								
File System								
License Management v								
License Upload								
Gateway License								
Temp License Activation								

2) After re fresh, the following figure is displayed and click the apply button to activate.

	S/W Upgrade	^ 	System In	formation	Gateway Lice	ense X O License	e Upload 🗙	
	Database	Ŀ	Туре	IP Address	MAC Address	Serial Number	Status	Result
	Multi Language	Ŀ	UVM GW	10.10.168.10	b40edc281bda	000F1A1411000036	8 ch / 50 hour	Apply
	SMDR	Ŀ						
	File System	Ŀ						
	License Management ~	Ŀ						
	License Upload	Ŀ						
	Gateway License							
<	Temp License Activation	E						

3) The final step is to reset the gateway license and then refresh. You can see the following figure for Gateway license.

S/W Upgrade	<	System In	formation	Gateway Lice	ense X License	e Upload ×		
Database		Туре	IP Address	MAC Address	Serial Number	Status	Result	
Multi Language		UVM GW	10.10.168.10	b40edc281bda	000F1A1411000036	16 ch / 200 hour	r	Apply
SMDR	Ĵ.							
File System								
License Management v								
License Upload								
Gateway License								
< Temp License Activation	E							

4.5.7.3 Temp License Activation

Before Temp License Activation, make sure that the date of system is set correctly. In this page, Temp License can be activated by clicking **[Activation]** button. Remaining days and activation times are displayed in State column. The Temp License can be activated totally 6 times. It is valid for 60 days at first activation and is valid 30 days from second activation. Therefore the license file which has correct port number and features must be uploaded. Otherwise, system may enter "Limited Service Mode" due to the mismatched license.

S/W Upgrade	<	System Inform	a	Temp License	×	
Database			К	ey:000E56F40D	137213	
Multi Language		Index			State	
SMDR		Temp License	Activation	Deactivation	50 days left, Possible times[1/6]	
File System						
License Management	~					
License Upload						
Gateway License						
Temp License Activation						

Figure 4.5.7.3-1 Temp License Activation

Notification

- 1) Please back up your DB before you activate a temporary license.
- 2) Must verify the present license before the temporary license expires.
- 3) If a temp license expires, upload a new license file or use within the scope of current license file. Otherwise, the system may go to [Limited Service Mode].

4.5.8 DECT Statistics Feature

Selecting DECT Statistics Feature displays the page shown in figure. Select the desired radial button and, where needed, enter the WTIM/WTIB sequence number then click **[Send]** to view the statistics.

S/W Upgrade					
Database		Attribute	WTIB NO	Description	
Multi Lanauran		drop	in ib no	Statistics data on MPB	
Multi Language	0 0	dclear		Clear statistics data on MPB	
SMDR	0 1	upload		Upload data	
File System	0 (Call		Total number of call & direction of the call	
	0 5	subs		Information per subscripted device	
MOH Management	0	eoc		End of call	
License Management	0 0	ell		Usage of freq and slot	
DECT Statistics Feature V	0 t	raf		Show holding time	
DECT Statistics Feature V	0 a	acce		Access info.(basic/handover)	
DECT Statistics	0 0	lea		Clear statistics data	
VOE Brown Marcana	0 1	inestart		start line test between WTIB and BASE	
VSF Prompt Message	0 1	inestop		stop line test between WTIB and BASE	
VSF System Greeting	0 5	stateupload		Upload WTIB's state	
Voice Mail Management	0 5	stateview		View WTIB's state	
-	0 5	stateclear		Clear WTIB's state	
Function Program					
User Management					
Trace					
TDM Gain Control					
IP Gain Control					
Tone/Ring Gain&Cadence Control					
Appliances Control					

Figure 4.5.8-1 DECT Statistics Feature

4.5.9 VSF Prompt Upload

iPECS sytem delivers system prompts in up to six (6) languages. The prompts for each language are stored in a separate file. Files for each of the languages supported are available from the local Ericsson-LG Enterprise representative. The entire prompt file or individual prompts may be uploaded to the system. Once uploaded to the system the file is employed to play prompts to iPECS eMG/UCP user.

UCP2400 doesn't support VSF prompt message.

VSF prompt sub-menu is a little different among eMG80, eMG800, and UCP.

- > Prompt selection: eMG800 and UCP are available.
- > Prompt Upload /Delete: Available.
- > Individual upload: Available.

4.5.9.1 Prompt selection

Selecting Prompt Selection displays the page shown in figure. The System Voice Prompt language files are stored in the VSF memory and are enabled with the Prompt Selection page. A reference "Position" is assigned a language selected from the drop-down menu. Once the language for each position is selected, saving the page enables all the languages selected.

Q PGM Search	0	< System Info	rmation Prompt Selection	× O
S/W Upgrade				
Database		Select Languaç	ge of each position and press [SA	VE] button
Multi Language		Position	Language	
main zangoogo	_	First	English(North America) 🔻	
SMDR		Second	Unknown 🔻	
File System		Third	Unknown •	
File System	_	Fourth	Unknown •	
MOH Management		Fifth	Unknown 🔻	
		Sixth	Unknown 🔻	
License Management	_			
DECT Statistics Feature				
VSF Prompt Message	~			
Prompt Selection				
Prompt Upload / Delete				
Individual Upload				

Figure 4.5.9.1-1 Prompt Selection for eMG800 & UCP

4.5.9.2 Prompt Upload/Delete

Selecting Prompt Upload/Delete displays the page shown in Figure 4.5.9.2-1 & Figure 4.5.9.2-2. From this page, the entire prompt file for selected languages can be deleted and updated prompt files uploaded to the system. The Select file button is used to upload files. The check box and Delete button are used to delete old or unused language files.

Maint Search	System Infor	Prompt Uplo	. ×		
S/W Upgrade	[Prompt Upload]				
Database	Select Voice Prompt	Select Voice Prompt File and Wait for Uploading to End			
Multi Language	Don't Use Space Cha	aracter in File Name	!!		
SMDR	+ Select File				
File System					
MOH Management					
License Management	[Prompt Delete]				
DECT Statistics Feature	Select Voice Prompt				
	Select All	Position	Version		
/SF Prompt Message	×	First	KR10Da		
Prompt Upload / Delete		Second	GSA0Fa		
Individual Upload		Third	CS10Ba		
marriadar oproad		Fourth	GMA0Bb		
VSF System Greeting		Fifth	IT10Fa		
-		Sixth	TK10Ba		
Voice Mail Management		Delete			
Function Program					

Figure 4.5.9.2-1 Prompt Upload & Delete for eMG80

S/W Upgrade [Prompt Up Database Select Voic	load] e Prompt File and Space Character in	Prompt Upload / Del X	1
Database Select Voic Don't Use S Multi Language + Select	e Prompt File and		i
Multi Language		n File Name !!	
SMDR + Selec	t File		
File System			
MOH Management			
License Management [Prompt De	lete]		
DECT Statistics Feature Select Voic	e Prompt To Delet	le	
VSF Prompt Message ~ Sele	ect All	Language	Version
	Eng	glish(North America)	
Prompt Selection	Rus	ssian(Russia,CIS)	
Prompt Upload / Delete		brew(Israel)	
Individual Upload		eek(Greece)	
		nch(France)	
VSF System Greeting		anish(Spain)	
		ian(Italy)	
Voice Mail Management		nish(Denmark)	
		edish(Sweden)	
Function Program		rwegian(Norway)	
User Management		lish(Poland)	
		rman(Germany)	
Trace		glish(Australia)	
		rean(Korea)	
TDM Gain Control		inese(China(P.R.C))	
IP Gain Control		kish(Turkey)	
		banese(Japan)	
Tone/Ring Gain&Cadence Control	Tha	ai(Thailand)	
		Delete	

Figure 4.5.9.2-2 Prompt Upload & Delete for eMG800 & UCP

4.5.9.3 Individual Upload

Selecting "Individual Upload" will display the page shown in figure. Here individual system prompts can be uploaded to the system for each of up to six (6) languages. Prompt files must be appropriately named and must be in a G.711 a/u-Law format.

Q Maint Search	< System Information Individual Upload C
S/W Upgrade	Select Prompt Message File and Wait for Uploading to End
Database	Valid File Name : 1.wav~999.wav
Multi Language	File Format: G.711 a/u-law wav (8000Hz, 16bit, mono) Don't Use Space Character in File Name !!
SMDR	English(North America)
File System	+ Select File
MOH Management	
License Management	
DECT Statistics Feature	
VSF Prompt Message ~	
Prompt Selection Prompt Upload / Delete Individual Upload	

Figure 4.5.9.3-1 Individual Upload

4.5.10 VSF System Greeting

The System Greetings (Announcements) can be downloaded from the system or Uploaded to the system. Individual announcements can be recorded externally and then uploaded to the system. Like prompts, the individual announcement files must be in a .wav format using the g.711 codec. Individual greetings for each Language position can be uploaded as well as downloaded. Clicking on the message will download the message to the browser, which will play the message. To save the message, right click and select save as. Locate a directory and change the file name, if desired and click save.

All announcements can be downloaded from the system as a back-up file and uploaded to the VSF memory as required.

UCP2400 doesn't support VSF system greeting.

4.5.10.1 Individual Upload

Selecting Individual Upload displays the page shown in Figure 4.5.10.1-1. From this page, individual pre-recorded announcements for each language position can be uploaded from the PC to the VSF gateway. Select the language position and assure the file name matches the appropriate System Announcement number. The file format must be shown on the page.

Q Maint Search	< System Infor X	×
S/W Upgrade	Select System Greeting Message and Wait for Uploading to End	
Database	Valid File Name : 1.wav~202.wav or x_1.wav~x_202.wav (x: 1~6)	
Multi Language	File Format: G.711 a/u-law wav (8000Hz, 16bit, mono) Don't Use Space Character in File Name !!	
SMDR	First V	
File System	+ Select File	
MOH Management		
License Management		
DECT Statistics Feature		
VSF Prompt Message		
< VSF System Greeting ~		
Individual Upload		
Individual Download		
SysGreeting Upload		
SysGreeting Download		

Figure 4.5.10.1-1 Individual Upload

4.5.10.2 Individual download

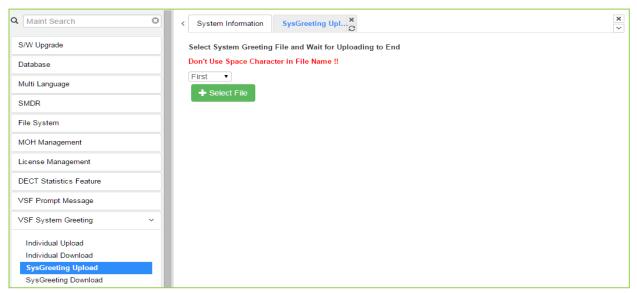
Selecting Individual Download displays the page shown in figure. The page will display a list of System announcement in the VSF memory. Individual files may be downloaded with the Download button next to the announcement file name or using the checkbox and the delete button the announcement can be deleted from the VSF memory.

Q PGM Search	< System Informa	tion Individual Do	wn <mark>x</mark>		\mathbf{x}
S/W Upgrade					Delete
Database	Press [Download]	button for download / Ch	eck messages and pre	ess [Delete] button	
Multi Language	Check All				
		Type #1			
SMDR		1.wav	Download		
File System		2.wav	Download		
MOH Management		3.wav	Download		
		4.wav	Download		
License Management		Type #6			
DECT Statistics Feature		1.wav	Download		
VSF Prompt Message		2.wav	Download		
voi i ionpi message		3.wav	Download		
VSF System Greeting ~		4.wav	Download		
Individual Upload					
Individual Download					
SysGreeting Upload					
SysGreeting Download					

Figure 4.5.10.2-1 Individual Download

4.5.10.3 System greeting Upload

Selecting System Greeting Upload displays the page shown in figure. From this page, announcements for each language "Position" can be uploaded to the VSF memory. First, select the language position then click the Select Files button to select the file to upload from the PC.





4.5.10.4 System greeting Download

Selecting System Greeting Download displays the page shown in figure. From this page, announcements for each language "Position" can be downloaded from the VSF memory as a back-up file. First, select the language position, click the Download button then follow the normal save file process to store the file to the PC.

Q Maint Search	 System Infor SysGreeting X Y
S/W Upgrade	Select Type of SystemGreetings to Download
Database	First Type of S/G ▼
Multi Language	Don't Use Space Character in File Name !!
SMDR	Download
File System	
MOH Management	
License Management	
DECT Statistics Feature	
VSF Prompt Message	
< VSF System Greeting ~	
Individual Upload	
Individual Download	
SysGreeting Upload	
SysGreeting Download	

Figure 4.5.10.4-1 System Greeting Download

4.5.11 User Greeting

Administrators can upload or download User greeting to System. So User greetings are available to use at iPECS phones.

4.5.11.1 User Greeting Upload

To upload the User Greeting, complete the following steps:

- > Click [Select File] button.
- > Select the User greeting file (rom file) from folder.
- > Click [Start] to upload and then display the following figure 'success'.

Q PGM Search O	< System Information User Greeting Uplo×
S/W Upgrade	Upload User Greetings and Wait for Uploading to End.
Database	[The same UG.rom file must be shared in all voice mail boards of a system]
Multi Language	File Format : UG.rom file
SMDR	
File System	+ Select File
MOH Management	UG rom 17.18 KB O Start O Cancel
License Management	UG.rom 17.18 KB OCancel
DECT Statistics Feature	
VSF Prompt Message	
VSF System Greeting	
User Greeting ~	
User Greeting Upload User Greeting Download	

Figure 4.5.11.1-1 User Greeting Upload

4.5.11.2 User Greeting Download

To download the User Greeting from System, complete the following steps:

- > Click [Download] button.
- The tab will be displayed at the left bottom of page. Click the arrow box and select [Open] to show.

Q PGM Search O	K System Inform User Greeting X	× ~
S/W Upgrade	Download all User Greetings.	
Database	There are no User Greeting files to download	
Multi Language	Download	
SMDR		
File System		
MOH Management		
License Management		
DECT Statistics Feature		
VSF Prompt Message		
VSF System Greeting		
User Greeting ~		
User Greeting Upload		
User Greeting Download		

Figure 4.5.11.2-1 User Greeting Download

4.5.12 Company Directory

Administrators can upload or download company directories to System. So company directories are available to use at iPECS phones.

4.5.12.1 CDN Upload

To upload the Company Directory, complete the following steps:

- > Click [Select File] button.
- > Select the Company Directory file (rom file) from folder.
- > Click [Start] to upload and then display the following figure 'success'.

Q PGM Search O	< System Inform CDN Upload ×
S/W Upgrade	Upload Company Directory and Wait for Uploading to End.
Database	[The same CDN.rom file must be shared in all voice mail boards of a system]
Multi Language	File Format : CDN.rom file
SMDR	
File System	
MOH Management	CDN.rom 17.18 KB
License Management	
DECT Statistics Feature	
VSF Prompt Message	
VSF System Greeting	
User Greeting	
Company Directory V	
CDN Upload	
CDN Download	

Figure 4.5.12.1-1 CDN Upload

4.5.12.2 CDN Download

To download the Company Directory from System, complete the following steps:

- > Click [Download] button.
- The tab will be displayed at the left bottom of page. Click the arrow box and select [Open] to show.

Q PGM Search	< System Inform	CDN Download X	×
S/W Upgrade	Download all Compa	any Directory.	
Database	There are no CDN fil	es to download	
Multi Language	Download		
SMDR			
File System			
MOH Management			
License Management			
DECT Statistics Feature			
VSF Prompt Message			
VSF System Greeting			
User Greeting			
Company Directory ~			
CDN Upload			
CDN Download			

Figure 4.5.12.2-1 CDN Download

4.5.13 Voice Mail Management

The Voice Mail Management permits the administrator to view the status of the built-in Voice Mail boxes and delete the all messages, delete messages for specific stations, or back-up all the messages to the PC.

4.5.13.1 Voice Mail Delete

Selecting Voice Mail Delete displays the page as shown in figure. From this page, messages stored in the VMIU (VMIB) can be deleted for all stations or a station range. In addition, using the "Display Station Voice Mail Status" button, the number of messages for each station is displayed.

Q PGM Search O	< Syste	em Information	Voice Mail Delete	×			
S/W Upgrade							Display Station Voic
Database		wing cases will not dele					
Multi Language		ail Device is not connect ail Device is not idle stat					
SMDR			Voice Ma				
	Delete b	y Station Number		🗆 Inc	cluding user greeting	Delete	
File System	Delete A	Il Voice Mail (Including	user greeting)			Delete	
MOH Management	Result						
License Management	Туре	Sequence Number	Free Memory	Total Memory			
DECT Statistics Feature	UVMU	3001	438 MB	440 MB			
VSF Prompt Message							
VSF System Greeting							
User Greeting							
Company Directory							
Voice Mail Management V							
Voice Mail Delete							
Voice Mail USB Backup							

Figure 4.5.13.1-1 Voice Mail Delete

A user can delete user greeting if you set "Including user greeting" option when a user delete voice mail.

4.5.13.2 Voice Mail USB Backup

Selecting Voice Mail Backup displays the page shown in figure.

In case of eMG, this page permits the Administrator to send all Voice messages in the VMIU/VMIB memory to the USB port of the KSU. Note the VSF must be idle and a USB memory device installed in the system.

The eMG800 has only [Backup Voice Mail to USB (VMIU)].

In case of UCP, this page permits the Administrator to send all Voice messages in the VSF gateway memory to the USB port of the UCP module. Note the VSF gateway must be idle and a USB memory device installed in the UCP module.

UCP2400 doesn't support Voice mail USB Backup.

	Q Maint Search	< System Infor Voice Mail U X
	S/W Upgrade	Backup Voice Mail to USB (VMIU)
	Database	The voice mail will not be stored to USB memory in the following cases.
	Multi Language	- VSF is not idle state.
	SMDR	Status : Number of files : VMIU(0), VMIB(0)
	File System	Total File Size :
	MOH Management	Progress :
	License Management	
	DECT Statistics Feature	
	VSF Prompt Message	
<	VSF System Greeting	
	Voice Mail Management V	
	Voice Mail Delete	
	Voice Mail USB Backup	
٩	PGM Search O	System Information Voice Mail USB X
	S/W Upgrade	Backup Voice Mail to USB
	Database	The voice mail will not be stored to USB memory in the following cases. - VSF is not idle state.
	Multi Language	
	SMDR	Status : Number of files : 0
	File System	Total File Size :
	MOH Management	Progress :
	License Management	
	DECT Statistics Feature	
•	VSF Prompt Message	
,	VSF System Greeting	
	User Greeting	
-	Company Directory	
	Voice Mail Management V	
	-	
	Voice Mail Delete	

Figure 4.5.13.2-1 Voice Mail USB Backup

To back up Voice Mail, click the backup Voice Mail to USB button. User can find all information about the status, Number of files, Total file size, and the percentage of Progress by text.

4.5.14 Function program

The Function Program allows the administrator to build a set of programs with attributes in a structure customized to the administrator. The Function programs can then be accessed under the Administration pages using the "Function Base" button at the top of the left navigation page. Single level and multi-level programs can be structured. The User Function Management permits functions to be deleted or, with the "Add Function" button, new program functions can be added.

4.5.14.1 User Function Management Page

Selecting User Function Management displays the page shown in figure. Using the check box and Delete button Function programs previously saved can be deleted.

Q P	GM Search	0	<	System Infor	User Functio	×Q	×
S/W	Upgrade						Add Function
Data	base						Delete
Multi	i Language			Check All	Function ELG feature	n Name	
SME	DR				ELG leature		
File	System						
MOH	H Management						
Licer	nse Management						
DEC	T Statistics Feature						
VSF	Prompt Message						
< VSF	System Greeting						
Voic	e Mail Management						
Fund	ction Program	~					
Use	er Function Management						

Figure 4.5.14.1-1 User Function Management Page

Adding Function

This step is divided into 5 steps and you can make the desired function each step. The following is the guide to make Name and add the function on each step:

- 1) To enter the function name, English, Numbering, Underscore (_) and Parentheses are available. Function name has to be filled out.
- 2) To enter the step name, English, Numbering, and Special letters except Double quotation marks are available.
- 3) The step name doesn't need to be filled out, but the function has to be configured each step.
- 4) To cancel or close this tab, click the close button (X) and pop up the blow;

Notification		
All Tabs will be c	losed. Are you OK?	
Close all	without current tab	Cancel

- 1. Click the Add Function button.
- 2. On the below window, click the desired PGM in the left frame. First fill out the function name and step name. To configure the step 1, click the Make table to check the desired function and then click the Save button.
 - ✓ Check All: check all functions
 - ✓ Save: Save the checked functions
 - ✓ Initialize: Initialize the checked functions

PGM Search	O K System Information User Function Manag X Add Function X O
System ID & Numbering Plans	Check All Save – Function Name: 2 Save Function
Station Data	V Initialize
Station Type(110)	Make Table Step 1 Step 2 Step 3 Step 4 Step 5
Common Attributes(111)	Keyset Admin Access CO PGM
Terminal Attributes(112)	Automatic Hold
	Individual CO Access
CLI Attributes(113)	CO/IP Line Queuing
Flexible Buttons(115/129)	Ringing Line Preference
Station COS(116)	Speed Dial Access
CO/IP Group Access(117)	Alarm / Door Bell
Internal Page Zone Overview	Station Account
Internal Page Zone(118)	Forced SMDR Account Code
PTT Group Access(119)	Loop LCR Account
	Door Open
Preset Call Forward(120)	Flex Button PGM
Idle Line Selection(121)	Prefer CO or Group
Station IP Attributes(122)	Emergency CO or Group
Station Timers(123)	ICM Tenancy Group Number
Linked Station(124)	Call Time Restriction
Station ICM Group(125)	
Station VM Attributes (127)	Power-Failure Line Release Cost Display
Station Viv Attributes (127) Station Personal CCR(128)	Active PTT Group Number
	Hot Desk Station
Station Name Display	SMDR Hidden Dialed Diaits
Station Data Copy	Left Message to Executive
Station CTI IP Address	Station Web Level
Station Recording Infomation	Headset page mode
	Progress Indication
Board Based Data	3.1KHz Audio
	Pick-Up by Flex Button
CO Line Data	Prepaid Call

3. The selected functions are displayed and click the Save button after checking each functions. The rest steps are the same as the step 1.

PGM Search	< System Information User	Function N	Manag ×	Add Function	×			
ystem ID & Numbering Plans	Check All Save	Funct	tion Name: S	tation 1	2 Save	Function		
tation Data V	Initialize							
	Make Table		Step 1	Step 2	Step	3	Step 4	Step 5
Station Type(110)	Keyset Admin Access	Sta	tion 1 Attr					
Common Attributes(111)	CO PGM							
Terminal Attributes(112)	Automatic Hold							Save
CLI Attributes(113)	Individual CO Access							Save
Flexible Buttons(115/129)	CO/IP Line Queuing	Enter S	Station Range				Load	
	Ringing Line Preference							
Station COS(116)	Speed Dial Access	Station	Range					
CO/IP Group Access(117)	Alarm / Door Bell	0.1		A stall sets	Malaa	D		
Internal Page Zone Overview	Station Account	Order	Check All	Attribute	Value	Range		
Internal Page Zone(118)	Forced SMDR Account Code	1		Individual CO Access	Disable 🔻			
PTT Group Access(119)	Loop LCR Account	2		CO/IP Line Queuing	Disable •			
Preset Call Forward(120)	Door Open	3		Ringing Line Preference	Disable •			
	Flex Button PGM							
Idle Line Selection(121)	Prefer CO or Group	4		Alarm / Door Bell	Disable 🔻			
Station IP Attributes(122)	Emergency CO or Group	5		Loop LCR Account	OFF 🔻			
Station Timers(123)	ICM Tenancy Group Number							
Linked Station(124)	Call Time Restriction							
	PROCTOR MONITORING							

4. Finally, click the Save Function to save and then click the OK button.

	Notification	
	This function is closed.	s saved. This tab will be
		Ok
S/W Upgrade	< System Information	User Function Man X
Database		
Multi Language		
SMDR	Check All	Function Name
File System		System 1 Station 1
License Management		
DECT Statistics Feature		
Voice Mail Management		
Function Program ~		
User Function Management		

5. To check the function, click Function Base button in the left frame and User Function List and you will see the following figure.

You can enable or disable the function by checking each function and then click the save after setting Value. Also move to each step by clicking the next button or Previous button.

PGM Base Function Base	Favorite Function Station 1 X	
Q Function Search	Step 1 (S Step 2 (Station 2 Attr) Step 3 (S	Step 4 (S
Common Function List	Enter Station Range :	2 Load Save
User Function List ~	Station Range 1000	
Station 1	Order Ja Check All Attribute Ja Value	Range
System 1	1 Line Release Cost Display OFF V	
	2 Active PTT Group Number	0-9

Deleting Function

To delete the user function, click Maintenance at the top of window and then click the Function Program -> User Function Management. Check the desired function to delete and click the delete button.

S/W Upgrade	< System Information	n User Function Man X
S/W Opgrade	System mormation	Oser Function Man
Database		
Multi Language		
SMDR	Check All	Function Name
		System 1
File System		Station 1
License Management		
DECT Statistics Feature		
Voice Mail Management		
Function Program V		
User Function Management		

4.5.15 User Management

iPECS UCP supports up to 50 system accounts and up to ten (10) users may simultaneously access system Web services. The default ID is 'admin' and the password is '1234'. The Access privilege is determined based on the entered system account (ID/Password) and the privilege assigned for the user.

Please follow up the below instructions to make User ID:

- 1) Maximum 16 characters & digits.
- 2) In English only.
- 3) First letter must be Alphabet. The rest are available: Alphabet, number, underscore (_).
- 4) Don't use 'blank'.

It is strongly recommended that a unique User ID and strong password be entered to minimize the risk of admin and maintenance access by unauthorized personnel.

User should register mor	e than a maintenance ID.
--------------------------	--------------------------

Q PGM Search	< System	n Informatio	user Management <mark>×</mark>		×	
S/W Upgrade					Save	
Database				1	Add User	
Multi Language	User ID				Max 16 Characters & Digits English Only / First letter must be Alphabet / _ is allowed	
SMDR	Passwo	rd P	assword	Show	Max 16 Characters & Digits	
File System			Maint O			
MOH Management			Admin O			
License Management	Privilege	e –	User 🔍			
			Custom 1			
DECT Statistics Feature			Custom 2			
VSF Prompt Message	T		ReadOnly		4 400 Defects All Occurs Descentions to with the Up to 5 encode	
VSF System Greeting	Tenancy Group No				1 \sim 100, Default All Groups, Range input available, Up to 5 groups, ex) 1,3,5,7,9 or 1-5	
User Greeting						
			User List			
Company Directory	User ID	Privileç				
Voice Mail Management	а	Maint	1-100	Delete	e	
Function Program						
User Management v						
User Management						

Figure 4.5.15-1 User Management

4.5.15.1 Company (Tenant group) Administrator Account

The main (maintenance) administrator of the system can make new administrator account for each tenant group. The tenant group administrator can configure the system according to tenant group and 'Web access authorization' in System Data. Managing the available feature will be assigned Web Access Authorization in System Data.

Operation

- 1. Web Access Authorization
 - > Program Custom#1 and #2 privilege columns by selecting N/A, Read, Read/Write for Tenant group administrator.

PGM Base Function Base	<	Favorite PGM Web Access	Authori×			
PGM Search O						Save
System ID & Numbering Plans	Order	PGM	User	Admin	Custom 1	Custom 2
Station Data		System ID & Numbering Plans	== Change All == 🔻			
	1	System ID(100)	Read •	Read/Write •	N/A 🔻	N/A T
Board Based Data	2	System Overview	Read/Write •	Read/Write •	N/A 🔻	N/A 🔻
CO Line Data	3	Device Port Num Change(101)	N/A 🔻	Read/Write •	N/A 🔻	N/A 🔻
	4	System IP Plan(102)	Read	Read/Write •	N/A 🔻	N/A 🔻
System Data 🗸 🗸	5	Device IP Plan(103)	Read •	Read/Write •	N/A 🔻	N/A 🔻
	6	CO Device Sequence Number(104)	N/A 🔻	Read/Write •	N/A T	N/A T
System Attributes(160~161)	7	Flexible Station Number(105)	Read •	Read/Write •	N/A T	N/A T
System Password(162)	8	Flexible Numbering Plan(106~109)	Read •	Read/Write •	N/A 🔻	N/A T
Alarm Attributes(163)	9	8 Digit Extension Table(238)	N/A T	Read/Write •	N/A 🔻	N/A •
Attendant Assignment(164)		Station Data	== Change All == 🔻			
Multicast IP/Port(165) DISA COS(166)	1	Station Type(110)	Read •	Read/Write •	N/A T	N/A T
DID/DISA Destination(167)	2	Common Attributes(111)	N/A 🔻	Read/Write •	N/A 🔻	N/A T
External Control Contacts(168)	3	Terminal Attributes(112)	N/A T	Read/Write •	N/A T	N/A •
LCD Display Mode(169)	4	CLI Attributes(113)	N/A T	Read/Write •	N/A T	N/A •
LED Flashing Rates(170)	5	Flexible Buttons(115/129)	Read/Write •	Read/Write •	N/A 🔻	N/A •
Music Sources(171)	6	Station COS(116)	N/A T	Read/Write •	N/A T	N/A •
PBX Access Codes(172)	7	CO/IP Group Access(117)	N/A T	Read/Write •	N/A T	N/A •
RLP Priority(173)	8	Internal Page Zone Overview	N/A T	Read/Write •	N/A T	N/A T
RS-232 Port Settings(174)	9	Internal Page Zone(118)	N/A T	Read/Write •	N/A •	N/A T
Serial Port Selections(175)	10	PTT Group Access(119)	N/A T	Read/Write •	N/A T	N/A T
Pulse Dial (Break/Make) Ratio(176)	11	Preset Call Forward(120)	Read/Write •	Read/Write •	N/A T	N/A T
SMDR Attributes(177)	12	Station ICR Scenario (1201)	N/A T	Read/Write •	N/A T	N/A T
System Date & Time(178)	13	Idle Line Selection(121)	N/A T	Read/Write •	N/A T	N/A T
System Multi Language(179)	14	Station IP Attributes(122)	N/A T	Read/Write •	N/A T	N/A T
System Timers(180~182,186)	15	Station Timers(123)	Read/Write •	Read/Write •	N/A T	N/A T
In Room Indication(183)	16	Linked Station(124)	N/A T	Read/Write •	N/A T	N/A T
Web Access Authorization	17	Station ICM Group(125)	N/A T	Read/Write •	N/A T	N/A T
Station Web Authorization	• 18	Station VM Attributes (127)	Read/Write T	Read/Write	N/A T	N/A T

- 2. User Management: add User account for Tenant group administrator.
 - 1) Enter ID and Password.
 - 2) Select Custom 1 or Custom 2.
 - 3) Enter the desired Tenant group number.

UCP100/600/2400	100 groups
eMG800	32 groups
eMG80	15 groups

Note

- Maximum 50 users (including Maintenance, Admin and User privilege).
- The main administrator can't add Tenant group administrator account for all tenant group because the number of tenant group of UCP is 100.
- 4) Click [Save] button to create Account.
- 5) Log in with the account.
- 6) The available PGM menu will be displayed by assigning 'Web Access Authorization'.

4.5.16 Trace

The system software incorporates routines to monitor and output detailed call and feature processing information, and event logs. Information is provided on a system or device level as requested. Administrators can find the information on this page.

Trace	~		Trace	~
Set Trace Direction	I		Set Trace Direction	
Board Trace			Board Trace	
Device Trace			Device Trace	
Virtual Trace Dip S	witch(P452)		Virtual Trace Dip Switch(P452)	
Virtual Dip Switch(F	P453)		Virtual Dip Switch(P453)	
H323 Log			H323 Log	
CO Line Status			CO Line Status	
Station Status			Station Status	
Ping Test			Ping Test	
MPB Log View			UCP Log View	
< Gateway Log View		<	Gateway Log View	
HTTP Log View			HTTP Log View	
Dip Switch Status			Dip Switch Status	
Relay Fail Log Viev	v		Relay Fail Log View	
SIP Auth Log View			SIP Auth Log View	
SIP RegUnreg Log	View		SIP RegUnreg Log View	
Web Admin Log			Web Admin Log	
Version History Log)		Version History Log	
SLT Line Monitor			SLT Line Monitor	
Packet Capture			Packet Capture	
Trace Log via web			Trace Log via web	

Figure 4.5.16-1 Trace Main Page

We explain [Packet Capture] and [Trace Log via web] among them because it is very useful to use Web admin.

Packet Capture

A user can start and stop capturing packets and download packet capture result. The dump file will be replaced when new capturing is started.

Default option is included. The file name is packetdump.cap. -i eth0 -w packetdump.cap -c 10000

- Option explanation

protocol filter: tcp or udp or icmp

port filter: both source and destination port -> port #number, source port -> src port #number,

destination port -> dst port #number

IP filter: both source and destination host IP -> host #IP_ADDR, source host IP -> src host #IP_ADDR, destination host IP -> dst host #IP_ADDR

Example

UDP and Port 5588 and Source IP address 10.1.1.100: udp and port 5588 and src host 10.1.1.100

Trace Log via web

A user can start and stop logging and download trace log result. The log file will be replaced when new logging is started.

- 1. Set 'Trace Attribute' to 'COM1(UART1)' from 'Set Trace Direction' menu.
- 2. Set 'Board Trace', 'Device Trace' and 'Virtual Trace Dip Switch(P452)' menu.
- 3. Click [Start] button.

4.5.17 TDM Gain Control

Control voice gain of TDM device for each direction. For more information to change Value, it is recommended that you ask your dealer or an authorized Ericsson-LG Enterprise representative. We can't guarantee the damage according to changing Value arbitrarily.

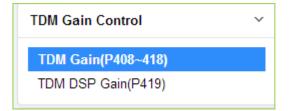


Figure 4.5.17-1 TDM Main Page

4.5.18 IP Gain Control

Audio gain for signals from and to each type of device is adjustable through the IP Gain Control page. The default gain values for the system are set to match the Nation Code. For more information to change Value, it is recommended that you ask your dealer or an authorized Ericsson-LG Enterprise representative. We can't guarantee the damage according to changing

Value arbitrarily.

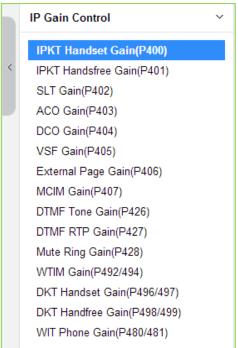


Figure 4.5.18-1 IP Gain Control Main Page

4.5.19 Tone/ Ring Gain & Cadence Control

Selecting Tone Table will display the page shown. Here the tones, cadence and gain used with features can be managed. For more information to change Value, it is recommended that you ask your dealer or an authorized Ericsson-LG Enterprise representative. We can't guarantee the damage according to changing Value arbitrarily.



Figure 4.5.19-1 Tone/Ring Gain & Cadence Control Main Page

Control system tone/ring cadence and frequency.

System announcement or music can be provided instead of system ring/tone if it is assigned in tone table.

4.5.20 Appliances Control

The Appliances Control page permits control of several characteristics of IP phones and analog CO lines such as Comfort Noise level and side tone. For more information to change Value, it is recommended that you ask your dealer or an authorized Ericsson-LG Enterprise representative. We can't guarantee the damage according to changing Value arbitrarily.



Figure 4.5.20-1 Appliances Control Main Page

4.5.21 Web Certificate

SSL stands for Secure Sockets Layer, a global standard security technology that enables encrypted communication between a web browser and a web server. It is utilized by millions of online businesses and individuals to decrease the risk of sensitive information (e.g. credit card numbers, user names, passwords, emails, etc.) from being stolen or tampered with by hackers and identity thieves. In essence, SSL allows for a private "conversation" just between the two intended parties.

To create this secure connection, an SSL certificate (also referred to as a "digital certificate") is installed on a web server and serves two functions:

- It authenticates the identity of the website (this guarantees visitors that they're not on a bogus site)
- It encrypts the data that's being transmitted.

The web server certificated must have a domain name however default web certificate of a system has no information for domain. So, a web browser displays warning message about ERR_CERT_AUTHORITY_INVALID. To clear this warning, an administrator has to issue a certificate for the system.

There is a need to generate own self signed certificate in order to mitigate the vulnerability of security and do not display the caution pop-up such as 'un-trusted site' because the system use IP address or URL. This certificate is needed to use 'https://XXX', not 'http://xxx'.

To create Certificate

Please must check date and time. The certificate will not operate well on PC or Mobile device if the time of certificate issued on between system and PC or Mobile device is different.

Step 1: Enter Domain name and then click **[Issue]** button. The certificate will be used for IP address of this system if Domain name is not entered as blank.

Step 1 : Input Domain Name. The certificate will be issued for IP address of this system if domain name is empty value.

Issue

The following result is displayed on browser.

/home/ca/ Directory Exist
/home/ca/index.txt Log File Exist
/home/ca/serial Serial File Exist
/home/ca/openssl.cnf Configuration File Exist
/home/ca/root.key.pem Root Key File Exist
/home/cs/root.cert.pem Root Cert File Exist
Server Key File Generated
Server Csr File Generated
Using configuration from /home/ca/openssl.onf
Check that the request matches the signature
Signature ok
Certificate Details:
Serial Number: 4097 (0x1001)
Validity
Not Before: Apr 20 00:00:00 2016 GMT
Not After : Apr 20 23:59:59 2021 GMT
Subject:
commonName = 10.10.10.2
X509v3 extensions:
X509v3 Basic Constraints:
CA:FALSE
Netscape Cert Type:
SSL Server
Netscape Comment:
OpenSSL Generated Server Certificate
X509v3 Subject Key Identifier:
54:2C:78:84:93:D4:73:4A:03:34:9A:40:46:AC:53:80:49:ED:69:23
X509v3 Authority Key Identifier:
keyid:DF:3C:48:83:68:D1:9C:7D:40:98:1E:6A:BE:AE:65:D4:83:DD:EE:2D
DirName:/C=KR/ST=Gyeonggi-do/L=Anyang-si/O=Ericsson-LG Enterprise Co., Ltd/OU=iPECS/CN=iPECS Web Admin Root Certificate
serial: 10:00
X509v3 Key Usage: oritical
Digital Signature, Key Encipherment
X509v3 Extended Key Usage:
TLS Web Server Authentication
Certificate is to be certified until Apr 20 23:59:59 2021 GMT (1825 days)
Write out database with 1 new entries
Data Base Updated
Server Cert File Generated
/home/ca/ipecs.trusted.root.cert.crt User Certificate File Created
/home/ca/ipecs.trusted.root.cert.crt User Certificate File Write Done
Complete!!

Step 2: Install Certificates into the Trusted Root Certification Authorities certificate store after downloading directly as below picture or sending to email for installing the desired devices if you want to get the certificates via email.

The way to install Certificates is followed by the type of Windows OS, Android OS, or iOS OS.

	Send Mail
/nload certificate directly. wnload Root Certificate	
[Version] Appl(R2.1.1), Boot(1.0Da), Kernel(R1.1.6),	H/W(1)
and the second state providence of the second state second state	

Step 3: Restart Web server to apply New certificate by clicking [Web Server Restart] button.

Note

Clean up all certificate and files by clicking [Server Certificate Clean up] button.

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S/W Upgrade	System Information Web Certificate Issue X
Database	
Multi Language	Check system date and time. The certificate will not operate well on PC or mobile device if certificate issued time of system and time of PC or mobile device are different
SMDR	Step 1 : Input Domain Name. The certificate will be issued for IP address of this system if domain name is empty value. Issue
File System	Step 2 : Install certificates into the Trusted Root Certification Authorities certificate store after downloading directly or sending to email.
MOH Management	Input email address if you want to get the certificates via email. Send Mail
License Management	Download Certificate directly. Download Root Certificate
DECT Statistics Feature	
VSF Prompt Message	Step 3 : Restart web server to apply new certificate. Web Server Restart
VSF System Greeting	* Clean up certificate and files.
User Greeting	Server Certificate Clean Up
Company Directory	Result
Voice Mail Management	
Function Program	
User Management	
Trace	
TDM Gain Control	
IP Gain Control	
Tone/Ring Gain&Cadence Control	
Appliances Control	
Web Certificate ~	
Web Certificate Issue	

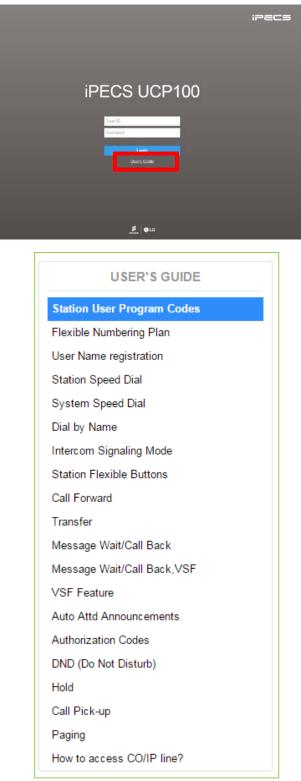
Figure 4.5.21-1 Web Certificate Issue

4.6 On-Line web user guide

We provide On-line web user guide about the frequent use of features to a user.

You can access it in the login page as below without entering ID and Password.

We didn't explain the user guide because you can easily get the information on the following features on the web.



Appendix A Program Codes

User and Attendant Program Codes, refer to Table A-1 and A-2, are digit sequences users and the Attendant may dial while in the User Program Mode to assign Flex buttons and affect the status of a feature or setting. For more information on the User Program Mode, refer to the iPECS Features and Operation Manual.

Many of these codes may be assigned to a button of an iPECS IP or LDP Phone by pressing the **[PGM]** button as the first entry of a Flexible button assignment, see Flex button Programming in the iPECS Features and Operation Manual.

Code	Description	Code	Description		
11X	Intercom Differential Ring	82	{COLR} Button Assignment		
12X	CO Line Differential Ring	83	{ATD DND} button assignment		
13	Intercom Answer Mode (1: HF/2: TONE/3: PV)	84	{Account Code} Button Assignment		
14X	Call Coverage Attribute Setting	85	{LOOP} Button Assignment		
15X	Station Ring Download	86	{ATD Intrusion} Button Assignment		
21	Knock Down Station COS	87	{INTERCOM} Button Assignment		
22	Restore Station COS	88	{Camp-on} Button Assignment		
23	Walking COS	89	{Send Keypad Facility IE} Button Assignment		
24	ICR Scenario	8#	{OHVO} Button Assignment		
25	LIP Keyset Stat	8*1	DID Restiction Button Assignment		
26	Call Profile	8*2	DISA Restiction Button Assignment		
30	VM Mobile Notify	8*3	Bomb Threat History Button Assignment		
31	Message Retrieve Method	8*5	Headset Button Assignment		
32	Message Retrieve Example	8*6XYZA	Toggle Ring Mode Button Assignment X,Y,Z,A : 1(Day), 2(Night), 3(Timed), 4(Auto)		
33	User Authorization Code Registration	90	{SPEED} Button Assignment		
34	DID Call Wait	91	{CONFERENCE} button assignment		
35	Message Wait in Executive/Secretary pair	92	{CALLBACK} button assignment		
36	Send SMS Message	93	{DND} button assignment		
37	Register Mobile Extension	94	{FLASH} button assignment		
38	Make Mobile Extension active	95	{MUTE} button assignment		
39	Register Mobile Extension CLI	96	{MONITOR} button assignment		
41	Set Wake-Up Time	97	{REDIAL} button assignment		
42	Wake-Up Time Disable	98	{CALL FORWARD} button assignment		
51XX	Custom/Pre-select Message Display (XX = 00-20)	99	{PTT} button assignment		
52	Register Custom Message (Message 00)	9*XX	{In-Room Indication} button assignment (XX = 01-10)		
53	Active Conference Room	*6XXX	Set Forced Fwd Dest (XXX : hunt group no.)		
54	Deactive Conference Room	*7XXX	Forced FWD To Dest (XXX : hunt group no.)		
55	Monitor Conference Group	*8	Register Bluetooth		
57	{Call Log Display} Button Assignment	*9	Bluetooth Usage		
61	Headset/Speakerphone Mode	*0	Hotdesk Login		
62	Change Ring Mode	**	Hotdesk Logout		
71	LCD Display Mode				
72	Version Display		[1] STA RING TYPE [2] CO RING TYPE		
73	Background Music				
74	Station User Name Registration		[3] ANSWER MODE		
75	Display Phone IP Address		[4] CALL COVER ATTR		
76	Change Phone IP Address		[5] STA RING DOWNLOAD		
77	Display Phone MAC Address	(Internet	/NEWKEYSET		
78	Network Config		INEWNEIDEI		
79	Display Phone Version	[2] COS	[1] COS DOWN		
7#	Forced Release Button Assignment		[2] COS RESTORE		
7*	Display Serial number/Package for SMEMU				
80	{Record} Button Assignment - With Voice Mail		[3] WALKING COS		
81	{CLIR} Button Assignment				

Table A-1 Station User Program codes

CODE	FUNCTION
0111	Print SMDR, by Station
0112	Delete SMDR, by Station
0113	Display Call Charge
0114	Abort Print
0115	Print Lost Call Report
0116	Delete Lost Call Report
0121	Print Traffic Analysis (All summary)
0122	Print Traffic Analysis (All summary periodically)
0123	Abort "Print Traffic Analysis (All summary periodically)"
0124	Print Traffic Analysis (Attendant)
0125	Print Traffic Analysis (Call summary)
0126	Print Traffic Analysis (Call Hourly)
0127	Print Traffic Analysis (H/W Usage)
0128	Print Traffic Analysis (CO summary)
0129	Print Traffic Analysis (CO Hourly)
021	Set ICM only Mode
022	Restore Station COS
031	Authorization Code Registration
032	Erase Authorization
041	System Date/Time set
042	LCD Date Mode
043	LCD Time Mode
044	Set Wake Up Time from Attendant
045	Wake Up Disable from Attendant
046	PX Clock Set through ISDN message
047	Hot Desk login
048	Hot Desk logout
051	Custom/Pre-select Message
052	DND/Call Forward/Pre-selected MSG Cancel
053	Custom Display Message (11-20)
054	Monitor Conference Room
055	Delete Conference Room
06	VSF – Record System Greeting
071	Register Station Name
072	Isolate CO Fault Line
073	Automatic Day/Night/Timed Ring Table
074	External Page Music -1 Assignment/Cancel
075	External Page Music -2 Assignment/Cancel
076	LCD Display Language
077	PTT Login / Logout
078	Display CPU redundancy state
079	Font Set
070	Contrast Set
08	Emergency History about emergency call
*#	Admin Programming Code to enter

Table A-2 Attendant User Program Codes

Appendix B Flexible Numbering Plan (Web based)

The System Numbering Plan can be selected from 1 of 9 basic Numbering Plans. Table B-1 provides a brief description of the plans and Table B-2 for eMG and Table B-3 for UCP provide the Numbering Plan codes for each of the nine basic plans. The Number Plan is selected in Program 100 and individual codes in the plan can be changed using the Flexible Numbering Plan Programs 106 to 109.

Plan Number	Plan Number Description		eMG800	UCP
1	Basic Numbering Plan	100 - 239	1000-2199	1000 – 3399
2	The station number can be within 799	100 - 239	1000-2199	1000 – 3399
3	Australia Default	100 - 239	1000-2199	1000 – 3399
4	New Zealand Default	700– 839	7000-8199	1000 – 3399
5	Italy Default	200– 339	2000-3199	2000– 4399
6	Finland Default	210 – 349	2100-3299	2100 –4499
7	Default for Sweden	100–239	1000-2199	1000 – 3399
8	Default for Norway	100–239	1000-2199	1000 – 3399
9	Default for Israel	100–239	1000-2199	1000 – 3399

Table B-1 Numbering Plan Description

Table B-2 eMG Basic Numbering Plan 1-4, Default Values

	-		Basic Num	bering Plar	ı	
	Feature	1	2	3	4	Remark
	Intercom Call for eMG80	100 ~239	100-239	100-239	700-839	
	Intercom Coll for eMC200	1000 2100	1000-	1000-	1000-	
	Intercom Call for eMG800	1000-2199	2199	2199	2199	
1	Internal Page Zone	eMG80:301~335 eMG800:*301~*400	*301~*335	*101~*135	#101~#135	
2	Internal All Call Page	543	*543	#3	#3	
3	Meet Me Page	544	*544	##	##	
4	External Page Zone 1	545	*545	#41	#41	
5	External All Call Page	548	*548	#5	#5	
6	All Call Page (Internal/External)	549	*549	#00	#00	
7	SMDR Account Code Enter	550	*550	550	550	SLT
8	Flash Command to CO Line	551	*551	551	551	SLT
9	SLT Last Number Redial	552	*552	552	552	SLT
10	Do Not Disturb (Toggle On/Off)	553	*553	553	553	SLT
11	Call Forward	554	*554	554	554	
12	Speed Dial Programming	555	*555	555	555	SLT
13	Activate Message Wait/Callback	556	*556	556	556	SLT
14	Message Wait/Callback Answer	557	* 557	557	557	SLT
15	SLT Speed Dial Access	558	* 558	558	558	SLT
16	DND/FWD Cancel	559	* 559	559	559	SLT
17	SLT CO System Hold	560	* 560	560	560	SLT

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	F actoria	Basic Numbering Plan				
	Feature	1	2	3	4	Remark
18	SLT Program Mode Access	561	* 561	561	561	SLT
19	Attendant Unavailable	562	* 562	562	562	
20	AME Feature	564	* 564	564	564	
21	Alarm Reset	565	* 565	565	* 565	
22	Group Call Pickup	566	**	**	*1	
23	Universal Night Answer	567	* 567	567	567	
24	Account Code with bin	568	* 568	568	568	
25	Walking COS	569	* 569	569	569	
26	ACD agent On/Off Duty	571	* 571	571	571	
27	ACD Supervisor Login	572	* 572	572	572	
28	ACD Supervisor Logout	573	* 573	573	573	
29	ACD Help Code	574	* 574	574	574	
30	ACD Calls In Queue Display	575	* 575	575	575	
31	ACD Supervisor Status	576	* 576	576	576	
32	ACD Supervisor Monitor	577	* 577	577	577	
33	ACD Reroute Queued Call Answer	578	* 578	578	578	
34	ACD Reroute Queued Call No answer	579	* 579	579	579	
35	Camp-On Answer	621	* 621	*521	*521	SLT
20		eMG80:#601~#619	#601 -#	#601 –	#601 –	
36	Call Park Locations	eMG800:#601~#800	619	#619	#619	
37	Station Group Pilot Number	eMG80:401~449	*401 –	*620 –	*620 –	
31		eMG800:401~500	*440	*659	*659	
38	Station User VSF Features Access	*66	66	*78	*78	
39	Call Coverage Ring	76	*76	*76	*76	
40	Direct Call Pickup	*77	*77	*77	*77	
41	Access CO Group	89	89	#89	#89	
42	Access Individual CO/IP Line	88	88	#88	#88	
43	Access Held CO/IP	8*	8*	#8*	#8*	
44	Access Held Individual CO/IP	8#	8#	#8#	#8#	
45	Access CO in First CO Group	9	9	9	0	
46	Attendant Call	0	0	0	9	
47	VM Message Wait Enabled	*8	*8	*8	*8	
48	VM Message Wait cancel	*9	*9	*9	*9	
49	Door Open (1st Door)	#*1	#*1	#*1	#*1	
50	Door Open (2nd Door)	#*2	#*2	#*2	#*2	
51	MCID Request	*0	*0	*0	*0	
52	Unsupervised conference time Extension code	##	##	*##	*##	
53	PTT Group Login/Logout	#0	#0	#*0	#*0	
54	ACD Agent primary login	581	* 581	581	581	
55	ACD Agent primary logout	582	* 582	582	582	
56	ACD Agent secondary login	583	* 583	583	583	
57	ACD Agent secondary logout	584	* 584	584	584	
58	Wrap-up end	585	* 585	585	585	
59	T-NET CM Login/out	586	* 586	586	586	

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	Facture		Basic Numbering Plan				
	Feature	1	2	3	4	Remark	
60	Enter Into Conf-Room	59	* 59	*59	*59		
61	Enter Into Conf-Group	68	* 68	*79	*79		
62	Station ICR	587	* 587	587	587		
63	Pick up Group Pick-Up	588	* 588	588	588		
64	Emergency Page	589	* 589	589	589		
65	Remote Mobile Extension Control	580	* 580	580	580		
66	ACD agent ON/OFF Duty-All group	58*	* 58*	58*	58*		
67	SLT ACNR	58#	* 58#	58#	58#		
68	ACD Supervisor Ring Mode	570	* 570	570	570		
69	Company Directory Name	563	* 563	563	563		
70	ISDN Supplementary Hold	57*	*57*	57*	57*		
71	ISDN Supplementary Conf	57#	*57#	57#	57#		
72	Forced Channel Seize	56*	*56*	56*	56*		
73	Override DND/Forward	56#	*56#	56#	56#		
74	Cancel Call Back						
75	Transfer to VSF Number	55*	*55*	55*	55*		
76	CCR	#2	#2	#2	#2		
77	Room type conf Group join	5*0	5*0	5*0	5*0		
77	Last Number Redial (LNR)	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset	
78	Save Number Redial	[Save]	[Save]	[Save]	[Save]	Keyset	
79	Station Speed Dial Access	[SPEED] + XXX	[SPEED] + XXX	[SPEED] + XXX	[SPEED] + XXX		
80	System Speed Dial Access	[SPEED] + XXXX	[SPEED] + XXXX	[SPEED] + XXXX	[SPEED] + XXXX		

Table B-2 eMG Basic Numbering Plan 5-9, Default Values

	Frature		Basic Numbering Plan					
	Feature	5	6	7	8	9	Remark	
	Intercom Call for eMG80	200-339	210-349	100-239	100-239	100 ~239		
	Intercom Call for eMG800	2000-3199	2100-3299	1000-2199	1000-2199	1000-2199		
1	Internal Page Zone	*101-*135	*301-*335	401- 429	*301- *335	301~335		
2	Internal All Call Page	#3	*543	43	*543	543		
3	Meet Me Page	##	*544	44	*544	544		
4	External Page Zone 1	#41	*545	45	*545	545		
5	External All Call Page	#5	*548	48	*548	548		
6	All Call Page (Internal/External)	#00	*549	49	*549	549		
7	SMDR Account Code Enter	50	*550		*550	550	SLT	
8	Flash Command to CO Line	51	*551	51	*551	551	SLT	
9	SLT Last Number Redial	52	*552	52	*552	552	SLT	
10	Do Not Disturb (Toggle On/Off)	53	*553	53	*553	553	SLT	
11	Call Forward	54	*554	54	*554	554		
12	Speed Dial Programming	55	*555	55	*555	555	SLT	

	_	Basic Numbering Plan						
	Feature	5	6	7	8	9	Remark	
13	Activate Message Wait/Callback	56	*556	56	*556	556	SLT	
14	Message Wait/Callback Answer	57	*557	57	*557	557	SLT	
15	SLT Speed Dial Access	58	*558	58	*558	558	SLT	
16	DND/FWD Cancel	59	*559	59	*559	559	SLT	
17	SLT CO System Hold	690	*560	*10	*560	560	SLT	
18	SLT Program Mode Access	691	*561	50	*561	561	SLT	
19	Attendant Unavailable	692	*562	*12	*562	562		
20	AME Feature	694	*564	*36	*564	564		
21	Alarm Reset	695	*565	*13	*565	565		
22	Group Call Pickup	**	*566	*14	*566	**		
23	Universal Night Answer	697	*567	*15	*567	567		
24	Account Code with bin	698	*568	*16	*568	568		
25	Walking COS	699	*569	*17	*569	569		
26	ACD agent On/Off Duty	671	*571	*20	*571	571		
27	ACD Supervisor Login	672	*572	*21	*572	572		
28	ACD Supervisor Logout	673	*573	*22	*573	573		
29	ACD Help Code	674	*574	*23	*574	574		
30	ACD Calls In Queue Display	675	*575	*24	*575	575		
31	ACD Supervisor Status	676	*576	*25	*576	576		
32	ACD Supervisor Monitor	677	*577	*26	*577	577		
33	ACD Reroute Queued Call Answer	678	*578	*27	*578	578		
34	ACD Reroute Queued Call No answer	679	*579	*28	*579	579		
35	Camp-On Answer	621	*621	*29	*621	*621	SLT	
36	Call Park Locations	#601 – #619	#601 – #619	601 – 619	#601 – #619	#601~#619		
37	Station Group Pilot Number	720 – 759	*401 - *440	620 – 659	*401 - *440	620~659		
38	Station User VSF Features Access	*66	66	*11	66	*66		
39	Call Coverage Ring	*76	*76	*30	*76	76		
40	Direct Call Pickup	*77	*77	7	*77	*77		
41	Access CO Group	89	89	89	#89	89		
42	Access Individual CO/IP	88	88	88	#88	88		
43	Access Held CO/IP	8*	8*	8*	#8*	8*		
44	Access Held Individual CO/IP	8#	8#	8#	#8#	8#		
45	Access CO in First CO Group	0	9	9	0	9		
46	Attendant Call	9	0	0	#9	0		
47	VM Message Wait Enabled	*8	*8	*8	*8	*8		

Table B-2 eMG Basic Numbering Plan 5-9, Default Values

	Basic Numbering Plan						
	Feature	5	6	7	8	9	Remark
48	VM Message Wait cancel	*9	*9	*9	*9	*9	
49	Door Open (1st Door)	#*1	#*1	*31	#*1	#*1	
50	Door Open (2nd Door)	#*2	#*2	*32	#*2	#*2	
51	MCID Request	*0	*0	*35	*0	*0	(Except USA version)
52	Unsupervised conference time Extension code	*##	##	*37	##	##	
53	PTT Group Login/Logout	#*0	#0	*38	#0	#0	
54	ACD Agent primary login	681	*581	*40	*581	581	
55	ACD Agent primary logout	682	*582	*41	*582	582	
56	ACD Agent secondary login	683	*583	*42	*583	583	
57	ACD Agent secondary logout	684	*584	*43	*584	584	
58	Wrap-up end	685	*585	*44	*585	585	
59	T-NET CM Login/out	686	*586	*45	*586	586	
60	Enter Into Conf-Room	*59	*59	*46	*59	59	
61	Enter Into Conf-Group	*68	*68	*47	*68	*68	
62	Station ICR	687	*587	*48	*587	587	
63	Pick up Group Pick-Up	688	*588	*49	*588	588	
64	Emergency Page	689	*589	*50	*589	589	
65	Remote Mobile Extension Control	680	*580	**	580	580	
66	ACD Agent ON/OFF Duty- All group	68*	*58*	*5#	*58*	58*	
67	SLT ACNR	68#	*58#	*51	*58#	58#	
68	ACD Supervisor Ring Mode	67*	*570	*52	*570	570	
69	Company Directory Name	*21	*563	*53	*563	563	
70	ISDN Supplementary Hold	*22	*57*	*54	*57*	57*	
71	ISDN Supplementary Conf	*23	*57#	*55	*57#	57#	
72	Forced Channel Seize	*24	*56*	*56	*56*	56*	
73	Override DND/Forward	*25	*56#	*57	*56#	56#	
74	Cancel Call Back			*58			
75	Transfer to VSF Number	*55	*55*	*59	*55*	55*	
76	CCR	#2	#2*		#2	#2	
77	Room type conf Group join	5*0	5*0	*61	5*0		
77	Last Number Redial (LNR)	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset
78	Save Number Redial	[Save]	[Save]	[Save]	[Save]	[Save]	Keyset
79	Station Speed Dial Access	[SPEED] + XXX					
80	System Speed Dial Access	[SPEED] + XXXX					

Table B-2 eMG Basic Numbering Plan 5-9, Default Values

	Basic Numbering Plan						
Feature	1	2	3	4	Remark		
Intercom Call	1000 ~3399	1000 ~3399	1000 ~3399	1000 ~3399			
Internal Page Zone	*301~*400	*301~*400	*101~*200	*301~*400			
Internal All Call Page	543	*543	#3	#43			
Meet Me Page	544	*544	##	##			
External Page Zone 1-2	545-546	*545-*546	#41-#42	#41-#42			
External All Call Page	548	*548	#5	#5			
All Call Page	549	*549	#00	#00			
SMDR Account Code Enter	550	*550	550	#9	SLT		
Flash Command to CO Line	551	*551	551	551	SLT		
SLT Last Number Redial	552	*552	552	552	SLT		
DND (Toggle On/Off)	553	*553	553	553	SLT		
Call Forward	554	*554	554	554			
Speed Dial Programming	555	*555	555	555	SLT		
Activate Message Wait/Callback	556	*556	556	*66	SLT		
Message Wait/Callback Answer	557	* 557	557	*67	SLT		
SLT Speed Dial Access	558	* 558	558	#8	SLT		
DND/FWD cancel	559	* 559	559	559	SLT		
SLT CO System Hold	560	* 560	560	560	SLT		
SLT Program Mode Access	561	* 561	561	561	SLT		
Attendant Unavailable	562	* 562	562	562			
AME Feature	564	* 564	564	564			
Alarm Reset	565	* 565	565	* 565			
Group Call Pickup	566	* 566	**	*1			
Universal Night Answer	567	* 567	567	2			
Account Code with bin	568	* 568	568	568			
Walking COS	569	* 569	569	569			
ACD Agent On/Off Duty	571	* 571	571	571			
ACD Supervisor Login	572	* 572	572	572			
ACD Supervisor Logout	573	* 573	573	573			
ACD Help Code	574	* 574	574	574			
ACD Calls In Queue Display	575	* 575	575	575			
ACD Supervisor Status	576	* 576	576	576			
ACD Supervisor Monitor	577	* 577	577	577			
ACD Reroute Queued Call Answer	578	* 578	578	578			
ACD Reroute Queued Call No Answer	579	* 579	579	579			
Camp-On Answer	621	* 621	621	621	SLT		
Call Parking Locations	#601~#800	#601~#800	#601~#800	#101~#300			
Station Group Pilot Number	401 – 500	*401 – *500	*401 – *500	#620 - #719			
Station User VSF Features Access	66x	66x	*66x	69x	x: 1 ~ 3		
Call Coverage Ring	76	*76	*76	67			
Direct Call Pickup	77	*77	*77	*77			
Access CO Group	89xx	89xx	89xx	89xx	xxx: 000~201,		
Access Individual CO/IP Line	88xxx	88xxx	88xxx	48xxx	xxx: 001~999		
Access Held CO/IP	8*	8*	8*	4*			
Access Held Individual CO/IP	8#xx	8#xx	8#xx	4#xx	xx: 01~74		

Table B-3 UCP Basic Numbering Plan 1-4, Default Values
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	Basic Numbering Plan						
Feature	1	2	3	4	Remark		
Access CO in First CO Group	9	9	9	1			
Attendant Call	0	0	0	0			
VM Message Wait Enabled	*8	*8	*8	*8			
VM Message Wait Cancel	*9	*9	*9	*9			
Door Open (1st Door)	#*1	#*1	#*1	#*1			
Door Open (2nd Door)	#*2	#*2	#*2	#*2			
Door Open (3rd Door)	#*3	#*3	#*3	#*3			
Door Open (4th Door)	#*4	#*4	#*4	#*4			
MCID Request	*0	*0	*0	*0			
Unsupervised conference time	##	##	* ##	*22			
Extension code	##	##	##	22			
PTT Group Login/Logout	#0	#0	#*0	*21			
ACD Agent primary login	581	* 581	581	581			
ACD Agent primary logout	582	* 582	582	582			
ACD Agent secondary login	583	* 583	583	583			
ACD Agent secondary logout	584	* 584	584	584			
Wrap-up end	585	* 585	585	585			
T-NET CM Login/out	586	* 586	586	586			
Enter Into Conf-Room	59	* 59	* 59	59			
Enter Into Conf-Group	68	* 68	* 68	68			
Station ICR	587	* 587	587	587			
Pick up Group Pick-Up	588	* 588	588	588			
Emergency Page	589	* 589	589	589			
Remote Mobile Extension Control	580	* 580	580	580			
ACD Agent ON/OFF Duty-All group	58*	* 58*	58*	58*			
SLT ACNR	58#	* 58#	58#	58#			
ACD Supervisor Ring Mode	570	* 570	570	570			
Company Directory Name	563	* 563	563	563			
ISDN Supplementary Hold	57*	*57*	57*	57*			
ISDN Supplementary Conf	57#	*57#	57#	57#			
Forced Channel Seize	56*	*56*	56*	56*			
Override DND/Forward	56#	*56#	56#	56#			
Cancel Call Back							
Transfer to VSF Number	55*	*55*	55*	55*			
CCR	#2	#2	#2	#2			
Room type Conf Group join	5*0	5*0	5*0	5*0			
Last Number Redial (LNR)	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset		
Save Number Redial	[Save]	[Save]	[Save]	[Save]	Keyset		
Station Speed Dial Assess	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	XXX:		
Station Speed Dial Access	XXX	XXX	XXX	XXX	000~099		
System Speed Dial Access	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	XXXXX:		
System Speed Dial Access	XXXXX	XXXXX	XXXXX	XXXXX	20000~31999		

Table B-3 UCP	Basic	Numbering	Plan 1-4.	Default Values
	Dusic	Numbering	т юн т т ,	Delault Values

		Basic Numbering Plan					
Feature	5	6	7	8	9	Remark	
Intercom Call	2000-4399	2100-4439	1000-3339	1000-3339	1000-3339		
Internal Page Zone	*101-*200	*301-*400	301- 400	*301- *400	*301- *400		
Internal All Call Page	#3	*543	43	*543	543		
Meet Me Page	##	*544	44	*544	544		
External Page Zone 1-2	#41- #42	*545 - *546	45- 46	*545 - *546	545-546		
External All Call Page	#5	*548	48	548	548		
All Call Page	#00	*549	49	*549	549		
SMDR Account Code Enter	50	*550	0	*550	550	SLT	
Flash Command to CO Line	51	*551	51	*551	551	SLT	
SLT Last Number Redial	52	*552	52	*552	552	SLT	
DND (Toggle On/Off)	53	*553	53	*553	553	SLT	
Call Forward	54	*554	54	*554	554		
Speed Dial Programming	55	*555	55	*555	555	SLT	
Activate Message							
Wait/Callback	56	*556	56	*556	556	SLT	
Message Wait/Callback	57	*===		*===		01 T	
Answer	57	*557	57	*557	557	SLT	
SLT Speed Dial Access	58	*558	58	*558	558	SLT	
DND/FWD cancel	59	*559	59	*559	559	SLT	
SLT CO System Hold	690	*560	*10	*560	560	SLT	
SLT Program Mode Access	691	*561	50	*561	561	SLT	
Attendant Unavailable	692	*562	*12	*562	562		
AME Feature	694	*564	*36	*564	564		
Alarm Reset	695	*565	*13	*565	565		
Group Call Pickup	**	*566	*14	*566	**		
Universal Night Answer	697	*567	*15	*567	567		
Account Code with bin	698	*568	*16	*568	568		
Walking COS	699	*569	*17	*569	569		
ACD Agent On/Off Duty	671	*571	*20	*571	571		
ACD Supervisor Login	672	*572	*21	*572	572		
ACD Supervisor Logout	673	*573	*22	*573	573		
ACD Help Code	674	*574	*23	*574	574		
ACD Calls In Queue Display	675	*575	*24	*575	575		
ACD Supervisor Status	676	*576	*25	*576	576		
ACD Supervisor Monitor	677	*577	*26	*577	577		
ACD Reroute Queued Call Answer	678	*578	*27	*578	578		
ACD Reroute Queued Call No Answer	679	*579	*28	*579	579		
Camp-On Answer	621	*621	*629	*621	*621	SLT	
Call Parking Locations	#601 – #800	#601 – #800	#601 – #800	#601 – #800	#601 – #800		
Station Group Pilot Number	720 - 819	*401 - *500	#401 - #500	*401 - *500	620-719		
Station User VSF Features						1	
Access	*66x	66x	67x	66x	*66	x: 1 ~ 3	
Call Coverage Ring	*76	*76	*76	*76	76		
Direct Call Pickup	*77	*77	*77	*77	*77		
Access CO Group	89xxx	89xxx	89xxx	#89xxx	89	xxx: 000-	

 Table B-3 UCP Basic Numbering Plan 5-9, Default Values

	Basic Numbering Plan					
Feature	5	6	7	8	9	Remark
						201
Access Individual CO/IP Line	88xxx	88xxx	88xxx	#88xxx	88	xxx: 001~999
Access Held CO/IP	8*	8*	8*	#8*	8*	
Access Held Individual CO/IP	8#xxx	8#xxx	8#xxx	#8#xxx	8#	xxx: 001~999
Access CO in First CO Group	0	9	9	0	9	
Attendant Call	9	0	0	#9	0	
VM Message Wait Enabled	*8	*8	*8	*8	*8	
VM Message Wait Cancel	*9	*9	*9	*9	*9	
Door Open (1st Door)	#*1	#*1	*31	#*1	#*1	
Door Open (2nd Door)	#*2	#*2	*32	#*2	#*2	
Door Open (3rd Door)	#*3	#*3	*33	#*3		
Door Open (4th Door)	#*4	#*4	*34	#*4		
MCID Request	*0	*0	*35	*0	*0	(Except USA version)
Unsupervised conference time Extension code	*##	##	*37	##	##	
PTT Group Login/Logout	#*0	#0	*38	#0	#0	
ACD Agent primary login	681	*581	*40	*581	581	
ACD Agent primary logout	682	*582	*41	*582	582	
ACD Agent secondary login	683	*583	*42	*583	583	
ACD Agent secondary logout	684	*584	*43	*584	584	
Wrap-up end	685	*585	*44	*585	585	
T-NET CM Login/out	686	*586	*45	*586	586	
Enter Into Conf-Room	*59	*59	*46	*59	59	
Enter Into Conf-Group	*68	*68	*47	*68	*68	
Station ICR	687	*587	*48	*587	587	
Pick up Group Pick-Up	688	588	*49	*588	588	
Emergency Page	689	*589	*50	*589	589	
Remote Mobile Extension Control	680	*580	**	#1	580	
ACD Agent ON/OFF Duty- All group	68*	*58*	*5#	*58*	58*	
SLT ACNR	68#	*58#	*51	*58#	58#	
ACD Supervisor Ring Mode	67*	*570	*52	*570	570	
Company Directory Name	*21	*563	*53	*563	563	
ISDN Supplementary Hold	*22	*57*	*54	*57*	57*	
ISDN Supplementary Conf	*23	*57#	*55	*57#	<u> </u>	
Forced Channel Seize	*24	*56*	*56	*56*	56*	
Override DND/Forward	*25	*56#	*57	*56#	<u>56</u> #	
Cancel Call Back	20	00	51	50#	00#	
Transfer to VSF Number	55*	*55*	*59	*55*	55*	
CCR	#2	#2*	#2	#2	<u>33</u>	

Table B-3 UCP Basic Numbering Plan 5-9, Default Values

Feeture		Basic Numbering Plan				
Feature	5	6	7	8	9	Remark
Room type Conf Group join	5*0	5*0	5*0	5*0		
Last Number Redial (LNR)	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	[REDIAL]	Keyset
Save Number Redial	[Save]	[Save]	[Save]	[Save]	[Save]	Keyset
Chatian One of Dial Assess	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	[SPEED] +	XXX:
Station Speed Dial Access	XXX	XXX	XXX	XXX	XXX	000~099
System Speed Dial Access	[SPEED] + XXXXX	[SPEED] + XXXXX	[SPEED] + XXXXX	[SPEED] + XXXXX	[SPEED] + XXXXX	XXXXX: 20000~3 1999

Table B-3 UCP Basic Numbering Plan 5-9, Default Values

Appendix C Database Details & Default for Station Administration for eMG

The following Tables, divided based on the Program group and Program, provide the default values assigned to all Admin entries. Prior to changing an entry during programming assure you have an understanding of the PROGRAM and its purpose.

BTN	SUB-MENU	DEFAULT	REMARK				
PGM:	100 -System ID						
1	Country Code	1	Maximum 4 digits				
2	Customer Site Name		Maximum 24 characters				
3	My Area Code		Maximum 6 digits				
	Numbering Plan Type	1	Overall default Numbering Plan, the 1^{st} station digit should be $1 - 4$.				
		2	The station number can be from 100~799.				
		3	Australia Default				
		4	New Zealand Default				
4		5	Italy Default				
		6	Finland Default, Max Station Ports is 60. Stations above Max ports will be displayed "***".				
		7	Max Station Ports 70 Stations above Max ports will be displayed "***".				
		8	The station number can be from 100~ 999.				
5	PRIFIX Usage						
6	System ID reset		System reset				

Table C-1 SYSTEM ID

Table C-2 Numbering Plans

BTN	SUB-MENU	DEFAULT	REMARK			
PGM:	PGM: 102 -System IP Address Plan					
1	MPB Address	10.10.10.2	Public IP Address for H.323 calls			
2	MPB Subnet mask	255.255.255.0				
3	Router IP Address	10.10.10.1	Router IP Address for WAN access			
4	System start IP address	10.10.10.10	Private start address for system to module & terminal communications			
5	System end IP address	10.10.10.254	Private end address for system to module & terminal communications			
6	System Subnet mask	255.255.255.0				
7	Automatic IP Address Assignment	ON				
8	Second System IP Address	0.0.0.0	Second Private IP Address for modules			
9	Second System Net Mask	255.255.255.0	Second Private Sub-net Mask for modules			
10	Firewall IP Address	0.0.0.0	IP Address of firewall for external network (WAN/IP) access			
11	First Start Mac Address	00:00:00:00:00:00	First : Start MAC Address to register a			

	Table C-2 Numbering Plans					
BTN	SUB-MENU	DEFAULT	REMARK			
			device regardless of the 3 rd dip switch			
12	First End Mac Address	00:00:00:00:00:00	First : End MAC Address to register a			
12			device regardless of the 3 rd dip switch			
13	Second Start Mac Address	00:00:00:00:00:00	Second : Start MAC Address to register			
15	Second Start Mac Address		a device regardless of the 3 rd dip switch			
14	Second End Mac Address	00:00:00:00:00:00	Second : End MAC Address to register			
17			a device regardless of the 3 rd dip switch			
15	System IP Address plan Reset		Returns System IP Address Plan to			
10			default values.			
16	Unused	0.0.0.0				
17	Unused	0.0.0.0				
18	MPB DNS IP Address	0.0.0.0				
19	MPB DHCP	OFF				
PGM:	103 Device IP Address Plan		I			
		10.10.10.10~254	Flex 1: Set IP Address			
		-	Flex 2: Set Mac Address			
1	CO/IP Device IP Address	OFF	Flex 3: ARP			
•		MCAST	Flex 4: Registration			
			Flex 5: CPU Type			
			Flex 6: Device ID (type)			
		10.10.10.10~254	Flex 1: Set IP Address			
	Station IP Address	-	Flex 2: Set Mac Address			
2		OFF	Flex 3: ARP			
-		MCAST	Flex 4: Registration			
			Flex 5: CPU Type			
			Flex 6: Device ID (type)			
		10.10.10.10~254	Flex 1: Set IP Address			
		-	Flex 2: Set Mac Address			
3	MISU IP Address	OFF	Flex 3: ARP			
-		MCAST	Flex 4: Registration			
			Flex 5: CPU Type			
			Flex 6: Device ID (type)			
		10.10.10.10~254	Flex 1: Set IP Address			
		-	Flex 2: Set Mac Address			
4	VMIB & VSF IP Address	On	Flex 3: ARP			
		On	Flex 4: Registration			
			Flex 5: CPU Type			
			Flex 6: Device ID (type)			
		10.10.10.10~254	Flex 1: Set IP Address			
			Flex 2: Set Mac Address			
5	MCIB_V IP Address	OFF	Flex 3: ARP			
	_	MCAST	Flex 4: Registration			
			Flex 5: CPU Type			
6	Device ID Address Dist	Suptom Deset	Flex 6: Device ID (type)			
6	Device IP Address Plan	System Reset				
		10.10.10.10~254	Flex 1: Set IP Address			
7	WITB IP Address	-	Flex 2: Set Mac Address			
		OFF	Flex 3: ARP			
		MCAST	Flex 4: Registration			

Table C-2 Numbering Plans

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	Table C-2 Numbering Plans					
BTN	SUB-MENU	DEFAULT	REMARK			
			Flex 5: CPU Type			
			Flex 6: Device ID (type)			
PGM:	104 - CO/IP Device Sequence Number					
	CO/IP Device Sequence Assignment	Next available	Sequence numbers are assigned to the maximum available for the system.			
PGM:	105 - Flexible Station Number, Base 1					
	Flexible Station Number	1~140	Default Numbering Plan Country Code 1.			
PGM:	106 -Flexible Numbering Plan part A, Bas	e 1				
1	Internal Page Zone	301~335				
2	Internal All Call Page	543				
3	Meet Me Page	544				
4	External Page Zone 1	545				
5	Unused					
6	External All Call Page	548				
7	All Call Page (Internal & External)	549				
8	SMDR Account Code Enter	550	SLT			
9	Flash Command to CO Line	551	SLT			
10	Last Number Redial	552	SLT			
11	DND (Toggle On/Off)	553	SLT			
12	Call Forward	554				
13	Speed Dial Programming	555	SLT			
14	Message Wait/Callback Enable	556	SLT			
15	Message Wait/Callback Return	557	SLT			
16	Speed Dial Access	558	SLT			
17	Cancel DND/FWD/Pre-MSG	559	SLT			
18	CO System Hold	560	SLT			
19	Programming Mode Enter Code	561	SLT			
20	Attendant Unavailable	562				
21	Alarm Reset	565				
22	Group Call Pickup	566				
23	Universal Night Answer	567				
24	Account Code	568				
	107 -Flexible Numbering Plan part B, Bas	e 1	- I			
1	Walking COS Code	569				
2	ACD Agent On/Off Duty	571				
3	ACD/UCD Supervisor Login	572				
4	ACD/UCD Supervisor Logout	573				
5	ACD/UCD Help Code	574				
6	ACD/UCD Calls In Queue Display	575				
7	ACD/UCD Supervisor Status Display	576				
8	ACD Supervisor Monitor	577				
9	ACD Reroute Queued Call w/ answer	578				
10	ACD Reroute Queued Call w/o answer	579				
11	Camp-On Answer	621				
12	Call Park Locations	#601~#619				
13	Group Pilot Number	401-440				
14	Station User VSF Features	*66				

Table C-2 Numbering Plans

	Table C-2 Numbering Plans					
BTN	SUB-MENU	DEFAULT	REMARK			
15	Call Coverage Ring	76				
16	Direct Call Pickup	*77				
17	CO/IP Group Access	89				
18	Individual CO/IP Access	88				
19	Retrieve Last Held CO/IP	8*				
20	Retrieve Held Individual CO/IP	8#				
21	Access 1 st available CO Line	9				
22	Attendant Call	0				
23	VM Message Waiting Enable	*8				
24	VM Message Waiting Cancel	*9				
PGM: 1	108 - Flexible Numbering Plan part C, Base	1				
1	1 st Door Open	#*1				
2	2 nd Door Open	#*2				
PGM: 1	109 - Flexible Numbering Plan part D, Base	1				
1	MCID Request	*0				
2	Answering Machine Emulation	564				
3	Unsupervised conference extend code	##				
4	PTT Group login in-out code	#0				
5	ACD Agent Primary Login Code	581				
6	ACD Agent Primary Logout Code	582				
7	ACD Agent Secondary Login Code	583				
8	ACD Agent Secondary Logout Code	584				
9	ACD Wrap-up End	585				
10	TNET Login/out Code	586				
11	Enter Into Conf-Room	59				
12	Enter into Conf-Group	68				
13	Station ICR	587				
14	Pick Up Group Pick-up	588				
15	Emergency Page	589				
16	Remote MEX Control	580				
17	All Group Agent On/Off Duty	58*				
18	SLT ACNR Code	58#				
19	ACD Supervisor Ring Mode	570				
20	Company Directory Name	563				
21	ISDN SUPPLEMENT HOLD	57*				
22	ISDN SUPPLEMENT CONFERENCE	57#				
23	Forced Seize Busy Station/CO	56*				
24	Added Flexible Numbering Plan					
24-1	Override DND/Call forward	56#				
24-2	Cancel Call Back					
24-3	Transfer To VSF Announcement Number	55*				
24-4	CCR	#2				

Table C-2 Numbering Plans

Table C-3 STATION DATA

BTN SUB-MENU		RANGE	DEFAULT	REMARK		
PGM: 110 - Station Type						
1 Station Type 1-8						

	I	Table C-3 STATION	DAIA	
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
2	DSS/DLS MAP	Station		
PGM:	111 -Station Attributes I			
1	Auto Speaker Selection	1: ON, 0: OFF	ON	
2	Call Forward	1: ON, 0: OFF	OFF	
3	DND	0: OFF, 1:ALL, 2:icm call only, 3:co call only	OFF	
4	Data Line Security	1: ON, 0: OFF	OFF	
5	Howler Tone	1: ON, 0: OFF	ON	
6	No Touch Answer	1: ON, 0: OFF	OFF	
7	Page Access	1: ON, 0: OFF	OFF	
8	Speaker/Headset Ring	S/H/BOTH	Speaker	SPKR: Speakerphone
9	Speakerphone/Headset	ON/OFF	Speaker	ON: Speakerphone
10	LCD Display LED	Ring/MWI	MWI	
11	Loop LCR Account	1: ON, 0: OFF	OFF	Station based LOOP LCR authorization option
12	Call Coverage	1: ON, 0: OFF	OFF	
13	Call Coverage Delay Ring	0~9	0	
14	Off-net Forward Disable	0:ENA, 1:DIS	Enable	Off-net Forward Activation (Except USA version)
15	Forced ICM Mode Change	1:ON, 0:OFF	OFF	
16	Active PTT Group	0~9		
17	Station ICM Tenancy Group	1~15	1	
18	VMIU/VMIB Board			Sequence Number
19	SIP User ID Table Index	000-140	000	Index to Station SIP Attributes Table (PGM 126, Web only)
20	Camp on Tone	1: ON, 0: OFF	ON	
21	Serial DSS	1: Disable 0 : Enable	Enable	
22	ICM Dial Tone Source	0: dial tone 1: Int/Ext 1 2: Ext 2 3: VSF 4~8:SLT MOH1~5 9~10:VSF MOH2~3	dial tone	
23	ICM Ring Back Tone Source	0: ring back tone 1: Int/Ext 1 2: Ext 2 3: VSF 4~8:SLT MOH1~5 9~10:VSF MOH2~3	ring back tone	
24	UMS Attach Message	1: ON, 0: OFF	ON	
PGM: 1	12 - Station Attributes II			
1	CO Call Time Tone	1: ON, 0: OFF	OFF	
2	Automatic Hold	1: ON, 0: OFF	ATD:ON Others: OFF	
3	CO Call Time Restriction	1: ON, 0: OFF	OFF	
4	CO Line Access	EN/DIS	ENABLE	

Table C-3 STATION DATA

	Та	able C-3 STATION	DAIA	-
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
5	CO/IP Line Queuing	EN/DIS	ENABLE	
6	COPGM	EN/DIS	DISABLE	
7	Ringing Line Preference	EN/DIS	ENABLE	
8	Speed Dial Access	EN/DIS	ENABLE	
9	UCD Group Service	1: ON, 0: OFF	OFF	
10	Ring Group Service	1: ON, 0: OFF	OFF	
11	Two Way Record	1: ON, 0: OFF	OFF	
12	Message Speed Scroll	0-7	3	Scroll speed for Graphic LCD Key-set
13	Hot Desk Station	1:ON, 0:OFF	OFF	
14	Prefer CO/CO Group	CO Access Code Or CO Group Access Code		
15	Send SLT CLI	1:ON, 0:OFF	ON	Send CLI info to SLT/Soft/Wit phone.
16	ACD Member Priority	0~9	0	
17	ez Attendant Password	1: ON, 0: OFF	OFF	
18	Emergency CO	CO Access Code Or CO Group Access Code	Any CO	
19	Station Account code required	1: ON, 0: OFF	OFF	
20	Auto Call recording	1: ON, 0: OFF	OFF	
21	Call Recording Station	Station number		
22	Voice Mail Back-up	1: ON, 0: OFF	OFF	
23	VM Back-up Station	Station number		
24	VM Back-up Prompt	1: ON, 0: OFF	OFF	
PGM:	113 - Station Attributes III			
1	ADMIN	EN/DIS	ENABLE	
2	VSF Access	EN/DIS	ENABLE	
3	Group Listen	EN/DIS	DISABLE	
4	Override Privilege	EN/DIS	DISABLE	
5	SMDR Hidden Dialed Digits	EN/DIS	DISABLE	
6	Voice Over	EN/DIS	ENABLE	
7	Prime Line	1: HOT, 0: WARM	WARM	
8	Alarm/Door Bell Attribute	EN/DIS	DISABLE	
9	DID Call Wait	1: ON, 0: OFF	ON	
10	Left Message Executive	1: ON, 0: OFF	ON	
11	E & MIC Headset	1: ON, 0: OFF	OFF	For new Soft-Key Key-set
12	En-block Mode	1: ON, 0: OFF	OFF	For new Soft-Key Key-set
13	VSF Message Retrieve	1: FIFO, 0: LIFO	FIFO	
14	VMID Number	Station number	STA#	For adjunct Voice Mail-box id
15	Auto ACD DND	dial-pad digit	0	0=no reason code
16	Fwd if OOS	1: ON, 0: OFF	OFF	
17	Backlight	0~2	busy	0: Off, 1: busy, 2: always on
18	VSF Mail Server IP address	0.0.0.0		
19	VSF Mail Address			Web Admin 132 to modify
20	Block Back Call	1: ON, 0: OFF	OFF	
21	By Pass DTMF	1: ON, 0: OFF	OFF	
22	Proctor Monitor	1: ON, 0: OFF	OFF	

Table C-3 STATION DATA

BTN	SUB-MENU	Table C-3 STATION RANGE		DEMADY
		RANGE	DEFAULT	REMARK
23	VSF Mail Server ID			Web Admin
24	Added Station Attribute (2 nd) VSF Mail Server P/W			Web Admin
24-1 24-2		EN/DIS	ENABLE	Web Admin
24-2	Door Open VSF MSG DD/TM	1: ON, 0: OFF	ON	
24-3			NOT	
24-4	OGM DEST		ASSIGNED	
24-5	VSF DEL MSG	1: ON, 0: OFF	OFF	
24-6	VM PWD CHECK	0: No password 1: PWD only 2: Station number and Password	Station number and password	
24-7	Barge In Mode	0: Disable 1: Monitor 2:Monitor&Join & Disconnect	Disable	
24-8	SLT Flash Mode	0: Transfer 1: Drop 2: Ignore 3: Hold Release	Transfer	
24-9	RLS Cost Display	1: ON, 0: OFF	OFF	
24-10	LDT Table Index	No. of LDT Table	1	
24-11	WEB Call Back	EN/DIS	DISABLE	
24-12	VSF SMTP Security	0-2	0	0 : NO Security / 1 : SSL / 2 : TLS
24-13	VSF SMTP Port	00001-65535	25	
24-14	VSF Sender Mail Address			Web Admin
24-15	Prepaid call	0: OFF 1: ON	OFF	
24-16	Prepaid money	000000 -9999999	0	
24-17	Default VM number			
24-18	SKT mode	0: Default 1: Short 2: Long 3: Far	Default (0)	
24-19	Off hook ring	0: BURST 1: MUTE 2: SYSTEM 3:SILENCE	Refer to System (2)	
24-20	SIP color ring			
24-21	Forced account code	0: OFF, 1: ON	OFF	
24-22	Flexible Bin PGM	0: OFF, 1: ON	ON	
24-23	Station Web level	LEVEL 1 ~ LEVEL 3	LEVEL 1	
24-24	Headset page	1~3 (SPKR/ HEADSET/ Both)	1: SPKR	
PGM: 1	14 - Station Attributes IV			
1	CLIP Display	1: ON, 0: OFF	OFF	

Table C-3 STATION DATA

BTN	SUB-MENU	Table C-3 STATION RANGE	DEFAULT	REMARK
2	COLP Display	1: ON, 0: OFF	OFF	
3	Progress Indication	1: ON, 0: OFF	OFF	
4	CLIR Service	1: ON, 0: OFF	OFF	
5	COLR Service	1: ON, 0: OFF	OFF	
6	Station CLI 1	Max 12 digits	Station No	
7	3.1 kHz Audio	1: ON, 0: OFF	OFF	
8	CLI Name Display	1: ON, 0: OFF	OFF	
9	CLI/IP Redirect Display	1: Red, 0: CLI	CLI	
9 10	CLI Message Wait	1: ON, 0: OFF	OFF	
-	EXT OR ATD			
11		1: ATD,0: EXT	EXT	
12	MSN Wait	1: ON, 0: OFF	OFF	
13	Unused			
14	DID Restriction	1: ON, 0: OFF	OFF	
15	DISA Restriction	1: ON, 0: OFF	OFF	
16	Unused			
17	Modem Enable	1: ON, 0: OFF	OFF	
18	FAST CLI For Transfer Call	1: ORI, 0: TRN	TRN	
19	Unused			
20	PICK UP By Flex Button	1: ON, 0: OFF	ON	
21	Multi Language	Prompt 1 – 6	1	
22	Pre-Sel Msg DND	1: ON, 0: OFF	OFF	
23	Pre-Sel Msg Language	Prompt 1 – 6	1	
24	Added station attributes			
24-1	Station CLI 2	Max 16 Chars	Station No	
24-2	Station CLI 3	Max 16 Chars	Station No	
24-3	Station CLI 4	Max 16 Chars	Station No	
24-4	Station CLI 5	Max 16 Chars	Station No	
24-5	SLT CID type	(0:FSK/1:DTMF)	FSK	
24-6	Wakeup announcement	0-200	0	
24-7	Camp on enable	0: OFF 1: ON	ON	
24-8	Gain table	1–3	1	
24-9	Tone table	1–5	1	
24-10	Digit conversion table	eMG80: 1-15 eMG800: 1-32	0	
24-11	Video on calling	1: ON, 0: OFF	OFF	
24-12	E.164 CLI To	1: ON, 0: OFF	OFF	
24-13	Flexible page	1-3	3 page	
24-14	Align LCD	0-2	0	0: Not align, 1: Left, 2: Right
24-15	Two way recording	0-200	00	
24-16	LDT Zone	001-100	001	
24-17	ECM Fax (T38)	1: ON, 0: OFF	ON	
24-18	Display restrict	1: ON, 0: OFF	OFF	
24-19	Small popup use	1: ON, 0: OFF	OFF	
24-20	Large popup timer	0-5	0	
24-20	MWI LED	0-4	0	0:ALL MWI, 1:VM MWI 2: CLI MWI, 3: SMS MWI 4: ICM MWI
24-22	NFC Auth use	1: ON, 0: OFF	ON	-

Table C-3 STATION DATA

	la	ble C-3 STATION	DATA	
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
24-23	Short Modem	1: ON, 0: OFF	OFF	
PGM:	115 - Flexible Buttons Assignmen	t		
01~ 24	Flexible Buttons Assignment	1: Empty Button		
		2: Station PGM Button		
		3: {Speed Dial xx } Button		
		4: Numbering Plan Button		
		5: Network DSS Number		
		6: MSN Number		
	116 - Station COS			
1	Station COS: Day Ring	1~11	1	
2	Station COS: Night Ring	1~11	1	
3	Station COS: Timed Ring	1~11	1	
PGM:	117 - CO Line/IP Channel Group A			1
	CO/IP Group	01~20	1	
PGM:	118 - Internal Page Zone Access			
	Internal Page Zone Access	001-024	Group 01	
PGM:	119 - PTT Group Access			
	PTT Page Zone	01~10		
PGM:	120 - Preset Call Forward		1	
	Preset Call Forward	1~8 + destination	-	 Unconditional Forward Internal Busy Forward Internal No Answer Forward External Busy Forward External No Answer Forward Voice Mail box Internal DND External DND
PGM:	121 - Idle Line Selection			
	Туре	1~7	-	1: Flex Button 2: CO Line 3: CO Group 4: Station Number 5: Hunt Group 6: Station Speed 7: System Speed
PGM:	122 – Station IP Attributes			
1	Direct IP Call	EN/DIS	ENABLE	
PGM:	123 - Station Timers		1	
1	Station Fwd No-Answer Timer	000~600	000	1 second increments
2	Cur off timer	00~99	00	1 minute increments

Table C-3 STATION DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM:	124 - Linked Pair Station Attribute	S		
1	Set IP Address	XXX.XXX.XXX.XXX		
2	Router IP Address	XXX.XXX.XXX.XXX		
3	Set Mac Address	XX:XX:XX:XX:XX:XX		
PGM:	125 - ICM Tenant Group		·	
1	Group Attendant	Station No.		
2	Group Access	Group 01~15	Group 01	
PGM:	127 – Station VM Attributes	·		
1	VM COS	1-5	1	
2	Administrator Mail Box	EN/DIS	DISABLE	
3	Announce Only Mail Box	EN/DIS	DISABLE	
4	Announce Only Option	Previous Menu Hang Up	Previous Menu	
5	Company Directory – First Name			
6	Company Directory – Last Name			
7	Cascade Mail Box			
8	Cascade Type	1: ON, 0: OFF	OFF	
9	Message Rewind/Fast Forward Time	3-99(SEC)	4	
10	Notify Retry count	00-99	3	
11	Notify Dial time	00-99	5	
PGM:	128 – Station CCR Table		•	
1-10	Station CCR	1-14		
11	CCR table usage	1: ON, 0: OFF	OFF	
12	CCR One Digit	1: ON, 0: OFF	OFF	
13	* Button Used As	0-3	0	
14	# Button Used As	0-3	0	
PGM:	129 - DSS Label Edit			
	LSS Label	LSS index + button		Max 16 char.

Table C-3 STATION DATA

Table C-4 BOARD DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK		
PGM:	PGM: 130 - H.323 VoIP Attributes					
1	H.323 Setup Mode	0~1	Fast	0: Fast/1: Normal		
2	H.323 Tunneling Mode	1: ON, 0: OFF	ON	0:Off/1:On		
3	H.323 DTMF Path	0~1	0: In-band	1:Out/0:In		
4	H.323 DiffServ Pre tagging	00~63	4			
5	RAS Usage	1: ON, 0: OFF	OFF			
6	RAS Multi-cast IP Address	IP address	224.0.1.41			
7	RAS Multi-cast IP port	Port number	1718			
8	RAS Uni-cast IP Address	IP address	82.134.80.2			
9	RAS Uni-cast IP port	Port number	1719			
10	RAS Keep-alive Timer	001 ~ 999	120	1 second increments		
11	RAS Numbering Plan prefix	24 digits				
12	RAS Gateway Id	128 characters		Web Admin only		

Table C-4 BOARD DATA					
BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
13	RAS Light RRQ	1: ON, 0: OFF	OFF		
14	TCP Keep Alive	1: ON, 0: OFF	ON		
15	FAIL OVER USAGE	1: ON, 0: OFF	OFF		
16	Fail over Time	03-10 (Sec.)	5		
17	Fail over Group	01-21			
18	Q931 START PORT	00001-65535	2048		
19	Q931 END PORT	00001-65535	2559		
20	H245 START PORT	00001-65535	2560		
21	H245 END PORT	00001-65535	3071		
22	RAS START PORT	00001-65535	2048		
23	RAS END PORT	00001-65535	3071		
24	H.323 VoIP Attributes				
24-1	MEDIA START PORT	00001-65535	6000		
24-2	MEDIA END PORT	00001-65535	7036		
24-3	DATA START PORT	00001-65535	8500		
24-4	DATA END PORT	00001-65535	8548		
PGM	: 131 -T1/E1/PRI Attributes	1			
1	T1 Setup Mode	0~1	D4	0:D4/1:ESF	
2	T1 Line Mode	0~1	B8ZS	0: B8ZS/1:AMI	
3	PRI Line Mode	0~1	TE	0:NT/1:TE	
4	PRI/E1 CRC Check	1: ON, 0: OFF	OFF		
5	E1 R2 DSP Check	1: ON, 0: OFF	OFF		
6	DCO PX Туре	1: S1240 2: TDX1B 3: STANDARD 4: CONGES_DIS	STANDARD		
PGM	: 132 - Board Base Attributes				
1	Router IP address	IP Address			
2	Device CODEC Type	0-4	4	0: G.711, 1: G.723.1, 2: G.729, 3: G.722 4: System Codec refer to PGM 161-button 9.	
3	Firewall IP address	IP Address			
4	RTP Security	1: ON, 0: OFF	ON		
5	TNET Enable	1: ON, 0: OFF	OFF		
6	UMS Sender e-mail address	40 Characters		Web only to modify	
7	T38 Enable	1: ON, 0: OFF	OFF		
8	USE Board IP for SIP	1: ON, 0: OFF	OFF		
9	RTP firewall IP	IP address			
10	T38 Port Usage	0: DIFF WITH VOICE 1: SAME AS VOICE	0		
		2: TRIGGERING			
11	RFC2833 Payload		0		

Table C-4 BOARD DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
13	RFC2833 Redundancy	1-8	0		

Table C-4 BOARD DATA

Table C-5 CO LINE DATA				
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM:	140 - CO Service Attributes	·		
	CO Service Type	Flex 1~4	1 (Normal)	1: Normal CO line, 2: DID, 3: TIE Line, 4: Unused
PGM:	141 - CO/IP Line Attributes I			
1	CO/IP Group Assignment	01-20		
2	CO Line COS	1~5	1	
3	CO Start Signal	1: Ground, 0: Loop	Loop	
4	CO Line Type	1: PBX, 0: CO	СО	
5	CO Line Signal Type	1: DTMF, 0: Pulse	DTMF	
6	Flash Type	1: Ground, 0: Loop	Loop	
7	Universal Night Answer	1: ON, 0: OFF	OFF	
8	CO/IP Group Auth	1: ON, 0: OFF	OFF	
9	Data Station No	4 digits		FAX/Modem can be assigned to STA
10	Tenancy Group	00~ 15	00	
11	CO VoIP Mode	1~6	Common	1: Common, 2: H.323 only, 3: SIP only, 4: RTP RLY, 5: H.323/TRP RLY, 6: SIP/RTP RLY
12	PROCTOR ON/OFF	1: ON, 0: OFF	OFF	
13	WAIT IF VSF BUSY	1: ON, 0: OFF	ON	
14	Unused			
15	Unused			
16	COL RING TONE	1-12	0	0 is Not Available
17	Unused			
18	Gain table index	1-3	1	
19	Tone table index	1-5	1	
20	Digit conversion table index	01-15	01	
PGM:	142 - CO/IP Line Attributes II			
1	CO Line Name Display	1: ON, 0: OFF	OFF	
2	CO Line Name Assign	12 characters	-	Max 12 character, alpha entry
3	Metering Unit	0~6	0	
4	Line Drop using CPT	1: ON, 0: OFF	OFF	Not Supported
5	DISA Authorization Code	1: ON, 0: OFF	ON	
6	CO Line MOH	0~10	1	0: Refer to System hold, 1: INT Music, 2: EXT music, 3: VSF MOH, 4~8: SLT MOH1~5, 9~10: VSF MOH2~3
7	CO Dial Tone	1: ON, 0: OFF	ON	
8	CO Ring Back Tone	1: ON, 0: OFF	OFF	
9	CO Error Tone	1: ON, 0: OFF	OFF	
10	CO Busy Tone	1: ON, 0: OFF	OFF	
11	DISA CO Access	1: ON, 0: OFF	OFF	

	Table C-5 CO LINE DATA					
BTN	SUB-MENU	RANGE	DEFAULT	REMARK		
12	CO Flash Timer	000~300	050	10 msec. Increments		
13	Open Loop Detect Timer	00~20	04	100 msec. Increments		
14	ICLID Detect Timer	00~20	00	1 sec. Increments		
15	SMS OUTGOING	0: Disable 1: Enable	Disable			
16	SMS RCV STATION					
17	CO Line Dial Tone Source	0: dial tone 1: INT Music, 2: EXT music, 3: VSF MOH, 4~8: SLT MOH1~5, 9~10: VSF MOH2~3	dial tone			
18	CO Line Ring Back Tone Source	0: ring back tone 1: INT Music, 2: EXT music, 3: VSF MOH, 4~8: SLT MOH1~5, 9~10: VSF MOH2~3	ring back tone			
19	REJECT ANONYMOUS	1: ON / 0:OFF	OFF			
20	PREFIX TABLE ID	0-6	0	If prefix table ID is set to 0, then prefix dialing call cannot be applied. If prefix table ID is set to (1-6), then prefix dialing call can be applied with PREFIX DIALING TABLE(PGM 206)		
21	Cut Off Timer	00-99	00	Co base call cut off timer can be set at this field.		
22	DISA Delay Timer	0-9	0			
23	LDT Table Index	1-10	1			
24	DISA Answer Timer	0-9	0			
PGM:	: 143 - ISDN Line Attributes					
1	COLP Table Index		None			
2	CLIP Table Index		None			
3	EN-BLOC Sending	1: ON, 0: OFF	ON			
4	Type Of Number	0~4	International	0: Unknown 1: International 2: National 3: Unused 4: Subscriber		
5	DID Remove digit count	00~99	00	Received digits deleted from left		
6	ТЕІ Туре	1: Auto, 0: Fixed	Auto			
7	ISDN-SS CD/CR	1: ON, 0: OFF	Disable	0: Disable, 1: Deflect, 3: Reroute (Except USA version)		
8	ISDN One Digit Remove	1: ON, 0: OFF	OFF	(For Italy)		
9	Advice of Charge Type	0~5	0	0: None 1: Italy/Spain 2: Finland		

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
				3: Australia 4: Belgium 5: ETSI Standard
10	ISDN Line Type	1: μ-Law, 0: A-Law	µ-Law	
11	Calling Sub-address	1: ON, 0: OFF	OFF	
12	Incoming Prefix Code Insertion	1: ON, 0: OFF	OFF	
13	Outgoing Prefix Code Insertion	1: ON, 0: OFF	ON	
14	International Access Code	Max 4 digit		
15	My Area Code	Max 6 Digits		
16	My Area Prefix Code	Max 4 Digits		
17	CLI Transit Code	1: ORI 0: CFW	CFW	
18	Preserve Name for DID calls	1: ON, 0: OFF	OFF	
19	ISDN Redirecting number	No SVC / ORI/CFW	No SVC	
20	Choice Incoming CLI	Transit Point CLI / Original CLI	Transit Point CLI	
21	Calling Party Numbering Plan	0-6	1	0: Unknown. 1: ISDN / Telephony. 2: Data / Numbering. 3: Telex. 4: National Standard. 5: Private. 6: Reserved.
22	Called Party Numbering Plan	0-6	0	 Unknown. ISDN / Telephony. Data / Numbering. Telex. National Standard. Private. Reserved.
23	Screening Indicator	0-3	0	 User Provided, No Service User Provided, Pass. User Provided, Fail. Network Provided.
24	Added CO line attributes			
24-1	Station CLI Type	Station CLI 1-5	Station CLI 1	
24-2	ISDN PLUS Code	Max 4 digits	-	
24-3	CP/ALERT INBAND	1: ON, 0: OFF	OFF	
24-4	Disconnect INBAND	1: ON, 0: OFF	OFF	
24-5	Bursting to Caller	1: ON, 0: OFF	OFF	
PGM	144 - CO Ring Assignment			
1	Day	Station/Group		Dial 1: Station + Delay (0~9
2	Night Timed Ring	Station/Group		ring cycles) Dial 2: Hunt group Dial 3: VSF announcement (01~70) Dial 4: AA Ring delay Time (00~30 sec.)
PGM	145 - DID Service Attributes			
1	DID Signal	1: Immediate	Wink	

Table C-5 CO LINE DATA					
BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
		2: Wink			
		3: Delayed Dial			
2	DID conversion Type	0-2	1	0: DID Data Conversion (PGM230) 1: call to the valid extension.	
				2: convert with Flex DID Table (PGM231)	
3	DID Digit Receive Number	2-4	3		
4	DID Digit Mask	4 digits	#***		
PGM	146 - DISA Service Attributes				
		Flex 1: Day		Enter VMIB/VMIU	
	DISA (Day/Night/Timed Ring)	Flex 2: Night		Announcement number.	
		Flex 3: Timed			
PGM:	147 - CO Preset Forward Attribute	S			
1	CO Preset Forward Timer	00~99	00	1 second increments	
2	ICLID Ring Table Index	001~250	None		
3	VMID Number	0000~9999	None		
PGM	148 – CO Additional Attribute				
1 0111		0: Disabled			
		1: FSK			
1	CID type	2: DTAS FSK	FSK		
		3: DTMF			
		4: Russian CID			
2	RCID detect	0: LOCAL	ALL		
		1: ALL 0: USER			
3	RCID request	1: AUTO	AUTO		
4	RCID request first delay timer	10-150(10msec)	20		
5	RCID no answer timer	1-300(sec)	20		
6	RCID digit number	4-10	7		
7	RCID request count	1-3	1		
8	RCID request retry delay timer	10-30(10msec)	10		
		0: Disabled			
9	COLLECT CALL BLOCKING	1: Double Answer	Disabled		
4.0		2: With Indication	10		
10	COLLECT CALL ANSWER TIMER	1-250	10		
11	COLLECT CALL IDLE TIMER	1-250	20		
12	Analog line monitoring	ON/OFF 000-255	ON 000		
13	Ring detection register	000-200	000		
PGM:	150 - NA ISDN Line Attributes				
1	Local Exchange Type	1~4	NI 1	1: NI 1 2: NI 2 3: 5 ESS 4: NORTEL	
2	SPID Number	9~23 digits			
3	Directory Number	23 digits			
4	EKTS Mode	1:EKTS /0:NONE	NONE		
E	Type for $1/2/2$	0~5	0	0: Unknown	
5	Type for 1/2/3	0~5	0	1: International	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
BIN		KANOL		
				2: National
				3: Network
				4: Subscriber 5: Abbreviated
				0: Unknown
				1: International
6	Type for 4/5/6	0~5	0	2: National
				3: Network
				4: Subscriber 5: Abbreviated
				0: Unknown 1: International
				2: National
7	Type for 7/8/9	0~5	0	3: Network
				4: Subscriber
				5: Abbreviated
	<u> </u>			0: Unknown
				1: International
				2: National
8	Type for 10/11	0~5	0	3: Network
				4: Subscriber
				5: Abbreviated
				0: Unknown
				1: International
_				2: National
5	Type for 1/2/3	0~5	0	3: Network
				4: Subscriber
				5: Abbreviated
PGM	151 - ISDN CO Line Attributes			
1	T200	1~5 (Sec.)	1	
2	T201	1~5 (Sec.)	1	
3	T202	1~5 (Sec.)	2	
4	T203	5~15 (Sec.)	10	
5	T204	5~15 (Sec.)	10	
6	T302	10~30 (Sec.)	15	
7	T303	1~10 (Sec.)	4	
8	T305	10~60 (Sec.)	30	
9	T308	1~10 (Sec.)	4	
10	T309	1~100 (Sec.)	90	
11	T310	10~60 (Sec.)	40	
12	N200	1%	3	
13	N201	250~300 (bytes)	260	
14	N202	1~5	3	
15	N204	1~5	1	
16	K_Valule	1~5	1	
		1	1	l
	152 - T1 Line Timers Attributes	1.0		1
1	Pause Time	1~9	2	1 sec increments
.,	Release Guard Time	01~60	20	100 msec increments

Table C-5 CO LINE DATA

Table C-5 CO LINE DATA					
BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
3	Dial-Tone Delay Time	02~50	10	100 msec increments	
4	Inter-Digit Time	15~30	15	20 msec increments	
5	Wink Time	07~15	10	20 msec increments	
6	Pulse Rate	0~3	0	0 : 60-40(10pps) 1 : 66-33(10pps) 2 : 60-40(20pps) 3 : 66-33(20pps)	
7	Seize DTC Time	0~127	3	20 msec increments	
8	Release Time	0~127	7	20 msec increments	
9	Address Signaling Type	1:DTMF, 0:Pulse	DTMF		
10	Ring Start Time	2~9	2	100 msec increments	
11	Ring Stop Time	10~60	60	100 msec increments	
12	Collect Digit	1~6	3		
13	Digit Store Time	01~15	15	1 sec increments	
PGM:	: 153 - DCOB CO Line Attributes				
1	Line Status	1~9	6		
2	DNIS Service	1: ON, 0: OFF	OFF		
3	Number of CLI Digits	01-15	10		
4	DCOB Туре	0-2	2		
5	Call Category	1-9	1		
6	DID Digit number	00~32	0		

BTN	SUB-MENU	RANGE	DEFAULT	REMARK			
PGM: 10	PGM: 160 - System Attributes I						
1	Attendant Call Queuing Ring- Back Tone	1: RBT, 0: MOH	МОН				
2	Camp-on, MOH/Ring-Back Tone	1: RBT, 0: MOH	МОН				
3	CO Dial-Tone Detect	1: ON, 0: OFF	OFF				
4	CO Line Choice	0~2	Last	0: Round Robin,1: Last Used, 2: First			
5	DISA Retry Counter	1~9	3				
6	External Night Ring	1: ON, 0: OFF	OFF				
7	Hold Preference	1: Sys, 0: Excl	System	System/Exclusive Hold			
8	Print LCR Converted Digit	1: LCR, 0: User	LCR				
9	Attendant Call Queue Available	1: ON, 0: OFF	OFF				
10	All Attendant PGM '0' Access	1: ON, 0: OFF	OFF	(Except USA version)			
11	Off-Net Prompt Usage	1: ON, 0: OFF	OFF	(Except USA version)			
12	Unsupervised Conf Timer Extension	1: ON, 0: OFF	OFF				
13	ACD Information Print	1: ON, 0: OFF	OFF				
14	Call Log List Number	15 ~ 50	15				
15	Off-net DTMF Tone	1: ON, 0: OFF	ON				
16	Authorization Retry Counter	1~9	3				
17	Conference Room Telephone number	8 digits					

DTN		Able C-6 SYSTE		DEMARK
BTN	SUB-MENU		DEFAULT	REMARK
18	MPB DIFFSERV	00-63	04	
19	UPGRADE MODE	1: FTP, 0: TFTP	FTP	
20	TRANSFER TONE	1: RBT, 0: MOH	RBT	
21	CONF WARN TONE	1: ON, 0: OFF	ON	
22	TLS for WEB	1: ON, 0: OFF	OFF	
23	DUMMY DIAL TONE	1: ON, 0: OFF	OFF	
24	ADDED ATTR		ADDED ATTR	
24-1	SIP STA MODE	0: RTD, 1: PTP	RTD	
24-2	SYS AUTH END CODE	0: OFF, 1: ON	OFF	
24-3	STN VM FEATURE USAGE	0: OFF, 1: ON	ON	
24-4	Remote VM access	0: OFF, 1: ON	ON	
24-5	Transfer Tone usage	0: OFF, 1: ON	OFF	
24-6	LCR Dial tone detect	0: OFF, 1: ON	OFF	
24-7	ICM Call log	0: OFF, 1: ON	OFF	
24-8	ATD password usage	0: OFF, 1: ON	OFF	
24-9	Pickup STA name usage	0: OFF, 1: ON	OFF	
24-10	Display LCR mode	0: OFF, 1: ON	ON	
24-11	Easy 5 wake up usage	0: OFF, 1: ON	OFF	
24-12	WEB login usage	0: OFF, 1: ON	OFF	
24-13	VM MEX notify over LCO	0: DISABLE 1: ENABLE	DISABLE	
24-14	Modem ASC CO line	00-74	0	
24-15	Meet me soft display	0: OFF, 1: ON	ON	
24-16	Device information request interval time	015-255	015	
24-17	Number of CLI Wait list	000-255	000	
PGM: 16	61 - System Attributes II			
1	Off-Hook Ring Signal Type	1: Mute, 0: Burst	Mute	
2	Page Warning Tone	1: ON, 0: OFF	ON	
3	Privacy	1: ON, 0: OFF	ON	
4	Privacy Warning Tone	1: ON, 0: OFF	ON	
5	ACD PRNT Enable	1: ON, 0: OFF	OFF	
6	ACD PRNT Timer	001~255	10	10 second increments
7	ACD Clear after PRNT	1: ON, 0: OFF	OFF	
8	Override 1 st CO Group	1: ON, 0: OFF	ON	
9	Base Codec Type	0-3	G711	0: G711, 1: G.723.1, 2: G.729, 3: G.722
10	G.711 Packetization	10/20/30	20	1 msec increments
11	G.723 Packetization	30/60	30	1 msec increments
12	Network Time/Date	0: DISABLE 1: ISDN CLOCK 2: NTP	DISABLE	(USA version do not support ISDN CLOCK)
13	Incoming Call Toll Check	1: ON, 0: OFF	ON	
14	Web Server TCP port	00001~65535	00080	
15	Web Password Security	1: ON, 0: OFF	OFF	
16	Old Auth. Code Usage	1: ON, 0: OFF	ON	
17	COS 7 on Auth code entry failure	1: ON, 0: OFF	OFF	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
18	Unified Message Format	1: ON, 0: OFF	OFF	
19	Record Warning Tone	1: ON, 0: OFF	ON	
20	Unused			
21	Unused			
22	SMS CENTER NUMBER	23 digits		
23	SMS PROTOCOL	0~8	NONE	0: No PSTN SMS support, 1: ETSI-P1 2: ETSI-P2 3: KT-LivingNet 4: SIP-Text 5: SIP-XML 6: KT-IP-PBX 7: SKN-IP-PBX 8: KT XML
24	ADDED ATTR			
24-1	G.722 PACKETIZATION(1ms)	10/20/30 msec	20	
24-2	Unused			
24-3	SMS CENTER CLI	23 digits		
24-4	TRANSIT-OUT SECURITY	1: ON, 0: OFF	ON	
24-5	EMR CALL ATD NOTIFY	1: ON, 0: OFF	ON	
24-6	Unused			
24-7	FIRST DIGIT * IN SPD	0: DISPLAY SECURITY 1: DIGIT *	DISPLAY SECURITY	
24-8	Strong password	1: ON, 0: OFF	ON	
24-9	VSF/VMIB SMTP PORT	0 – 65535	25	
24-10	ICM BUSY SVC	1: OHVO, 0: INTR	онуо	
24-11	AUTO SAVE NEW MSG	1: ON, 0: OFF	OFF	
24-12	IGMP QUERY USAGE	1: ON, 0: OFF	OFF	
24-13	IGMP INTV_TMR(1sec)	0~3600 (Sec.)	180	
24-14	IGMP QUERY ALL HOSTS	1: ON, 0: OFF	ON	
24-15	IGMP QUERY GENERIC	1: ON, 0: OFF	OFF	
24-16	RING-GROUP INDICATION	1: ON, 0: OFF	OFF	
24-17	RESTRICT * AND #	1: ON, 0: OFF	OFF	
24-18	RESTRICT ANS DGT DISP	1: ON, 0: OFF	ON	
24-19	IP BIND USAGE	1: ON, 0: OFF	OFF	
24-20	ACD MAILSEND WEEKLY SET	0-7	0	
24-21	ACD MAILSEND DAILY SET	00-23		
24-22	ACD DEL AFTER MAILSEND	1: ON, 0: OFF	OFF	
24-23	NEW 5 WAKE UP USAGE	1: ON, 0: OFF	OFF	
24-24	ACD GROUP INDICATION	0: OFF, 1: ON RING, 2: ON LED	OFF	
PGM: 10	62 - System Password			
1	Admin Password	Max 12 digits	-	
2	Maintenance Password	Max 12 digits	-	

Table C-6 SYSTEM DATA					
BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
1	Alarm Enable	1: ON, 0: OFF	OFF		
2	Alarm Contact Type	1: Close, 0: Open	Close		
3	Alarm/Door Bell Mode	1: Alarm, 0: Door-Bell	Alarm		
4	Alarm Signal Mode	1: Repeat, 0: Once	Repeat		
5	Emergency call notification	0: OFF 1: ON	ON		
6	DCOB Fault notification	0: OFF 1: ON	ON		
7	SIP registration fault notification	0: OFF 1: ON	ON		
PGM: 1	64 - Attendant Assignment				
1	Attendant Assignment	Station	1: 100 (1000)	Button 1 : System Attendant Button 2: Main Attendants	
PGM: 1	65 - Multicast RTP / RTCP				
1	Multicast RTP	Flex 1 – 61	8100-8220	Max 4 digit	
2	Multicast RTCP	Flex 1 – 61	8101 - 8221	Max 4 digit	
PGM: 1	66 - DISA COS				
1	Day mode COS	1~11	1		
2	Night mode COS	1~11	1		
3	Timed mode COS	1~11	1		
PGM: 1	67 - DID/DISA Destination		·	·	
1	Busy Destination	Flex 1~4	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt, F4: Announce	
2	Error Destination	Flex 1~4	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt, F4: Announce	
3	No Answer Destination	Flex 1~4	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt, F4: Announce	
4	VSF Prompts usage	Flex 1~5	Flex 1~5: ON	1: ON, 0: OFF	
5	Reroute Busy Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt	
6	Reroute Error Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt	
7	Reroute No Answer Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt	
8	DND Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt	
9	Reroute Net CO busy Destination	Flex 1~3	Flex 1(Tone)	F1: Tone, F2: Attendant, F3: Hunt	
PGM: 16	8 - External Control Contacts				
1	First Contact	1~3	-	1: LBC, 2: Door, 3: Ext. 1,	
2	Second Contact	1~3	-	1: LBC, 2: Door, 3: Ext. 1,	
PGM: 1	69 - LCD Date/Time & Language	Node			
1	Date Display Mode	1: MMDDYY 0: DDMMYY	MMDDYY		
2	Time Display Mode	1: 12H, 0: 24H	12H		

Table C-6 SYSTEM DATA

BTN	SUB-MENU	DIE C-6 SYST	DEFAULT	REMARK
3		00~17		
4	Language Display Mode Weekday Display Mode	0~2	00 (Eng) 0	0 : PGM 169 BTN 1 1 : MM/DD WDY 2 : MM DD WDY
PGM: 1	70 - Flexible Button LED Flashing	Rate		
1	CO Incoming Ring Flashing Rate	00~14	FLASH 30 IPM (2)	
2	CO Transfer Ring Flashing Rate	00~14	FLASH 120 IPM (10)	
3	CO Queue Ring Flashing Rate	00~14	FLASH 240 IPM FLUTTER (6)	
4	CO Recall Ring Flashing Rate	00~14	FLASH 480 IPM FLUTTER (8)	
5	CO I Hold Flashing Rate	00~14	FLASH 30 IPM WINK (12)	
6	CO System Hold Flashing Rate	00~14	FLASH 60 IPM (3)	
7	CO Exclusive Hold Flashing Rate	00~14	FLASH 120 IPM (10)	
8	CO Out-going disabled Flashing Rate	00~14	FLASH 240 IPM FLUTTER (6)	
9	CO incoming call off-net forward Flashing Rate	00~14	FLASH 240 IPM FLUTTER (6)	
10	CO DISA Indication Flashing Rate	00~14	FLASH 240 IPM (5)	
11	CO supplementary call waiting Flashing Rate	00~14	FLASH 240 IPM FLUTTER (6)	
12	CO Supplementary Hold Flashing Rate	00~14	FLASH 480 IPM (7)	
13	DSS button Flashing Rate for CO Ring	00~14	FLASH 30 IPM (2)	
14	DSS button Flashing Rate for ICM all Call	00~14	FLASH 60 IPM (3)	
15	DSS button Flashing Rate for ICM Ring associate	00~14	FLASH 120 IPM (10)	
16	DSS button Flashing Rate for a station in DND	00~14	FLASH 60 IPM (3)	
17	DSS button Flashing Rate for a station in Lock-out	00~14	FLASH 480 IPM FLUTTER (8)	
18	DSS button Flashing Rate for a station in pre-selected message mode	00~14	FLASH 30 IPM (2)	
19	DSS button Flashing Rate for a station in ICM Hold	00~14	FLASH 60 IPM (3)	
20	DSS button Flashing Rate for a station in other case	00~14	FLASH 120 IPM (10)	
21	CIQ #1 Threshold	00~14	FLASH 60 IPM (3)	
22	CIQ #2 Threshold	00~14	FLASH 120 IPM	

DTN		Table C-6 SYST		DEMARK
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
			(10) FLASH 240 IPM	
23	CIQ #3 Threshold	00~14	(5)	
0.1		00.44	FLASH 120 IPM	
24	ACD DND button	00~14	(10)	
25	ACD Warning tone	00~14	FLASH 120 IPM	
	U		(10)	
26	ACD Help Button	00~14	FLASH 120 IPM (10)	
			FLASH 240 IPM	
27	Voice Record button	00~14	(5)	
28	Message Wait button	00~14	FLASH 30 IPM	
20			(2)	
29	DSS Out-of-service state	00~14	FLASH OFF	
			(00) FLASH 60 IPM	
30	On-demand Ring mode	00~14	(3)	
31	Night Ring mode	00~14	FLASH	
51		00~14	STEADY (01)	
32	Timed Ring mode	00~14	FLASH 240 IPM	
			(5)	
33	Auto Ring mode	00~14	FLASH 480 IPM (7)	
	D	00.44	FLASH 60 IPM	
34	Page Hold Button	00~14	(3)	
35	DSS Off duty	00~14	FLASH 120 IPM	
			(10)	
PGM: 1	71 - Music Source			
				00: No BGM
				01: INT Music 02: EXT Music
				03: VSF MOH
				04: SLT MOH1
1	BGM Type	0~10	1	05: SLT MOH2
				06: SLT MOH3
				07: SLT MOH4
				08: SLT MOH5
				09: VSF MOH2 10: VSF MOH3
				00: Hold tone
				01: INT Music
				02: EXT Music
				03: VSF MOH
2	МОН Туре	0~10	1	04: SLT MOH1
				05: SLT MOH2
				06: SLT MOH3 07: SLT MOH4
				08: SLT MOH5
l				09: VSF MOH2

BTN	SUB-MENU	ble C-6 SYSTEN RANGE	DEFAULT	REMARK
		RANCE	DEIAUEI	
3	Int/Ext1 Music	00~12	Romance	10: VSF MOH3 00: ROMANCE 01: TURKISH MARCH 02: GREEN SLEEVE 03: FUR ELISE 04: CARMEN 05: WALTZ 06: PAVANE 07: SICHILIANO 08: SONATA 09: S PRING 10: CAMPANELLA 11: BADINERIE
4	SLT MOH	F1: SLTMOH1 F2: SLTMOH2 F3: SLTMOH3 F4: SLTMOH4 F5: SLTMOH5		12: BLUE DANUBE
5	VSF MOH 2	01-70	N/A	
6	VSF MOH 3	01-70	N/A	
PGM: 17	72 - PBX Access Codes			
1 –4	PBX Access Code	Max 2 digits	-	Maximum 4 PBX access code
PGM: 17	73 - Ringing Line Preference Prio	rity		
1	Transfer CO Call	1~4	1	
2	Recalling CO Call	1~4	2	
3	Incoming CO Call	1~4	3	
4	Queued CO Call	1~4	4	
PGM: 17	4 - RS-232 Port Settings			
1	Baud Rate	1~6	115200	1: Unused 2: 9600 BAUD 3: 19200 BAUD 4: 38400 BAUD 5: 57600 BAUD 6: 115200 BAUD
2	CTS/RTS	1: ON, 0: OFF	OFF	
3	Page Break	1: ON, 0: OFF	OFF	
4	Line Page	001~199	066	
5	XON/XOF	1: XON, 0: XOFF	XOFF	
PGM: 17	75 - Serial Port Function Selectio	n		
	Print Port Selection	Flex 1~2		Flex 1: Select Print Port, Flex 2: Select TCP port
1	Select Print Port		SERIAL1	1-2: Serial, 3-5: dynamic TCP port
1-1	Off-line SMDR/Statistics Print	1~7	SERIAL1	
1-2	Admin Print	1~7	SERIAL1	
1-3	Traffic Print	1~7	SERIAL1	
1-4	SMDI Print	1~7	SERIAL1	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
1-5	Call Info Print	1~7	SERIAL1	
1-6	On-line SMDR Print	1~7	SERIAL1	
1-7	Trace Print	1~5	SERIAL1	
1-8	Debug Print	1~7	SERIAL1	
1-9	ACD Package Print	1~7	SERIAL1	
2	Select TCP port			
2-1	Off-line SMDR/Statistics Print	1-9999	NULL	
2-2	Admin Print	1-9999	NULL	
2-3	Traffic Print	1-9999	NULL	
2-4	SMDI Print	1-9999	NULL	
2-5	Call Info Print	1-9999	NULL	
2-6	On-line SMDR Print	1-9999	NULL	
2-7	Trace Print	1-9999	NULL	
2-8	Debug Print	1-9999	NULL	
2-9	ACD Package Print	1-9999	NULL	
2-10	ISMDR Print	1-9999	NULL	
PGM: 1	76 - Break/Make Ratio			
1	Break/Make ratio	1: 66/33 0: 60/40	60/40	
PGM: 17	7 - SMDR Attributes			
1	SMDR Save Enable	1: ON, 0: OFF	OFF	
2	SMDR Print Enable	1: ON, 0: OFF	ON	ON: Real-time, OFF: On- demand
3	SMDR Recording Call Type	1: LD, 0: ALL	LD	LD: Long Distance, ALL: All
4	SMDR LD Call Digit Counter	07~15	07	
5	Print Incoming Call	1: ON, 0: OFF	OFF	
6	Print Lost Call	1: ON, 0: OFF	ON	
7	Records in Detail	1: ON, 0: OFF	ON	
8	SMDR Dial Digit Hidden	0~9	0	
9	SMDR Currency unit	3 Characters	-	
10	SMDR Cost Per Unit Pulse	6 digits	000000	
11	SMDR Decimal Location	0~5	0	
12	SMDR Start Timer	000~250	000	1 sec increments
13	SMTP Mail Server Address	12 digits		
14	User Mail Address	e-mail address		40 character modify via Web only
	SMDR System Domain Name	18 characters	1	Web only
15	Mail Send Weekly Set	0-7	0	-
16	Mail Send Daily Set	00-23	00	
17	Auto Send Mode	1: ON, 0: OFF	OFF	
18	Auto Delete Mode	1: ON, 0: OFF	OFF	
19	SMDR Long Distance Codes	Flex 1~Flex 5	0	Maximum 5 LD codes, 2 digits each
20	SMDR Ring/CLI/CPN (SVC_1)	0: Ring 1: CLI 2: CPN	RING	For incoming call, 0: Ring Service Time, 1: CLI, 2: CPN, 3: None Dialed number for outgoing call
21	MSN Print on SMDR	1: ON, 0: OFF	OFF	

BTN	SUB-MENU	ble C-6 SYSTE	DEFAULT	REMARK
BIN	SUB-MENU		DEFAULI	REMARK
22	SMDR Ring/CLI/CPN (SVC_2)	0: Ring 1: CLI 2: CPN 3: None	CPN	For incoming call, 0: Ring Service Time, 1: CLI, 2: CPN, 3: None
23	Print Serial No	1: ON, 0: OFF	OFF	
24	SMDR Attributes	01-19		
24-1	Hidden digit location	1: Right, 0: Left	Left	
24-2	SMDR Interface Service	1: ON, 0: OFF	OFF	
24-3	SMDR ICM Save	1: ON, 0: OFF	OFF	
24-4	SMDR ICM Print	1: ON, 0: OFF	OFF	
24-5	SMDR Disconnect Cause	1: ON, 0: OFF	OFF	
24-6	Long Time Call(10min)	000-144	000	
24-7	SMDR No Out Net Call	1: ON, 0: OFF	OFF	
24-8	Unused			
24-9	Unused			
24-10	SMTP Mail Server ID	40 characters		
24-11	SMTP Mail Server PWID	20 characters		
24-12	Transferred Call Charge Rate	0: Individual 1: Integrate Transferring Station 2: Integrate Transferred Station	Individual	
24-13	Attendant Transfer Charge Rate	0: Individual 1: Attendant Charging 2: Transferred Station Charging	Individual	
24-14	SMTP Mail Server Domain Address	100 Character		
24-15	SMTP sender Mail (WEB)	Max 40 Characters	-	
24-16	SMTP security	0-2 (0:No security 1:SSL 2:TLS)	0	
24-17	SMTP port	1-65535	25	
24-18	VSF VM Display	0:'l' 1:'V'	0:'l'	
24-19	Display N type	1:ON, 2:OFF	OFF	
	78 - System Date & Time			1
1	System Time	HH:MM	-	Hour/Minute sequence.
2	System Date	MMDDYY	-	Month/Day/Year sequence
3	DST Enable Mode	0: OFF, 1: ON	OFF	Activate / deactivate DST ability
4	DST Start Time	See DST Table	2 nd Sunday of March at 2:00 AM	Web Only, DST Table format
5	DST End Time	See DST Table	1 st Sunday in Nov. at 2:00	Web Only, DST Table format

	la	ble C-6 SYSTE		
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
			AM	
PGM: 17	79 - Multi-Language Support			
1	1 st language	1: ON, 0: OFF	ON	US
2	2 nd Language	1: ON, 0: OFF	OFF	Korea
3	3 rd Language	1: ON, 0: OFF	OFF	Turkey
4	4 th Language	1: ON, 0: OFF	OFF	Russia
5	5 th Language	1: ON, 0: OFF	OFF	Australia
6	6 th Language	1: ON, 0: OFF	OFF	Germany
PGM: 18	30 - System Timers I		-	
1	ATD Recall Timer	00~60	01	1 min increments
2	Call Park Timer	000~600	120	1 sec increments
3	Camp-On Recall Timer	000~200	030	1 sec increments
4	Exclusive Hold Recall Timer	000~300	060	1 sec increments
5	I-Hold Recall Timer	000~300	030	1 sec increments
6	System Hold Recall Timer	000~300	030	1 sec increments
7	Transfer Recall Timer	000~300	030	1 sec increments
8	ACNR Delay Timer	000~300	030	1 sec increments
9	ACNR Pause Timer	030~300	030	1 sec increments
10	ACNR Retry Counter	1~13	3	
11	ACNR Tone Detect Timer	001~300	030	1 sec increments
12	Automatic CO Release Timer	000~300	030	1 sec increments
13	CCR Inter-digit Timer	000~300	030	100 msec increments
14	CO Restrict Timer	00~99	00	1 minute increments
15	CO Dial Delay Timer	00~99	05	100 msec increments
16	CO Release Guard Timer	010~150	020	100 msec increments
17	CO Ring Off Timer	010~150	060	100 msec increments
18	CO Ring On Timer	1~9	2	100 msec increments
19	CO Elapsed Call Timer	005~900	180	1 sec increments
20	Web Password Guard Timer	001~999	5	1 min increments
21	On hook idle Timer	00~99	0	1 sec increments
22	Call recording repeat time	000~999	0	
PGM: 18	81 - System Timers II	r	-	
1	Call Fwd No Answer Timer	000~600	015	1 sec increments
2	DID/DISA No Answer Timer	000~255	000	1 sec increments
3	VSF User Max Record Timer	000~999	60	1 sec increments
4	VSF Valid User Message Timer	0~9	4	1 sec increments
5	Door Open Timer	05~99	20	100 msec increments
6	ICM Dial Tone Timer	01~20	10	1 sec increments
7	Inter-Digit Timer	01~20	05	1 sec increments
8	Message Wait Reminder Tone Timer	00~60	00	1 min increments
9	Paging Timeout Timer	000~255	015	1 sec increments
10	Pause Timer	1~9	3	1 sec increments
11	3-Soft Auto Release Timer	01-30	10	1 sec increments (Reserved for new keyset)
12	VM Pause Timer	1-90	30	100 msec increments (Except USA version)

	Ia	ble C-6 SYSTI		
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
13	VSF cut error Timer	1-90	00	1 sec increments
14	Unused			
15	Emergency retry timer	00~99	00	
10		(1 sec.)	00	1 sec increments
16	Error tone timer	005~180	30	1 sec increments
		(1 sec.)		
17	Howling tone timer	000~180	30	1 sec increments
		(1 sec.)		
18	Notification play delay	1~99	10	1 sec increments
		(1 sec.) 1~60		
19	Short Modem timer	1~60 (1 sec.)	10	1 sec increments
		(1 sec.)		
	82 - System Timers III			
1	SLT Hook Switch Bounce Timer	01~25	01	100 msec increments
2	SLT Max Hook Switch Flash Timer	01~25	07	100 msec increments
3	SLT Min Hook-flash Timer	000~250	010	10 msec increments
4	Station Auto Release Timer	000~230	060	1 sec increments
5	Unsupervised Conference Timer	000~99	10	1 minute increments
6	Prime Line Delay Timer	01~20	05	1 sec increments
7	Wink Timer	010~200	010	10 msec increments
8	En-block Inter-Digit Timer	01~200	5	1 sec increments
9	DTMF Duration Timer	04~99	10	10 msec increments
10	Flexible DID Timer	01~99	30	100 msec increments
11	Wakeup fail Timer	00~99	20	1 sec increments
12	Prepaid warn timer	00~99	00	1 sec increments
PGM-1	83 -In room indication			
1 - 1	Supervisor			
2	Member 01~20			
PGM: 1	86 - DCOB System Attributes			
1	R2 Out manage Timer	01~50	14	1 sec increments
2	R2 Incoming manage Timer	01~50	14	1 sec increments
3	R2 Disappear Timer	01~50	14	1 sec increments
4	R2 Pulse Timer	01~30	07	20 msec increments
5	R2 Ready Timer	000~500	07	20 msec increments
6	R2 Dial tone Delay Timer	01~30	20	1 sec increments
PGM: 1	95 – NTP Attributes			
		0 : Disable		
1	Network Time/Date	1: ISDN	Disable	TIME SOURCE
		2: NTP		
PGM: 2	53 – VM COS Attributes			
1	Greeting Length	00-99	60	
2	Message Length	000-600	0	
3	Number Of Messages	000-250	0	
4	Retention Time	00-99	0	
5	E-mail Notification	0: OFF	Notification &	

DTN		DANOF		DEMADIZ
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
		1: Notification	Delete	
		2: Notification &		
		Delete		
6	Future Delivery Message	1: ON, 0: OFF	OFF	
7	Confirm Message Receipt	1: ON, 0: OFF	OFF	
8	Private Message Mark	1: ON, 0: OFF	OFF	
PGM: 26	0 – Personal Group			
1	Master Station	Station Range	-	
2	Member Station	Station Range	-	
PGM: 2	61 – Personal Group Attributes			
1	Use Master Wake Up	1: ON, 0: OFF	OFF	
2	Use Master Call Forward	1: ON, 0: OFF	ON	
3	Use Master DND	1: ON, 0: OFF	OFF	
4	Set linked pair	1: ON, 0: OFF	OFF	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM: 19	0 - Station Group Assignment, 401	- 439		
1	Group Type	0~10	0	0: No Assignment 1: Circular 2: Terminal 3: UCD/ACD 4: Ring 5: VM 6: Pick-Up 7: VSF-VM 8: UMS 9: NET-VM 10: UCS
2	Pick-up Attribute	1: ON, 0: OFF	OFF	Not applicable VM group
3	Circular group			
PGM: 1	91 - Station Group Attributes, by G	оир Туре		
CIRCUL	AR GROUP			
1	VSF Announce 1 Timer	000~999	015	1 second increments
2	VSF Announce 2 Timer	000~999	000	1 second increments
3	VSF Announce 1 Location	00~200	00	
4	VSF Announce 2 Location	00~200	00	
5	VSF Announce 2 Repeat Timer	000~999	000	1 second increments
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
7	Overflow Destination	Station/Group/ VSF/Speed	-	
8	Overflow Timer	000~600	180	1 second increments
9	Wrap-Up Timer	000~999	002	1 second increments
10	No Answer Timer	00~99	15	1 second increments
11	Pilot Hunt	1: ON, 0: OFF	ON	
12	Report No Member	1: ON, 0: OFF	OFF	
13	Music Source	00~10	1	00: Ring-back

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
				01: INT Music
				02: EXT Music
				03: VSF MOH
				04: SLT MOH1
				05: SLT MOH2
				06: SLT MOH3
				07: SLT MOH4
				08: SLT MOH5
				09: VSF MOH2
				10: VSF MOH3
14	Member Forward	1: ON, 0: OFF	ON	
15	Mailbox Message Wait Station	Station Number	None	
16	Mailbox Password	12 digits	None	
17	Forced destination	1~4		
18	Forced forward destination usage	1: ON, 0: OFF	OFF	
19	WAIT IF 1ST ANNC BUSY	1: ON, 0: OFF	ON	
20	Group name	20 character		
21	Maximum queue call count	00-99	99	
TERMIN	NAL GROUP			
1	VSF Announce 1 Timer	000~999	015	1 second increments
2	VSF Announce 2 Timer	000~999	000	1 second increments
3	VSF Announce 1 Location	00~200	00	
4	VSF Announce 2 Location	00~200	00	
5	VSF Announce 2 Repeat Timer	000~999	000	1 second increments
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
0	VSF Announce 2 Repeat	Station/Group/	OFF	
7	Overflow Destination	VSF/Speed	-	
8	Overflow Timer	000~600	180	1 second increments
9	Wrap-Up Timer	000~999	002	1 second increments
10	No Answer Timer	00~99	15	1 second increments
11	Pilot Hunt	1: ON, 0: OFF	ON	
12	Report No Member	1: ON, 0: OFF	OFF	
				00: Ring-back
				01: INT Music
				02: EXT Music
				03: VSF MOH
				04: SLT MOH1
13	Music Source	00~10	1	05: SLT MOH2
				06: SLT MOH3
				07: SLT MOH4
				08: SLT MOH5
				09: VSF MOH2
				10: VSF MOH3
14	Member Forward	1: ON, 0: OFF	ON	
15	Mailbox Message Wait Station	Station Number	None	
16	Mailbox Password	12 digits	None	
	Forced destination	1~4		
17				
17 18	Forced forward destination usage	1: ON, 0: OFF	OFF	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
20	Group name	20 character		
21	Maximum queue call count	00-99	99	
UCD/A	CD GROUP			
1	VSF Announce 1 Timer	000~999	15	1 second increments
2	VSF Announce 2 Timer	000~999	000	1 second increments
3	VSF Announce 1 Location	00~200	00	
4	VSF Announce 2 Location	00~200	00	
5	VSF Announce 2 Repeat Timer	000~999	00	1 second increments
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
7	Overflow Destination	Station/Group/ VSF/Speed	-	
8	Overflow Timer	000~600	180	1 second increments
9	Wrap-Up Timer	000~999	000	1 second increments
10	Report No Member	1: ON, 0: OFF	OFF	
11	Music Source	0~10	1	00: Ring-back 01: INT Music 02: EXT Music 03: VSF MOH 04: SLT MOH1 05: SLT MOH2 06: SLT MOH3 07: SLT MOH4 08: SLT MOH5 09: VSF MOH2 10: VSF MOH3
12	ACD Warning Tone	1: ON, 0: OFF	OFF	
13	Alternate Destination	Station/Group /Speed		
14	Supervisor Timer	000~999	030	1 second increments
15	Supervisor Call Count	00~99	00	
16	WAIT IF 1ST ANNC BUSY	1: ON, 0: OFF	ON	
17	Maximum Queued Call Counter	00~99	99	
18	Supervisors	Station	-	Max, 5 station can be supervisors
19	UCD/ACD Station Priority	0~9	0	
20	ACD DND Wrap-up Timer	002~200	010	1 second increments
21	ACD ICLID Usage	1: ON, 0: OFF	OFF	When guaranteed announcement is used
22	ACD Group Name	20 Character	-	
23	ACD CIQ Route	Flex 1 ~ 10		Flex 10 : when caller dial "0" Flex 1~9 : caller digit 1~9 Ex.) When Flex 1 is pressed 1: Station Number 2: Hunt Group Number 3: System Speed Number 4: Network Station Number
24	ACD Sub Attribute	Flex 1-20		
24-1	Zap Tone	1: ON, 0: OFF	OFF	
24-2	Mailbox Message Wait Station	Station Number	None	

Table C-7 STATION GROUP DATA

BTN	SUB-MENU	-7 STATION GF	DEFAULT	REMARK
24-3	Mailbox Password	12 digits	None	
24-3	Call In Queue Display	1: ON, 0: OFF	OFF	
24-4	Forced forward destination usage	1: ON, 0: OFF	OFF	
24-6	Call In Queue #1 Threshold	00~99	10	
24-7	Call In Queue #1 Announcement Location	00~200		
24-8	Call In Queue #1 Page zone	00~15 or 00~40	00	
24-9	Call In Queue #1 Announcement Delay Timer	000~180	015	1 second increments
24-10	Call In Queue #1 Announcement Repeat Timer	000~180	045	1 second increments
24-11	Call In Queue #2 Threshold	00~99	20	
24-12	Call In Queue #2 Announcement Location	00~200		
24-13	Call In Queue #2 Page zone	00~15 or 00~40	00	
24-14	Call In Queue #2 Announcement Delay Timer	000~180	015	1 second increments
24-15	Call In Queue #2 Announcement Repeat Timer	000~180	025	1 second increments
24-16	Call In Queue #3 Threshold	00~99	30	
24-17	Call In Queue #3 Announcement Location	00~200		
24-18	Call In Queue #3 Page zone	00~15 or 00~40	00	
24-19	Call In Queue #3 Announcement Delay Timer	000~180	015	1 second increments
24-20	Call In Queue #3 Announcement Repeat Timer	000~180	005	1 second increments
24-21	Call in Queue Mention	1: ON, 0: OFF	OFF	
24-22	ACD No-answer Timer	000 ~ 180	000	1 second increments
24-23	Member Forward	1: ON, 0: OFF	ON	
24-24	Forward destination	1-4		
RING G	ROUP			
1	VSF Announce 1 Timer	000~999	015	1 second increments
2	VSF Announce 2 Timer	000~999	00	1 second increments
3	VSF Announce 1 Location	00~200	00	
4	VSF Announce 2 Location	00~200	00	
5	VSF Announce 2 Repeat Timer	000~999	000	1 second increments
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
7	Overflow Destination	Station/Group/ VSF/Speed	-	
8	Overflow Timer	000~600	180	1 second increments
9	Wrap-Up Timer	000~999	002	1 second increments
10	Music Source	0~10	1	
11	Maximum Queued Call Counter	00~99	99	00: Ring-back 01: INT Music 02: EXT Music
				03: VSF MOH

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
				04: SLT MOH1
				05: SLT MOH2
				06: SLT MOH3
				07: SLT MOH4
				08: SLT MOH5
				09: VSF MOH2
				10: VSF MOH3
12	Member Forward	1: ON, 0: OFF	ON	
13	Mailbox Message Wait Station	Station Number	None	
14	Mailbox Password	12 digits	None	
15	Forced destination	1~4		
16	Forced forward destination usage	1: ON, 0: OFF	OFF	
17	WAIT IF 1ST ANNC BUSY	1: ON, 0: OFF	ON	
18	Group name	20 characters		
External	VM GROUP			
1	Wrap-Up Timer	000~999	000	1 second increments
2	Put Mail Index	1~4	1	
3	Get Mail Index	1~4	2	
4		1: Circular	Terminal	
4	VM Group Hunt Type	0: Terminal	Terminal	
5	Overflow Timer	000~600	180	1 second increments
6	Overflow Destination	Station/Group or System Speed	-	
7	Forced forward usage	0: OFF / 1: ON	OFF	
8	Forced forward destination	1-4		
9	Group name	20 characters		
10	Server type	0: IPCR 1: 3rd	3rd	
11	Server number	01-10		
12	Member type	0: SIP 1: SLT	SIP	
13	Server capacity	000~140	0	
	P GROUP	-	I	1
1	Auto Pick-Up	1: ON, 0: OFF	OFF	
2	All Group Member Ringing	1: ON, 0: OFF	OFF	
		1. 011, 0. 011	011	I
1	Retention	00 ~ 99	00	1 Day increments
2	Dial time	00 ~ 99	15	1 second increments
3	Group name	20 characters		
	•		1	1
UMS GF			I .	
1	VSF Announce 1 Timer	000~999	15	1 second increments
2	VSF Announce 2 Timer	000~999	000	1 second increments
3	VSF Announce 1 Location	01~70	00	
4	VSF Announce 2 Location	01~70	00	
5	VSF Announce 2 Repeat Timer	000~999	00	
6	VSF Announce 2 Repeat	1: ON, 0: OFF	OFF	
7	Overflow Destination	Station/Group/	-	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
		VSF/Speed		
8	Overflow Timer	000~600	180	1 second increments
9	No Answer Timer	00~99	15	1 second increments
10	Pilot Hunt	1: ON, 0: OFF	ON	
11	Alternate Destination	Station/Group		
12	Hunt Type	1: Circular 0: Terminal	Circular	
13	Wrap-Up Timer	002~999	002	1 second increments
14	Forced forward usage	0: OFF 1: ON	OFF	
15	Forced forward destination	1-4		
16	Group name	20 characters		
UCS GF	ROUP			
	Select UCS	Flex 1		
1	UCS Server	01 ~ 16	1	Only selection 1 is supported
PGM: 1	192 - Pick up Group Assignment			
1	Member assignment	Station	-	

Table C-8 ISDN LINE & ICLID ROUTING DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM:	200 - ISDN Attributes			
1	CO ATD CODE	2 digits	-	
2	CLI Print To Serial	1: ON, 0: OFF	OFF	
3	Display DID info	1: ON, 0: OFF	OFF	
PGM	: 201 - CLIP/COLP Table			
1	CLIP/COLP Table	00~49		
PGM:	: 202 - MSN Table		·	
1	CO range			
2	Index	000~999		Index to PGM 231 Table
3	Telephone number	23 digits		
PGM:	: 203 - ICLID Route Table			
1	Index	001~250	-	The bin no of PGM 204
2	ICLID Telephone number	24 digits	-	
3	ICLID Name	12 characters		
4	ICLID Tone	01~12		2 digits
PGM	: 204 - ICLID RING Assignment Tab	le		
1	Day	Station/Group		Flex 1: Station + Delay (0~9
2	Night	Station/Group		ring cycles)
3	Timed Ring	Station/Group		Flex 2: Hunt group Flex 3: VSF announcement (01~70) Flex 4: AA Ring delay Time (00~30 sec.)
PGM:	205 - PPP Attributes	•		
1	PPP Destination Station number	Station Number	None	

Issue 1.6

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
2	PPP User ID 1	12 Characters	likppp01	
3	PPP Password 1	12 Characters	lpkts01	
4	PPP User ID 2	12 Characters	likppp02	
5	PPP Password 2	12 Characters	lpkts02	
6	Server IP address	IP address		
7	Client IP address	IP address		
PGM	: 206 - PREFIX Dialing Table Attribu	tes		
1	PREFIX CODE	Max. 8 digits	-	
2	TABLE ID	0-6	0	
3	MIN DIGIT	00-30	0	
4	MAX DIGIT	00-30	0	
5	NUM OF TYPE	0-6	0 (UNKNOWN) 0 (UNKNOWN)	0:Unknown 1:International 2:National 3:Network Spec. 4:Subscriber 5:Abbreviated 6:Reserved 0:Unknonw 1:ISDN/Telephony 2:Data numbering 3:Telex 4:National standard 5:Private
7	SENDING COMPLETE	1:ON / 0:OFF	OFF	6:Reserved
8	CALL CHARGE TYPE	0-5	0 (UNKNOWN)	0:Unknown 1:Local 2:Long Distance 3:International 4:Mobile 5:reserved
9	CALL CHARGE TIMER	000-999	000	
10	Prefix table			

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM:	220 - LCR Control Attributes			
1	LCR Access Mode	1~6	M00	1: M00 2: M01 3: M02 4: M11 5: M12 6: M13
	Set the Day of week zone			
2	1	MON	1~3	1
2	2	TUE	1~3	1
	3	WED	1~3	1

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
	4	THUR	1~3	1
	5	FRI	1~3	1
	6	SAT	1~3	1
	7	SUN	1~3	1
	Set the Time Zone of Day zone1			
0	1	00~24		
3	2	00~24		
	3	00~24		
	Set the Time Zone of Day zone1			
4	1	00~24		
4	2	00~24		
	3	00~24		
	Set the Time Zone of Day zone1			
5	1	00~24		
5	2	00~24		
	3	00~24		
PGM	: 221 - LCR Leading Digit Table			
1	LCR Type	1~3	Both	1: Internal 2: CO Line, 3: Both
2	Code (leading digit)	Max. 12 digits	-	
3	Day Zone 1 DMT	6 digits		Time Zone 1~3: 2 digits each
4	Day Zone 2 DMT	6 digits		Time Zone 1~3: 2 digits each
5	Day Zone 3 DMT	6 digits		Time Zone 1~3: 2 digits each
6	Check Password	1: ON, 0: OFF	OFF	LCR code authorization
PGM	: 222 - LCR Digit Modification Table	9		
1	Added Digit	Max. 25 digits		
2	Removal Position	01~12	01	
3	Number of Remove digits	00~12	00	
4	Add Position	01~13	01	
5	CO/IP Group	01-21	01	
6	Alt Index	00~99	-	
7	Net num plan bin	000~251		
8	SMDR code	4 digit		
PGM	: 223 - LCR Table Initialization			
1	DMT Of Day zone 1	6 digits		Time Zone 1~3: 2 digits each
2	DMT Of Day zone 2	6 digits		Time Zone 1~3: 2 digits each
3	DMT Of Day zone 3	6 digits		Time Zone 1~3: 2 digits each
4	CO Group Init	01-21		
5	Alt Index Init	00~99		
6	Initialize All LCR			
PGM	: 224 - TOLL Table			
1	Allow Table A (01~50)	Max. 20 digits	-	
2	Deny Table A (01~50)	Max. 20 digits	-	
3	Allow Table B (01~50)	Max. 20 digits	-	
4	Deny Table B (01~50)	Max. 20 digits	-	
5	Allow Table C (01~50)	Max. 20 digits	-	
	```	Max. 20 digits		

	I	able C-9 TABLI	<u>S DATA</u>	
BTN	SUB-MENU	RANGE	DEFAULT	REMARK
7	Allow Table D (01~50)	Max. 20 digits	-	
8	Deny Table D (01~50)	Max. 20 digits	-	
9	Allow Table E (01~50)	Max. 20 digits	-	
10	Deny Table E (01~50)	Max. 20 digits	-	
PGM	: 226 - Emergency Code Table	-		
-	Emergency Code Table (01~10)	Max. 15 digits		
PGM	: 227 - Authorization Code Table			
_	Table entry	Max. 12 digits		Flex 1: Station Flex 2: System
1	Station Authorization code			
1-1	Station Authorization code	Max. 12 digits		
2	System Authorization code	001~360		
2-1	System Authorization code	Max. 12 digits		
2-2	Set COS	Flex1~3		
PGM	: 228 - Customer Call Routing Tabl	e		
	CCR Table index	01 ~ 70		
	Select Flex 1 ~ 14	Station	-	<ul> <li>2: Hunt Group</li> <li>3: System Speed</li> <li>4: PABX Xfer</li> <li>5: VSF Announcement</li> <li>6: Call Disconnect</li> <li>Announcement</li> <li>7: Route to Networked Station</li> <li>8: Conference Room</li> <li>9: Internal Page</li> <li>10: External Page</li> <li>10: External Page</li> <li>11: All Call Page</li> <li>12: Voice Mail (Station Group</li> <li>13: Company Directory (USA Only)</li> <li>14: Record VM Greeting (USA Only)</li> </ul>
	: 229 - Executive/Secretary Pairs Executive/Secretary Pair	Station	36 entries	
1 2	CO Call to Secretary	Station ON/OFF	OFF	
2	Co Call to Secretary Call to Exec if Secretary in DND	ON/OFF ON/OFF	OFF	
4	Executive grade	01 ~ 12	12	
5	ICM call to SEC	0: OFF 1: ON	OFF	
6	SEC auto answer	0: OFF 1: ON	OFF	
7	EXEC GROUP	00-50	00	
PGM	: 231 - Flexible DID Conversion Tal	ble		
1	DID Destination Name	11 characters	-	
	Day Destination	1~15	-	1: station
2			1	1. 5141011
2	Night Destination	1~15	-	2: group

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
5	Reroute Destination	1~15	-	4: PBX Xfer 5: VSF 6: VSF & Disconnect 7: Networked Station 8: Conference Room 9: Int Page 10: Ext Page 11: All Page 12: VM 13: ICLID Table 14: Company Directory (USA Only) 15: Record VM Greeting (USA Only)
6	Use ICLID	ON/OFF	OFF	
7	Auto Ring Table	(00-16),16:N/A	N/A	
8	МОН	00-10	00	
9	Ring Tone	(00-12), 0:N/A	N/A	
PGM	: 232 - System Speed Zone			
1	Speed Bin Range in Zone	2200~4999	2200~4999	
2	Station Range	100~239	100~239	
3	Toll Checking	1: ON, 0: OFF	ON	
4	Authorization check	1: ON, 0: OFF	ON	
PGM	233 Auto Ring Mode Assignment	(Day/Night/Timed	RING) Table	·
1	Monday Timer	0000~2359		
2	Tuesday Timer	0000~2359		
3	Wednesday	0000~2359		Assign Day, Night and Timed
4	Thursday	0000~2359		start times Default 0900, 1800,
5	Friday	0000~2359		none
6	Saturday	0000~2359		
7	Sunday	0000~2359		
PGM	: 234 - Voice Mail Dial Table			
1	VM dial codes 1	12 digits	P#	1: Prefix/2: Suffix/Any digits
2	VM dial codes 2	12 digits	P##	1: Prefix/2: Suffix/Any digits
3	VM dial codes 3	12 digits	P#*3P	1: Prefix/2: Suffix/Any digits
4	VM dial codes 4	12 digits	P#*4P	1: Prefix/2: Suffix/Any digits
5	VM dial codes 5	12 digits	P#*5P	1: Prefix/2: Suffix/Any digits
6	VM dial codes 6	12 digits	P#*6P	1: Prefix/2: Suffix/Any digits
7	VM dial codes 7	12 digits		1: Prefix/2: Suffix/Any digits
8	VM dial codes 8	12 digits		1: Prefix/2: Suffix/Any digits
9	VM dial codes 9	12 digits	****	1: Prefix/2: Suffix/Any digits
PGM:	235 – MAC Registration Table			
1	Mac Address Information		-	
2	Max port of device	00~99	0	
3	Device ID	0~255	0 (N/A)	
PGM	236 - Mobile Extension Table			
1	Program Authority	1: ON, 0: OFF	OFF	

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
2	Access Authority	0: Disable 1: Mobile EXT. 2: Fail over	Disable	
3	CO Group	01-20	01	
4	Telephone number			
5	Mobile extension CLI			
6	Hunt Call enable	1: ON, 0: OFF	OFF	
7	VSF Notify	1: ON, 0: OFF	OFF	
8	Notify Retry	1 to 9 Times	3 Times	
9	Retry Interval	1 to 3 minute	3 minute	
10	Notify by My CLI	0: OFF, 1: ON	OFF	
11	Call back	0: OFF, 1: ON	OFF	
12	Delay timer	000~255	0	
13	Announcement	0~200	0	
14	Suffix DID table	0: OFF, 1: ON	OFF	
PGM:	250 –Hot Desk Attributes		-	
1	Number of Agents	000~140	000	
2	View Agent Range		N/A	
3	Auto Logout Timer	00~24	00	1 hours increments
PGM:	252 –CO Call Rerouting			
1	Enable CRR	1: ON, 0: OFF	OFF	
2	Init CRR			
3	CRR attributes	000~169		
3-1	Compare CO group	01~20	01	
3-2	Receive digit	Max. 12 digits		
3-3	CO+TEL number	Max. 20 digits		
3-4	Туре			
PGM:	270 –Digit conversion table			
1	Apply time	0: Unconditional 1: Follow DNT 2: Follow LCR	Unconditional	
2	Dialed digit	Max. 24 digits		
3	Unconditionally changed	Max. 24 digits		
4-15	Changed digit	Max. 24 digits		
16	Ring mode table	00–15, none	0	
17	Apply option	0: All 1: Reserved 2: CO line 3: Disable	All	

#### Table C-10 NETWORKING DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
PGM:	PGM: 320 - Network Basic Attributes				
1	Networking Enable	1: ON, 0: OFF	OFF		
2	Retry Count	00~99	00		
3	CNIP Enable	1: ON, 0: OFF	ON		

BTN	SUB-MENU	C-10 NETWOR	DEFAULT	REMARK
4	CONP Enable	1: ON, 0: OFF	OFF	
4 5	Signal Method	1: FAC, 0: UUS	FAC	
6	CAS Enable	1: ON, 0: OFF	OFF	(Not used)
7	VPN Enable	1: ON, 0: OFF	OFF	(Not used)
8	CC Retain Mode	1: ON, 0: OFF	OFF	(Not used)
	: 321 - Network Supplementary Att	1	DEDOUTE	
1	Transfer Mode	1: REROUTE 0: JOIN	REROUTE	
2	TCP Port for BLF	0.000~9999	9500	
3	UDP Port for BLF	0000~9999	9501	
4	BLF Manager IP Address	IP address	0.0.0.0	(#: Skip)
5	Duration of BLF STS	01~99	10	100 ms increments
6	Multicast IP Address	IP address	0.0.0.0	(#: Skip)
7	Transfer Fault Recall Timer	001~300	10	1 second increments
8	VoIP Call Reroute	00~20	00	
9	BLF service usage	1: ON, 0: OFF	ON	
	: 322 - Network CO Line Attributes		-	
1	Network CO Line Group	00~24	00	CO group programming for
I	Network CO Line Group	00~24	00	Networking call between systems.
2	Net CO Line Type	0: PSTN	PSTN	,
		1: NET		
PGM	: 324 - Network Numbering Plan Ta	able		
1	System Use	0: NET	NET	
		1: PSTN		
2	Numbering Plan Code	16 digits	-	
3	Numbering Plan Net CO Group	00~24		
4	CPN Information	Flex 1~2	-	
5	Alternate Speed Bin	2000~4999	-	
6	Destination MPB IP Address	IP address	0.0.0.0	(Skip: #)
7	Destination MPB Port No	0000-9999	5588	
8	Digit Repeat	0: NO, 1: YES	NO	
9	Net PSTN En-block	0: NO, 1: YES	NO	
10	CO ATD code CLI	1: ON, 0: OFF	OFF	
11	Firewall	1: ON, 0: OFF	OFF	
12	AUTHO CODE COS USE	0: NO, 1: YES	NO	
13	SMDR DIAL HIDDEN	0: NO, 1: YES	NO	
14	NET PSTN CLI	0: NET 1: PSTN	NET	
15	Site name	Max.12		
16	Emergency reroute	characters 00~10	00	
PGM 1	: 325 - Network Feature Code Net Feature Code	16 digite	_	
2	Net Feature Code Net Feature Destination	16 digits 1~6	-	
2		1~0	-	1 : INT PAGE
				2 : EXT PAGE
				3 : ALL CALL PAGE
				4: DOOR OPEN

## **Table C-10 NETWORKING DATA**

## Table C-10 NETWORKING DATA

BTN	SUB-MENU	RANGE	DEFAULT	REMARK
				5:Conference Room (1-9) 6:Call park (01-19)

## Table C-11 Zone Holiday Assignment

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
PGM:	PGM: 444 – Zone Holiday Assignment				
1	Ring Mode	0:DAY 1: NIGHT 2:TIMED 3: N/A	TIMED		
2	Vacation	12 digits	-		
3	Holiday	4 digits	-		

## Table D-12 Green Mode Activation

BTN	SUB-MENU	RANGE	DEFAULT	REMARK	
PGM:	500 – Green Mode Activation				
1	Power Save Usage	0: Disable 1: Enable	Disable		
2	Power On/Off	0: OFF 1: ON	ON		
3	Power Save Mode	Flex 1~6	-		
4	Power Current State	Flex 1~6	-		
PGM:	PGM: 501 – Green Mode Time Setting				
1	Power ON Time				
2	Power OFF Time				

#### Table C-13 INITIALIZATION

ITEM	DESCRIPTION	REMARK				
PGM: 450 -	PGM: 450 - Initialization					
1	Flexible Numbering Plan					
2	Station Data					
3	CO Line Data					
4	System Data					
5	Station Group Data					
6	ISDN Data					
7	System Timer Data					
8	Toll Table Data					
9	LCR Table Data					
10	Other Tables					
11	Flexible Button Data					
12	Network					
13	All Data					
14	System Reset					
15	Unused					

## Table C-13 INITIALIZATION

ITEM	DESCRIPTION	REMARK
16	Personal Group	
17	Default Password	

## Table C-14 PRINT-OUT DATABASE

ITEM	DESCRIPTION	REMARK
1	Flexible Numbering Plan	
2	IP Setting Plan	
3	Station Data	Enter station range
4	CO Line Data	Enter CO range
5	System Data	
6	Station Group Data	
7	ISDN Data	
8	System Timer Data	
9	Toll Table Data	
10	LCR Table Data	
11	Other Tables	
12	Nation Specific Data	
13	Flexible Button Data	Enter station range
14	All Data	
15	LCD Message	
16	QUIT Print Out	
17	String Length	10 or 20 character
18	Board Base Attributes	
19	Networking Table	
20	Hotel Data	
21	String Length	
22	Working LCD Print-out	

#### Table C-15 VIRTUAL DIP SWITCH

BTN	SUB-MENU	RANGE	REMARK		
PGM:	PGM: 452 - Virtual Trace Dip Switch Access				
1	Call Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
2	VoIP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
3	HTTP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
4	Multicast Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
5	CTI Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
6	Raw Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
7	MPMP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)		
8	CPU Redundancy Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if		

BTN	SUB-MENU	RANGE	REMARK
			trace is ON)
9	MISU/VMIU Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
10	DSP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
11	SIP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
12	ISMDR Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
13	SIP MSG Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
14	FULL SIP Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
15	Hotel Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
16	SIP EXT Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
17	DEBUG Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
18	IPATD Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
19	ISDN Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
20	SPI Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
21	DECT Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
22	HTTPXML Trace	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
PGM:	453 - Virtual Dip Switch Access		· · · · ·
1	Device Polling	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
2	SMDI Setting	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
3	Multicast LED	ON/OFF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is ON)
4	Auto Negotiation	MANUAL/AUTO	Press Flex Button (Toggle: ON/OFF, LED lights if trace is Manual)
5	Full or Half duplex	FULL/HALF	Press Flex Button (Toggle: ON/OFF, LED lights if trace is HALF)
6	100 M or 10 M Tx/Rx bps	100/10	Press Flex Button (Toggle: ON/OFF, LED lights if trace is 10 M bps)

Table C-15 VIRTUAL DIP SWITCH

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BTN	SUB-MENU	RANGE	DEFAULT	REMARK
PGM:	PGM: 491 - DECT ATTRIBUTES			
1	AUTO CALL RLS	ON/OFF	OFF	
2	BASE FAULT ALARM	Enable/Disable	Disable	
3	CHAIN FAULT ALARM	Enable/Disable	Disable	

## Table C-16 DECT DATA

## Table C-17 NATION SPECIFIC

BTN	SUB-MENU	RANGE	REMARK		
PGM: 4	PGM: 400 - IP Phone (H/S) Receive Gain Control				
-	IPKT Rx Gain	Flex 1-8			
PGM:	PGM: 401 - IP Phone (H/F) Receive Gain Control				
-	IPKT Rx Gain	Flex 1-8			
PGM:	402 - SLT Receive Gain Control				
-	SLT Rx Gain	Flex 1-8			
PGM:	403 - ACO Receive Gain Control				
	ACO Rx Gain	Flex 1-8			
PGM:	404 - DCO Receive Gain Control				
	DCO Rx Gain	Flex 1-8			
PGM:	422 - Tone Generation Gain				
	Tone Generation Gain	01-37			
PGM:	423 - ACNR Tone Cadence				
	ACNR Tone Cadence	1-5			
PGM:	424 - ACNR Ring Frequency				
	ACNR-Ring Frequency	1-5			
PGM:	425 - SLT Tone Cadence				
	SLT Tone Cadence	1-2			
PGM:	426 - DTMF PCM Tone Generation	Gain			
	DTMF PCM Tone Generation Gain	1-5			
PGM:	427 - DTMF RTP Tone Generation	Gain			
	DTMF RTP Tone Generation Gain	1-4			
PGM:	PGM: 429 - LCOB Configuration				
	LCOB Configuration Type	1-5			
PGM: 480 - WIT Phone Rx Gain Control					
	WIT Rx Gain	Flex 1-14			
PGM: 481 - WIT Phone Tx Gain Control					
	WIT Tx Gain	Flex 1-14			
PGM:	PGM: 496 - DKT Phone (H/S) Rx Gain Control				
	DKT(H/S) Rx Gain	Flex 1-13			
PGM: 497 - DKT Phone (H/S) Tx Gain Control					
	DKT(H/S) Tx Gain	Flex 1-13			

## **Table C-17 NATION SPECIFIC**

BTN	SUB-MENU	RANGE	REMARK
PGM: 498 - DKT Phone (H/F) Rx Gain Control			
	DKT(H/F) Rx Gain	Flex 1-13	
PGM: 499 - DKT Phone (H/F) Tx Gain Control			
	DKT(H/F) Tx Gain	Flex 1-13	

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