SAMSUNG
DCS

COMBINED PROGRAMMING MANUAL

for
DCS
DCS COMPACT
DCS COMPACT II
DCS-816
DCS-408
DCS-408i

SAMSUNG TELECOMS

Publication Information

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Part No.:12623 Version 2.0

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EU Declaration of Conformity (RTTE)

Samsung Electronics Co., Ltd.

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(factory name, address)

declare under our sole responsibility that the product

Digital Keyphone System "DCS"

to which this declaration relates is in conformity with

RTTE Directive 1999/5/EC (Annex II)
Low Voltage Directive 73/23/EEC
EMC Directive 89/336/EEC:92/31/EEC

CE

By application of the following standards

EN55022 : 1998 Inc A1: 2000*

EN61000-3-2:1995 Inc. A1/A2:1998

EN61000-3-3:1995, EN61000-4-2:1995 Inc. A1:1998, EN61000-4-3:1996 Inc. A1:1998

EN61000-4-4:1995, EN61000-4-5:1995, EN61000-4-6:1996, EN61000-4-8:1993

EN61000-4-11:1994, AS/NZS3548:1995

EN60950 ; 1992+A1+A2+A3+A4+A11

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2001-03-31 TE Jang

(place and date of issue)

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For other directives relevant to DCS Compact II, DCS-816, DCS-408 and DCS-408i systems, refer to the Samsung website at:

www.samsung-telecoms.co.uk

Contents

Part

Part 1. Introduction to Programming

This manual describes the MMC programming required for the following types of Samsung DCS keyphone system:

- DCS
- DCS Compact (Compact I)
- DCS Compact II
- DCS-816
- DCS-408
- DCS-408i.

In this manual, these systems are referred to as “DCS,” “Compact I (CI),” “Compact II (CII),” "816," "408" and “408i” respectively. Programming requirements for these system types are generally the same, but occasionally there are differences. Users of 408 and 408i systems should also read *Programming DCS-408 and 408i Systems* in section 1.5.4 of this manual. Unless otherwise stated, references to “DCS” include Compact I systems.

The different system types are discussed fully in the separate Samsung *General Description* manuals for each system, where these have been published.

Software Version Numbers
The software version numbers of the systems for which this programming manual is relevant are: DCS and Compact II = V6.10 or later; 816 = V1.09 or later; 408 and 408i = 1.04 or later.

1.1 Using This Manual

- It is recommended that you read the whole of Part 1 of this manual which provides a useful overview to MMC programming procedures.

- For a comprehensive list of available MMCs, see Part 2.

- For quick reference, Part 2 also provides a table listing the default settings for each MMC and indicating which systems can use each MMC. A “Y” (“Yes”) in the appropriate column indicates that it can be used for that system.

- To quickly check allowed configuration settings for each type of system—number of trunk group members, card port numbers, and so on—see section 2.3 *System Configuration: Quick Reference* in Part 2.

- To begin programming, refer to the appropriate MMC(s) in Part 4. Check the selected MMC header bar to make sure the program is available on your system, if you haven’t already done so.

- Refer to Part 3, *Special Applications*, for further information on voice mail / auto attendant integration, individual station paging, CLIP (Calling Line Identification Presentation), toll restriction (call barring) and So programming.

1.2 Programming Overview

When the keyphone system arrives from the factory it contains default data. This needs to be customised, using the MMC programs, to suit the customer's requirements.

MMC stands for Man Machine Code and each MMC is assigned a three-digit code (100, 101, and so on). These MMCs are used to view, create or change customer data on a display keyphone (called KMMC programming). For example, MMC 601 is used to create a station group; system speed dial numbers are entered in MMC 705; key functions are assigned to individual keyphones (or "keysets") using MMC 722; and system dialling codes (such as extension numbers and feature codes) can be changed in MMC 724.

1.3 Programming Levels

There are three levels of programming: System level, Customer level and Station level. System and Customer levels allow system-wide programming and are under passcode protection to restrict access. System programming is done by the system installer (or system technician), usually on a one-off basis, but also to manage any changes in the customer's requirements. Customer programming is done by the system administrator, on a day to day basis, to manage station users' requirements. Station level programming does not require a passcode, allowing station users to make simple changes to their keyset features.

To prevent conflicting data from being entered, only one person at a time can enter System or Customer programming. If you attempt to enter programming mode while another keyset is being used for programming, your display shows [xxx PGM MODE] where "xxx" is the keyset extension number of the station in programming mode. *While programming is in progress, normal system operation is not affected.*

1.3.1 System Level

This level is entered via MMC 800 and requires the installer's (technician's) passcode. This is the highest level and allows access to all system programs, station programs and maintenance programs. The installer (sometimes called the installing technician) also decides which programs are accessible to the customer (the system administrator) at Customer level.

- *All MMCs are accessible at this level.*

1.3.2 Customer Level

This level is entered via MMC 200 and requires the customer's passcode. It allows access to station programs and system programs permitted by the system installer in MMC 802. When the system administrator uses the customer passcode to access station programs, data for all stations can be viewed or changed. Changes can be made either system-wide or to selected keysets. (The system administrator should also refer to the *System Administration* manual for their keyphone system if this is available.)

- *Accessible MMCs at this level are designated by the installer.*

1.3.3 Station Level

The system administrator or keyset user can access certain programs at a station without using a passcode. At this level, only data for the selected station can be changed. You should refer to the instructions provided in the *Samsung DCS Keyset User Guide.*

- *Accessible MMCs at this level are nos. 100–121.*

1.4 Keys Used for Programming

Programming may be done from any 6-button (6B), 12-button (12B) or 24-button (24B) keyset with a liquid crystal display (LCD). (Refer to the *Samsung DCS Keyset User Guide* for a full description of keyset operation.)

1.4.1 Soft Keys

The three keys directly below the LCD are called soft keys. The left-hand soft key is designated as the LEFT soft key. This key is used to save any changed data while programming, or to move the cursor to the left on the LCD.

The right-hand soft key is designated as the RIGHT soft key. This key is used to save any changed data while programming, or to move the cursor to the right on the LCD.

DCS Euro Display Keysets

1.4.2 Other Keys

The following keys perform special functions:

VOLUME UP (+) / DOWN (–)	Scroll up/down through available options*
KEYPAD	Enter data using keys 0–9 and ✻, and dial options*
HOLD	Clear previous entry
ANS/RLS	Select “ALL” option (e.g. to make data apply to all, rather than selected, stations)
SPEAKER	Store data and advance to next MMC
TRSF	Enter programming mode or Store data and exit programming mode

* Note: Many MMCs allow you to dial codes using the keypad to select options quickly. Alternatively, you can press the VOLUME Up and Down keys (+ and –) to scroll through and select options. Use whichever method you prefer.

The 6, 12 or 24 extra programmable keys can be set up to perform specific functions when pressed during normal operation. During programming, some of these keys also perform other specific functions. This is described in the individual MMC program procedure where applicable.

1.5 Programming Procedures

1.5.1 Precautions When Programming

- The keyset must be on-hook (handset down) to allow programming.
- Programming is available on any digital keyset with an LCD.
- Programming is available only on digital telephones (not analogue ones).
- If 'INVALID DATA' appears in the LCD while programming, you should re-enter the correct data.
- When you have successfully completed an entry, the LCD automatically changes for the next step.
- Programming halts if you have not pressed a key for a certain period of time (30 seconds by default, but this can be changed).
- Programming halts if you pick up the handset while programming.
- If you pick up the handset while programming, or the telephone plug is pulled out, any new data shown in the LCD are saved.

IMPORTANT
When installing and programming a 'default' system for the first time:

The system requires that you select the correct software version for your country (e.g. by selecting "UK") before you can do any other programming via either a keyphone (KMMC programming) or a PC (PCMMC programming).

To select the country:

1. Press the TRSF key.
2. Enter 800 followed by the default passcode (4321)

The system sounds a warning and displays on the keyset:

ENABLE TECH. PROG SELECT COUNTRY

Use the VOLUME Up/Down keys to select the country and press the RIGHT soft key. The keyset displays:

DEFAULTING SYSTM ARE YOU SURE? NO

Use the VOLUME Up/Down keys to select YES and press the RIGHT soft key. When defaulted to the correct version, you can open programming as described next. The country version selected can be changed in MMC 812, *Select Country*.

1.5.2 Opening System or Customer Programming

To open programming:

1. Press the TRSF key.
2. Enter the MMC program number 200 (for Customer level programming) or 800 (for System level programming).
3. Enter the relevant passcode.
4. Press key 1 (or use the VOLUME Up or Down key) to select 'ENABLE'.
5. Press the SPEAKER key to have the program selection mode appear (or press the TRSF key to halt programming).
6. Enter the MMC number, or select the program number with the Up or Down key and press the SPEAKER key.

When opening system programming, you are advised to check MMC 812 (Select Country) to ensure that the correct country has been selected **before** you do any other programming.

Carefully follow the instructions given with each MMC to program your system correctly.

1.5.3 Opening Station Level Programming

To open programming:

1. Press the TRSF key.
2. Enter the MMC program number.

Carefully follow the instructions given with each MMC to program your system correctly.

1.5.4 Programming DCS-408 and 408i Systems

Although physically similar in appearance, the "408" and "408i" are different systems and may have different programming requirements and features. For example, the 408i supports ISDN whereas the 408 does not. Thus, an MMC relevant to one system may not be relevant to the other. Similarly, where an MMC relates to both systems, some features available on the 408i system may not be available on the 408 system, and vice versa. This will be indicated in the MMC description, where appropriate.

These systems also differ significantly from all other keyphone systems, both in size and physical appearance. In comparison with other systems, when programming your 408 or 408i:

- Extension, group and trunk numbers are two digits by default (e.g. extension 21, trunk 71, etc). All other systems use 3-digit numbers by default (e.g. extension 201, trunk 701, etc).* Examples of programming shown in this manual use 3-digit numbers for convenience only.

  (*Unless changed by the system installer in MMC 724.)

- You can set up to four 'Normal' station groups. Group types AA, VM/AA and UCD are not permitted.

- Only two trunk groups, 8 and 9, are available. (All other systems support groups 9 and 80–82.)

Part 2. Program MMC List & Default Data

2.1 Program (MMC) List

100:	STATION LOCK	317:	ASSIGN STATION/STATION USE
101:	CHANGE USER PASSCODE	318:	DISTINCTIVE RING
102:	CALL FORWARD	319:	BRANCH GROUP
103:	SET ANSWER MODE	400:	CUSTOMER ON/OFF PER TRUNK
104:	STATION NAME	401:	CO/PBX LINE
105:	STATION SPEED DIAL	402:	TRUNK DIAL TYPE
106:	STATION SPEED DIAL NAME	403:	TRUNK TOLL CLASS
107:	KEY EXTENDER	404:	TRUNK NAME
108:	STATION STATUS	405:	TRUNK NUMBER
109:	DATE DISPLAY	406:	TRUNK RING ASSIGNMENT
110:	STATION ON/OFF	407:	FORCED TRUNK RELEASE
111:	KEYSET RING TONE	408:	ASSIGN TRUNK MUSIC ON HOLD SOURCE
112:	ALARM REMINDER	409:	TRUNK STATUS READ
113:	VIEW MEMO NUMBER	410:	ASSIGN DISA TRUNK
114:	STATION VOLUME	411:	ASSIGN E1 SIGNAL TYPE
115:	SET PROGRAMMED MESSAGE	412:	ASSIGN TRUNK SIGNAL
116:	ALARM AND MESSAGE	414:	MPD/PRS SIGNAL
119:	SET CLIP DISPLAY	415:	REPORT TRUNK ABANDON DATA
121:	KEYSET LANGUAGE	416:	ASSIGN AC15 TRANSLATION
200:	OPEN CUSTOMER PROGRAMMING	417:	PRI CRC4 OPTION
201:	CHANGE CUSTOMER PASSCODE	418:	CARD RESTART
202:	CHANGE FEATURE PASSCODES	419:	BRI OPTION
203:	ASSIGN UA DEVICE	420:	PRI OPTION
204:	COMMON BELL CONTROL	421:	MSN DIGIT
205:	ASSIGN LOUD BELL	422:	ASSIGN TRUNK COS
206:	BARGE-IN TYPE	423:	S/T MODE
207:	ASSIGN VM/AA PORT	424:	S0 MAPPING
208:	ASSIGN RING TYPE	426:	TRUNK GAIN CONTROL
209:	ASSIGN ADD-ON MODULE	427:	R2MFC SIGNAL
210:	CUSTOMER ON/OFF	428:	ASSIGN TRUNK/TRUNK USE
211:	DOOR RING ASSIGNMENT	500:	SYSTEM-WIDE COUNTERS
212:	ALARM RINGING STATION	501:	SYSTEM-WIDE TIMERS
213:	ALARM MESSAGE	502:	STATION-WIDE TIMERS
214:	DISA ALARM RINGING STATION	503:	TRUNK-WIDE TIMERS
215:	VOICE DIALLER OPTIONS	504:	PULSE MAKE/BREAK RATIO
216:	VOICE DIALLER ASSIGNMENTS	505:	ASSIGN DATE AND TIME
217:	CCC OPTION	506:	TONE CADENCE
219:	COMMON RELAY SERVICE TYPE	507:	ASSIGN AUTO NIGHT TIME
220:	ISDN SERVICE TYPE	508:	CALL COST
300:	CUSTOMER ON/OFF PER STATION	509:	C.O. TONE CADENCE
301:	ASSIGN STATION COS	510:	SLI RING CADENCE
302:	PICKUP GROUPS	511:	MW LAMP CAD
303:	ASSIGN BOSS/SECRETARY	512:	ASSIGN HOLIDAY
304:	ASSIGN STATION/TRUNK USE	600:	ASSIGN OPERATOR GROUP
305:	ASSIGN FORCED CODE	601:	ASSIGN STATION GROUP
306:	HOT LINE	602:	STATION GROUP NAME
308:	ASSIGN BACKGROUND MUSIC SOURCE	603:	ASSIGN TRUNK GROUP
309:	ASSIGN STATION MUSIC ON HOLD	604:	ASSIGN STATION TO PAGE ZONE
310:	LCR CLASS OF SERVICE	605:	ASSIGN EXTERNAL PAGE ZONE
311:	ASSIGN SIM PARAMETER	606:	ASSIGN SPEED BLOCK
312:	ALLOW CLIP	607:	UCD OPTIONS
313:	ASSIGN PIN CODE	608:	ASSIGN CLIP REVIEW BLOCK
314:	CONFIRM OUTGOING CALL	700:	COPY COS CONTENTS
315:	SET RELOCATION	701:	ASSIGN COS CONTENTS
316:	COPY STATION USABLE	702:	TOLL DENY TABLE

703:	TOLL ALLOWANCE TABLE	736:	ASSIGN AA MOH
704:	ASSIGN WILD CHARACTER	737:	DECT SYSTEM CODE
705:	ASSIGN SYSTEM SPEED DIAL	738:	DECT CLEAR REGISTRATION
706:	SYSTEM SPEED DIAL BY NAME	739:	BSI DOWNLOAD
707:	AUTHORISATION CODE	740:	STATION PAIR
708:	ACCOUNT CODE	741:	BSI CARD RESTART
709:	PBX ACCESS CODE	742:	BSI STATUS
710:	LCR DIGIT TABLE	743:	DECT BASE STATION (DBS) STATUS
711:	LCR TIME TABLE	744:	DECT REGISTRATION ON/OFF
712:	LCR ROUTE TABLE	745:	BSI CARRIER
713:	LCR MODIFY DIGIT TABLE	750:	VM CARD RESTART
714:	DDI NUMBER & NAME TRANSLATION	751:	ASSIGN MAILBOX
715:	PROGRAMMED STATION MESSAGE	752:	AUTO RECORD
716:	UK LCR OPTION	753:	WARNING DESTINATION
717:	PIN CODE	754:	VM HALT
718:	MY AREA CODE	755:	VM ALARM
720:	COPY KEY PROGRAMMING	756:	ASSIGN VM MOH
721:	SAVE STATION KEY PROGRAMMING	757:	VM IN/OUT
722:	STATION KEY PROGRAMMING	800:	ENABLE TECHNICIAN PROGRAM
723:	SYSTEM KEY PROGRAMMING	801:	CHANGE TECHNICIAN PASSCODE
724:	DIAL NUMBERING PLAN	802:	CUSTOMER ACCESS MMC NUMBER
725:	SMDR OPTIONS	803:	ASSIGN TENANT GROUP
726:	VM/AA OPTIONS	804:	SYSTEM I/O PARAMETER
727:	SYSTEM VERSION DISPLAY	805:	TX LEVEL & GAIN
728:	CLIP TRANSLATION TABLE	806:	CARD PRE-INSTALL
730:	AA RECORD GAIN	807:	VOLUME CONTROL
731:	AA RAM CLEAR	808:	T1 TRUNK CODING
732:	AA TRANSLATION TABLE	809:	SYSTEM MMC LANGUAGE
733:	AA PLAN TABLE	810:	HALT PROCESSING
734:	AA MESSAGE MATCH	811:	RESET SYSTEM
735:	AA USE TABLE	812:	SELECT COUNTRY

2.2 Default Data

Station Programs

		DCS	CI	CII	816	408	408i	
100:	STATION LOCK	Y	Y	Y	Y	Y	Y	ALL STATIONS UNLOCKED
101:	CHANGE USER PASSCODE	Y	Y	Y	Y	Y	Y	ALL STATION PASCODES = 1234
102:	CALL FORWARD	Y	Y	Y	Y	Y	Y	ALL STATION = 0 (FWD CANCEL)
103:	SET ANSWER MODE	Y	Y	Y	Y	Y	Y	ALL KEYSETS 'RING' RING FREQUENCY DEFAULT = 5
104:	STATION NAME	Y	Y	Y	Y	Y	Y	NONE
105:	STATION SPEED DIAL	Y	Y	Y	Y	Y	Y	NONE
106:	STATION SPEED DIAL NAME	Y	Y	Y	Y	Y	Y	NONE
107:	KEY EXTENDER	Y	Y	Y	Y	Y	Y	NONE
108:	STATION STATUS	Y	Y	Y	Y	Y	Y	SEE MMC 108
109:	DATE DISPLAY	Y	Y	Y	Y	Y	Y	COUNTRY: WESTERN CLOCK: 24-HOUR DISPLAY: LOWERCASE
110:	STATION ON/OFF	Y	Y	Y	Y	Y	Y	AUTO HOLD: OFF AUTO TIMER: ON HEADSET MODE: OFF HOT KEYPAD: ON KEY TONE: ON PAGE REJOIN: ON RING PREFERENCE: ON CALL COST: OFF AME BGM: OFF AME PSWD: OFF
111:	KEYSET RING TONE	Y	Y	Y	Y	Y	Y	SELECTION = 5
112:	ALARM REMINDER	Y	Y	Y	Y	Y	Y	ALARMS SET TO NOTSET
113:	VIEW MEMO NUMBER	Y	Y	Y	Y	Y	Y	NO MEMOS ENTERED
114:	STATION VOLUME	Y	Y	Y	Y	Y	Y	RING VOL: 4 OFF HOOK RING VOL: 4 HANDSET VOL: 4 SPEAKER VOL: 13 BGM VOL: 13
115:	SET PROGRAMMED MESSAGE	Y	Y	Y	Y	Y	Y	NO MESSAGES SELECTED
116:	ALARM AND MESSAGE	Y	Y	Y	Y	Y	Y	ALARMS SET TO NOTSET
119:	SET DISPLAY	Y	Y	Y	Y	N	Y	NAME FIRST
121:	KEYSET LANGUAGE	Y	N	Y	Y	Y	Y	ENGLISH

System Programs

		DCS	CI	CII	816	408	408i	
200:	OPEN CUSTOMER PROGRAMMING	Y	Y	Y	Y	Y	Y	CLOSED (DISABLED)
201:	CHANGE CUSTOMER PASSCODE	Y	Y	Y	Y	Y	Y	PASSCODE = 1234
202:	CHANGE FEATURE PASSCODES	Y	N	Y	Y	Y	Y	DAY/NIGHT = 0000 DISA ALARM = 5678 ALARM CLR = 8765 AA RECORD = 4321 DECT (BSI) REGISTER = 4321
203:	ASSIGN UA DEVICE	Y	Y	Y	Y	Y	Y	NONE
204:	COMMON BELL CONTROL	Y	Y	Y	Y	Y	Y	CONTINUOUS
205:	ASSIGN LOUD BELL	Y	N	Y	Y	Y	Y	UNASSIGNED
206:	BARGE-IN TYPE	Y	Y	Y	Y	Y	Y	NO BARGE IN
207:	ASSIGN VM/AA PORT	Y	Y	Y	Y	Y	Y	NORMAL PORT
208:	ASSIGN RING TYPE	Y	Y	Y	Y	Y	Y	ICM RING
209:	ASSIGN ADD-ON MODULE	Y	Y	Y	Y	N	N	NONE FOR MASTER
210:	CUSTOMER ON/OFF	Y	Y	Y	Y	Y	Y	SEE MMC 210
211:	DOOR RING ASSIGNMENT	Y	Y	Y	Y	Y	Y	STATION GROUP 500 (or 50)
212:	ALARM RINGING STATION	Y	N	Y	N	N	N	ALL SENSORS RING 500 DAY/NIGHT
213:	ALARM MESSAGE	Y	N	Y	N	N	N	NONE
214:	DISA ALARM RINGING STATION	Y	Y	Y	Y	Y	Y	DAY/NIGHT = 500 (or 50)
215:	VOICE DIALLER OPTIONS	Y	Y	Y	N	N	N	2CH-7USER-20BIN
216:	VOICE DIALLER ASSIGNMENTS	Y	Y	Y	N	N	N	NONE
217:	CCC OPTION	N	Y	N	N	N	N	NONE
219:	COMMON RELAY SERVICE TYPE	N	N	Y	Y	Y	Y	SEE MMC 219
220:	ISDN SERVICE TYPE	Y	Y	Y	Y	N	Y	VOICE
300:	CUSTOMER ON/OFF PER STATION	Y	Y	Y	Y	Y	Y	STN CALL PRT : OFF FWD DLY USE : OFF OTHER FEATURES SET TO ON
301:	ASSIGN STATION COS	Y	Y	Y	Y	Y	Y	DAY CLASS = 1 NIGHT CLASS = 1
302:	PICKUP GROUPS	Y	Y	Y	Y	Y	Y	ALL STATIONS GROUP 1
303:	ASSIGN BOSS/SECRETARY	Y	Y	Y	Y	Y	Y	NONE
304:	ASSIGN STATION/TRUNK USE	Y	Y	Y	Y	Y	Y	DIAL = YES ANS = YES
305:	ASSIGN FORCED CODE	Y	Y	Y	Y	Y	Y	NONE
306:	HOT LINE	Y	Y	Y	Y	Y	Y	NONE
308:	ASSIGN BACKGROUND MUSIC SOURCE	Y	Y	Y	Y	Y	Y	NONE
309:	ASSIGN STATION MUSIC ON HOLD	Y	Y	Y	Y	Y	Y	NONE
310:	LCR CLASS OF SERVICE	Y	Y	Y	Y	Y	Y	LEAST COST ROUTING COS 1

		DCS	CI	CII	816	408	408i	
311:	ASSIGN SIM PARAMETER	Y	N	N	N	N	N	SIM TYPE = DTE CALL MODE = MANUAL ANS MODE = MANUAL AUTO BAUD = ON DTR CHECK = ON ECHO = ON PROTOCOL = V110 SPEED = 9600 CHAR LENGTH = 8 BITS PARITY = NONE STOP BIT = 1
312:	ALLOW CLIP	Y	Y	Y	Y	N	Y	RCV=YES, SEND=YES, INFO=CO Tel
313:	ASSIGN PIN CODE	N	Y	N	N	N	N	ALL STATIONS ARE CODE #1
314:	CONFIRM OUTGOING CALL	Y	N	Y	Y	Y	Y	NONE
315:	SET RELOCATION	Y	N	Y	Y	Y	Y	NONE
316:	COPY STATION USABLE	Y	N	Y	Y	N	N	NONE
317:	ASSIGN STATION/STATION USE	Y	N	Y	Y	N	N	DIAL=YES
318:	DISTINCTIVE RING	Y	N	Y	Y	Y	Y	T=F-STN, C=F-STN
319:	BRANCH GROUP	–	–	–	–	–	–	NOT USED IN UK
400:	CUSTOMER ON/OFF PER TRUNK	Y	Y	Y	Y	Y	Y	1A2 EMULATE: OFF TRUNK INC DND: OFF TRUNK FORWARD: ON LCR ALLOW:OFF
401:	C.O./PBX LINE	Y	Y	Y	Y	Y	Y	ALL TRUNKS C.O. LINE
402:	TRUNK DIAL TYPE	Y	Y	Y	Y	Y	N	ALL TRUNKS DTMF
403:	TRUNK TOLL CLASS	Y	Y	Y	Y	Y	Y	ALL TRUNKS F-STN DAY/NIGHT
404:	TRUNK NAME	Y	Y	Y	Y	Y	Y	NO NAMES ENTERED
405:	TRUNK NUMBER	Y	Y	Y	Y	Y	Y	NO NUMBERS ENTERED
406:	TRUNK RING ASSIGNMENT	Y	Y	Y	Y	Y	Y	ALL TRUNKS DAY/NIGHT: 500 (or 50)
407:	FORCED TRUNK RELEASE	Y	Y	Y	Y	Y	Y	NONE
408:	ASSIGN TRUNK MUSIC ON HOLD SOURCE	Y	Y	Y	Y	Y	Y	TONE
409:	TRUNK STATUS READ	Y	Y	Y	Y	Y	Y	SEE MMC 409
410:	ASSIGN DISA TRUNK	Y	Y	Y	Y	Y	Y	ALL TRUNKS NORMAL
411:	ASSIGN E1 SIGNAL TYPE	–	–	–	–	–	–	NOT USED IN UK
412:	ASSIGN TRUNK SIGNAL	Y	Y	Y	N	N	N	IMMEDIATE
414:	MPD/PRS SIGNAL	Y	Y	Y	Y	Y	N	NONE
415:	REPORT TRUNK ABANDON DATA	Y	Y	Y	Y	N	Y	REPORT=YES
416:	ASSIGN AC15 TRANSLATION	Y	Y	Y	N	N	N	UNUSE DID TRANS
417:	PRI CRC4 OPTION	Y	N	Y	N	N	N	CRC4 ON
418:	CARD RESTART	Y	Y	Y	Y	N	Y	NONE

		DCS	CI	CII	816	408	408i	
419:	BRI OPTION	Y	Y	Y	Y	N	Y	CHANNEL ANY: YES BRI MODE: P-P DDI DLSEND: OVERLAP BRI CODING: A-LAW POWERFEED: NO
420:	PRI OPTION	Y	N	Y	N	N	N	CHANNEL ANY: YES PRI MODE: DDI DLSEND: OVERLAP
421:	MSN DIGIT	Y	Y	Y	Y	N	Y	NONE
422:	ASSIGN TRUNK COS	Y	Y	Y	Y	Y	Y	DAY CLASS: 1 NIGHT CLASS: 1
423:	S/T MODE	Y	Y	Y	Y	N	Y	TRUNK
424:	S_0 MAPPING	Y	Y	Y	Y	N	Y	NONE
426:	TRUNK GAIN CONTROL	Y	N	Y	Y	Y	Y	RX = +0.0 dB, TX = +0.0 dB (ALL TRUNKS)
427:	R2MFC SIGNAL	N	N	N	N	N	N	NOT USED IN UK
428:	ASSIGN TRUNK/TRUNK USE	Y	N	Y	Y	N	N	DIAL = YES
500:	SYSTEM-WIDE COUNTERS	Y	Y	Y	Y	Y	Y	SEE MMC 500
501:	SYSTEM-WIDE TIMERS	Y	Y	Y	Y	Y	Y	SEE TABLE OF TIMERS AND VALUES IN MMC 501
502:	STATION-WIDE TIMERS	Y	Y	Y	Y	Y	Y	NO ANS FWD: 015 SEC DTMF DURATION: 100 MS FIRST DGT DELAY: 600 MS
503:	TRUNK-WIDE TIMERS	Y	Y	Y	Y	Y	Y	ANS.BAK TM: 600 MS CLEARING: 002 SEC CO SUPV TM: 400 MS DTMF DURATION: 100 MS FIRST DGT DELAY: 600 MS FLASH TIME: 070 MS NO RING TM: 004 SEC PAUSE TIME: 003 SEC PRS DET TM: 000 MS RNG DET.TM: 300 MS WINK: 200 MS MF/DP INT TM: 0800 MS MFR DLY TM: 000 SEC
504:	PULSE MAKE/BREAK RATIO	Y	Y	Y	Y	Y	N	MAKE/BREAK = 33 PULSES PER SECOND = 10
505:	ASSIGN DATE AND TIME	Y	Y	Y	Y	Y	Y	FOLLOWS S/W VERSION RELEASE DATE
506:	TONE CADENCE	Y	Y	Y	Y	Y	Y	SEE MMC 506
507:	ASSIGN AUTO NIGHT TIME	Y	Y	Y	Y	Y	Y	NONE
508:	CALL COST	Y	Y	Y	Y	Y	Y	UNIT COST PER MP: 200 PENCE CALL COST RATE: 100%
509:	C.O. TONE CADENCE	N	Y	N	N	N	N	SEE MMC 509
510:	SLI RING CADENCE	Y	Y	Y	Y	Y	Y	SEE MMC 510
511:	MW LAMP CAD	Y	N	Y	N	N	N	ON: 1000MS, OFF: 1000MS
512:	ASSIGN HOLIDAY	Y	N	Y	Y	Y	Y	NONE
600:	ASSIGN OPERATOR GROUP	Y	Y	Y	Y	Y	Y	DAY/NIGHT: 500 (or 50)

		DCS	CI	CII	816	408	408i	
601:	ASSIGN STATION GROUP	Y	Y	Y	Y	Y	Y	SEE MMC 601
602:	STATION GROUP NAME	Y	Y	Y	Y	Y	Y	NONE
603:	ASSIGN TRUNK GROUP	Y	Y	Y	Y	Y	Y	SEE MMC 603
604:	ASSIGN STATION TO PAGE ZONE	Y	Y	Y	Y	Y	Y	NO STATIONS ASSIGNED 'ALL ZONE' IS SET
605:	ASSIGN EXTERNAL PAGE ZONE	Y	Y	Y	Y	Y	Y	NONE
606:	ASSIGN SPEED BLOCK	Y	Y	Y	Y	Y	Y	SYSTEM: SEE MMC 606 STATIONS: ONE BIN OF 10 ENTRIES
607:	UCD OPTIONS	Y	Y	Y	Y	N	N	SEE MMC 607
608:	ASSIGN CLIP REVIEW BLOCK	Y	Y	Y	Y	N	Y	ONE BIN OF 10 ENTRIES
700:	COPY COS CONTENTS	Y	Y	Y	Y	Y	Y	NONE
701:	ASSIGN COS CONTENTS	Y	Y	Y	Y	Y	Y	TOLL LEVEL: ALL COS = A ALL FEATURES (EXCL. OVERRIDE) = YES
702:	TOLL DENY TABLE	Y	Y	Y	Y	Y	Y	ALL ENTRIES = 0
703:	TOLL ALLOWANCE TABLE	Y	Y	Y	Y	Y	Y	ALL ENTRIES = 0
704:	ASSIGN WILD CHARACTER	Y	Y	Y	Y	Y	Y	ALL X, Y, Z = 1
705:	ASSIGN SYSTEM SPEED DIAL	Y	Y	Y	Y	Y	Y	NONE
706:	SYSTEM SPEED DIAL BY NAME	Y	Y	Y	Y	Y	Y	NO NAMES
707:	AUTHORISATION CODE	Y	Y	Y	Y	Y	Y	NONE
708:	ACCOUNT CODE	Y	Y	Y	Y	Y	Y	NONE
709:	PBX ACCESS CODE	Y	Y	Y	Y	Y	Y	NONE
710:	LCR DIGIT TABLE	Y	Y	Y	Y	Y	Y	DEPENDS ON S/W VERSION
711:	LCR TIME TABLE	Y	Y	Y	Y	Y	Y	SEE MMC 711
712:	LCR ROUTE TABLE	Y	Y	Y	Y	Y	Y	SEE MMC 712
713:	LCR MODIFY DIGIT TABLE	Y	Y	Y	Y	Y	Y	DEPENDS ON S/W VERSION
714:	DDI NUMBER AND NAME TRANSLATION	Y	Y	Y	Y	N	Y	SEE MMC 714
715:	PROGRAMMED STATION MESSAGE	Y	Y	Y	Y	Y	Y	20 MESSAGES (10 PREPROGRAMMED) (SEE MMC 715)
716:	UK LCR OPTIONS	Y	Y	Y	Y	Y	Y	SEE MMC 716
717:	PIN CODE	N	Y	N	N	N	N	NONE
718:	MY AREA CODE	–	–	–	–	–	–	NOT USED IN UK
720:	COPY KEY PROGRAMMING	Y	Y	Y	Y	Y	Y	NONE
721:	SAVE STATION KEY PROGRAMMING	Y	Y	Y	Y	Y	Y	RESTORE
722:	STATION KEY PROGRAMMING	Y	Y	Y	Y	Y	Y	SEE MMC 722
723:	SYSTEM KEY PROGRAMMING	Y	Y	Y	Y	Y	Y	SEE MMC 723
724:	DIAL NUMBERING PLAN	Y	Y	Y	Y	Y	Y	SEE MMC 724
725:	SMDR OPTIONS	Y	Y	Y	Y	Y	Y	SEE MMC 725
726:	VM/AA OPTIONS	Y	Y	Y	Y	Y	Y	SEE MMC 726

		DCS	CI	CII	816	408	408i	
727:	SYSTEM VERSION DISPLAY	Y	Y	Y	Y	Y	Y	INSTALLED CARD VERSIONS
728:	CLIP TRANSLATION TABLE	Y	Y	Y	Y	N	Y	NONE
730:	AA RECORD GAIN	Y	N	Y	Y	N	N	+0.0 dB
731:	AA RAM CLEAR	Y	Y	Y	Y	N	N	NONE
732:	AA TRANSLATION TABLE	Y	Y	Y	Y	N	N	SEE MMC 732
733:	AA PLAN TABLE	Y	Y	Y	Y	N	N	SEE MMC 733
734:	AA MESSAGE MATCH	Y	Y	Y	Y	N	N	MSG INDEX NO.
735:	AA USE TABLE	Y	Y	Y	Y	N	N	PLAN 01
736:	ASSIGN AA MOH	Y	Y	Y	Y	N	N	NOT USE
737:	DECT SYSTEM CODE	Y	Y	Y	N	N	N	AUTH CODE: FFFF SYSTEM ID: 000
738:	DECT CLEAR REGISTRATION	Y	Y	Y	N	N	N	FORCED MODE
739:	BSI DOWNLOAD	Y	Y	Y	N	N	N	NONE
740:	STATION PAIR	Y	Y	Y	Y	N	N	NONE
741:	BSI CARD RESTART	Y	Y	Y	N	N	N	NONE
742:	BSI STATUS	Y	Y	Y	N	N	N	NONE
743:	DBS STATUS	Y	Y	Y	N	N	N	NONE
744:	DECT REGISTRATION ON/OFF	Y	Y	Y	N	N	N	DISABLE
745:	BSI CARRIER	Y	Y	Y	N	N	N	1111111111
750:	VM CARD RESTART	Y	N	Y	N	N	N	DOWNLOAD=YES
751:	ASSIGN MAILBOX	Y	N	Y	N	N	N	ALL STN=YES, ALL GRP=NO
752:	AUTO RECORD	Y	N	Y	N	N	N	MB=NONE, PORT=NONE CALL=I
753:	WARNING DESTINATION	Y	N	Y	N	N	N	DEST=500
754:	VM HALT	Y	N	Y	N	N	N	NONE
755:	VM ALARM	Y	N	Y	N	N	N	THRESHOLD=80%
756:	ASSIGN VM MOH	Y	N	Y	N	N	N	NOT USE
757:	VM IN/OUT	Y	N	Y	N	N	N	IN/OUT
800:	ENABLE TECHNICIAN PROGRAM	Y	Y	Y	Y	Y	Y	DISABLE
801:	CHANGE TECHNICIAN PASSCODE	Y	Y	Y	Y	Y	Y	DEFAULT PASSCODE = 4321
802:	CUSTOMER ACCESS MMC NO.	Y	Y	Y	Y	Y	Y	SEE MMC 802
803:	ASSIGN TENANT GROUP	Y	N	N	N	N	N	ALL ASSIGNMENTS TENANT 1
804:	SYSTEM I/O PARAMETER	Y	Y	Y	Y	Y	Y	SEE MMC 804
805:	TX LEVEL AND GAIN	Y	Y	Y	Y	Y	Y	SEE MMC 805
806:	CARD PRE-INSTALL	Y	Y	Y	Y	N	N	NONE
807:	VOLUME CONTROL	Y	Y	Y	Y	Y	Y	SEE MMC 807
808:	T1 TRUNK CODING	–	–	–	–	–	–	NOT USED IN UK
809:	SYSTEM MMC LANGUAGE	Y	N	Y	Y	Y	Y	ENGLISH
810:	HALT PROCESSING	Y	Y	Y	Y	N	N	NONE
811:	RESET SYSTEM	Y	Y	Y	Y	Y	Y	NONE
812:	SELECT COUNTRY	Y	N	Y	Y	Y	Y	NONE

2.3 System Configuration: Quick Reference

Description	DCS	Compact I	Compact II	816	408	408i
AA card port numbers	3951–8	3951–6	381–6[1]	381–4	N/A	N/A
AA Translation tables 1 & 2 (entries)	100	100	100	50	N/A	N/A
Account codes	500	250	200	200	100	100
Authorisation codes	250	100	100	30	10	10
BGM port numbers	3701–2	371–2	371–2	371–2	371	371
CALL keys (max.)	8	8	5	4	2	2
Classes of Service (COS)	30	30	30	10	4	4
CLIP Translation Table entries	250	250	200	200	N/A	100
Daughterboards (keyset)	KSU	Any DLI port	Motherboard	None	None	None
DDI entries	200	200	200	50	N/A	20
DECT ports	48	24	24	N/A	N/A	N/A
LCR Digit Table (max. entries)	500	500	500	300	100	100
MOH port numbers	3701–2	371–2	371–2	371–2	371	371
Operator Groups (part of Station Group)	1	1	1	1	1	1
Operator Group members (sequential / distributed ring)	32	30	30	16	8	8
Operator Group members (unconditional ring)	32	30	10	16	8	8
Page zones (no. of internal)	4	4	4	4	2	2
Page zones (no. of external)	4	4	4	1	1	1
Pickup Groups	20	20	20	8	4	4
S0 bus ports	32	32	24	16	None	2

2.3 System Configuration: Quick Reference (cont'd)

Description	DCS	Compact I	Compact II	816	408	408i
Speed dials (total)	1500	500	600	500	300	300
Speed dials (system)(max.)	500	500	500	300	200	200
Station Groups (number of)	30	30	20	10	4	4
Station Group members (sequential / distributed ring)	48	30	30	16	8	8
Station Group members (unconditional ring)	32	30	10	16	8	8
Station Group numbers	500–529	500–529	500–519	500–509	50–53	50–53
Trunk Groups (number of)	11	11	11	4	2	2
Trunk Group members	80	10	40	10	4	4
Trunk Group numbers	9, 80–89	9, 80–89	9, 80–89	9, 80–82	9, 8	9, 8
UCD Groups	10[2]	10[2]	5[3]	3[4]	N/A	N/A
Voice dial card port numbers	3551–2	3551–2	355–6	N/A	N/A	N/A

Notes:

[1]Misc 2 card = 381–4, AA card = 381–6, both cards installed = 381–90
[2]UCD Group can be created from any Station Group 501–529 (CI) or last 10 Station Groups 520–529 (DCS)
[3]UCD Group can only be created from last 10 Station Groups 510–519
[4]UCD Group can only be created from last three Station Groups 507–509

Part 3. Special Applications

Part 3 provides additional information covering the following topics:

- **Voice Mail / Auto Attendant Integration**
- **Individual Station Page**
- **CLIP (Calling Line Identification Presentation)**
- **Toll Restriction (Call Barring) Overview**
- **S_0 Overview**

Voice Mail/Auto Attendant Integration (In-Band / SMDI)

This section focuses mainly on in-band integration. Systems may alternatively accommodate Bellcore standard SMDI—available by setting in MMC 210 (SMDI VMS SET option).

Because of the increased popularity of voice mail and auto attendant use, all DCS systems include many programmable options to address this demand. The degree of integration that can be achieved depends on the abilities of the voice mail/auto attendant (VM/AA) system as well as the telephone system.

The following describes the capabilities provided by systems for voice mail via in-band integration.

Hardware Provisions

- The VM/AA system must be connected to single line circuits on any SLI card.
- Each port is equipped with a dedicated DTMF receiver for detecting DTMF signalling from the VM/AA.
- These ports also provide an instant break in loop current when the calling party hangs up. This is called a disconnect signal.

Software Provisions

- *Screened Or Unscreened Transfer*
  There are no special codes needed to transfer a call. Simply hookflash, receive transfer dial tone and dial the destination.
- *Direct In Lines*
  Any C.O. call can be assigned to ring at an individual station or a station hunt group assigned to the VM/AA.
- *Calls or Recalls to the Operator*
  Dialling 0 will always result in a ringback signal. If the operator is busy, the call continues to ring in queue to the operator.
- *Message Waiting*
  A VM/AA port can leave a message at any station or group of stations. The message waiting indication can be set or cancelled at any station or station group with or without the stations ringing.

In-Band Signalling

Systems can be programmed to send the calling station's extension number after the voice mail system answers. These DTMF signals may include a leading digit to indicate the type of call and additional information about the original caller. DTMF signals may also be substituted for call progress tones to speed up voice mail call processing. This program allows call forwarding to a mailbox and bypassing of the main greeting for automatic message retrieval. Blind (unscreened) transfers may be performed because the recall will be correctly identified.

Note: The effectiveness of this program depends on the ability of the voice mail system to make use of this information.

- *Station Hunt Group With Overflow*
  Each station group can have an individual overflow destination with an individual overflow timer. The overflow destination will ring whenever a call to the group is not answered. If the voice mail system becomes inoperative, calls are automatically routed to the overflow destination.

- *Internal Call Forwarding to Voice Mail*
  This option in MMC 300 provides the ability to allow or deny call forwarding of internal calls to voice mail. This feature conserves disk drive space by only storing calls originating outside the system.

- *One-Touch Voice Mail Access*
  One-touch speed dial keys can be programmed to automatically dial, log into and retrieve messages from voice mail.

- *Call Progress Tones*
  The only tones sent to a VM/AA port are dial tone, busy and ringback. To eliminate confusion, busy tone is substituted for DND or error tones on voice mail ports only.

Individual Station Page

Keyphone systems were not designed to permit page announcements to individual keysets. However, a forced auto answer key (FAUTO) can be used to do this.

1. Program a keyset for RING in MMC 103.

2. Assign a FAUTO key (in MMC 722) to each keyset that is allowed to page individual keysets.

3. Call another station. When you hear ringback tone, press the FAUTO key. The ringing will stop and an Auto Answer call is set up.

Note: To prevent the use of this feature from getting out of control, only assign FAUTO keys to those keysets needing to page individual keysets.

CLIP
(Calling Line Identification Presentation)

Hardware Provisions

ISDN trunk cards.

Software Provisions

The MMCs related to CLIP are listed below with a short description of their uses. They are listed in the recommended order in which they should be programmed. This sequence is suggested so that the installer/technician gets a better understanding of how the feature works. There is no technical reason to strictly follow this sequence.

• MMC 312 (ALLOW CLIP)	Used to determine which keysets are allowed to receive CLIP displays.
• MMCs 722 and 723 (STATION & SYSTEM KEY PROGRAMMING)	It is strongly recommended that all keysets allowed CLIP in MMC 312 are programmed with a CLIP key using this MMC.
• MMC 728 (CLIP TRANSLATION TABLE)	Allows for the creation of a list of names that correspond to numbers received from the Central Office (C.O.). These names will be displayed when a call rings in that has NUMBER ONLY data provided by the C.O.
• MMC 725 (SMDR OPTIONS)	Provides the ability to print CLIP data and abandoned calls on the Station Message Detail Recording (SMDR) report.
• MMC 119 (SET CLIP DISPLAY)	Station users can determine what CLIP data is displayed when a call rings at the user's station.
• MMC 501 (SYSTEM-WIDE TIMERS)	You may need to adjust the CLIP DISPLAY timer. This is the length of time that CLIP data is displayed at users' stations after the CLIP key is pressed.
• MMC 415 (REPORT TRUNK ABANDON DATA)	Used to determine which trunks will record data in the Call Abandon list and print with an Abandon "A" flag on the SMDR report.
• MMC 608 (ASSIGN CLIP REVIEW BLOCK)	Used to assign CLIP Review blocks to keysets to allow the user to review CLIP data for previous calls.
• MMC 701 (ASSIGN COS CONTENTS)	All CLIP features are included in this MMC so that the system installer can allow or deny them.
• MMC 724 (DIAL NUMBERING PLAN)	CLIP features are included in this MMC to allow the system installer to assign an access code where necessary.

Toll Restriction (Call Barring) Overview

The system allows each station to be assigned a class of service (COS) for day and night modes. Into this COS is brought the dialling restrictions to be applied to each station. Dialling restrictions are applied in MMC 702 (Toll Deny Table) and MMC 703 (Toll Allowance Table).

Eight levels of restriction are available to stations: A, B, C, D, E, F, G and H. Level A imposes no restrictions on station dialling; level H restricts stations to *internal calls* only; and levels B to G are programmable. In addition, the Wild Card Table (MMC 704) can be used to provide more flexibility when programming.

Toll Restriction Rules

- The Deny Table entries prevent certain numbers being dialled.
- The Allowance Table entries are the ONLY exceptions to the Deny Table entries.
- Listing codes in the Allowance Table with no entries in the Deny Table gives “no restriction”.
- A wild card in any position in the Deny Table means an exception exists in the Allowance Table for the digits defined by the wild card.
- A wild card at the end of an entry means that more digits may be dialled.
- Never put a single wild card as an entry in the Allowance Table.
- When changing an entry in the BCDEFG status, ALL digits must be entered.

Use of Deny Table

Example
Let’s assume that you want to restrict (bar) the dialling of the following codes to your users: 0860 and 0850 car phone numbers, 0891and 0898 premium rate numbers, 00 International numbers and 01 STD numbers. You would set up the Deny Table as follows:

TOLL DENY TABLE							
ENTRY	DIGITS	B	C	D	E	F	G
001	0860	1	0	0	0	0	0
002	0850	1	0	0	0	0	0
003	0891	1	1	1	1	0	0
004	0898	1	1	1	1	0	0
005	00	1	1	0	0	0	0
006	01	1	0	0	1	0	0

Note: The number of entries allowed varies between systems (see MMC 702).

From the above table (“1” means a number is barred):

- Stations with Toll Level B applied will be barred all the codes listed.
- Stations with Toll Level C applied will be barred 0891, 0898 and 00 calls.
- Stations with Toll Level D applied will be barred 0891 and 0898 calls.
- Stations with Toll Level E applied will be barred 0891, 0898 and 01 calls.

- Stations with Toll Levels F or G applied will have no restrictions.

Use of Wild Cards and the Allowance Table

The Wild Card Table in MMC 704 appears as follows.

WILD CARD	0	1	2	3	4	5	6	7	8	9	*	#
X	0	0	0	0	0	0	0	0	0	0	0	0
Y	0	0	0	0	0	0	0	0	0	0	0	0
Z	0	0	0	0	0	0	0	0	0	0	0	0

The digits 0–9, * and # are values that each of the wild cards X, Y and Z can take. This is explained later. (You are also unlikely to use any wild card apart from X.)

In the Deny Table, the STD code 01 has been barred to users with a B or E Toll level. It may, however, be necessary to allow some STD codes to be dialled. For example, the codes 01869, 01993, and 01235 are codes local to Oxford and you may want users in the Oxford area to have access to these codes, with all other STD codes barred. You can achieve this using the Wild Card Table and Toll Allowance Table as follows:

Delete entry 006 in the Deny Table and add the following entry:

TOLL DENY TABLE							
ENTRY	DIGITS	B	C	D	E	F	G
006	01XXX	1	1	1	1	0	0

and in the Toll Allowance Table make the following entries:

TOLL ALLOWANCE TABLE							
ENTRY	DIGITS	B	C	D	E	F	G
001	01869	1	1	1	1	0	0
002	01993	1	1	1	1	0	0
003	01235	1	1	1	1	0	0

In the above table, any station assigned a Toll level B, C, D or E will be allowed to dial only 01869, 01993 and 01235 numbers, but all other STD codes will be barred. Stations with a Toll level F or G will be barred from dialling all STD codes.

The changes necessary in the Wild Card Table to implement these requirements are shown below, where the Wild Card character X represents any value between 0 and 9 (i.e. a “1” is placed in the field for any value that X is allowed to represent).

WILD CARD	0	1	2	3	4	5	6	7	8	9	#	*
X	1	1	1	1	1	1	1	1	1	1	0	0
Y	0	0	0	0	0	0	0	0	0	0	0	0
Z	0	0	0	0	0	0	0	0	0	0	0	0

S0 Overview

Contents

Introduction

In the DCS there are two line cards for ISDN. One is the PRI card containing one Primary Rate Interface; the other is the BRIN card containing four Basic Rate Interfaces. For Compact (I and II) and 816 systems there are two types of BRI card, one with two BRI access, the other with four.

The following topics are covered:

Hardware specification of each card

Installation

Operation

ISDN features supported

Note: 1. This document is based on BRI and PRI V2.0 (Nov 4 1996) or later. Therefore, some features are not applicable to the old version.
2. Main CPU software versions required are 4.0 or later (DCS), 2.3 or later (CII), 1.02 or later (816).

Specifications

PRI

(The PRI option is not applicable to Compact I, 816 or 408/408i systems.)

The card has the following configuration:

Contains one PRI access with RJ-45 interface having 120Ω line termination.

Operates in LT-T mode only. You can only connect to a PSTN ISDN Network Termination Port (NT).

BRI

The different types of BRI card are shown in Table 1.

System	Card name	Number of BRI access	Power feeding to S port
DCS	BRIN	4	YES
	BRI (old)	4	NO
Compact II	4BRI	4	YES
	2BRI	2	YES
Compact I & 816	4BRI	4	NO
	2BRI	2	NO

Table 1 - BRI cards

Note: The only difference between these cards is the number of access, and power feeding capability.

Each BRI / BRIN access has the following features:

Each port operates in either LT-T or LT-S mode. Every setting is done by MMC - there is no jumper or DIP switch to set. You can connect an NT line or ISDN terminals. (See note, below.)

For LT-S ports, you can decide whether or not power is supplied to that port by MMC 419.

32 numbers (DCS—range 7801 to 7832) or 24 numbers (Compact II—range 7801 to 7824) are reserved for terminals attached to the LT-S ports. Each number can be assigned to only one port. However, a port can have more than one number. (That is, two ISDN terminals with the same MSN number cannot exist in different LT-S ports.)

Each S0 bus must be terminated with a 100Ω termination resistor. The original BRI cards did not have this resistor. However, it is fitted to cards manufactured from mid 1997. It is important that this termination is present on each installation, and should be checked by the installer.

Note: 1. In BRI, LT-T and LT-S mode can be selected only by MMC programming. However, you should connect the Tx and Rx cable pair from the MDF correctly. Tx and Rx connections are reversed between LT-T and LT-S mode (see Table 15).
2. If you are connecting a T0 port to an NT, take care if there is a termination present somewhere other than on the BRI card on the bus.

ISDN Services

Outgoing calls when origination party is non-S0 terminal

When an extension seizes an ISDN TRK or S0 terminal attached to the system, the ISDN bearer capability (BC) and high layer compatibility (HLC) will be coded as in Table 2.

ORIGINATION	BC	HLC
DGP (Digital keyphone)	Speech	Telephony
SLT (ICM/CO ring in MMC 208)	3.1 kHz Audio	Telephony
SLT (DATA ring in MMC 208)	3.1 kHz Audio	Telephony

Table 2 - Coding of BC/HLC when an extension seizes an ISDN TRK or S0 terminal

Incoming calls when destination party is non-S0 terminal

When an incoming call is present on the ISDN TRK or S0 port, the call will be accepted if the following condition is satisfied (Table 3). Calls with other BC or HLC will be rejected.

BC	HLC	DESTINATION
Speech	Telephony	DGP (Digital keyphone) SLT (ICM/CO ring in MMC 208)
3.1 kHz Audio	Telephony	SLT (ICM/CO ring in MMC 208)
3.1 kHz Audio	None	DGP SLT (ICM/CO ring in MMC 208)
3.1 kHz Audio	Fax G2/3	SLT (DATA ring in MMC 208)

Table 3 - Accepted BC and HLC when destination is a non-S0 terminal

Accepted BC and HLC combinations on the ISDN TRK or S0 port

For calls between S0 and ISDN TRK, the following BC and HLC combinations (Table 4) will be accepted, regardless of which party is the originator.

BC	HLC	LLC
Speech	Telephony	A-law
3.1 kHz Audio	Telephony	A-law
3.1 kHz Audio	none	A-law
3.1 kHz Audio	Fax G2/3	A-law
Unrestricted Digital Info	none	none
Unrestricted Digital Info	Teletex	none
Unrestricted Digital Info	OSI	none
Unrestricted Digital Info	Video New	none
Unrestricted Digital Info	Mixed	none
56 kHz Data	none	none
V.110	none	proper value
V.120	none	proper value
Video	none	none
7 kHz Audio	none	none
Unrestricted Digital Info	Fax G4	Fax G4

Table 4 - Accepted BC and HLC when destination is a non-S0 terminal

Supported bearer capability

Speech, Unrestricted Data, 3.1 kHz Audio, 7 kHz Audio, Video

Supported high layer compatibility

Telephony, G3 Fax, G4 Fax, Mixed Mode, Teletex, Videotex, Telex, OSI.

Supported ISDN supplementary services

Service	Note
DDI	PRI DDI Mode and BRI T P-P DDI
MSN	BRI T P-M MSN
CLIP	Incoming call and outgoing call
Sub Addressing	Sub-address of incoming / outgoing call
AOC	ETSI AOC-D Currency/Unit ETSI AOC-E Currency/Unit Italy Holland Portugal Belgium

Table 5 – Supported ISDN supplementary services

Installation

The installation procedure is as follows:

1) Switch off the power to the system.
2) Insert the card in the appropriate slot.
3) Execute MMC 811 (Reset System).
4) Carry out related MMC programming according to your intended use of the card.
5) Run MMC 418 (Card Restart).

Note:

- In DCS, both BRI and PRI must be installed in the Basic Key Service Unit (not the Expansion Cabinet).
- The PRI card must be installed in the first slot with the next even-numbered slot empty.
- 100Ω line termination may not be present on the BRI card. If not, termination should be provided somewhere outside the BRI card.
- In BRI, LT-T and LT-S mode can be selected only by MMC programming. However, you should connect the Tx and Rx cable pair from MDF correctly. Tx and Rx connections are reversed between LT-T and LT-S mode (see Table 15).

Operation

Ports

After installation, the system allocates a port number to each B-channel in exactly the same way as the analogue trunk case. Thus, a BRI will be assigned eight port numbers, while a PRI will be assigned 30.

Note: To avoid confusion, the words "port" and "access" are used here with different meanings. "Port" is used to specify one B-channel, while "access" specifies one BRI span which consists of two B-channels and one D-channel.

PRI & BRI LT-T Mode

Making an outgoing call

Overlap sending

You can seize a port by dialling the port number (e.g. 701). When you see SETUP ACK displayed on your keyset, you can dial the destination number.

Enblock sending

You can make a call through the *enblock* sending mode port by dialling the port number and the destination number followed by #.

Incoming call routing

This depends on the mode of BRI/PRI set by MMC 419/420. See Table 6.

Operational mode	Associated table	Note
PRI NOR BRI P-P NOR BRI P-M NOR	MMC 406 "TRK RING"	This table has global meaning - applied to the ports set to DDI
PRI DDI BRI P-P DDI	MMC 712 "DDI TABLE"	Same as above
BRI P-M NOR	MMC 421 "MSN DIGIT"	A table is required for each BRI access

Table 6 - Incoming call routing according to MMC 419/420

BRI LT-S Mode

Note: All of the following examples are valid only after programming with the appropriate MMC. Refer to Part 4 of this manual.

Making a call from a DCS subscriber (DGP/SLT) to an ISDN terminal attached to LT-S port

To call a terminal attached to an LT-S port, dial the MSN of the terminal. If a terminal with MSN of 7803 is attached to 703, and you dialled 7803, a SETUP message will be sent out through 703 with calling party number of 7803. All terminals with MSN of 7803 will alert.

Alternatively, to call a terminal (or terminals), dial the port number. This time the calling party number of the SETUP message is vacant. All the terminals attached to that port will alert, with no regard to MSN number.

In the above cases, dial is always sent in enblock mode.

Caution

When making a call from an S_0 terminal, take care with the CLI number. It is usually sent when the call is made, and if that number is not registered in MMC 424 the system will disconnect the call.

Making a call from a terminal attached to LT-S port to a DCS subscriber (DGP/SLT)

To call a DCS subscriber from an ISDN terminal, dial the number you want to call. It is of no concern to the BRI card whether the terminal sends the number in enblock or overlap mode.

Making a call from a terminal attached to LT-S port to a remote terminal through a TRK

Dial the TRK number followed by the destination number. ISDN TRK and analogue TRK operate in the same way as seen from a terminal. When calling through an ISDN TRK there

is no relationship or restriction between the dial sending mode of the terminal and the ISDN TRK. (DATA calls must use an ISDN TRK.)

Routing an incoming call to the terminals attached to LT-S port

Incoming calls are routed according to the properties of the selected TRK. Routing is controlled by the MMC tables. You can put a terminal number into the DDI, MSN or TRUNK RING table as a destination, with or without a wild card digit. You can then answer the incoming call from the terminal.

Features Reference Tables

Tables 7 and 8 explain briefly which system features are applicable to ISDN cards.

Related Timers

Feature	Implemented	Note
ATT Recall Time	YES	You can check the version of BRI or PRI
C.O. - C.O. Disconnect	NO	Only for analogue trunk
Dial Pass Time	NO	Only for analogue trunk
DISA Disconnect	NO	Only for analogue trunk
DISA Lock Out Timer	NO	Only for analogue trunk
DISA Pass Check	NO	Only for analogue trunk
First Digit Time		
Inter Digit Time		
Overlap Inter Digit	YES	Inter Digit time in overlap sending/receiving

Table 7 – Related DCS timers

Note: These values can be changed in MMC 501 or 503.

PRI and BRI LT-T Port

Call feature capability

Feature	Implemented	Note
Transfer	NO	Transfer to remote user through ISDN TRK is not allowed
Conference	YES	Conference with remote user through ISDN TRK
Forward	YES	External Forward - forward to remote user through ISDN TRK
SMDR	YES	SMDR report of the calls through ISDN TRK port
Toll Check	YES	Toll check through ISDN TRK port
DISA	YES	Use an ISDN TRK as DISA outgoing line

Table 8 - Call feature abilities of PRI & BRI LT-T

MMC dependency

MMC	Related	Note
MMC 403 Trunk Toll Class	YES	
MMC 404 Trunk Name	NO	
MMC 404 Trunk Number	NO	For an outgoing call, if there is no matching number in the DDI table this number will be used as calling party number
MMC 406 Trunk Ring Assignment	YES	PRI Mode: NOR BRI Mode: P-P NOR, P-M NOR
MMC 407 Forced Trunk Release	YES	
MMC 408 Assign Trunk Music On Hold Source	YES	
MMC 409 Trunk Status Read	YES	Displays the Cabinet / Slot / Port numbers
MMC 410 Assign DISA Trunk	YES	
MMC 411 E1TRK Signal	NO	
MMC 412 Assign Trunk Signal	NO	Only for AC15
MMC 414 MPD/PRS Signal	NO	Analogue only
MMC 415 Report Trunk Abandon Data	YES	
MMC 416 Assign AC15 Translation	NO	Only for AC15
MMC 417 PRI CRC4 Option	YES	
MMC 418 Card Restart	YES	Restarts PRI or BRI
MMC 419 BRI Option	YES	
MMC 420 PRI Option	YES	
MMC 421 MSN Digit	YES	BRI Mode: P-M MSN
MMC 422 Assign Trunk COS	YES	
MMC 423 S/T Mode	YES	Only for BRI
MMC 424 S0 Mapping	YES	Only for BRI S port
MMC 508 Call Cost	NO	
MMC 509 C.O. Tone Cadence	NO	Only for Analogue trunk
MMC 603 Assign Trunk Group	YES	
MMC 702 Toll Deny Table	YES	
MMC 703 Toll Allowance Table	YES	
MMC 714 DDI Table	YES	PRI: DDI BRI: P-P DDI

Table 9 – MMC dependency

PRI and BRI LT-S Port

Call feature capability

For LT-S ports, only basic call functions are provided - you cannot use other functions (transfer, forward, hold etc) from an LT-S terminal. However, a DGP can transfer/forward a call to an LT-S terminal. Other features (conference, hold etc) operate in a similar way.

There is no COS check for an LT-S port.

Pin Assignment of Connectors

PRI

PRI card has one RJ-45 connector with the pin assignments shown in Table10.

Pin Number	Assignment
1	Rx
2	Rx
4	Tx
5	Tx

Table 10 - Pin assignments of RJ-45 at customer premises side for PRI

BRI

Champ connector

DCS

Function	Colour	Colour	Function
Tx of P1	W/BL	BL/W	Tx of P1
Rx of P1	W/O	O/W	Rx of P1
Tx of P2	W/BR	BR/W	Tx of P2
Rx of P2	W/SL	SL/W	Rx of P2
Tx of P3	R/O	O/R	Tx of P3
Rx of P3	R/GR	GR/R	Rx of P3
Tx of P4	R/SL	SL/R	Tx of P4
Rx of P4	BK/BL	BL/BK	Rx of P4

Table 11 - Champ connector pin assignment (DCS)

Note: Tx and Rx has no polarity.

Compact I

Function	Colour	Colour	Function
Tx of P1	W/BL	BL/W	Tx of P1
Rx of P1	W/O	O/W	Rx of P1
Tx of P2	W/GR	GR/W	Tx of P2
Rx of P2	W/BR	BR/W	Rx of P2
Tx of P3	W/SL	SL/W	Tx of P3
Rx of P3	R/BL	BL/R	Rx of P3
Tx of P4	R/O	O/R	Tx of P4
Rx of P4	R/GR	GR/R	Rx of P4

Table 12 - Champ connector pin assignment (Compact I)

Note: Table 12 is based on expansion slot 1 of Compact I. Tx and Rx has no polarity.

Compact II

Function	Colour	Colour	Function
Tx of P1	SL/P	P/SL	Tx of P1
Rx of P1	BR/P	P/BR	Rx of P1
Tx of P2	GR/P	P/GR	Tx of P2
Rx of P2	O/P	P/O	Rx of P2
Tx of P3	BL/P	P/BL	Tx of P3
Rx of P3	SL/Y	Y/SL	Rx of P3
Tx of P4	BR/Y	Y/BR	Tx of P4
Rx of P4	GR/Y	Y/GR	Rx of P4

Table 13 - Champ connector pin assignment (Compact II)

Note: Table 13 is based on expansion slot 1 of Compact II. Tx and Rx has no polarity.

816

Function	Colour	Colour	Function
Tx of P1	W/GR	GR/W	Tx of P1
Rx of P1	W/BR	BR/W	Rx of P1
Tx of P2	W/SL	SL/W	Tx of P2
Rx of P2	R/BL	BL/R	Rx of P2
Tx of P3	R/O	O/R	Tx of P3
Rx of P3	R/GR	GR/R	Rx of P3
Tx of P4	R/BR	BR/R	Tx of P4
Rx of P4	R/SL	SL/R	Rx of P4

Table 14 - Champ connector pin assignment (816)

Note: Tx and Rx has no polarity.

RJ-45 pin assignment for BRI

User Side (LT-T)	Pin Number	NT Side (LT-S)
Tx	3	Rx
Rx	4	Tx
Rx	5	Tx
Tx	6	Rx

Table 15 - Pin assignment of RJ-45 for BRI

Note: DCS-408 and 408i users should refer to the Installation Manual provided with their system for details of pin connections for BRI.

Making an RJ-45 connector extension to BRI

As shown in Table 15, LT-S (NT side) and LT-T (User side) have different pin assignments in RJ-45. You can use the pin assignment tables (11–14) with Table 15 according to the function of the BRI port. You should connect pins with the pins in Table 15 that have the same name.

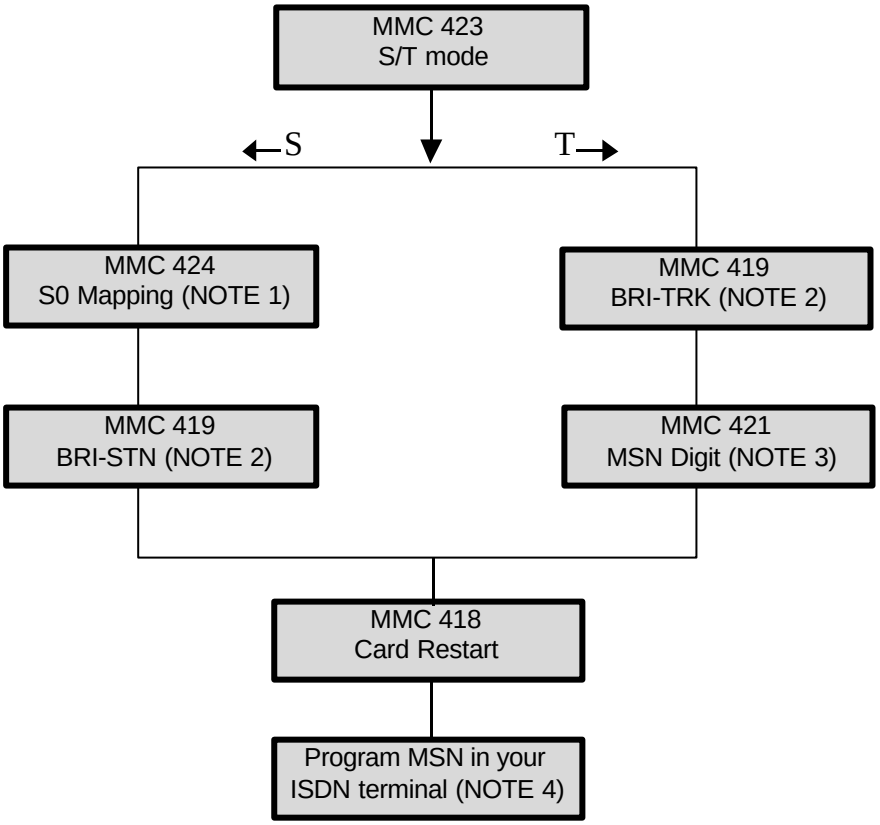
Note: RJ-45 sockets come in different styles which look similar. However, pin numbers may be terminated in different places. Therefore, always check the pin numbers on your connectors.

BRI Related MMC Procedure

There are several MMCs related to BRI cards. Because some MMCs have dependencies on other MMCs, it could become cumbersome to do MMC programming correctly. You should, therefore, program these MMCs in a pre-defined order, as described in this section. Be sure to follow this order, or some of the MMC data will be lost.

Order of Programming

Carry out programming as shown in the diagram, below.



Note:
1. This item does not have to be programmed prior to MMC 419 or MMC 418 (because those MMCs have no effect on this item). However, this item must be preceded by MMC 423.
2. This item displays its name as "BRI-TRK" or "BRI-STN" according to the port setting in MMC 423.
3. This item is only applicable when a BRI access is programmed as P-MP MSN in MMC 419.
4. Only for a STATION port set in MMC 423.

Example of programming a STATION port

Assume that you have a BRI card installed in DCS and its ports are numbered from 701 to 708. You want to use the 4th BRI access (707 and 708) as a STATION port to connect ISDN terminals. The procedure is:

Step 1

Select the functional mode of that port as STATION in MMC 423 (S/T Mode). You can set either 707 or 708 to STATION.

Step 2

Choose whether you want to supply power to that BRI access or not. If you do, set the POWER FEED option to YES in MMC 419.

Step 3

Restart the BRI card by executing MMC 418 (Card Restart) so that the changes you made can take effect.

Step 4

Program MMC 424 (S_0 Mapping) to map an ISDN number into a port. You must also input the "mapped number" as MSN to the ISDN terminals connected to that BRI access. If you mapped 7807 into 707, you must set the MSN of the terminals connected to 707 (or 708) to 7807.

Now, if you dial 7807 from a keyphone (DGP), a SETUP message will be sent out through 707 (or 708) with the called party number of 7807. There can be a number of terminals connected to 707 (or 708) but only terminals with MSN of 7807 will alert. Alternatively, if you dial 707 (or 708) from a DGP, SETUP message will be sent out through 707 (or 708) without the called party number. All terminals connected to 707 (or 708) will alert.

BRI Access

In MMCs 419, 421, 423 and 424, which are related to BRI cards, you can see the "port" number displayed as "7x(x)". Each port stands for a B-channel. Thus, two adjacent ports make up a BRI access. You need only change the settings for one of the two ports for that BRI access.

For example, you may see port 709 and 710 are displayed respectively in the MMCs, but these ports are for the same BRI access. If you change settings for 709 you also change settings for 710, and vice versa.

Part 4. MMC Programs

This part contains all the MMC programs provided for your keyphone system, presented in numerical order.

- The procedure described here for a particular MMC may be slightly different on your system and some LCD displays may not be exactly as shown. For example, port numbers may be different for the system you are programming. Refer to the section *System Configuration: Quick Reference* in Part 1 for the relevant options for your system.

  Also, 408 and 408i systems employ 2-digit extension and group numbers by default, unlike other systems which use 3-digit numbers by default. (These dialling number plans can be changed by the system installer using MMC 724.)

  Remember that the displays shown for each MMC in this manual are provided as examples, and should be used for guidance only.

- To identify which MMCs apply to your system, either refer to the MMC lists at the beginning of this manual, or locate the relevant MMC page here and refer to the tick box beneath the title: a tick (✓) next to the system name indicates it is applicable; a cross (✗) means it is not.

- The procedure described for each MMC assumes you are the installer or system administrator with system-wide access via a passcode. However, MMCs 100–121 are also accessible to individual keyset users. If you are programming your own keyset at Station level, the procedure is different and you should refer to your *Samsung DCS Keyset User Guide* for details.

- The term “DCS” as used in this manual includes Compact I systems, except where otherwise indicated.

- Make sure the correct country is first selected (MMC 812) before carrying out any other programming.

MC: 100 STATION LOCK

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to lock or unlock an individual station or all stations simultaneously. The three options are:

0	UNLOCKED	Unlocks a locked station.
1	LOCKED OUT	Prevents the station from accessing a C.O. line and initiating an external call
2	LOCKED ALL	Prevents the station from initiating any actions.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **100** Display shows	[201] STN LOCK UNLOCKED
2. Dial station number (e.g., 205) OR Use UP and DOWN to select station and use RIGHT soft key to move cursor	[205] STN LOCK UNLOCKED
OR Press ANS/RLS to select all stations	[ALL] STN LOCK ??
3. Enter 0 to unlock, 1 to lock out or 2 to lock all (e.g., 1) OR Press UP or DOWN key to make selection and press RIGHT soft key to return to step 2	[205] STN LOCK LOCKED OUT
4. Press TRSF to save and exit OR Press SPEAKER to save and advance to next MMC	

Default Data: **All stations unlocked**

Related Items: **Station user programming**

MMC: 101 CHANGE USER PASSCODE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to reset keyset passcodes to their default value of "1234." This MMC cannot display station passcodes; it can only reset them to default.

The passcode is used to lock or unlock the keyset for toll restriction (call barring) override and to access the DISA feature.

Note:
Default passcodes cannot be used for toll restriction override, DISA access or the walking class of service function.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **101** Display shows	[201] PASSCODE PASSCODE: ✱✱✱✱
2. Dial keyset number (e.g., 205) OR Use UP or DOWN to scroll through keyset numbers and press RIGHT soft key to move the cursor right	[205] PASSCODE PASSCODE: ✱✱✱✱
3. Press HOLD to reset passcode	[205] PASSCODE PASSCODE : 1234
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **All station passcodes = 1234**

Related Items: **MMC 100 Station Lock**

MMC: 102 CALL FORWARD

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to program the call forward destinations for station users. Also allows call forwarding to be set after the destination has been entered.

The system allows five types of call forwarding: FORWARD ALL, FORWARD BUSY, FORWARD NO ANSWER, and FORWARD EXTERNAL. The FORWARD BUSY/NO ANSWER option allows both BUSY and NO ANSWER options to be activated at the same time, provided that destinations have already been entered for both.

0 = FORWARD CANCEL
1 = ALL CALL
2 = BUSY
3 = NO ANSWER
4 = BUSY/NO ANSWER
5 = EXT (External)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **102** Display shows	[201] FORWARD 0:FORWARD CANCEL
2. Dial station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] FORWARD 0:FORWARD CANCEL
3. Dial 0–5 to select forward type OR Press UP or DOWN to select forward type and press RIGHT soft key to move cursor	[205] FORWARD 1:ALL CALL:NONE
4. Dial destination number (e.g., 201) OR Press UP or DOWN to select destination and press RIGHT soft key to move cursor	[205] FORWARD 1:ALL CALL:201
5. Dial 1 for YES, 0 for NO OR Press UP or DOWN to select YES or NO and press RIGHT soft key to return to step 2	[205] FORWARD CURENTLY SET :YES
6. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **All stations 0 (Forward Cancel)**

Related Items:
MMC 301 Assign Station COS
MMC 501 System-Wide Timers
MMC 502 Station-Wide Timers
MMC 701 Assign COS Contents
MMC 722 Station Key Programming
MMC 723 System Key Programming

MMC: 103 SET ANSWER MODE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to change the answer mode of any keyset. Each keyset can have its answer mode set to one of the following options:

0. RING: The keyset will ring in one of eight custom ring patterns. Calls are answered by pressing the ANS/RLS key or by lifting the handset.

1. AUTO ANSWER: After giving a short attention tone, the keyset will automatically answer calls on the speakerphone. When a C.O. line is transferred to a keyset in Auto Answer mode, the screened portion of the call will be Auto Answer, but the keyset will ring when the transfer is complete if the user has not pressed the ANS/RLS key or lifted the handset.

2. VOICE ANNOUNCE: The keyset will not ring. After a short attention tone, callers can make an announcement but the ANS/RLS key or handset must be used to answer calls.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **103** Display shows	[201] ANS MODE RING MODE
2. Dial keyset number (e.g., 205) OR Press UP or DOWN to select keyset and press RIGHT soft key to move cursor	[205] ANS MODE RING MODE
OR Press ANS/RLS to select All	[ALL] ANS MODE ?
3. Dial 0, 1 or 2 to change ring mode OR Press UP or DOWN to select ring mode and press RIGHT soft key to return to step 2	[205] ANS MODE VOICE ANNOUNCE
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **All keysets = RING**
Ring frequency default = 5

Related Items: **MMC 111 Keyset Ring Tone**

MMC: 104 STATION NAME

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to enter a name, up to 11 characters, to identify an individual station.

Names are written using the keypad. Each key press selects a character and moves the cursor to the next position. For example, if the name is “SAM SMITH”, press the number “7” four times to get the letter “S”. Now press the number “2” once to get the letter “A” Continue selecting characters from the keypad to complete your name. Press the programmable “A” key to toggle between upper and lower case text.

Tip: When the character you want is on the same key as the previous character you typed in, press the UP key to move the cursor to the right, then select the character.

The # key can be used for the following special characters (in sequence of key presses):

#	space	&	!	:	?	.	,	%	$	-	<	>	/	=
[	]	@	^	(	)	_	+	{	}	|	;	"	→	`

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
“A”	Key #19 (24B keyset) or key #7 (12B keyset) or key #1 (6B keyset) toggles upper and lower case text.

ACTION	**DISPLAY**
1. Open programming and select **104** Display shows	[201] STN NAME
2. Dial station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] STN NAME _
3. Enter the station name using the procedure described above and press RIGHT soft key to return to step 2	[205] STN NAME SAM SMITH_
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **None**

MMC: 105 STATION SPEED DIAL

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to program personal speed dial numbers for stations. This may be particularly useful for single line telephones which are more difficult to program by the station user. Each station can have up to five blocks of speed dials—each containing 10 numbers (giving a total of 50 numbers)—assigned to it in MMC 606, *Assign Speed Block*. By default, each station has one block (for 10 numbers) assigned.

Speed dials are numbered 00–49. Each speed dial may contain a trunk or trunk group access code (e.g. 9) followed by a separator (–) and up to 24 digits to be dialled. These dialled digits can be 0–9, ✻ and #. If the system recognises a valid trunk or trunk group access number, it will automatically insert the separator.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
“B”	Used to insert a flash code “F”
”C”	Used to insert a pause code “P”
”D”	Used to insert a pulse/tone conversion code “C”
”E”	Used to mask/unmask following digits (shows as “[“ or “]”)
”F”	Used to enter name for speed dial bin (see MMC 106)

Keys “A” to “F” are keys #19 to #24 on 24B keysets, or keys #7 to #12 on 12B keysets, or keys #1 to #6 on 6B keysets.

ACTION	**DISPLAY**
1. Open programming and select **105** Display shows	[201] SPEED DIAL 00 :
2. Dial station number (e.g. 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] SPEED DIAL 00 :
If selected station has no speed dial blocks assigned, the display will be as shown and a new station may be selected.	[205] SPEED DIAL NO SPEED BLOCK
3. Enter speed dial number (e.g., 05) OR Press UP or DOWN to select location and press RIGHT soft key to move cursor	[205] SPEED DIAL 05: _
4. Enter trunk access code (e.g., 9) followed by the number to be dialled (e.g., 08104264100)	[205] SPEED DIAL 05 : 9-08104264100_
If you make an error, press the HOLD key to clear an entire entry or use the DOWN key to move the cursor back	

5. Press the “F” key to access MMC 106, *Station Speed Dial Name*, to enter name
   OR
   Press the LEFT soft key to return to step 3 (new dial no)
   OR
   Press the RIGHT soft key to return to step 2 (new stn)
   OR
   Press TRSF to save and exit
   OR
   Press SPEAKER to save and advance to next MMC

Default Data: **None**

Related Items: **MMC 106 Station Speed Dial Name**
MMC 606 Assign Speed Block

MMC: 106 STATION SPEED DIAL NAME

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows a name, up to 11 characters, to be entered for each personal speed dial location. This name enables the speed dial number to be located when the directory dial feature is used. The directory dial feature allows the display keyset user to select a speed dial location by viewing its name.

Names are written using the keypad. Each key press selects a character and moves the cursor to the next position. For example, if the name is “SAM SMITH”, press the number “7” four times to get the letter “S”. Now press the number “2” once to get the letter “A” Continue selecting characters from the keypad to complete your name. Press the programmable “A” key to toggle between upper and lower case text.

Tip: When the character you want is on the same key as the previous character you typed in, press the UP key to move the cursor to the right, then select the character.

The # key can be used for the following special characters (in sequence of key presses):

#	space	&	!	:	?	.	,	%	$	-	<	>	/	=
[	]	@	^	(	)	_	+	{	}	|	;	"	→	`

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
“A”	Key #19 (24B keyset) or key #7 (12B keyset) or key #1 (6B keyset) toggles upper and lower case text.

ACTION	**DISPLAY**
1. Open programming and select **106** Display shows	[201] SPEED NAME 00:
2. Dial station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] SPEED NAME 00:
If selected station has no speed dial bins, the display will be as shown and a new station may be selected	[205] SPEED NAME NO SPEED BLOCK
3. Dial speed dial location (e.g., 01) OR Press UP or DOWN to scroll through location numbers and press RIGHT soft key to move cursor	[205] SPEED NAME 01:_
4. Enter the location name using the procedure described above and press RIGHT soft key to return to step 2	[205] SPEED NAME 01:SAM SMITH_

5. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **None**

Related Items: **MMC 105 Station Speed Dial**
MMC 606 Assign Speed Block

MMC: 107 KEY EXTENDER

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Used to view the programmable keys assigned to keyset stations. In addition, it allows the system administrator to assign key extenders to those programmed keys which can have extenders, making general access feature keys more specific. For example, you may want to set an SPD (Speed Dial) key to dial personal speed dial code 01 when selected. (Extenders may also be entered in MMC 722 or 723 when programming key assignments.) The feature keys that can have extenders are listed below.

FEATURE KEY	**FUNCTION**	**EXTENDER**			
		DCS	**CII**	**816**	**408/408i**
BOSS	Boss and Secretary	1–4	1–4	1–4	1–2
DIR	Directory dial by name type	1–3			
DP	Direct Pick Up	Extension or station group number			
DS	Direct Station Select	Station number			
FWRD	Call Forward	0–5			
GPIK	Group Pick Up	01–20	01–20	01–08	01–04
IG	In/Out Group	500–529	500–519	500–509	50–53
MMPG	Meet Me Page	0–9, ∗	0–9, ∗	0–4, 5, ∗	0–2, 5, ∗
PAGE	Page	0–9, ∗	0–9, ∗	0–4, 5, ∗	0–2, 5, ∗
PMSG	Programmed Station Message	01–20			
SG	Station Group	500–529	500–519	500–509	50–53
SPD	Speed Dial	00–49, 500–999	00–49, 500–999	00–49, 500–799	00–49, 500–699
SP	UCD Supervisor	UCD/ACD Group Number			N/A
VT	VM Transfer	VM/AA Group Number			

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **107** Display shows OR For 408 and 408i systems, display shows:	[201] EXT (MAST) 01:CALL1 → OR [21] EXT EXTEND 01:DT71 →
2. Dial station number (e.g., 205) OR Use UP or DOWN to scroll through station numbers and press RIGHT soft key to move the cursor	[205] EXT (MAST) 01:CALL1 →
3. Enter key number (e.g., 18) OR Press UP and DOWN to scroll through keys and use RIGHT soft key to move the cursor OR Use above table to select desired extender System will return to this step	[205] EXT (MAST) 18:DS → _ 205] EXT (MAST) 18:DS →DS207
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Note: If the RIGHT soft key will not move the cursor to the right, you are attempting to add an extender to a key that cannot have one (refer to the table, above, for allowed key extenders).

Default Data: **None**

Related Items: **MMC 720 Copy Key Programming**
MMC 721 Save Station Key Programming
MMC 722 Station Key Programming
MMC 723 System Key Programming

MMC: 108 STATION STATUS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

This is a **read-only** MMC. Displays the following attributes of a station port:

	DCS	Compact II	816	408 / 408i
0	PORT NO: #: Cabinet (1–3)/Slot (1–7)/Port (1–16)	PORT NO: Slot (BASE, OSLI, MISC, EX1–7)/Port (1–16)	PORT NO: 8DLI (01–08) or 4SLI (01–04)	PORT NO: 4DLI (01–04) or 4SLI (01–04)
1	TENANT NUMBER: 1–2	TYPE: Type of phone (e.g. 12B EU)	TYPE: Type of phone (e.g. 12B EU)	TYPE: Type of phone (e.g. 12B EU)
2	TYPE: Type of phone (e.g. 12B, 24B)	PICKUP GROUP: None, 01–20	PICKUP GROUP: None, 01–08	PICKUP GROUP: None, 01–04
3	PICKUP GROUP: None, 01–20	SGR: Station Group Number	SGR: Station Group Number	SGR: Station Group Number
4	SGR: Station Group Number	BOSS-SECR: None, BOSS, SECR	BOSS-SECR: None, BOSS, SECR	BOSS-SECR: None, BOSS, SECR
5	BOSS-SECR: None, BOSS, SECR	PAGE: Page Zone (None, 1–4, *)	PAGE: Page Zone (None, 1–4, *)	PAGE: Page Zone (None, 1–2)
6	PAGE: Page Zone (None, 1–4, *)	DAY COS NO: COS (01–30)	DAY COS NO: COS (01–10)	DAY COS NO: COS (1–4)
7	DAY COS NO: COS (01–30)	NIGHT COS NO: COS (01–30)	NIGHT COS NO: COS (01–10)	NIGHT COS NO: COS (1–4)
8	NIGHT COS NO: COS (01–30)	—	—	—

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to advance to next MMC

ACTION	DISPLAY
1. Open programming and select **108** Display shows first station (e.g. for Compact II)	[201] STN STATUS PORT NO:BASE01
2. Dial station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] STN STATUS PORT NO:EX1-01
3. Dial 0–8 using table above to select station status option OR Press UP or DOWN to select status and press RIGHT soft key to return to step 2	[205] STN STATUS PICKUP GROUP:01

4. Press TRSF to exit
   OR
   Press SPEAKER to advance to next MMC

Default Data:	**Port No:**	**Follows hardware position**
	Type:	**Follows phone type**
	Tenant Number:	**1 (DCS only)**
	Pickup Group:	**01**
	SGR:	**None**
	Boss–Secr:	**None**
	Page:	**None**
	Day COS No:	**01 (or 1)**
	Night COS No:	**01 (or 1)**

Related Items:
MMC 301 Assign Station COS
MMC 302 Pickup Groups
MMC 303 Assign Boss/Secretary
MMC 601 Assign Station Group
MMC 604 Assign Station to Page Zone
MMC 803 Assign Tenant Group (DCS only)

MMC: 109 DATE DISPLAY

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to select the date and time display mode on a per-station basis or system-wide.

0	COUNTRY	Sets overall display format and has two options: 0 = ORIENTAL MM/DD DAY HH:MM 1 = WESTERN DAY DD MON HH:MM
1	CLOCK	Sets format of clock display and has two options: 0 = 12 HOUR Displays 1 P.M. as 01:00 1 = 24 HOUR Displays 1 P.M. as 13:00
2	DISPLAY	Sets format of DAY and MONTH display and has two options: 0 = UPPER CASE Displays Friday as FRI and March as MAR 1 = LOWER CASE Displays Friday as Fri and March as Mar

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **109** Display shows	[201] DAY FORMAT COUNTRY:WESTERN
2. Dial station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] DAY FORMAT COUNTRY:WESTERN
OR Press ANS/RLS for all keysets	[ALL]DAY FORMAT COUNTRY:?
3. Dial 0–2 to select option (e.g. Country) OR Press UP or DOWN to scroll through modes and press RIGHT soft key to move cursor	[205] DAY FORMAT COUNTRY:WESTERN
4. Dial 0 or 1 to select option format (e.g. Oriental) OR Press UP or DOWN to select format and press RIGHT soft key to return to step 2	[205] DAY FORMAT COUNTRY:ORIENTAL
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **Country: Western**
Clock: 24 hour
Display: Lowercase

Related Items: **MMC 505 Assign Date and Time**

MMC: 110 STATION ON/OFF

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to set any of the following keyset features.

AUTO HOLD	Automatically places an existing C.O. call on hold if a CALL key, trunk key or trunk route key is pressed during that call.
AUTO TIMER	Automatically starts the stopwatch timer during a C.O. call. (CALL COST option, below, should be OFF for this feature to work.)
HEADSET USE	When ON, this feature disables the hookswitch allowing a headset user to answer all calls by pressing the ANS/RLS key.
HOT KEYPAD	When ON, this feature allows the user to dial numbers on the keypad without having to first lift the handset or press the SPEAKER key.
KEY TONE	Allows the user to hear a slight tone when pressing keys on the keyset.
PAGE REJOIN	Allows the user to hear the latter part of page announcements if the keyset becomes free during a page.
RING PREFER	When OFF, requires the user to press the fast flashing button to answer a ringing call after lifting the handset.
CALL COST	If enabled (ON), LCD shows real-time call cost based on Metering Pulses arrived. (See AUTO TIMER option.)
AME BGM	Determines whether a station using Answering Machine Emulation will hear their personal greeting or background music (BGM) while callers are listening to the personal greeting. A BGM source must be selected for this to work. (Cadence and SVMi-4 voice mail systems only.)
AME PSWD	Sets the Answering Machine Emulation password ON or OFF. (Cadence and SVMi-4 voice mail systems only.)
NOT CONT.CID	When ON, the keyset displays the call timer for the duration of an incoming trunk call (if AUTO TIMER is ON). When OFF, the CLIP number for a call is displayed for the duration of the call. (Not applicable to 408 systems.)

Note: Keyset users can set or change these options for their own keyset (refer to the *Samsung DCS Keyset User Guide* for details).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	DISPLAY
1. Open programming and select **110** Display shows	[201] STN ON/OFF AUTO HOLD :OFF
2. Dial station number (e.g., 205) OR Press UP or DOWN to select keyset and press RIGHT soft key to move cursor	[205] STN ON/OFF AUTO HOLD :OFF
OR Press ANS/RLS for ALL	[ALL] STN ON/OFF AUTO HOLD :?
3. Press UP or DOWN to select option and press RIGHT soft key to move cursor	[205] STN ON/OFF HOT KEYPAD : ON
4. Dial 1 for ON or 0 for OFF OR Press UP or DOWN to select ON or OFF and press LEFT or RIGHT soft key to return to step 3	[205] STN ON/OFF HOT KEYPAD :OFF
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:

Auto Hold	**Off**
Auto Timer	**On**
Headset Use	**Off**
Hot Keypad	**On**
Key Tone	**On**
Page Rejoin	**On**
Ring Pref	**On**
Call Cost	**Off**
Not Cont.CID	**Off**
AME BGM	**Off**
AME PSWD	**Off**

Related Items: **MMC 301 Assign Station COS**
MMC 701 Assign COS Contents

MMC: 111 KEYSET RING TONE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to select the ring tone heard at each keyset. There are eight (1–8) ring tones available. A short tone burst of the selection will be heard when a key is pressed.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **111** Display shows	[201] RING TONE SELECTION 5
2. Dial keyset number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] RING TONE SELECTION 5
OR Press ANS/RLS to select All	[ALL] RING TONE SELECTION ?
3. Dial 1–8 to select ring tone OR Press UP or DOWN to select ring tone and press RIGHT soft key to move cursor	[205] RING TONE SELECTION 6
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **SELECTION 5**

Related Items: **MMC 114 Station Volume**

MMC: 112 ALARM REMINDER

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to set or change the alarm clock/appointment reminder feature for any station. Keyset users can set their own alarms. **A number of alarms may be set for each station: three (1–3) for DCS systems or two (1–2) for Compact II, 816 and 408/408i systems**. Each alarm may be defined as a one-time or TODAY alarm, or as a DAILY alarm, or NOTSET as described below. The TODAY alarm is automatically cancelled after it rings, while the DAILY alarm rings every day at the same time.

Dial 0: NOTSET Dial 1: TODAY Dial 2: DAILY

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **112** Display shows	[201] ALM CLK(1) HHMM: →NOTSET
2. Dial station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] ALM CLK(1) HHMM: →NOTSET
3. Dial alarm number (e.g., 2) OR Press UP or DOWN to select alarm and press RIGHT soft key to move cursor OR Press LEFT soft key to return to step 2	[205] ALM CLK(2) HHMM: →NOTSET
4. Enter alarm time in 24-hour clock format (e.g., 1300) Display will automatically advance to step 5	[205] ALM CLK (2) HHMM:1300→NOTSET
5. Dial valid entry from above list for alarm type (e.g. 2, DAILY) OR Press UP or DOWN to select alarm type and press RIGHT soft key to move cursor and return to step 2	[205] ALM CLK (2) HHMM:1300→DAILY
6. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **Alarms set to NOTSET**

Related Items: **None**

MMC: 113 VIEW MEMO NUMBER

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to enter memos on stations. Up to three memos can be entered, depending on your system. MMC 116 (Alarm and Message) can be programmed to remind the station user to read the memo(s).

Each memo can be up to 13 characters long and is entered using the dial keypad. For example, press “6” once to enter the letter ”M”, and press ”3” twice for an ”E”. Continue selecting characters from the keypad to complete the memo. Press the programmable ”A” key to toggle between upper and lower case text.

Tip: When the character you want is on the same key as the previous character you typed in, press the UP key to move the cursor to the right, then select the character.

The # key can be used for the following special characters (in sequence of key presses):

#	space	&	!	:	?	.	,	%	$	-	<	>	/	=
[	]	@	^	(	)	_	+	{	}	|	;	"	→	`

PROGRAM KEYS

KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
“A”	Key #19 (24B keyset) or key #7 (12B keyset) or key #1 (6B keyset) toggles uppercase and lowercase text.

ACTION	**DISPLAY**
1. Open programming and select **113** Display shows	[201] VIEW MEMO 1:
2. Dial the station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] VIEW MEMO 1:
3. Dial memo number (1–3) OR Press UP or DOWN to select and press RIGHT soft key to move cursor	[205] VIEW MEMO 1:_
4. Press RIGHT soft key to move cursor and add memo via dial keypad using above procedure	[205] VIEW MEMO 1:CALL TOM
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **MMC 116 Alarm and Message**

MMC: 114 STATION VOLUME

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to set volume levels for keysets.

0	RING VOLUME	Set a level for ring volume. There are eight volume levels: level 1 is the lowest and level 8 the highest.
1	OFF-RING VOL	Set a level for off-hook ring volume. There are eight volume levels: level 1 is the lowest and level 8 the highest.
2	HANDSET VOL	Set a level for listening volume through handset. There are eight volume levels: level 1 is the lowest and level 8 the highest.
3	SPEAKER VOL	Set a level for listening volume through speaker. There are 16 volume levels: level 1 is the lowest and level 16 the highest.
4	BGM VOLUME	Set a level for background music volume. There are 16 volume levels: level 1 is the lowest and level 16 the highest.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **114** Display shows	[201] STN VOLUME RING VOLUME : 4
2. Dial station number (e.g. 205)	[205] STN VOLUME RING VOLUME : 4
3. Dial option number OR Press UP or DOWN to select option and press RIGHT soft key	[205] STN VOLUME OFF-RING VOL: 4
4. Dial volume level using keypad (you will hear a brief tone for the level you select) and system returns to step 3 OR Press UP or DOWN to select volume (you will hear a brief tone for each level) and press RIGHT soft key to return to step 3	[205] STN VOLUME OFF-RING VOL: 3
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:

Ring Volume	**4**
Off-Hook Ring Volume	**4**
Handset Volume	**4**
Speaker Volume	**13**
BGM Volume	**13**

Related Items: **MMC 111 Keyset Ring Tone**

MMC: 115 SET PROGRAMMED MESSAGE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to set a programmed message at individual or all keysets. There are 20 messages available (01–20). These messages are as set up in MMC 715, *Programmed Station Message*.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **115** Display shows	[201] PGMMSG(00) CANCEL PGM MSG
2. Dial station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] PGMMSG(00) CANCEL PGM MSG
OR Press ANS/RLS to select All	[ALL] PGMMSG(??)
3. Dial 01–20 to select message number (e.g., 05) OR Press UP or DOWN to select message and press RIGHT soft key to return to step 2 OR Select 00 to cancel a previously set message	[205] PGMMSG(05) PAGE ME
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **No messages selected**

Related Items: **MMC 715 Programmed Station Message**
MMC 722 Station Key Programming
MMC 723 System Key Programming

MMC: 116 ALARM AND MESSAGE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator or technician to set or change the alarm clock/appointment reminder feature for individual or all stations. **For DCS systems, three alarms (1–3) can be set for each station. For other systems, two alarms (1–2) can be set.** Each alarm may be defined as a one-time or TODAY alarm, as a DAILY alarm, or NOTSET as described below. The TODAY alarm is automatically cancelled after it rings, while the DAILY alarm rings every day at the same time. It is also possible to set a message to display when the alarm is sounded.

Dial	Alarm Type
0	NOTSET
1	TODAY
2	DAILY

Messages are written using the keypad. Each key press selects a character and moves the cursor to the next position. For example, if the message is “MEETING”, press the number “6” once to get the letter “M”. Now press the number “3” twice to get the letter “E” Continue selecting characters from the keypad to complete your message. Press the programmable “A” key to toggle between upper and lower case text.

Tip: When the character you want is on the same key as the previous character you typed in, press the UP key to move the cursor to the right, then select the character.

The # key can be used for the following special characters (in sequence of key presses):

#	space	&	!	:	?	.	,	%	$	-	<	>	/	=
[	]	@	^	(	)	_	+	{	}	|	;	"	→	`

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
“A”	Key #19 (24B keysets) or key #7 (12B keysets) or key #1 (6B keysets) toggles upper case and lower case text.

ACTION	DISPLAY
1. Open programming and select **116** Display shows	[201] ALM REM(1) HHMM: ➔NOTSET
2. Dial station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] ALM REM(1) HHMM: ➔NOTSET
OR Press ANS/RLS to select all stations	[ALL] ALM REM(1) HHMM: ➔NOTSET
3. Dial alarm number (e.g., 2) OR Press UP or DOWN to select alarm and press RIGHT soft key to move cursor	[205] ALM REM(2) HHMM: ➔NOTSET
4. Enter alarm time in 24-hour clock format (e.g., 1300 for 1pm) Display will automatically advance to step 5	[205] ALM REM(2) HHMM:1300➔NOTSET
5. Dial valid entry from above list for alarm type (e.g. 2, DAILY) OR Press UP or DOWN to select alarm type and press RIGHT soft key to move cursor	[205] ALM REM(2) HHMM:1300➔DAILY
6. Enter message using above method and press RIGHT soft key to return to step 2	[205] ALM REM(2) Meeting
7. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **Alarms set to NOTSET**

Related Items: **None**

MMC: 119 SET CLIP DISPLAY

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✗

Allows the system administrator or keyset user to change the order in which CLIP information is displayed on a keyset LCD. CLIP display options are as follows:

0	NO DISPLAY	No CLIP data is displayed.
1	NUMBER FIRST	CLIP number received from central office is displayed first.
2	NAME FIRST	CLIP name is displayed first (if set in MMC 728)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SPEAKER	Save data and advance to next MMC
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **119** Display shows	[201] CLIP DISP. NAME FIRST
2. Enter station number (e.g. 204) OR Press UP or DOWN to scroll through stations and press RIGHT soft key to select a station OR Press ANS/RLS to select ALL	[204] CLIP DISP. NAME FIRST [ALL] CLIP DISP. ?
3. Dial display option 0, 1 or 2 (e.g. 1) Press UP or DOWN to select option and press RIGHT or LEFT soft key to return to step 2	[204] CLIP DISP. NUMBER FIRST
4. Press TRSF to store and exit OR Press SPEAKER to save and advance to next MMC	

Default Data : **NAME FIRST**

Related Items: **MMC 728 CLIP Translation Table**

MMC: 121 KEYSET LANGUAGE

DCS	✓	CI	✗	CII	✓	816	✓	408i	✓	408	✓

Used to assign an LCD display based on a keyset user's own language. Options include some or all of the following, depending on your system:

ENGLISH
GERMAN
PORTUGAL
NORSK (NORWAY)
DANISH
DUTCH
ITALY
SPANISH

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **121** Display shows	[201] LANGUAGE ENGLISH
2. Dial keyset number (e.g., 205) OR Press UP or DOWN to select keyset and press RIGHT soft key OR Press ANS/RLS to select All	[205] LANGUAGE ENGLISH [ALL] LANGUAGE ?
3. Press UP or DOWN to select language and press RIGHT soft key.	[205] LANGUAGE GERMAN
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **ENGLISH**

Related Items: **Multi-Language**

MMC: 200 OPEN CUSTOMER PROGRAMMING

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Used to open (enable) or close (disable) customer-level programming by the system administrator. If programming is not opened and an attempt is made to access a customer-level MMC, the error message [NOT PERMIT] will be displayed. A four-digit passcode is required to enable customer programming (which can be changed in MMC 201, if required). Each digit can be 0-9. When opened, this MMC allows access to all MMCs specified by the system installer in MMC 802, *Customer Access MMC Number.*

PROGRAM KEYS

UP & DOWN	Select open or closed
KEYPAD	Used to enter passcode
SPEAKER	Save data and advance to next MMC
TRSF	Exit Programming

ACTION	**DISPLAY**
1. Press **TRSF 200** Display shows	ENABLE CUS.PROG. PASSCODE:_
2. Enter passcode	ENABLE CUS.PROG. PASSCODE: ****
Correct code shows	ENABLE CUS.PROG. DISABLE
Incorrect code shows	ENABLE CUS.PROG. PASSWORD ERROR
3. Dial 1 for ENABLE or 0 for DISABLE OR Press UP or DOWN arrow key to select ENABLE or DISABLE and press RIGHT soft key	ENABLE CUS.PROG. ENABLE
4. Press SPEAKER to advance to MMC entry level and press UP or DOWN key to select MMC (e.g. 212) OR Enter MMC number and press RIGHT soft key to enter MMC	212:ALARM RING SELECT PROG. ID
5. Press TRSF key to exit	

Default Data: **DISABLE (closed)**
Passcode = 1234

Related Items: **MMC 201 Change Customer Passcode**
MMC 501 System-Wide Timers
MMC 802 Customer Access MMC Number

MMC: 201 CHANGE CUSTOMER PASSCODE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Used to change the passcode allowing access to MMC 200, *Open Customer Programming*, from its current value.

PROGRAM KEYS

KEYPAD	Used to enter passcodes
SPEAKER	Save data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **201**	CUST. PASSCODE NEW CODE:_
2. Enter new passcode via dial keypad (maximum four digits)	CUST. PASSCODE NEW CODE: ✻✻✻✻
3. Verify new passcode via dial keypad	CUST. PASSCODE VERIFY : ✻✻✻✻
PASSCODE verify successful (go to step 4) OR	CUST. PASSCODE VERIFY :SUCCESS
PASSCODE verify failure (return to step 2)	CUST. PASSCODE VERIFY :FAILURE
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **Passcode** = **1234**

Related Items: **MMC 200 Open Customer Programming**

MMC: 202 CHANGE FEATURE PASSCODES

DCS	✓	CI	✗	CII	✓	816	✓	408i	✓	408	✓

Your system supports some or all of the following features:

DAY/NIGHT
DISA ALARM
ALARM CLR
AA RECORD
DECT (BSI) REGISTER

This MMC is used to change the passcode for supported features

Note: The passcode is four digits long. Each digit can be 0–9.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter passcodes
SPEAKER	Save data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **202** Display shows	CHANGE PASSCODE DAY/NIGHT :0000
2. Press UP or DOWN key to make selection Press RIGHT soft key to move cursor to passcode entry	CHANGE PASSCODE ALARM CLR :8765
3. Enter new passcode via digits from dial keypad Press RIGHT soft key to return to step 2 Continue to change other passcodes	CHANGE PASSCODE ALARM CLR :9999
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:

DAY/NIGHT	**0000**
DISA ALARM	**5678**
ALARM CLR	**8765**
AA RECORD	**4321**
DECT REGISTER	**4321**

Related Items:

MMC 212 Alarm Ringing Station
MMC 214 DISA Alarm Ringing Station
MMC 410 Assign DISA Trunk
MMC 507 Assign Auto Night Time
MMC 737 DECT System Code
MMC 744 BSI Registration On/Off

MMC: 203 ASSIGN UA DEVICE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Assigns the ringing device to be accessed when a Universal Answer (UA) key is pressed or the UA pickup code is dialled. UA assignment is made in MMC 601, *Assign Station Group*, for a group and then the group is entered here. The UA device can be one of the device types listed below. The device type is automatically determined by the directory number (DN) entered.

DIRECTORY NUMBER (DN)				DEVICE TYPE	DESCRIPTION
DCS	**CII**	**816**	**408/408i**		
201–349	201–308	201–216	21–28	STATION	The UA device is a keyset or SLT.
3601–3602	361–365	361–362	361	RING PAGE	Ring over page.
500–529	500–519	500–509	50–53	STATION GROUP	The UA device is a station group.

Note: Only one of the above options can be selected. If the ability to ring more than one item (e.g., all four external page zones) is required, a station group containing all four zone codes must be created.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter DN of selected device
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION **DISPLAY**

1. Open programming and select **203**
   Display shows current assignment

   ASSIGN UA PORT
   NONE-NO UA

2. Dial DN of UA device (e.g., 205)
   OR
   Use UP and DOWN keys to scroll through available devices

   ASSIGN UA PORT
   205 -STATION

3. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **None**

Related Items: **MMC 204 Common Bell Control**
MMC 219 Common Relay Service Type
MMC 601 Assign Station Group
MMC 605 Assign External Page Zone

MMC: 204 COMMON BELL CONTROL

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Determines whether the common bell relay contacts have an interrupted or continuous closure when activated. If interrupted is chosen, the relay follows an internal ring pattern of one second closed followed by three seconds open.

By default, all common bell relay pairs are assigned as:

DCS: 380x

Compact II: 363–365

816: 362

408 and 408i: 361

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor
SPEAKER	Used to store data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **204** Display shows current setting (Note: Display differs according to system)	[3801]COM. BELL CONTINUOUS OR [363] COM/LD BELL CONTINUOUS
2. Dial common bell number OR Press UP or DOWN key to make selection of common bell numbers and press RIGHT soft key to advance cursor	
3. Dial 0 for continuous or 1 for interrupted operation OR Use UP or DOWN to scroll through options Press RIGHT soft key to return to step 2	[3801]COM. BELL INTERRUPTED OR [363] COM/LD BELL INTERRUPTED
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **Continuous**

Related Items: **MMC 203 Assign UA Device**
MMC 219 Common Relay Service Type
MMC 601 Assign Station Group

MMC: 205 ASSIGN LOUD BELL

DCS	✓	CI	✗	CII	✓	816	✓	408i	✓	408	✓

Designates the station that controls the loud bell ring output of one of the following:

DCS systems—a Trunk A card. Each Trunk A card has one loud bell output; these outputs are given a Directory Number of 3901–3920 as a default value to enable them to be assigned.

Compact II systems—a Misc card (assigned in MMC 219, *Common Relay Service Type*).

816 and 408/408i systems—a base board (assigned in MMC 219, *Common Relay Service Type*).

The loud bell will follow the ring cadence of the designated station. Only a station can be assigned to control the loud bell; a station group cannot be assigned.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Clears previous entry

ACTION	**DISPLAY**
1. Open programming and select **205** Display shows current setting	[361] LOUD BELL RING PAIR : NONE
2. Dial loud bell number (e.g., 362) OR Use UP or DOWN to scroll through loud bell numbers and press RIGHT soft key to move the cursor	[362] LOUD BELL RING PAIR : NONE
3. Enter station number (e.g., 201) OR Press UP or DOWN key to make selection and press RIGHT soft key to return to step 2	[362] LOUD BELL RING PAIR :201
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **NONE (Unassigned)**

Related Items: **MMC 219 Common Relay Service Type**

MMC: 206 BARGE-IN TYPE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

The Barge In feature allows selected keysets to intrude on other keysets which are not set as secure from barge in. This MMC sets the type of barge-in that is permitted.

DIAL	TYPE OF BARGE-IN	DESCRIPTION
0	NO BARGE IN	Barge-in feature is unavailable regardless of a station's barge-in status.
1	WITH TONE	Barge-in will have an intrusion tone and display at the barged-in on station.
2	WITHOUT TONE	There is no barge-in tone or display at the barged-in on station and the barging-in station will be muted.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION

1. Open programming and select **206**
   Display shows

   DISPLAY

   BARGE IN TYPE
   NO BARGE IN

2. Dial 0–2 to select barge-in type (e.g., 2)
   OR
   Press UP or DOWN to select barge-in type and press RIGHT soft key

   BARGE IN TYPE
   WITHOUT TONE

3. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **NO BARGE IN**

Related Items: **MMC 301 Assign Station COS**
MMC 701 Assign COS Contents

MMC: 207 ASSIGN VM/AA PORT

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Enables SLI ports to be designated as NORMAL or VMAA. VMAA ports receive digits designated in MMC 726, *VM/AA Options*, and also receive a true disconnect signal upon completion of a call. Do not make VMAA ports data; this will return them to a single line port and stop voice mail integration. VMAA ports have the equivalent of data protect written in the program and are protected against tones.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **207** Display shows	[209] VMAA PORT NORMAL PORT
2. Dial station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] VMAA PORT NORMAL PORT
3. Dial 1 or 0 to select port type (1=VMAA, 0=NORMAL) OR Press UP or DOWN to select option and press RIGHT soft key	[205] VMAA PORT VMAA PORT
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **NORMAL PORT**

Related Items: **MMC 601 Assign Station Group**
MMC 726 VM/AA Options

MMC: 208 ASSIGN RING TYPE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Provides the flexibility to program SLTs to have ICM ringing, C.O. ringing and data secure. With the many types of external ringing devices, all configurations can be met. DATA RING also has a positive disconnect signal. Do not make VM/AA ports data; this will return them to a single line port and stop voice mail integration.

OPTIONS

0 ICM RING
1 C.O. RING
2 DATA RING

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **208** Display shows	[209] RING TYPE ICM RING
2. Dial SLT station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] RING TYPE ICM RING
3. Dial 0, 1 or 2 to select port type (e.g. 2) OR Press UP or DOWN to select option and press LEFT or RIGHT soft key to return to step 2 above	[205] RING TYPE DATA RING
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **ICM RING**

Related Items: **None**

MMC: 209 ASSIGN ADD-ON MODULE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✗	408	✗

Designates to which station an add-on module (AOM) is assigned.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
RELEASE	Used to store data and advance to next MMC
HOLD	Clears previous entry

ACTION	**DISPLAY**
1. Open programming and select **209** Display shows first AOM	[301] AOM MASTER MASTER:NONE
2. Dial AOM number OR Press UP or DOWN to scroll through AOM numbers and press RIGHT soft key to move the cursor	[301] AOM MASTER MASTER:NONE
3. Enter station number, (e.g., 201) OR Press UP or DOWN to select station numbers	[301] AOM MASTER MASTER:201
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **MASTER = NONE**

Related Items: **None**

MMC: 210 CUSTOMER ON/OFF

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to set system features on or off. Not all features are available on all systems. Refer to the following table for details (a tick means “available”).

FEATURE	DESCRIPTION	SYSTEM		
		DCS/CII	816	408/408i
DISA PSWD	Determines whether outside customers are required to enter DISA passcode (Yes = ON, No = OFF).	✓	✓	✓
LCR ENABLE	Enables LCR feature in the system.	✓	✓	✓
SMDI VMS SET	Allows SMDI integration through RS-232 port for the external PC-based Voice Mail system	✓	✗	✗
PERI UCD SET	Periodic UCD information provider. Enables UCD statistics data on a per UCD group basis to print out on the I/O port which has been set as SMDR or UCD REPT in real time (see MMC 501- PERI UCD REPORT timer option). This allows extended manipulation of the information by an external third-party-provided software package.	✓	✓	✗
CID CODE INS	Allows the digit ‘1’ to be automatically inserted for a toll call. (Not used in UK.)	✓	✓	408i only
DISA MOH	An additional option that can be presented to outside DISA callers: a variable indication provided by an MOH source instead of a fixed DISA dial tone.	✓	✓	✓
TRANSFER MOH	Callers who have been transferred from an extension or UCD group or AA group will hear MOH, until answered by the called extension, instead of ring back tone.	✓	✓	✓
DSP SSPDNAME	LCD displays programmed name of SYSTEM SPEED bin (in MMC 706) if it has been programmed; if not, it shows digits programmed in MMC 705 even if this is set to ON.	✓	✓	✓
DID BSY ROUT	DDI calls to a busy extension can be routed to an assigned destination, in MMC 406, before the call is dropped.	✓	✓	408i only
DID NOT ROUT	DDI calls with no mapping in MMC 714 can be routed to an assigned destination in MMC 406.	✓	✓	408i only
ALL PICK UP	Independent pickup group, can pick up all calls.	✗	✓	✓
ARD TONE CHK	When system detects CO BUSY TONE from Central Office, it returns to autoredial state.	✓	✓	✓
VPN ENABLE	Allows use of VPN (Virtual Private Network) feature linked with network. (For future use.)	✓	✓	408 only
ISDNTRK BUSY	Allows busy tone to be returned to incoming DDI calls to station group if all group members are busy. (Sequential or distribute groups only.)	✓	✗	408i only
IN TOLL CHK	For future use.	✓	✓	✓
ISDN PROGCON	For future use.	✓	✓	408i only
ISDN KEYFAC	ISDN Key Facility.	✓	✓	408i only

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **210** Display shows	TEN. ON AND OFF DISA PSWD :ON
2. Dial option number (e.g. 01) OR Press UP or DOWN to select option Press RIGHT soft key to move cursor	TEN. ON AND OFF LCR ENABLE :OFF
3. Dial 1 for ON or 0 for OFF OR Press UP or DOWN to make selection and press RIGHT soft key	TEN. ON AND OFF LCR ENABLE :ON
4. Repeat steps 2-3 for other options OR Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:		
	DISA PSWD	**On**
	LCR ENABLE	**Off**
	SMDI VMS SET	**Off**
	PERI UCD SET	**Off**
	CID CODE INS	**Off**
	DISA MOH	**Off**
	TRANSFER MOH	**Off**
	DSP SSPDNAME	**Off**
	DID BSY ROUT	**Off**
	DID NOT ROUT	**On**
	ALL PICK UP	**Off**
	ARD TONE CHK	**On**
	VPN ENABLE	**Off**
	ISDNTRK BUSY	**Off**
	IN TOLL CHK	**Off**
	ISDN PROGCON	**Off**

Related Items: **None**

MMC: 211 DOOR RING ASSIGNMENT

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Designates which devices will ring when a doorphone button is pressed for both day and night mode. Two types of device can ring: station and station group; these are listed below with their default directory numbers.

DEVICE	DEFAULT DIRECTORY NUMBER			
	DCS	Compact II	816	408/408i
Station	201–349	201–308	201–216	21–28
Station group	500–529	500–519	500–509	50–53

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Clears previous entry
ANS/RLS	Used to select ALL

ACTION	DISPLAY
1. Open programming and select **211** Display shows first doorphone (If there is no doorphone interface module, you see “DOOR NOT EXIST”)	[201] DOOR RING D:500 N:500
2. Dial doorphone number (e.g., 210) OR Press UP or DOWN to scroll through doorphone numbers and use the RIGHT soft key to move cursor	[210] DOOR RING D:500 N:500
OR Press ANS/RLS to select all door ring	[ALL] DOOR RING D:500 N:500
3. Enter new DAY selection via dial keypad (e.g. 301) OR Press UP or DOWN key to make selection and press RIGHT soft key	[210] DOOR RING D:301 N:500
4. Enter new NIGHT selection via dial keypad (e.g. 302) OR Press UP or DOWN key to make selection and press RIGHT soft key	[210] DOOR RING D:301 N:302
5. Press RIGHT soft key to return to step 2 OR Press LEFT soft key to return to step 3 OR Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **Station group 500 for day and night (group 50 for 408/408i systems)**

Related Items: **None**

MMC: 212 ALARM RINGING STATION

DCS	✓	CI	✗	CII	✓	816	✗	408i	✗	408	✗

Used to determine which devices will be alerted when an alarm sensor is activated.

Device	DCS	Compact II
Station	201–349	201 - 308
Station group	500–529	500 - 519

The above devices will ring like a doorphone and follow the door ring time-out. When ringing, display keysets show the display assigned in MMC 213, *Alarm Message*. The bottom line of the keyset display gives an option to clear the alarm. Ringing initiated by an alarm sensor is answered by going off-hook and on-hook again at a ringing keyset. If a device such as Ring Over Page or a common bell is the only device assigned to ring, it may be answered by assigning a direct pickup key with this device as the extender. If the alarm is unanswered by the door ring time-out, ringing will cease but the display will remain until cleared by dialling the alarm clear feature code (57) and passcode (default 8765).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	DISPLAY
1. Open programming and select **212** Display shows first sensor (3501 on DCS system or 351 on Compact II system)	[3501]ALARM RING D:500 N:500
2. Dial sensor number (e.g., 3502 or 352) OR Use UP or DOWN to scroll through sensor numbers and press RIGHT soft key to advance cursor	[3502]ALARM RING D:500 N:500
3. Enter valid ring destination for day (e.g., 205) OR Press UP or DOWN key to make selection and press RIGHT soft key to advance cursor Select night destination in the same way	[3502]ALARM RING D:205 N:500
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **All sensors ring 500 day/night**

Related Items: **MMC 213 Alarm Message**

MMC: 213 ALARM MESSAGE

DCS	✓	CI	✗	CII	✓	816	✗	408i	✗	408	✗

Allows the assignment of a name to an alarm sensor. Names are written using the dial keypad. Each press of a key selects a character and moves the cursor to the next position. For example, if the sensor name is “FIRE,” press the number “3” three times to get the letter “F.” Now press the number “4” three times to get the letter “I", and so on to complete the name. Press the programmable ”A” key to toggle between upper and lower case text.

Tip: When the character you want is on the same key as the previous character you typed in, press the UP key to move the cursor to the right, then select the character.

The # key can be used for the following special characters (in sequence of key presses):

#	space	&	!	:	?	.	,	%	$	-	<	>	/	=
[	]	@	^	(	)	_	+	{	}	|	;	"	→	`

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
“A”	Key #19 (24B keyset) or key #7 (12B keyset) or key #1 (6B keyset) toggles upper case and lower case text.

ACTION	**DISPLAY**
1. Open programming and select **213** Display shows (e.g. 351 for Compact II)	[351] ALARM NAME
2. Dial ALARM (e.g., 351 for Compact II or 3502 for DCS) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	[351] ALARM NAME _
3. Enter name using method described above and press RIGHT soft key to return to step 2	[351] ALARM NAME FIRE!
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **MMC 212 Alarm Ringing Station**

MMC: 214 DISA ALARM RINGING STATION

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Assigns the DISA alarm to ring at a specific phone. It is recommended that the person who can clear the alarm also receives the notification. Both a day and a night destination can be selected. A valid destination can be:

DEVICE	DEFAULT DIRECTORY NUMBER			
	DCS	Compact II	816	408/408i
Station	201–349	201–308	201–216	21–28
Station group	500–529	500–519	500–509	50–53

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION **DISPLAY**

1. Open programming and select **214**
   Display shows

   DISA ALARM RING
   D:500 N:500

2. Enter in valid day destination number (e.g., 212)
   OR
   Press UP or DOWN key to make selection
   and press RIGHT soft key to advance cursor

   DISA ALARM RING
   D:212 N:500

3. Enter in valid night destination number (e.g., 205)
   OR
   Press UP or DOWN key to make selection
   and press RIGHT soft key to return to step 2

   DISA ALARM RING
   D:212 N:205

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **Day 500 (50 for 408/408i)**
Night 500 (50 for 408/408i)

Related Items: **MMC 202 Change Feature Passcodes**
MMC 410 Assign DISA Trunk

MMC: 215 VOICE DIALLER OPTIONS

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

Assigns the VDIAL card with two (2) channels and seven (7) users or one (1) channel and five (5) users. When changing channel size, you will be prompted to 'clear RAM'. This is only for Voice Dialler, not the system. This will prevent accidental usage of pre-recorded names. It is advised that you clear RAM before assigning users in MMC 216, *Voice Dialler Assignments*.

VDIAL cards are numbered with odd numbers. For example, the first VDIAL card in the system is numbered 3551 (DCS) or 355 (Compact II). The second channel, if used, will be numbered 3552 (or 356).The second VDIAL card is numbered 3553 (or 357), and a second channel 3554 (or 358). If only one channel is assigned, the even number 3552 or 3554 (356 or 358) will not appear in MMC 216.

Option - 0 : 2CH-7USER-20BIN (7 USERS)
1 : 1CH-5USER-40BIN (5 USERS)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **215** Display shows (3551 for DCS or 355 for CII, e.g. 3551)	[3551]VDIALER OPTN 2CH-7USER-20BIN
2. Enter Voice Dialler number, e.g. 3552, via dial keypad OR Press UP or DOWN key to make selection Press RIGHT soft key to move cursor	[3552]VDIALER OPTN 2CH-7USER-20BIN
3. Select channel option by pressing UP or DOWN key to view selection Press RIGHT soft key to make selection	[3552]VDIALER OPTN 1CH-5USER-40BIN
4. Enter 0 for NO or 1 for YES OR Press UP and DOWN key to view selection Press RIGHT soft key to make selection	[3552]VDIALER OPTN CLEAR RAM?NO [3552]VDIALER OPTN CLEAR RAM?YES
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **2CH-7USER-20BIN**

Related Items: **MMC 216 Voice Dialler Assignments**
MMC 722 Station Key Programming
MMC 723 System Key Programming
MMC 724 Dial Numbering Plan
Keyset User Guide

MMC: 216 VOICE DIALLER ASSIGNMENTS

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

Allows a station to be assigned to a channel of the VDIAL card, to dial a personal speed dial number. The number of users assigned to this feature is controlled by MMC 215, *Voice Dialler Options*, which allows either two (2) channels with seven (7) users or one (1) channel with five (5) users.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **216** Display shows (DCS=3551, Compact II=355, e.g. 355)	[3̲55]VDIALER USER USER 1 : NONE
2. Enter Voice Dialler number (e.g. 356) via dial keypad OR Press UP or DOWN key to make selection Press RIGHT soft key to move cursor	[356]VDIALER USER USER 1̲ : NONE
3. Enter user number (1-7/1-5) dependent on number of users allowed via MMC 215 (e.g. 5) OR Press UP or DOWN key to make selection Press RIGHT soft key to move cursor	[356]VDIALER USER USER 5 : N̲ONE
4. Enter station number (e.g., 205) via dial keypad OR Press UP or DOWN key to make selection and press RIGHT soft key to return to step 3 to continue with entries	[356]VDIALER USER USER 5 : 20̲5
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **NONE**

Related Items:
MMC 215 Voice Dialler Options
MMC 722 Station Key Programming
MMC 723 System Key Programming
MMC 724 Dial Numbering Plan
Keyset User Guide

MMC: 217 CCC OPTION

DCS	✗	CI	✓	CII	✗	816	✗	408i	✗	408	✗

Used to select Call Cost Option and is related only to 131 Cable & Wireless service.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION

1. Open programming and select **217**
   Display shows

2. Use UP or DOWN to scroll through options

3. Press TRANSFER to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

DISPLAY

```
CCC OPTION
OPTION : NONE
```

```
CCC OPTION
OPTION : STATION #
```

Default Data: **NONE**

Related Items: **MMC 313 Assign PIN Code**

MMC: 219 COMMON RELAY SERVICE TYPE

DCS	✗	CI	✗	CII	✓	816	✓	408i	✓	408	✓

This MMC is used to define the function of :

- three common relays in the Compact II MISC card (363–365), or
- the common relay in the 816 base board (362), or
- the common relay in the 408/408i base board (361).

Each relay can be used for one of the following:

0 EXTERNAL PAGE
1 COMMON BELL
2 LOUD BELL
3 NOT USE

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION **DISPLAY**

1. Open programming and select **219**
   Display shows (e.g. 363)

   [363]RELAY TYPE
   EXTERNAL PAGE

2. ***Compact II only*** – dial relay number (e.g. 364)
   OR
   Use UP or DOWN to scroll through numbers and press RIGHT soft key to move cursor

   [364]RELAY TYPE
   EXTERNAL PAGE

   816/408/408i – press RIGHT soft key to move cursor

3. Dial relay function 0–3 (see table above)
   OR
   Press UP or DOWN to scroll through options and press RIGHT soft key

   [364]RELAY TYPE
   LOUD BELL

4. ***Compact II only***–Repeat step 2 for next relay

   [364]RELAY TYPE
   NOT USE

5. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **EXTERNAL PAGE**

Related Items:
MMC 203 Assign UA Device
MMC 204 Common Bell Control
MMC 205 Assign Loud Bell
MMC 605 Assign External Page Zone

MMC: 220 ISDN SERVICE TYPE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✗

Assigns the ISDN service type for SLT stations. Services consist of BC (Bearer Capability) and HLC (High Layer Capability).

	TYPE	DESCRIPTION	BC	HLC
0	VOICE	Voice service	Speech	Telephony
1	FAX 3	G3 FAX service	3.1kHz Audio	FAX G2/G3
2	AUDIO 3.1	3.1kHz Audio service	3.1kHz Audio	None
3	MODEM	MODEM service	3.1kHz Audio	Telephony

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION **DISPLAY**

1. Open programming and select **220**
   Display shows

   [213] ISDN SRV
   VOICE

2. Dial station number (SLT only) (e.g., 215)
   OR
   Press UP or DOWN to select station
   and press RIGHT soft key to move cursor

   [215] ISDN SRV
   VOICE

3. Select service type 0 - 3 (e.g. 2)
   OR
   Press UP or DOWN to select option and press RIGHT soft key

   [215] ISDN SRV
   AUDIO 3.1

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **VOICE**

Related Items: **None**

MMC: 300 CUSTOMER ON/OFF PER STATION

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the following features to be enabled on individual stations.

ACCESS DIAL	Determines whether a user can select a trunk or trunk group by dialling its directory number (DN). *This selection should be turned OFF when using LCR.*
MICROPHONE	Allows keyset to be used in speakerphone mode.
OFF-HOOK RING	Allows a short burst of ring tone to indicate another call.
SMDR PRINT	When this is set OFF, C.O. calls to and from the station will not print on SMDR. This includes transferred calls or calls picked up from hold or park.
TGR ADV.TONE	When this feature is set to ON, a warning tone will be heard each time LCR advances to the next route.
VMAA FORWARD	When this feature is set to ON, it allows calls to be forwarded to voice mail.
STN CALL PRT	Allows print out of station to station call.
FWD DLY USE	When this feature is set to ON, calls will overflow to Forward No Answer destination when the Forward No Answer timer expires even when the Forward No Answer feature is not activated at the called party extension. Set Forward No Answer destination in MMC 102, *Call Forward*, but do not enable the feature. (Alternatively, use code 603 plus the station number, then code 600 to cancel the feature.)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	DISPLAY
1. Open programming and select **300** Display shows	[201] CUS.ON/OFF ACCESS DIAL :ON
2. Dial station number (e.g., 205) OR Press UP or DOWN to select station OR Press ANS/RLS for all and press RIGHT soft key to move cursor	[205] CUS.ON/OFF ACCESS DIAL :ON [ALL] CUS.ON/OFF ACCESS DIAL :ON
3. Press UP or DOWN to select feature and press RIGHT soft key to move cursor	[ALL] CUS.ON/OFF ACCESS DIAL :ON
4. Dial 1 for ON or 0 for OFF OR Press UP or DOWN to select ON/OFF and press RIGHT soft key	[ALL] CUS.ON/OFF ACCESS DIAL :OFF
5. Press LEFT soft key to return to step 2 Press RIGHT soft key to return to step 1 OR Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **STN CALL PRT : OFF**
FWD DLY USE : OFF
All other features set to ON

Related Items: **LCR programming**

MMC: 301 ASSIGN STATION COS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Used to assign a day and night class of service to each station. A number of different classes of service can be defined in MMC 701, *Assign COS Contents*—i.e. 30 for DCS/Compact II systems (01–30), 10 for 816 systems (01–10) and four for 408/408i systems (1–4).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION **DISPLAY**

1. Open programming and select **301**
   Display shows

   [201] STN COS
   DAY:01 NIGHT:01

2. Dial station number (e.g., 205)
   OR
   Press UP and DOWN to scroll through stations and press RIGHT soft key to advance to step 3 to enter Day COS
   OR
   Press UP and DOWN to scroll through stations and press LEFT soft key to advance to step 4 to enter Night COS
   OR
   Press ANS/RLS to select all stations

   [205] STN COS
   DAY:01 NIGHT: 01

   OR

   [ALL] STN COS
   DAY:?? NIGHT:??

3. Enter day class of service (e.g., 05)
   OR
   Press UP and DOWN to scroll through classes of service and press RIGHT soft key to advance to step 4 to enter Night COS
   OR
   Press UP and DOWN to scroll through classes of service and press LEFT soft key to return to step 2 to enter other stations

   [205] STN COS
   DAY:05 NIGHT:01

4. Enter night class of service (e.g., 05)
   OR
   Press UP and DOWN to scroll through classes of service and press RIGHT soft key to return to step 2 to enter other stations
   OR
   Press UP and DOWN to scroll through classes of service and press LEFT soft key to return to step 3

   [205] STN COS
   DAY:05 NIGHT:05

5. Press TRSF to save and exit
   OR
   Press SPEAKER to save and advance to next MMC

Default Data: **Day class = 01 (or 1)**
Night class = 01 (or 1)

Related Items: **MMC 701 Assign COS Contents**

MMC: 302 PICKUP GROUPS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the assignment of stations into call pickup groups. Maximum number of pickup groups is:

DCS and Compact II – 20
816 – 8
408/408i – 4

An unlimited number of members can belong to each group. Stations can only be in one pickup group at any given time.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	DISPLAY
1. Open programming and select **302** Display shows	[201] PICKUP GRP PICKUP GRP :01
2. Dial station number (e.g., 205) OR Use UP or DOWN to select station number and press RIGHT soft key OR Press ANS/RLS key to select all	[205] PICKUP GRP PICKUP GRP :01 OR [ALL] PICKUP GRP PICKUP GRP :??
3. Dial pickup group number (e.g. 04) OR Press UP or DOWN to select group number	[205] PICKUP GRP PICKUP GRP :04
4. Press RIGHT soft key to return to step 2 to enter more stations OR Press LEFT soft key to return to step 3 OR Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **All stations = group 01**

Related Items: **MMC 107 Key Extender**
MMC 722 Station Key Programming
MMC 723 System Key Programming

MMC: 303 ASSIGN BOSS/SECRETARY

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Assigns BOSS stations to SECRETARY stations. One BOSS station can have up to four SECRETARY stations, and one SECRETARY station can have up to four BOSS stations.* A dedicated BOSS key must be programmed on the SECRETARY keyset(s). A dedicated BOSS key must also be programmed on the BOSS keyset(s).

*Note: For 408/408i systems, a BOSS station can have up to two SECRETARY stations, and vice versa.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL
"F"	Key #24 (24B keyset) or key #12 (12B keyset) or key #6 (6B keyset) is used to toggle BOSS/SECRETARY field

ACTION	**DISPLAY**
1. Open programming and select **303** Display shows	BOSS STN:NONE SECR 1:NONE
2. Dial BOSS station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key	BOSS STN :205 SECR 1:NONE
3. Dial SECRETARY station number (e.g., 201) OR Press UP or DOWN to select station Press RIGHT soft key to return to step 3 to enter more SECR numbers	BOSS STN:205 SECR 1:201 BOSS STN:205 SECR 2:202
4. Press LEFT soft key to return to step 2 and continue entries OR Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **NONE**

Related Items: **MMC 722 Station Key Programming**

MMC: 304 ASSIGN STATION / TRUNK USE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows trunks, on a per-station basis, to answer incoming calls, to dial out or to do both. If a station is set to DIAL:NO, the station will not have the ability to place a call. If the station is set to ANS:NO, the station cannot answer an incoming call.

Note: MMC 406, *Trunk Ring Assignment*, overrides this MMC for the Answer option.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **304** Display shows	[2]01] USE [701] DIAL:YES ANS:YES
2. Dial the station number (e.g., 205) OR Press UP or DOWN key to select station and press RIGHT soft key	[205] USE [7]01] DIAL:YES ANS:YES
3. Dial the trunk ID number (e.g., 704) OR Press UP or DOWN key to select trunk and press RIGHT soft key	[205] USE [704] DIAL:YES ANS:YES
4. Press UP or DOWN key to select YES/NO option OR Dial 1 for YES or 0 for NO and press RIGHT soft key to move cursor to ANS option Press UP or DOWN key to select YES/NO Option OR Dial 1 for YES or 0 for NO and press RIGHT soft key to return to step 2	[205] USE [704] DIAL:NO ANS:YES [205] USE [704] DIAL:NO ANS:NO
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **DIAL = YES**
ANS = YES

Related Items: **MMC 316 Copy Station Usable**
MMC 406 Trunk Ring Assignment
MMC 722 Station Key Programming
MMC 723 System Key Programming

MMC: 305 ASSIGN FORCED CODE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the assignment of either account or authorisation codes on a per-station basis or on an all-station basis.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
ANS/RLS	Used to select ALL

FEATURE KEYS

0 NONE
1 AUTHORISE CODE
2 ACCOUNT CODE

ACTION

1. Open programming and select **305**
   Display shows

2. Dial station number (e.g., 205)
   OR
   Press UP or DOWN key to select station and press RIGHT soft key to move cursor
   OR
   Press ANS/RLS to select all stations

3. Dial a feature option 0–2 (e.g., 2)
   OR
   Press UP or DOWN key to select option
   and press RIGHT soft key to return step 2

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

DISPLAY

[201] FORCD CODE
NONE

[205] FORCD CODE
NONE
OR

[ALL] FORCD CODE
?

[205] FORCD CODE
ACCOUNT CODE

Default Data: **None**

Related Items: **MMC 707 Authorisation Code**
MMC 708 Account Code

MMC: 306 HOT LINE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows a station to make an automatic internal or external call upon the expiration of a timer (see MMC 501, *System-Wide Timers*: 'Off-Hook Select Timer' option) to a predetermined number when the handset is lifted. The number can be a maximum of 18 digits including pauses, flash etc., in the dial string (the access code for a trunk is not counted).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL
"B"	Used to insert a flash code "F"
"C"	Used to insert a pause code "P"
"D"	Used to insert a pulse/tone conversion code "C"
"E"	Used to mask/unmask following digits (shows as "[" or "]")

Keys "A" to "F" are keys #19 to #24 on 24B keysets, or keys #7 to #12 on 12B keysets, or keys #1 to #6 on 6B keysets.

ACTION	**DISPLAY**
1. Open programming and select **306** Display shows Press RIGHT soft key to advance cursor	[201] HOT LINE NONE
2. Enter station number via dial keypad (e.g. 201) OR Press UP or DOWN to make selection and press RIGHT soft key	[201] HOT LINE NONE
2. Enter station number to automatically dial via keypad (e.g. 202)—or press UP or DOWN to select OR	[201] HOT LINE 202
Enter a trunk to automatically dial (e.g. 701)—or press UP or DOWN to select—then press the RIGHT soft key and enter a maximum of 18 digits to dial.	[201] HOT LINE 701-01235987654_
3. Press RIGHT soft key to return to step 2	
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **NONE**

Related Items: **MMC 501 System-Wide Timers (*Off-Hook Select Timer*)**

MMC: 308 ASSIGN BACKGROUND MUSIC SOURCE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Assigns a background music (BGM) source to keysets as follows.

DCS –There is a total of 19 possible music selections, but this is dependent on the number of Trunk A cards that are installed in the system. Only one music source is provided per Trunk A card. The system must have a Trunk A card installed to provide a BGM source. The default directory number of a BGM source is 3701–3719. (Internal music is always the odd numbered address, e.g. 3701, 3703.)

Compact II–There is a total of two possible music selections, but this depends on whether a Misc card is installed in the system. One music source is provided on the base board (switch select internal/external); the other external source is provided on the Misc card. The default directory number of a BGM source is 371–372.

816 and 408/408i–There is a music source on the base board (switch select internal/external). The default directory number of a background music source is 371.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **308** Display shows current setting	[2]01] BGM SOURCE BGM SOURCE:NONE
2. Dial keyset number (e.g., 205) OR Use UP or DOWN to scroll through keyset numbers and press RIGHT soft key to move the cursor OR Press ANS/RLS to select all stations	[205] BGM SOURCE BGM SOURCE:NONE OR [ALL] BGM SOURCE BGM SOURCE:?
3. Enter source number (e.g., 3701) OR Press UP or DOWN key to make selection and press RIGHT soft key to return to step 2	[205] BGM SOURCE BGM SOURCE:3701
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **NONE**

Related Items: **MMC 309 Assign Station Music On Hold**
MMC 408 Assign Trunk Music On Hold Source

MMC: 309 ASSIGN STATION MUSIC ON HOLD

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to select which Music On Hold (MOH) source can be heard on each station. There are four possible selections for each music source: TONE, NONE, internal and external (customer-provided MOH source).

DCS–The system must have a Trunk A card installed to provide a music source. There is a total of 19 possible music selections, but this is dependent on the number of Trunk A cards in the system. Only one external music source is provided per Trunk A card. The default directory number of a music source is 3701–3719. (Internal music is always the odd numbered address, e.g. 3701, 3703.)

Compact II–There is a total of two possible music sources, but this depends on whether a MISC card is installed in the system. One music source is provided on the base board (switch select internal/external); the other external source is provided on the MISC card. The default directory number of a background music source is 371–372. (Internal music is always address 371.)

816 and 408/408i–There is a music source on the base board (switch select internal/external). The default directory number of a background music source is 371.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **309** Display shows current setting	[201] STN MOH MOH SOURCE:TONE
2. Dial keyset number (e.g., 205) OR Use UP or DOWN to scroll through keyset numbers and press RIGHT soft key to move the cursor OR Press ANS/RLS to select all stations	[205] STN MOH MOH SOURCE:TONE OR [ALL] STN MOH MOH SOURCE:?
3. Enter source number (e.g., 371) OR Press UP or DOWN key to make selection and press RIGHT soft key to return to step 2	[205] STN MOH MOH SOURCE:371
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **MMC 308 Assign Background Music Source**
MMC 408 Assign Trunk Music On Hold Source

MMC: 310 LCR CLASS OF SERVICE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Assigns the LCR class of service allowed for a station on a per-station basis. Eight classes (1–8) can be assigned. (408/408i systems have four classes, 1–4.)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION

1. Open programming and select **310**
   Display shows

2. Dial station number (e.g., 205)
   OR
   Press UP or DOWN to select station and press RIGHT soft key to move cursor
   OR
   Press ANS/RLS to select All stations

3. Dial 1–8 to select class type (e.g. 3)
   OR
   Press UP or DOWN to select class type and press RIGHT soft key to return to step 2

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

DISPLAY

```
[201] LCR CLASS
LCR CLASS 1
```

```
[205] LCR CLASS
LCR CLASS 1
```

OR

```
[ALL] LCR CLASS
LCR CLASS ?
```

```
[205] LCR CLASS
LCR CLASS 3
```

Default Data: **Least Cost Routing COS 1**

Related Items: **LCR programming**

MMC: 311 ASSIGN SIM PARAMETER

DCS	✓	CI	✗	CII	✗	816	✗	408i	✗	408	✗

Assigns and sets parameters for the serial interface module (SIM). Refer to tables 1–12, below.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	DISPLAY
1. Open programming and select **311** Display shows	[256] SIM PARA SIM TYPE :DTE
2. Enter station number connected to SIM (e.g., 257) from dial keypad OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	[257] SIM PARA. SIM TYPE :DTE
3. Enter desired selection from table 1 (00–10, e.g. 01) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	[257] SIM PARA. CALL MODE:AWITH
Refer to table 1 for your selected option and go to the table indicated (e.g. 3) to enter required value (e.g. 0) using dial keypad or by pressing UP or DOWN key Press RIGHT soft key to move cursor	[257] SIM PARA. CALL MODE:MANUAL
4. Repeat step 3 for all required options (00–10 in table 1)	
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

TABLE 1. SIM PARAMETER

00	SIM TYPE	=	Table 2
01	CALL MODE	=	Table 3
02	ANS MODE	=	Table 4
03	AUTO BAUD	=	Table 5
04	DTR CHECK	=	Table 6
05	ECHO	=	Table 7
06	PROTOCOL	=	Table 8
07	SPEED	=	Table 9
08	CHAR LENGTH	=	Table 10
09	PARITY	=	Table 11
10	STOP BIT	=	Table 12

TABLE 2. SIM TYPE

0	HOST
1	MODEM
2	DTE
3	PRT

TABLE 3. CALL MODE

0	MANUAL
1	AUTO WITH
2	AUTO WITHOUT

TABLE 4. ANS MODE

0	MANUAL
1	AUTO

TABLE 5. AUTO BAUD

0	OFF
1	ON

TABLE 6. DTR CHECK

0	OFF
1	ON

TABLE 7. ECHO

0	OFF
1	ON

TABLE 8. PROTOCOL

0	V110
1	V120

TABLE 9. SPEED TABLE

0	300
1	600
2	1200
3	2400
4	4800
5	9600
6	19200
7	38400
8	48000
9	56000

TABLE 10. CHAR LENGTH

0	8
1	7
2	6
3	5

TABLE 11. PARITY TABLE

0	NONE
1	ODD
2	EVEN

TABLE 12. STOP BIT

0	1
1	1.5
2	2

Default Data: **SIM Type = DTE**
Call Mode = Manual
Ans Mode = Manual
Auto Baud = ON
DTR Check = ON
Echo = ON
Protocol = V110
Speed = 9600
Char Length = 8 Bits
Parity = None
Stop Bit = 1

Related Items: **MMC 804 System I/O Parameter**

MMC: 312 ALLOW CLIP

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✗

Allows the system installer or administrator to:

- allow or prevent receipt of CLIP data from the network
- request or restrict sending of CLIP data to the network.

Each station can have the following options:

SND: YES - request the network to send Caller ID when outgoing call is made.
NO - request the network NOT to send Caller ID when outgoing call is made.

RCV: YES - allow display of CLIP data at keysets.
NO - prevent display of CLIP data at keysets.

INFO: If YES selected for SND option, you can select the CLIP display option from
0 CO Tel
1 Extn. Number
2 CO + Extn. No.
3 DID Number.

ACTION	DISPLAY
1. Open programming and select **312** Display shows	[201] ALLOW CLIP RCV:YES SND:YES
2. Dial station number (e.g., 205) OR Press UP or DOWN to select station and press right soft key to move cursor OR Press ANS/RLS to select all	[205] ALLOW CLIP RCV:YES SND:YES OR [ALL] ALLOW CLIP RCV:YES SND:YES
3. Dial 0 (NO) or 1 (YES) to select RCV option (e.g. 1) OR Press UP or DOWN to select option and press right soft key to move cursor to SND field	[205] ALLOW CLIP RCV:YES SND:YES
4. Dial 0 (NO) or 1 (YES) to select SND option (e.g. 1) OR Press UP or DOWN to select option and press right soft key	[205] ALLOW CLIP RCV:YES SND:YES
If you selected YES for SND option, display shows Dial 0–3 to select INFO option OR Press UP or DOWN to select Press RIGHT soft key	[205] ALLOW CLIP INFO:C.O Tel.

4. Press TRSF to store and exit
   OR
   Press SPEAKER to save and advance to next MMC

Default Data : **RCV=YES**
SND=YES
INFO=CO Tel

Related Items: **MMC 119 Set CLIP Display**

MMC: 313 ASSIGN PIN CODE

DCS	✗	CI	✓	CII	✗	816	✗	408i	✗	408	✗

Assigns individual users to PIN codes in the system. For Cable & Wireless 131 service there is a maximum of four PIN codes allocated in the system, so users must be assigned to the PIN code used when dialling out on a Cable & Wireless Network.

This MMC is related only to 131 Cable & Wireless service.

ACTION	**DISPLAY**
1. Open programming and select **313** Display shows	[201] PIN CODE PIN CODE # : NONE
2. Dial the station number (e.g., 205) OR Press UP or DOWN key to select station and press RIGHT soft key to advance to step 3	[205] PIN CODE PIN CODE # : NONE
3. Enter the pin code serial number (1, 2, 3 or 4, e.g. 1)	[205] PIN CODE PIN CODE # : 1
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **All stations are code #1**

Related Items: **MMC 217 CCC Option**
MMC 716 UK LCR Option
MMC 717 Pin Code

MMC: 314 CONFIRM OUTGOING CALL

DCS	✓	CI	✗	CII	✓	816	✓	408i	✓	408	✓

Allows outgoing call restriction, disconnect or confirm with tone.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

FEATURE KEYS

0 NONE
1 CONFIRM TONE
2 DISCONNECT

ACTION	**DISPLAY**
1. Open programming and select **314** Display shows	[201] CO CONFIRM NONE
2. Dial station number (e.g., 205) OR Press UP or DOWN key to select station and press RIGHT soft key to move cursor	[205] CO CONFIRM NONE
3. Dial a feature option 0-2 (e.g., 1) OR Press UP or DOWN key to select option and press RIGHT soft key to return to step 2	[205] CO CONFIRM CONFIRM TONE
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **NONE**

Related Items: **MMC 501 System-Wide Timers**

MMC: 315 SET RELOCATION

DCS	✓	CI	✗	CII	✓	816	✓	408i	✓	408	✓

Used when a station moves its phone to another location (a different port). All relevant data for the phone are moved to the new location automatically.

ACTION	DISPLAY
1. Open programming and select **315** Display shows	SET RELOCATION EXT_ EXT
2. Dial the original station number (e.g. 205) OR Press UP or DOWN key to select station and press RIGHT soft key	SET RELOCATION EXT205 EXT_
3. Dial the new location's station number (e.g. 210)	SET RELOCATION EXT205 EXT210
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **None**

MMC: 316 COPY STATION USABLE

DCS	✓	CI	✗	CII	✓	816	✓	408i	✗	408	✗

Copy the condition of station/trunk usability and station/station usability from one station to another station.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **316** Display shows	[201] CPY USABLE FROM:NONE
2. Enter destination station number (e.g. 205) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	[205] CPY USABLE FROM:NONE
3. Enter the source station number (e.g. 210) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	[205] CPY USABLE FROM:210
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **NONE**

Related Items: **MMC 304 Assign Station/Trunk Use**
MMC 317 Assign Station/Station Use

MMC: 317 ASSIGN STATION / STATION USE

DCS	✓	CI	✗	CII	✓	816	✓	408i	✗	408	✗

Used to control whether a station can dial other stations.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION **DISPLAY**

(In the following example, you do not want station 205 to be able to dial station 204.)

1. Open programming and select **317**
   Display shows

   [201] USE [201]
   DIAL:YES

2. Dial the first station number (e.g., 205)
   OR
   Press UP or DOWN key to select station and press RIGHT soft key
   OR
   Press ANS/RLS to select all stations

   [205] USE [201]
   DIAL:YES

3. Dial the second station number (e.g., 204)
   OR
   Press UP or DOWN key to select station and press RIGHT soft key

   [205] USE [204]
   DIAL:YES

4. Dial 1 for YES or 0 for NO
   OR
   Press UP or DOWN key to select YES/NO and press RIGHT soft key to move cursor

   [205] USE [204]
   DIAL:NO

5. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **DIAL=YES**

Related Items: **MMC 316 Copy Station Usable**

MMC: 318 DISTINCTIVE RING

DCS	✓	CI	✗	CII	✓	816	✓	408i	✓	408	✓

Sets a distinctive ring for stations. You can set both tone (T) and cadence (C) to one of eight ring values (1-8), or to follow the station ring (F-STN).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **318** Display shows	[201] DIST.RING T:F-STN C:F-STN
2. Dial station number (e.g., 205) OR Press UP or DOWN to select station and press RIGHT soft key to move cursor	[205] DIST.RING T:F-STN C:F-STN
3. Press UP or DOWN to select T value (e.g. 1) and press RIGHT soft key to move cursor to C field	[205] DIST.RING T:1 C:F-STN
4. Press UP or DOWN to select C value (e.g. 2)	[205] DIST.RING T:1 C:2
5. Press TRSF to store and exit OR Press SPEAKER to save and advance to next MMC	

Default Data : **T: F-STN**
C: F-STN

Related Items: **None**

MMC: 319 BRANCH GROUP

Not Used in the UK

MMC: 400 CUSTOMER ON/OFF PER TRUNK

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Assigns several options (listed below) on a per-trunk basis.

OPTIONS

0	1A2 EMULATE	Trunk override call (NO PRIVACY)
1	TRUNK INC DND	Allows trunk to override DND (DIL)
2	TRUNK FORWARD	Allows trunk to be forwarded
3	LCR ALLOW	Allows LCR to be switched ON/OFF when a trunk is directly accessed.

Note: '1A2 Emulation' means that a third party can be joined on an existing trunk conversation by pressing the DTS key for the line on their keyset.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **400** Display show	[701] TRK ON/OFF 1A2 EMULATE:OFF
2. Dial trunk number (e.g. 704) OR Press UP or DOWN key to select trunk OR Press ANS/RLS for all trunks and press RIGHT soft key to move cursor to options	[704] TRK ON/OFF 1A2 EMULATE:OFF OR [ALL] TRK ON/OFF 1A2 EMULATE :?
3. Dial option number from above list (0–3, e.g. 2) OR Press UP or DOWN key to select option and press RIGHT soft key to move cursor	[704] TRK ON/OFF TRK FORWARD :ON
4. Dial 1 for ON or 0 for OFF OR Press UP or DOWN key to select ON/OFF and press RIGHT soft key to return to step 2	[704] TRK ON/OFF TRK FORWARD: OFF
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:

1A2 EMULATE	**Off**
TRUNK INC DND	**Off**
TRUNK FORWARD	**On**
LCR ALLOW	**Off**

Related Items: **None**

MMC: 401 C.O. / PBX LINE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Used to select the mode of the C.O. line. If PBX mode is chosen, this allows PBX access codes to be recognised, thus allowing more complete toll restriction (call barring). This mode is assigned on a per-trunk basis. If a trunk requires the use of the RECALL key, it must be set to PBX mode. Options are:

0 CO LINE
1 PBX

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION

1. Open programming and select **401**
   Display shows

2. Dial trunk number (e.g., 704)
   OR
   Use UP or DOWN to scroll through trunk numbers and press RIGHT soft key to move cursor
   OR
   Press ANS/RLS to select ALL

3. Dial 1 for PBX or 0 for C.O.
   OR
   Use UP or DOWN to scroll through options
   Press RIGHT soft key to return to step 2

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

DISPLAY

[701] PBX LINE
CO LINE

[704] PBX LINE
CO LINE

OR

[ALL] PBX LINE
?

[704] PBX LINE
PBX LINE

Default Data: **All trunks C.O. Line**

Related Items: **None**

MMC: 402 TRUNK DIAL TYPE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✗	408	✓

Used to determine the dialling type of each C.O. line. There are two options:

0 Dual tone multi frequency (DTMF)
1 Pulse (rotary dial)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION **DISPLAY**

1. Open programming and select **402**
   Display shows

   [701] DIAL TYPE
   DTMF TYPE

2. Dial trunk number (e.g., 704)
   OR
   Use UP or DOWN to scroll through trunk numbers and press RIGHT soft key to move the cursor
   OR
   Press ANS/RLS to select ALL

   [704] DIAL TYPE
   DTMF TYPE

   OR

   [ALL] DIAL TYPE
   ?

3. Dial 1 for PULSE or 0 for DTMF (e.g. 1)
   OR
   Use UP or DOWN to scroll through options
   Press RIGHT soft keys to return to step 2

   [704] DIAL TYPE
   DIAL PULSE TYPE

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **All trunks DTMF**

Related Items: **MMC 501 System-Wide Timers**
MMC 503 Trunk-Wide Timers

MMC: 403 TRUNK TOLL CLASS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Assigns toll class level assignments on a per-trunk or all-trunk basis in a day or night condition. The options for toll level will follow either the station class or the class of service defined in MMCs 702, *Toll Deny Table*, and 703, *Toll Allowance Table*. The toll classes available are listed below:

ENTRY NUMBER	CLASS TYPE	DESCRIPTION
0	F-STN	Follow station toll restriction
1	CLS-A	Follow toll class A (Unrestricted)
2	CLS-B	Follow toll class B
3	CLS-C	Follow toll class C
4	CLS-D	Follow toll class D
5	CLS-E	Follow toll class E
6	CLS-F	Follow toll class F
7	CLS-G	Follow toll class G
8	CLS-H	Follow toll class H (All restricted)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	DISPLAY
1. Open programming and select **403** Display shows	[701] TOLL CLASS D:F-STN N:F-STN
2. Dial trunk number (e.g.704) OR Use UP or DOWN to scroll through trunk numbers and press RIGHT soft key to move the cursor OR Press ANS/RLS to select ALL	[704] TOLL CLASS D:F-STN N:F-STN OR [ALL] TOLL CLASS D:F-STN N:F-STN
3. Enter day toll class (e.g. 2 for CLS-B) OR Press UP or DOWN to scroll through toll classes and use RIGHT soft key to move the cursor	[704] TOLL CLASS D:CLS-B N:F-STN
4. Enter night toll class (e.g., 2) OR Press UP or DOWN to scroll through toll classes and use RIGHT soft key to return to step 2	[704] TOLL CLASS D:CLS-B N:CLS-B
5. Press TRSF to store data and exit OR Press SPEAKER to store data and advance to next MMC	

Default Data: **All trunks F-STN day/night**

Related Items: **MMC 301 Assign Station COS**
MMC 507 Assign Auto Night Time
MMC 701 Assign COS Contents
Toll Restriction

MMC: 404 TRUNK NAME

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows a name, up to 11 characters, to be entered to identify an individual trunk.

Names are written using the keypad. Each key press selects a character and moves the cursor to the next position. For example, if the name is "TELECOMS", press the number "8" once to get the letter "T". Now press the number "3" twice to get the letter "E." Continue selecting characters from the keypad to complete the name. Press the programmable "A" key to toggle between upper and lower case text.

Tip: When the character you want is on the same key as the previous character you typed in, press the UP key to move the cursor to the right, then select the character.

The # key can be used for the following special characters (in sequence of key presses):

#	space	&	!	:	?	.	,	%	$	-	<	>	/	=
[	]	@	^	(	)	_	+	{	}	|	;	"	→	`

PROGRAM KEYS

UP & DOWN	Used to scroll through options/move cursor left or right
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
"A"	Key #19 (24B keyset) or key #7 (12B keyset) or key #1 (6B keyset) toggles upper case and lower case text.

ACTION	**DISPLAY**
1. Open programming and select **404** Display shows	[701] TRUNK NAME
2. Dial trunk (e.g., 704) OR Press UP or DOWN to select trunk and press the RIGHT soft key to move the cursor	[704] TRUNK NAME _
3. Enter trunk name using the procedure described above Press RIGHT soft key to return to step 2	[704] TRUNK NAME TELECOMS
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **No names entered**

Related Items: **MMC 104 Station Name**
MMC 405 Trunk Number

MMC: 405 TRUNK NUMBER

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows a number, up to 11 digits, to be entered to identify an individual trunk.

Numbers are entered using the keypad. Pressing a key selects a digit and moves the cursor to the next position.

The # key can be used for the following special characters (in sequence of key presses):

#	space	&	!	:	?	.	,	%	$	-	<	>	/	=
[	]	@	^	(	)	_	+	{	}	|	;	"	→	`

PROGRAM KEYS

UP & DOWN	Used to scroll through options/move cursor left or right
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
"A"	Key #19 (24B keyset) or key #7 (12B keyset) or key #1 (6B keyset) toggles upper case and lower case

ACTION	DISPLAY
1. Open programming and select **405** Display shows	[701] CO TEL NO. _
2. Dial trunk (e.g., 704) OR Press UP or DOWN to select trunk and press RIGHT soft key to move the cursor	[704] CO TEL NO. _
3. Enter the trunk number	[704] CO TEL NO. 3054264100
4. Press RIGHT soft key to return to step 2 OR Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **No numbers entered**

Related Items: **MMC 404 Trunk Name**

MMC: 406 TRUNK RING ASSIGNMENT

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Enables ringing to a specific station or a group of stations (or an auto attendant for systems other than 408/408i) when incoming calls are received. This MMC controls both day and night locations.

DEVICE	DEFAULT DIRECTORY NO.			
	DCS	**Compact II**	**816**	**408/408i**
Station	201–349	201–308	201–216	21–28
Station group	500-529	500-519	500–509	50–53
AA	39xx	38x	38x	–

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL (trunks only)

ACTION	**DISPLAY**
1. Open programming and select **406** Display shows	[701] TRK RING D:500 N:500
2. Dial trunk number (e.g., 704) OR Use UP or DOWN to scroll through trunk numbers and press the RIGHT soft key to move the cursor	[704] TRK RING D:500 N:500
3. Dial station number or station group number for day (e.g., 205) OR Press UP or DOWN key to select station number or station group number and press RIGHT soft key to move cursor	[704] TRK RING D:205 N:500
4. Dial station number or station group number for night (e.g., 501) OR Press UP or DOWN key to select station number or station group number and press RIGHT soft key to move cursor	[704] TRK RING D:205 N:501
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **All trunks day: 500, night: 500 (day and night=50 for 408/408i systems)**

Related Items: **MMC 202 Change Feature Passcodes**
MMC 507 Assign Auto Night Time
MMC 601 Assign Station Group

MMC: 407 FORCED TRUNK RELEASE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Provides a positive forced trunk release to a specific trunk or all trunks in the event of a trunk lock-up.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION

1. Open programming and select **407**
   Display shows

2. Dial in trunk number (e.g., 704)
   OR
   Press UP or DOWN key selected trunk and press right soft key
   OR
   Press ANS/RLS to select all trunks

3. Dial 1 for YES or 0 for NO (e.g. 1)

   System returns to step 2

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

DISPLAY

```
[701] TRK RELS.
RELEASE?  Y:1,N:0
```

```
[704] TRK RELS.
RELEASE?_Y:1,N:0
```

```
[ALL] TRK RELS.
RELEASE?_Y:1,N:0
```

```
[704] TRK RELS.
RELEASE?  Y:1,N:0
```

Default Data: **None**

Related Items: **MMC 603 Assign Trunk Group**

MMC: 408 ASSIGN TRUNK MUSIC ON HOLD SOURCE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to select which Music On Hold (MOH) source can be heard on each trunk. The possible selections for each music source are: TONE, NONE, internal and external (customer-provided MOH source).

DCS
Connected to a Trunk A card. The default directory number of an MOH source is 37xx.

Compact II
There is a total of two possible music sources, but this depends on whether a Misc card is installed in the system. One music source is provided on the base board (switch select internal/external); the other external source is provided on the Misc card. The default directory number of a background music source is 371–372.

816 and 408/408i
There is a music source on the base board (switch select internal/external). The default directory number of a background music source is 371.

Note: Internal music is always the odd numbered address, e.g. 371, 3701, 3703.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **408** Display shows current setting	[701] TRK MOH MOH SOURCE:TONE
2. Dial trunk number (e.g., 704) OR Use UP or DOWN to scroll through trunk numbers and press RIGHT soft key to move cursor OR Press ANS/RLS to select ALL	[704] TRK MOH MOH SOURCE:TONE OR [ALL] TRK MOH MOH SOURCE:?
3. Enter source number (e.g., 3701) OR Press UP or DOWN key to select option Press RIGHT soft key to return to step 2 above	[704] TRK MOH MOH SOURCE:3701
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **TONE**

Related Items: **MMC 308 Assign Background Music Source**

MMC: 409 TRUNK STATUS READ

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

This is a read-only MMC. Allows the status of trunks to be read in a format that will enable the servicing personnel to quickly identify the ownership and position of a trunk.

OPTIONS

Dial	DCS	COMPACT II & 816 & 408/408i
00	Port Number	Port Number
01	Tenant Number	Type: e.g. LOOP, DDI, BRI, PRI …
02	Type: e.g. LOOP, DDI, BRI, PRI …	1A2 Emulation Status (On/Off)
03	1A2 Emulation Status (On/Off)	Trunk Forward Status (On/Off)
04	Trunk Forward Status (On/Off)	Line Type (CO/PBX)
05	Line Type (CO/PBX)	Dial Type (DTMF/Dial Pulse)
06	Dial Type (DTMF/Dial Pulse)	Day Toll Restriction
07	Day Toll Restriction	Night Toll Restriction
08	Night Toll Restriction	Day Ring Destination
09	Day Ring Destination	Night Ring Destination
10	Night Ring Destination	MOH Source
11	MOH Source	DISA Status
12	DISA Status	–

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION **DISPLAY**

1. Open programming and select **409**
   Display shows (e.g. for Compact II)

   [701] TRK STATUS
   PORT NO::EX1-01

2. Enter trunk number via dial keypad (e.g., 704)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to advance cursor

   [704] TRK STATUS
   PORT NO::EX1-04

3. Enter desired option 00-12 from table above
   OR
   Press UP or DOWN key to make selection

   [704] TRK STATUS
   1A2 EMULATE:OFF

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data:

Port Number = Trunk port number
Tenant No. = 1
Type = Loop
1A2 Emulation = OFF
Trk Fwd = ON
Line Type = CO
Dial Type = DTMF
Day Toll = F–STN
Night Toll = F–STN
Day Ring Dest = 500 (50 for 408/408i)
Night Ring Dest = 500 (50 for 408/408i)
MOH Source = Tone
DISA Status = Normal

Related Items:

MMC 400 Customer On/Off Per Trunk
MMC 401 C.O./PBX Line
MMC 402 Trunk Dial Type
MMC 403 Trunk Toll Class
MMC 404 Trunk Name
MMC 406 Trunk Ring Assignment
MMC 408 Assign Trunk Music On Hold Source
MMC 410 Assign DISA Trunk

MMC: 410 ASSIGN DISA TRUNK

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system to have Direct Inward System Access (DISA). Because there is a possibility that unauthorised calls will be made via this feature, several safeguards have been added. The user must be informed of these to prevent unnecessary service calls. DISA can lock out when a predetermined number of invalid consecutive calls are attempted. Callers will then receive ring back tone until a programmable timer has expired. The ✻ key may be used to initiate new dial tone while in a station-to-station call. The # key may be used to terminate the DISA call and disconnect the central office line. Multiple central office calls and internal calls are possible.

Note: In order to use DISA, the caller must first dial a valid station number, followed by a four-digit passcode. This passcode is defined in MMC 101, *Change User Passcode*. DISA users MUST change this passcode as the default number cannot be used.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL (trunks)

FEATURE KEYS

0	NORMAL	No DISA service
1	DAY	DISA is available in day mode
2	NIGHT	DISA is available in night mode
3	BOTH	DISA is available in both day and night mode

ACTION	**DISPLAY**
1. Open programming and select **410** Display shows	[701] DISA LINE NORMAL
2. Dial trunk number (e.g., 704) OR Press UP or DOWN key to select trunk and press RIGHT soft key OR Press ANS/RLS key to select all trunks	[704] DISA LINE NORMAL OR [ALL] DISA LINE ?
3. Dial an option (0–3) from above table OR Press UP or DOWN key to select trunk and press RIGHT soft key to return to step 2	[704] DISA LINE NIGHT
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **All trunks normal**

Related Items: **MMC 101 Change User Passcode**
MMC 500 System-Wide Counters
MMC 210 Customer On/Off (DISA PSWD option)

MMC: 411 ASSIGN E1 SIGNAL TYPE

Not Used in UK

MMC: 412 ASSIGN TRUNK SIGNAL

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

Allows for the assignment of AC15 cards for proper signalling. This MMC is only for analogue types of AC15 trunks. These trunks can also use the translation tables in MMC 714, *DDI Number and Name Translation*. The AC15 trunks are allowed the use of translation tables via MMC 416, *Assign AC15 Translation*. The signalling condition types are as follows:

0 IMMEDIATE START
1 DELAYED START
2 WINK START
3 NO ANSWER BACK
4 DIRECT BACK

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
ANS/RLS	Used to select ALL

ACTION	DISPLAY
1. Open programming and select **412** Display shows	[701] TRK SIGNAL IMMEDIATE START
2. Enter desired trunk number (e.g., 705) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor OR Press ANS/RLS to select all trunks	[705] TRK SIGNAL IMMEDIATE START
3. Enter desired trunk type selection from above list OR Press UP or DOWN key to make selection and press RIGHT soft key	[705] TRK SIGNAL WINK START
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **All AC15 trunks set to IMMEDIATE START**

Related Items: **MMC 714 DDI Number and Name Translation**

MMC: 414 MPD/PRS SIGNAL

DCS	✓	CI	✓	CII	✓	816	✓	408i	✗	408	✓

Used on a per-trunk basis to define if a C.O. line is to be either a Metering Pulse (MPD) or a Polarity Reversal Signal (PRS) trunk. (Note: PRS is not available in the UK.)

A Meter Pulse Trunk will detect a C.O.-provided meter pulse. A Polarity Reversal trunk will detect the line reversal signal which may be provided by the C.O. when the other party answers the outgoing call or the outside party clears the call. If the trunk is designated as PRS detection, the call duration timer will be started and the results printed on the SMDR record. PRS detection is also essential for dropping a trunk-to-trunk conversation which is unsupervised by an internal party.

ACTION	**DISPLAY**
1. Open programming and select **414** Display shows	[Z01] TRK PRS NONE
2. Enter desired trunk number (e.g. 705) OR Press UP or DOWN key to select trunk and use LEFT or RIGHT soft key to move cursor	[705] TRK PRS NONE
3. Press UP or DOWN key to scroll through options and use LEFT or RIGHT soft key to return to step 2	[705] TRK PRS MPD
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **NONE**

Related Items: **MMC 508 Call Cost**

MMC: 415 REPORT TRUNK ABANDON DATA

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✗

Allows the system administrator or technician to enable or disable the reporting of abandoned C.O. calls for which CLIP information has been collected on a per-trunk basis.

There are two options for this MMC:

0 REPORT : NO — Abandoned call records for incoming calls with CLIP information will not be printed on SMDR or stored in the system abandoned call list.

These records will continue to be stored in the station review list.

1 REPORT : YES — Abandoned call records for incoming calls with CLIP information will be printed on SMDR or stored in the system abandoned call list.

These records will also be stored in the station review list.

Note: In order for these abandoned call records to print on SMDR, use MMC 725 (*SMDR Options*) and set Option 11 - Abandon Call - to YES.

ACTION	**DISPLAY**
1. Open programming and select **415** Display shows	[701] TRK ABNDN REPORT : YES
2. Dial trunk number (e.g. 705) OR Press UP or DOWN to select trunk and use LEFT or RIGHT soft key to move cursor	[705] TRK ABNDN REPORT : YES
3. Dial 1 for YES or 0 for NO (e.g. 0) OR Press UP or DOWN to scroll through options and use LEFT or RIGHT soft key to return to step 2	[705] TRK ABNDN REPORT : NO
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data : **REPORT: YES**

Related Items:
MMC 119 Set CLIP Display
MMC 312 Allow CLIP
MMC 608 Assign CLIP Review Block
MMC 722 Station Key Programming
MMC 723 System Key Programming
MMC 725 SMDR Options
MMC 728 CLIP Translation Table

MMC: 416 ASSIGN AC15 TRANSLATION

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

Provides an AC15 tieline with the ability to use DDI translation tables (MMC 714). Options are:

0 UNUSE DID TRANS
1 USE DID TRANS

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
ANS/RLS	Used to select ALL

ACTION

1. Open programming and select **416**
   Display shows

2. Enter desired trunk number (e.g., 705)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to move cursor
   OR
   Press ANS/RLS to select all trunks

3. Dial 0 or 1 to select option (e.g. 1)
   OR
   Press UP or DOWN key to make selection

3. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

DISPLAY

[701] TIE XLATE
UNUSE DID TRANS

[705] TIE XLATE
UNUSE DID TRANS

OR

[ALL] TIE XLATE
UNUSE DID TRANS

[ALL] TIE XLATE
USE DID TRANS

Default Data: **UNUSE DID TRANS**

Related Items: **MMC 714 DDI Number and Name Translation**

MMC: 417 PRI CRC4 OPTION

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

This option is used to enable/disable CRC4 generation and checking. It is useful with some networks which do not support CRC4 framing but only PCM30 framing. By default, the CRC option is ON.

Note: After changing this option, MMC 418, *Card Restart*, must be used to restart the card to make the change effective.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **417** Display shows	[701] PRI CRC4 ON
2. Enter first trunk number in PRI card (e.g. 701) OR Press UP or DOWN key to select first trunk number and press RIGHT soft key to move cursor	[701] PRI CRC4 ON
3. Enter 1 for ON or 0 for OFF OR Press UP or DOWN key to select and press RIGHT soft key	[701] PRI CRC4 OFF
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **CRC4 ON**

Related Items: **MMC 418 Card Restart**

MMC: 418 CARD RESTART

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✗

Enables any changes you make in MMC 417 (*PRI-CRC4 Option*), MMC 419 (*BRI Option*), MMC 420 (*PRI Option*) or MMC 423 (*S/T Mode*) and applies them, as appropriate, to each BRI or PRI card that you restart.

Note: PRI is not available on 816 or 408i systems.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **418** Display shows	[Z01] RESTART CARD RESTART ? NO
2. Enter first trunk number in ISDN card (e.g. 701) OR Press UP or DOWN key to select first trunk number and press RIGHT soft key to move cursor	[701] RESTART CARD RESTART ? NO
3. Press UP or DOWN key to select YES or NO and press RIGHT soft key (If you select NO, system returns to step 2)	[701] RESTART CARD RESTART ? YES
4. You are asked to confirm your selection Enter 1 for YES or 0 for NO OR Press UP or DOWN key to select and press RIGHT soft key (If you select YES, the card is restarted)	[701] RESTART ARE YOU SURE ? YES
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **MMC 417 PRI CRC4 Option (DCS & Compact II)**
MMC 419 BRI Option
MMC 420 PRI Option (DCS & Compact II)
MMC 423 S/T Mode

MMC: 419 BRI OPTION

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✗

This MMC comprises two groups of items. One group is for the "TRUNK" ports as set in MMC 423, *S/T Mode*, and the other is for the "STATION" ports. *Be aware that some items will not be available on certain types of system.*

Note: For each BRI access, two adjacent ports are assigned. You need only change the value for one of the two ports; the value for the other port will be changed automatically.

Ports Programmed as "TRUNK" in MMC 423

Display shows "BRI-TRK". Items to select include some or all of the following: BRI MODE, CHANNEL ANY, DLSEND and BRI CODING.

- **BRI MODE**

  P-P DDI: When BRI line is point-to-point configuration and is a DDI line. Incoming calls are placed as set in MMC 714 (*DDI Number & Name Translation*). All incoming calls through the DDI trunk will be placed according to the setting of the DDI table.

  P-M NOR: When BRI line is point-to-multipoint configuration and is not an MSN line Incoming calls are placed as set in MMC 406 (*Trunk Ring Assignment*)

  P-M MSN: When BRI line is point-to-multipoint configuration and is an MSN line. The system can manage up to eight MSN numbers for each MSN BRI access. Incoming calls through PMP MSN ports are handled as set in MMC 421 (*MSN Digit*). Each BRI access requires its own table.

  P-P NOR: When BRI line is point-to-point configuration and is not a DDI line. Incoming calls are placed as set in MMC 406 (*Trunk Ring Assignment*).

- **CHANNEL ANY**

  This field can be set to YES or NO and is referenced when a user attempts an outgoing call while that port is busy.

  If CHANNEL ANY is NO, user hears busy tone.

  If CHANNEL ANY is YES, the system checks if the adjacent port (another B channel in the same BRI access) is free. If it is free, the user can call through that port. Otherwise, the user hears busy tone.

- **DLSEND**

  This field is provided to set the dial sending mode to "enblock" or "overlap" on an individual port basis.

- **BRI CODING**

  A-LAW or U-LAW (A-LAW in UK)

Note: Any change to BRI MODE option is effective only after restart of the BRI card. Use MMC 418, *Card Restart*, to restart the card.

Ports Programmed as "STATION" in MMC 423

Display shows "BRI-STN". Items to select include some or all of the following: CHANNEL ANY, POWER FEED (see note) and BRI CODING.

- **CHANNEL ANY**
  (See above.)

- **POWER FEED**
  This field determines if power to a BRI access will be supplied (YES or NO).

  Note:

  1. Any change to The Power Feed option is effective only after restarting the BRI card. Use MMC 418 to restart the card.

  2. Only DCS (excluding Compact I) andCompact II systems provide a Power Feed option to the S0 Interface. (See Table 1 in the *S0 Overview* section of this manual (Part 3, Special Applications).)

- **BRI CODING**
  A-LAW or U-LAW (A-LAW in UK)

In BRI-STN, options DLSEND and BRI MODE are not included because the system uses implicit data for these: enblock for DLSEND and P-MP for BRI MODE.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **419** Display shows	[701] BRI-TRK CHANNEL ANY : YES OR [701] BRI-STN CHANNEL ANY : YES
2. Dial BRI trunk number (e.g. 703) OR Press UP or DOWN key to select the port **For TRUNK ports (TRK)**, go to step 3.a **For STATION ports (STN),** go to step 3.b	
3.a Display is as shown for TRUNK ports Use the RIGHT soft key to position the cursor under CHANNEL ANY	[703] BRI-TRK CHANNEL ANY : YES

3.a.1 Press UP or DOWN key to choose item (CHANNEL ANY, BRI MODE, DLSEND, BRI CODING)
Press RIGHT soft key to move the cursor
Use UP or DOWN key to select option (e.g. P-P DDI for BRI MODE)
If you press RIGHT soft key, cursor moves under trunk number (step 3.a)
If you press LEFT soft key, cursor returns to option (e.g. BRI MODE)

```
[703] BRI-TRK
BRI MODE:P-P DDI
```

3.a.2 For other items, repeat step 3.a.1

```
[703] BRI-TRK
CHANNEL ANY : YES
```

3.a.3 For another port, repeat from step 2
When finished, go to step 4

3.b Display is as shown for STATION ports

```
[703] BRI-STN
CHANNEL ANY : YES
```

3.b.1 Press UP or DOWN key to choose item: CHANNEL ANY, POWER FEED (DCS/Compact II only), BRI CODING
Press RIGHT soft key to move cursor and make selection

3.b.2 For other items, repeat step 3.b.1

3.b.3 For another port, repeat from step 2

4. Press TRSF to store and exit
OR
Press SPEAKER to store and advance to next MMC

Default Data:

CHANNEL ANY:	**YES**
BRI MODE:	**P-P DDI**
DLSEND:	**OVERLAP**
POWER FEED:	**NO**
BRI CODING:	**A-LAW**

Related Items:

MMC 418 Card Restart
MMC 421 MSN Digit
MMC 423 S/T Mode
MMC 714 DDI Number and Name Translation

MMC: 420 PRI OPTION

DCS	✓	CI	✗	CII	✓	816	✗	408i	✗	408	✗

Allows the system DDI/NORMAL access and sets dial sending mode (DLSEND) on an individual port basis to OVERLAP or ENBLOCK. However, if you change the dial sending mode of one port, all other ports must be set to the same dial sending mode. If your PRI line is not registered for DDI service at the Central Office, you can use NORMAL service (e.g. subaddress or normal trunk incoming service). If you set PRI MODE to DDI, you can service DDI (Direct Dial Inward) to a specific station or station group according to DDI NUMBER TABLE.

There is also a CHANNEL ANY option. If set to YES, when a call is initiated the channel used is specified by the network; if set to NO, when a call is initiated the DCS/Compact II will specify which channel to use.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **420** Display shows	[701] PRI OPTION CHANNEL ANY:YES
2. Dial PRI trunk number (e.g. 704) OR Press UP or DOWN key to select the port Press the RIGHT soft key to move the cursor	[704] PRI OPTION CHANNEL ANY:YES
3. Press UP or DOWN key to make selection (CHANNEL ANY, PRI MODE or DLSEND) and press RIGHT soft key to move the cursor	[704] PRI OPTION DLSEND : OVERLAP
4. Use UP or DOWN key to make selection and press RIGHT soft key to return to step 2	[704] PRI OPTION DLSEND : ENBLOCK
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:

CHANNEL ANY:	**YES**
PRI MODE:	**DDI**
DLSEND:	**OVERLAP**

Related Items:

MMC 418 Card Restart
MMC 406 Trunk Ring Assignment
MMC 714 DDI Number and Name Translation

MMC: 421 MSN DIGIT

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✗

Provides a method of assigning an incoming MSN call to a specific station. If any entry in MSN DIGIT TABLE matches an incoming call's called party number, either the specific station is alerted, if it is programmed to accept the call, or the call is cleared if it is programmed to reject the call.

If the incoming called party number does not have a matching entry in the MSN table, the operator is alerted.

You can give each MSN number to a specific station and you can select a call waiting option: when a destination is busy, the incoming call must be cleared or camped-on to the station (which is alerted to the call).

There is a total of eight entries on a trunk basis and each entry consists of the following fields:

DIGITS	Digits to be received (maximum of 10).
DAY DEST	Destination in day mode - can be a station or a station group. Repeat (B) will be acceptable to the system if received digit is within numbering plan for a station or station group.
NIGHT DEST	Destination in night mode - can be a station or a station group. Repeat (B) will be acceptable to the system if received digit is within numbering plan for a station or station group.
CALL WAIT	Toggles YES or NO: if YES then the call will be camped-on at busy destination while NO gives busy indication.
OPTION	Accept: the selected destination party will be alerted. Reject: the call is cleared.

Note: For each BRI access, two adjacent ports are assigned. You need only change the value for one of the two ports; the value for the other port will be changed automatically.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	DISPLAY
1. Open programming and select **421** Display shows	[701]MSN DGT (1) DGT:
2. Enter trunk number (e.g. 704) OR Press UP or DOWN key to scroll through ports and press RIGHT soft key to move cursor	[704]MSN DGT (1) DGT:
3. Enter the location 1-8 (e.g. 4) OR Press UP or DOWN to select location and press RIGHT soft key to move cursor	[704]MSN DGT (4) DGT:_
4. Enter digits to be translated (e.g. 4603881) via dial key-pad and press RIGHT soft key to move to the destination selection (Max. digits is 10)	[704]MSN DGT (4) DGT:4603881_
5. Enter day destination via dial keypad (e.g. 204) OR Press UP or DOWN key to make selection and press RIGHT soft key	[704]MSN DGT (4) →D:204 N:
6. Enter night destination via dial keypad (e.g. 202) OR Press UP or DOWN key to make selection and press RIGHT soft key	[704]MSN DGT (4) →D:204 N:202
7. Enter 1 for YES or 0 for NO (for Call Waiting) OR Press UP or DOWN key to make selection and press RIGHT soft key	[704]MSN DGT (4) CW:NO OPT:ACEPT
8. Enter 1 for ACCEPT or 0 for REJECT (for Option) OR Press UP or DOWN key to make selection and press RIGHT soft key	[704]MSN DGT (4) CW:NO OPT:ACEPT
9. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **MMC 419 BRI Option**
MMC 420 PRI Option

MMC: 422 ASSIGN TRUNK COS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Used to assign a day and night class of service (COS) to each trunk. For DCS and Compact II systems there are 30 (01-30) different classes of service. For 816 systems there are 10 (01–10). For 408/408i systems there are four (1–4). These are defined in MMC 701, *Assign COS Contents*. According to the assigned COS, an outside caller to the system via a DISA line without a pass-code may have restricted access to system features.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION **DISPLAY**

1. Open programming and select **422**
   Display shows first trunk

   [701] TRK COS
   DAY:01 NIGHT:01

2. Dial trunk number (e.g. 705)
   OR
   Use UP and DOWN to scroll through trunks and press RIGHT soft key
   OR
   Press ANS/RLS to select all stations

   [705] TRK COS
   DAY:01 NIGHT: 01

   OR

   [ALL] TRK COS
   DAY:?? NIGHT:??

3. Enter day class of service (e.g. 05)
   OR
   Use UP and DOWN to scroll through classes of service and press RIGHT soft key

   [205] TRK COS
   DAY:05 NIGHT: 01

4. Enter night class of service (e.g. 05)
   OR
   Use UP and DOWN to scroll through classes of service and press RIGHT soft key to return to step 2

   [205] TRK COS
   DAY:05 NIGHT: 05

5. Press TRSF to save and exit
   OR
   Press SPEAKER to save and advance to next MMC

Default Data: **DAY CLASS: 01 (1)**
NIGHT CLASS: 01 (1)

Related Items: **MMC 301 Assign Station COS**
MMC 410 Assign DISA Trunk
MMC 701 Assign COS Contents

MMC: 423 S/T MODE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✗

Used to select the function of each BRI access. You can set a BRI access as "TRUNK" to which an ISDN C.O. line is connected, or as "STATION" to which an ISDN terminal is connected.

For each BRI access, two adjacent ports are assigned. You need only change the value for one of the two ports; the value for the other port will be changed automatically.

Note: Any change made in this MMC will take effect only after restarting the BRI card. Use MMC 418, *Card Restart*, to restart the card.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **423** Display shows	[701] S/T MODE TRUNK
2. Dial BRI trunk number (e.g. 703) OR Press UP or DOWN key to select the port Use the RIGHT soft key to position the cursor under TRUNK (or STATION)	[703] S/T MODE TRUNK
3. Press UP or DOWN key to make selection (TRUNK or STATION) Press RIGHT soft key to position the cursor under the port number again	[703] S/T MODE STATION
4. For other ports, repeat steps 2 and 3	
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **TRUNK**

Related Items: **MMC 418 Card Restart**
MMC 419 BRI Option
MMC 424 S0 Mapping

MMC: 424 S0 MAPPING

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✗

Generates a table by which an ISDN terminal number is mapped onto a BRI STATION port.

For a detailed description and other MMC-related procedures, refer to BRI Related MMC Procedure in the *S0 Overview* section of this manual (see Part 3, "Special Applications").

Note: For each BRI access, two adjacent ports are assigned. You need only map a number onto one of the two ports. You can map only one port to each number. This means you can't use the same number in more than one BRI access. However, more than one number can be mapped onto a port and used in a BRI access.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **424** Display shows	[7801]S0 MAPPING NONE
2. Dial an ISDN terminal number (e.g. 7803) OR Press UP or DOWN key to select the number and press RIGHT soft key to move cursor	[7803]S0 MAPPING NONE
3. Dial an ISDN station number (e.g. 703) OR Press UP or DOWN key to select the number and press RIGHT soft key	[7803]S0 MAPPING 703
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **NONE**

Related Items: **MMC 419 BRI Option**
MMC 423 S/T Mode

MMC: 426 TRUNK GAIN CONTROL

DCS	✓	CI	✗	CII	✓	816	✓	408i	✓	408	✓

This MMC procedure allows trunk gain control.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL trunks

ACTION	**DISPLAY**
1. Open programming and select **426** Display shows	[701] TRUNK GAIN RX : +0.0 TX : +0.0
2. Dial trunk number (e.g., 704) OR Press UP or DOWN key to select trunk and press RIGHT soft key OR Press ANS/RLS to select ALL trunks	[704] TRUNK GAIN RX : ±0.0 TX : +0.0 OR [ALL] TRUNK GAIN RX : ±0.0 TX : +0.0
3. Press UP or DOWN key to select trunk RX gain and press RIGHT soft key	[704] TRUNK GAIN RX : +1.0 TX : ±0.0
4. Press UP or DOWN key to select trunk TX gain and press RIGHT soft key	[704] TRUNK GAIN RX : +1.0 TX : +1.0
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **RX = +0.0, TX = +0.0 dB for all trunks**

Related Items: **None**

MMC: 427 R2MFC SIGNAL

Not Used in UK

MMC: 428 ASSIGN TRUNK / TRUNK USE

DCS	✓	CI	✗	CII	✓	816	✓	408i	✗	408	✗

Used to control whether an incoming trunk can dial calls for specific trunks. (In the following example, you don't want trunk 705 to dial calls for 708.)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **428** Display shows	[701] USE [702] DIAL:YES
2. Dial the incoming trunk number (e.g., 705) OR Press UP or DOWN key to select trunk and press RIGHT soft key OR Press ANS/RLS to select all trunks	[705] USE [702] DIAL:YES
3. Dial the trunk number (e.g., 708) OR Press UP or DOWN key to select trunk and press RIGHT soft key	[705] USE [708] DIAL:YES
4. Dial 1 for YES or 0 for NO OR Press UP or DOWN key to select YES/NO and press RIGHT soft key	[705] USE [708] DIAL:NO
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **DIAL=YES**

Related Items: **None**

MMC: 500 SYSTEM-WIDE COUNTERS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Used to set the values of the system counters. The counters are listed below with a brief description of each.

DIAL	COUNTER	DESCRIPTION
0	ALARM REMINDER	The number of times that an alarm reminder will ring a station before cancelling. RANGE = 1–99.
1	AUTO REDIAL	The number of times the system will redial an outside number after the auto redial feature has been activated. RANGE = 1–15.
2	DISA CALL	Sets the maximum number of internal calls that can be made after accessing a DISA line. RANGE = 1–99.
3	DISA LOCK	Number of attempts the system will allow to incorrectly access a DISA line before locking out the DISA line. RANGE = 1–99.
4	NEW CALL	Number of times the system will allow a user to signal New Call on a C.O. line during one call. RANGE = 1–99.
5	UCDS VISUAL ALARM*	Used to set the Visual Alarm threshold. It is triggered when the number of calls waiting to be answered in the UCD group reaches this value. RANGE = 0–25.
6	UCDS AUDIO ALARM*	Used to set the Audio Alarm threshold. It is triggered when the number of calls waiting to be answered in the UCD group reaches this value. RANGE = 0–25
7	UCD CS LEVEL 1*	Provides call wait indication level 1 if number of calls waiting to be answered in UCD group reaches this value. RANGE = 0–25.
8	UCD CS LEVEL 2*	Provides call wait indication level 2 if number of calls waiting to be answered in UCD group reaches this value. RANGE = 0–25.

* Options 5–8 are not available on 408/408i systems.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	DISPLAY
1. Open programming and select **500** Display shows	ALARM REM.CNTER 05→
2. Enter number from above list (e.g., 6) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	UCDS VISUAL ALARM 00→_
3. Enter in new value via dial keypad If entry is valid, system will return to step 2	UCDS VISUAL ALARM 00→02
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:	**Alarm Reminder**	**5**
	Auto Redial	**5**
	DISA Call	**99**
	DISA Lock	**3**
	New Call	**99**
	UCDS Visual Alarm	**0**
	UCDS Audio Alarm	**0**
	UCD CS Level 1	**0**
	UCD CS Level 2	**0**

Related Items: **MMC 501 System-Wide Timers**

MMC: 501 SYSTEM-WIDE TIMERS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the adjustment of individual system timers as necessary. Some timers can be disabled by setting the time to all zeros (000).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **501** Display shows first timer value	AA INT DGT TIME 05 SEC →
2. Press UP or DOWN key to select timer (e.g. KMMC Lock Out) and press RIGHT soft key to move cursor	KMMC LOCK OUT TM 30 SEC → _
3. Enter new value using keypad If valid, system returns to step 2	KMMC LOCK OUT TM 30 SEC → 255
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **See table of timers and values, below**

Related Items: **None**

Timers

Note that some timers apply only to certain systems. These are indicated in the list.

TIMER NAME	DEFAULT	RANGE
AA INT DGT (not 408/408i)	05 SEC	1–25 SEC
AA NO ACT (not 408/408i)	10 SEC	1–25 SEC
AA TRANS (not 408/408i)	00 SEC	0–25 SEC
ALERT TONE	1000 MS	100–2500 MS
ALM REM.INTERVAL	25 SEC	1–255 SEC
ALM REM.RING OFF	10 SEC	1–25 SEC
ATT.RECALL	30 SEC	1–255 SEC
AUTO REDIAL INT.	30 SEC	1–255 SEC
AUTO REDIAL RLS.	45 SEC	1–255 SEC
BARGE-IN TONE INT	1300 MS	100-9900 MS
CALLBACK NO ANS	30 SEC	1–255 SEC
CAMP ON RECALL	30 SEC	1–255 SEC
CLIP DISPLAY (not 408)	5 SEC	1-25 SEC
CLIP MSG RECEIVE (not 408)	6 SEC	1-25 SEC
CO CLEAR (408 only)	30 SEC	0–255 SEC
CO CONFIRM	3 MIN	0–255 MIN
CO–CO DISCONNECT	20 MIN	0–255 MIN
CONFER TONE INT	9900 MS	100-9900 MS
CONFIRM TONE	1000 MS	100–2500 MS
CRD TONE INT (not 816 or 408/408i)	30 SEC	1–255 SEC
DIAL PASS	5 SEC	1–25 SEC
DISA DISCONNECT	30 MIN	1–255 MIN
DISA LOCK OUT	30 MIN	1–255 MIN
DISA NOANS DISC	30 SEC	0–255 SEC
DISA PASS CHECK	30 MIN	1–255 MIN
DISPLAY DELAY	3 SEC	1–255 SEC
DOOR LOCK RELEASE	500 MS	100–2500 MS
DOOR RING DETECT	50 MS	10–250 MS
DOOR RING OFF	30 SEC	1–255 SEC
E-HOLD RECALL	45 SEC	0–255 SEC
EXT.FWD DELAY	10 SEC	1–255 SEC
FIRST DIGIT	10 SEC	1–255 SEC
HOK FLASH MAX	120 MS	20–2500 MS
HOK FLASH MIN	80 MS	20–2500 MS
HOOK OFF	200 MS	100–2500 MS
HOOK ON	200 MS	20–2500 MS
INQUIRY RELEASE	30 SEC	1–255 SEC
INTER DIGIT	10 SEC	1–255 SEC
KMMC LOCK OUT	30 SEC	10–255 SEC
LCR ADVANCE	5 SEC	1–255 SEC
LCR INTER DIGIT	5 SEC	1–255 SEC
MCL DELAY	4 SEC	1-8 SEC
OFF HOK RING INT	15 SEC	1–255 SEC
OFF HOOK SELECT	5 SEC	1–255 SEC
OHVA ANSWER	10 SEC	1–255 SEC
OVERLAP INT DGT (not 408)	7 SEC	1 - 15 SEC
PAGE TIME OUT	20 SEC	1–255 SEC
PAGE TONE	500 MS	100–2500 MS

PARK RECALL	45 SEC	0–255 SEC
PC-MMC LOCK (not 408)	5 MIN	1–60 MIN
POWER DOWN	2000 MS	1000–9900 MS
RECALL DISCONECT	2 MIN	1–255 MIN
RECALL WAIT	15 SEC	1–255 SEC
SMDR START/DP	30 SEC	1–255 SEC
SMDR START/DTMF	15 SEC	1–255 SEC
SYS HOLD RECALL	45 SEC	0–255 SEC
TRANSFER RECALL	20 SEC	0–255 SEC
UCDS AUDIO ALARM (not 408/408i)	0 SEC	0–255 SEC
UCDS VISUAL ALARM (not 408/408i)	0 SEC	0–255 SEC
VMS UCD MSG (816 only)	5 SEC	1–99 SEC
VOICE DIAL DELAY (not 816 or 408/408i)	8 SEC	5–15 SEC
R/D RING ON (not used)	–	–
R/D SIGNAL ON (not used)	–	–
PERI UCD REPORT (not 408/408i)	5 SEC	3–99 SEC

Timer Descriptions

AA INT DGT: Controls the grace period between dialling valid digits before transferring call to INVLID DEST as set in MMC 733 on a per-plan basis.

AA NO ACT: Time AA will wait for first digit for processing, after which call is transferred to the destination set in NO ACT DEST in MMC 733.

AA TRANS: After this time, compare input digit with AA translation table (MMC 732) and transfer to destination.

ALERT TONE: Sets the duration of the attention tone preceding a call to a keyset in the Voice Announce or Auto Answer mode. This tone also precedes a forced Auto Answer call.

ALM REM INTERVAL: Controls the time between ring attempts at a station when alarm reminder is set.

ALM REM RING OFF: Controls the length of the ring cycle when alarm reminder is set at a station.

ATT RECALL: The length of time a transfer recall will ring at a station before recalling the operator.

AUTO REDIAL INT: Controls the time between attempts after RETRY dialling is set on a station.

AUTO REDIAL RLS: Controls the duration of a Ring No Answer condition on a retry number dialled before the auto redial is automatically cancelled.

BARGE-IN TONE INT: Controls the interval between the tones sent to the station being barged in on.

CALLBACK NO ANS: Controls the time before the callback is automatically cancelled when a callback detects Ring No Answer.

CAMP ON RECALL: Controls how long a camped-on call will stay at a destination before recalling to the transferring station.

CLIP DISPLAY: The amount of time that the Calling Line ID information remains on the keyset's display. While on a trunk conversation, users are allowed to review received CLIP by pressing *SCROLL* → *CLIP* soft key, but LCD will automatically go back to trunk conversation status on expiration of this timer.

CLIP MSG RECEIVE: The amount of time that the system will allow a valid message from the C.O.

C.O. CLEAR: The length of time a Direct Trunk Select key remains busy after cleardown.

CO CONFIRM: After this time, the outgoing call is disconnected or you can hear the confirm tone.

C.O.- C.O. DISCONNECT: Monitors the duration of an unsupervised conference; when it expires, both trunks are disconnected.

CONFER TONE INT: Controls the intervals between the tones heard by the parties in a conference.

CONFIRM TONE: The tone heard when a feature is activated or deactivated.

CRD TONE INT: Controls the interval of the intermittent tone presented to station users whose calls are being recorded using the Auto Record feature (see CADENCE documentation).

DIAL PASS: The wait time for preventing the misdialling of an outgoing call. After the last digit has been dialled, the voice path is connected.

DISA DISCONNECT: Controls the maximum duration of a DISA call.

DISA LOCK OUT: Controls the time period for which a DISA call is not allowed to be made after the DISA error counter has expired (MMC 500).

DISA NOANS DISC: Controls the time period after which a DISA call is disconnected if the call is not answered.

DISA PASS CHECK: Defines the time period before the system clears the incorrect passcode counter.

DISPLAY DELAY: Controls how long information is shown in the LCD. This timer also controls how long error tone is heard.

DOOR LOCK RELEASE: Controls how long the door lock relay is activated.

DOOR RING DETECT: Controls the period of time before a call is answered by the door phone.

DOOR RING OFF: Controls the duration of ringing at the door ring destination before automatically cancelling.

E-HOLD RECALL: Controls how long a call is held exclusively at a station before recalling. See *ATT Recall Time*.

EXT. FWD DELAY: Controls the External Call Forward feature which allows a station to ring before the call is placed on external call forwarding.

FIRST DIGIT: Controls how long the system will wait for dialling to begin before dropping the dial tone and returning the user to error tone.

HOK FLASH MAX: Monitors the duration of a hookswitch flash to ensure that the flash is valid and not a line noise or an accidental hookswitch bounce (LONGEST DURATION).

HOK FLASH MIN: Monitors the duration of a hookswitch flash to ensure that the flash is valid and not a line noise or an accidental hookswitch bounce (SHORTEST DURATION).

HOOK OFF: Controls the time before dial tone is sent to a single line station.

HOOK ON: Sets the minimum amount of time that the system will recognise as an SLT hang up. (Must be greater than HOK FLASH MAX.)

INQUIRY RELEASE: Monitors the duration of the action of the soft key to determine when to return the LCD back to a normal status. This timer affects only display phones.

INTER DIGIT: Controls the grace period between dialling valid digits before dropping the call and returning the user to error tone.

KMMC LOCK OUT: Controls the grace period between programming actions while in a programming session (KMMC not PCMMC). The timer automatically returns the system to secure programming status.

LCR ADVANCE: Controls the period of time before selecting the next allowable route when a station is allowed to route advance.

LCR INTER DIGIT: Controls the grace period between dialling valid digits before dropping the call and returning the user to error tone.

MCL DELAY: Controls the time when the system should start transmitting Authorisation Code after sending MCL access code (Cable & Wireless 131 access).

OFF HOOK RING: Controls the duration of time between ring bursts to a user who has a camped-on call.

OFF HOOK SELECT: Controls the grace period before placing a internal/external call as programmed in MMC 306.

OHVA ANSWER: Controls the duration of an OHVA call before automatic rejection. When a user receives OHVA with voice interrupt, this situation will last until this timer expires. If LCD phones receive OHVA, REJECT will appear at righthand side of bottom line while this timer is activated.

OVERLAP INT DGT: Controls the grace period between receiving address information in overlap receiving mode via BRI/PRI line. After expiration of this timer the system operator will be alerted.

PAGE TIME OUT: Controls the duration of a page announcement.

PAGE TONE: Controls the duration of tone burst heard over the page prior to the page announcement.

PARK RECALL: Controls the period of time a call is parked before recalling to the call park originator.

PC-MMC LOCK: Monitors PCMMC activity, drops the link if no action is created by PCMMC and returns the system to secure program status.

PERI UCD REPORT: Controls the interval between periodic UCD reports being output to the applicable port.

POWER DOWN: Sets the duration of disconnect signal for VM/AA ports.

RECALL DISCONNECT: The time an attendant recall rings before being disconnected. See *ATT Recall Time*.

RECALL WAIT: This is the time any recall (hold or transfer) continues to recall at your station before it recalls to the operator.

SMDR START/DIAL PULSE (ROTARY): This grace period timer starts SMDR recording for rotary dialling. This timer also controls the LCD duration timer on the keysets. The duration time displayed and the SMDR time duration will be the same.

SMDR START/DTMF: This grace period timer starts SMDR recording for touchtone dialling. This timer also controls the LCD duration timer on the keysets. The duration time displayed and the SMDR time duration will be the same.

SYS HOLD RECALL: Determines the time calls can be left on hold before recalling the holding station. Setting timer to 000 means no recalling will take place.

TRANSFER RECALL: Determines the time that transferred calls ring before recalling. See *Recall Wait Time*.

UCDS AUDIO ALARM: Determines how long the longest waiting call can be held before the system gives an audio alarm to the UCD supervisor.

UCDS VISUAL ALARM: Determines how long the longest waiting call can be held before the system gives a visual alarm to the UCD supervisor.

VMS UCD MSG: Not used in UK.

VOICE DIAL DELAY: Monitors the duration of the interaction between main software and Voice Dialler.

MMC: 502 STATION-WIDE TIMERS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows certain station timer values to be changed on a per-station basis or for all stations. ***It is not advisable to change these values without assistance from Technical Support.***

0	NO ANS FWD	This timer controls how long the station will ring before a Forward on No Answer takes place. (Range: 001- 255 sec.)
1	DTMF DURATION	This timer governs the duration of DTMF digit which is transmitted to an external VM system port. It is useful for customising a voice mail system. (Range: 100 - 9900 msec.)
2	FIRST DGT DELAY	This timer is valuable for the system administrator to insert a suitable delay for generating DTMF digits, for commencing in-band integration. (Range: 100 - 9900 msec)

Note: It is reasonable for the system administrator to use trial and error to find a suitable value for 1 and 2 above according to the characteristics of the selected VM system.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **502** Display shows	[201] NO ANS FWD 015 SEC →_
2. Dial station number (e.g., 205) OR Press UP or DOWN key to select station and press RIGHT soft key OR Press ANS/RLS to select all stations and press RIGHT soft key	[205] NO ANS FWD 015 SEC →_ OR [ALL] NO ANS FWD 015 SEC →_
3. Enter new value (must be three digits) via dial keypad (e.g., 020) System will return to step 2	[205] NO ANS FWD 015 SEC →020
4. Dial timer number from above list (e.g. 1) OR Press UP or DOWN key to select and press RIGHT soft key to move cursor	[205] DTMF DUR. 0100 MS →_
5. Enter new timer value (must be four digits, e.g. 0200) System returns back to step 2	[205] DTMF DUR. 0100 MS →0200
6. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:	**NO ANS FWD**	**015 sec**
	DTMF DURATION	**100 msec**
	FIRST DGT DELAY	**600 msec**

Related Items:
MMC 102 Call Forward
MMC 207 Assign VM/AA Port
MMC 726 VM/AA Options

MMC: 503 TRUNK-WIDE TIMERS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows certain trunk timer values to be changed on a per-trunk basis or for all trunks. ***It is not advisable to change these values (with the exception of trunk flash time) without assistance from Technical Support.***

TIMER	RANGE	DEFAULT	DIAL	
			408/408i	Other Systems
ANS.BAK TM	0100–2500 MSEC	0600 MSEC	00	00
CLEARING	0100–2500 MSEC	2000 MSEC	01	01
CO SUPV TM	0100–2500 MSEC	0400 MSEC	02	02
DTMF DURATION	0100–2500 MSEC	0100 MSEC	03	03
FIRST DGT DELAY	0100–2500 MSEC	0600 MSEC	04	04
FLASH TIME	0100–2500 MSEC	0070 MSEC	05	05
NO RING TM	001–255 SEC	004 SEC	06	06
PAUSE TIME	001–255 SEC	003 SEC	07	07
PRS DET TM	0000–2500 MSEC	0000 MSEC	08	08
RNG DET.TM	0100–2500 MSEC	0300 MSEC	09	09
WINK TIME	0100–0300 MSEC	0200 MSEC	n/a	10
MF/DP INT TM	0100–9900 MSEC	0800 MSEC	10	11
MFR DLY TM	00–25 SEC	00 SEC	11	12

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
ANS/RLS	Used to select ALL

ACTION	DISPLAY
1. Open programming and select **503** Display shows	[701] ANS.BAK TM 0600 MS →
2. Dial trunk number (e.g., 704) OR Press UP or DOWN key to select trunk and press RIGHT soft key to move cursor OR Press ANS/RLS to select all trunks and press RIGHT soft key to move cursor	[704] ANS.BAK TM 0600 MS → OR [ALL] ANS.BAK TM 0600 MS →
3. Dial timer number from above list OR Press UP or DOWN key to select timer and press RIGHT soft key to move cursor	[704] DTMF DUR. 0600 MS →_
4. Enter new timer value (must be four digits, e.g., 0700) System returns to step 2	[704] DTMF DUR. 0600 MS →0700
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **See table above**

Related Items: **None**

MMC: 504 PULSE MAKE/BREAK RATIO

DCS	✓	CI	✓	CII	✓	816	✓	408i	✗	408	✓

Allows the value of pulses per second and the duration of the make/break time to be changed. This only affects rotary dial trunks.

FEATURE KEYS

Dial 0 Make/Break ratio (01–99)
Dial 1 Pulse Per Second (10 or 20)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION	DISPLAY
1. Open programming and select **504** Display shows	MAKE/BREAK RATIO 33 MAKE→
2. Dial 0 or 1 for option (e.g. 1) OR Press UP or DOWN key for selection and press RIGHT soft key to move cursor	PULSE PER SECOND 10 PPS →_
3. Dial in new value (e.g. 20) and system returns to step 2	PULSE PER SECOND 10 PPS →20
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **Make/Break = 33**
Pulses Per Second = 10

Related Items: **MMC 402 Trunk Dial Type**

MMC: 505 ASSIGN DATE AND TIME

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system clock date and time to be set.

FEATURE KEYS

W	Day	0–6 (0:SUN, 1:MON, 2:TUE, 3:WED, 4:THU, 5:FRI, 6:SAT)
MM	Month	01–12
DD	Date	01–31
YY	Year	00–99 (e.g. 02 for 2002)
HH	Hour	00–23
MM	Minute	00–59

PROGRAM KEYS

KEYPAD	Used to enter selections
SPEAKER	Used to store data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **505** Display shows system date and time	OLD: 1 1 1 0 2 9 9 : 1 1 4 7 NEW:WMMDDYY:HHMM
2. Enter new date and time using above table	OLD: 1 1 1 0 2 9 9 : 1 1 4 7 NEW:3 1 1 0 5 0 1 : 1 4 4 5
3. Verify time and date Reenter if necessary	OLD: 3 1 1 0 5 0 1 : 1 4 4 5 NEW:WMMDDYY:HHMM
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **Follows software version release date**

Related Items: **None**

MMC: 506 TONE CADENCE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Sets and changes tone cadences on a system-wide basis. There are 14 tones available, as listed below. Tones can be set to 'interrupt' or 'continuous', and interrupt tone cadences can be customised. Some systems may require default settings to comply with local operating companies.

FEATURE KEYS

DIAL 0	INTERRUPT TONE
DIAL 1	CONTINUOUS TONE

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

TONES

BUSY TONE	Busy tone
CONFM/BARGE	Confirm tone and Barge-in tone
DIAL TONE	Dial tone
DND/NO MORE	DND tone and No More Call key tone
ERROR TONE	Error tone
HOLD/CAMPON	Hold tone and Camp-on tone
MSGWAT TONE	Message waiting tone
RGBACK TONE	Ringback tone
RING TONE	Ring over page tone (to external page port)
TRSFER TONE	Transfer dial tone
DID RNGBACK	AC15 ringback tone (not 408 systems)
CO BUSY	CO Busy tone
CO RINGBACK	CO Ringback tone
CO DIAL	CO Dial tone

ACTION

1. Open programming and select **506**
   Display shows

2. Press UP or DOWN key to select tone (e.g. TRSFER) and press RIGHT soft key

3. Dial 0 for INTERRUPT tone or 1 for CONTINUOUS tone
   OR
   Press UP or DOWN key to select and press RIGHT soft key

DISPLAY

```
BUSY TONE
INTERRUPT TONE
```

```
TRSFER TONE
INTERRUPT TONE
```

4. If you selected INTERRUPT tone, dial in new value(s) for interrupt times (must be four digits each – sequence on/off/on/off)
   Press RIGHT soft key to advance cursor
   Press LEFT soft key to retreat cursor
   If valid entry, system returns to step 2

```
TRSFER TONE : 0100
0100  0100  0100
```

5. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data:

Tone	On	Off	On	Off
BUSY TONE	350	350	350	350
CONFIRM/BARGE-IN TONE	50	50	50	50
DIAL TONE		CONTINUOUS		
DND/NO MORE TONE	250	250	250	250
ERROR TONE	100	100	100	100
HOLD/CAMP-ON TONE	500	3500	500	3500
MESSAGE WAIT TONE		CONTINUOUS		
RING BACK TONE	400	200	400	2000
RING TONE	1000	3000	1000	3000
TRANSFER TONE	100	100	100	100
DID RINGBACK	1000	3000	1000	3000
CO BUSY	350	350	350	350
CO RINGBACK	400	200	400	2000
CO DIAL	1000	250	1000	250

Note: All times are in milliseconds.

Related Items: **None**

MMC: 507 ASSIGN AUTO NIGHT TIME

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Enters the system into night mode automatically by utilising time and day tables. A NIGHT key is not needed as the system will switch automatically. (However, it is useful to have a dedicated key so the status can be manually changed if necessary.) The start time is the time the system switches from day to night service; the end time is when it switches back from night to day service (e.g., start 1730 WED, end 0800 THUR).

All times are entered in 24-hour clock format (e.g. 1730 is 5.30pm).

FEATURE KEYS

0	SUN	4	THU
1	MON	5	FRI
2	TUE	6	SAT
3	WED		

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **507** Display shows	NIGHT TIME (SUN) ST: END:
2. Dial day number (0–6 e.g., 3) OR Press UP or DOWN key to select day and press RIGHT soft key to advance cursor	NIGHT TIME (WED) ST: END:
3. Dial in start time for night (e.g. 1730) If time entered is valid, cursor moves to end time Enter end time (e.g. 0800) If time entered is valid, system returns to step 2	NIGHT TIME (WED) ST:1730 END:0800
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **MMC 722 Station Key Programming**
MMC 723 System Key Programming

MMC: 508 CALL COST

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to set the Call Cost attributes generated by the system during a call. This information can be displayed on the keyphone LCD during a call or as an SMDR record.

Attributes are as follows:

0 UNIT COST PER MP	When the system is installed to receive MP on a C.O. outgoing call. It is used for generating total call cost by multiplying it by the number of pulses. Allows a maximum value of 5000.
1 CALL COST RATE	This generates additional call cost calculated by multiplying this rate by the original call cost. Ranges from 100 to 255.

WARNING

- Changing a value when there is a call in progress may result in an inaccurate call cost.
- This MPD facility requires the Meter Pulse Detection version of the trunk card. It is not available on the standard product.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **508** Display shows	UNIT COST PER MP 0200PENCE→
2. Dial 0 or 1 (e.g. 1) OR Press UP or DOWN key for selection and press RIGHT soft key to move cursor	CALL COST RATE 100% →_
3. Enter new value (e.g. 110 for 110 percent) System returns to step 2	CALL COST RATE 110% →
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **UNIT COST PER MP 200 pence**
CALL COST RATE 100 percent

Related Items: **MMC 110 Station On/Off**
MMC 414 MPD/PRS Signal

MMC: 509 C.O. TONE CADENCE

DCS	✗	CI	✓	CII	✗	816	✗	408i	✗	408	✗

Allows customising of the tone cadence provided from the analogue trunk on a system-wide basis. There are three types of tone available through this MMC. The control of the tone cadence may be changed from interrupt tone to continuous tone. Some DCS systems may require default settings to comply with local operating companies. These tones are mainly used for performing Automatic Redial depending on call progress tones on request from internal users on a trunk call.

Once busy tone is detected from the Central Office, the call is automatically released and is queued for redial after expiration of the Auto Redial Interval timer (see MMC 501).

FEATURE KEYS

DIAL 0	INTERRUPT TONE
DIAL 1	CONTINUOUS TONE

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

TONES

BUSY TONE
RINGBACK TONE
DIAL TONE

ACTION	**DISPLAY**
1. Open programming and select **509** Display shows	CO BUSY TONE INTERRUPT TONE
2. Press UP or DOWN key to select tone Press LEFT soft key and advance to step 3	CO RGBACK TONE CONTINUOUS TONE
3. Dial 0 for INTERRUPT tone or 1 for CONTINUOUS tone OR Press UP or DOWN key to select and press RIGHT soft key	CO RGBACK TONE INTERRUPT TONE
4. If you selected INTERRUPT tone, dial in new value(s) for interrupt times (must be four digits each – sequence on/off/on/off) Press RIGHT soft key to advance cursor Press LEFT soft key to retreat cursor If valid entry, system returns to step 2	CO RGBACK T : 0400 0200 0400 0200

5. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data:

Tone	On	Off	On	Off
BUSY TONE	350	350	350	350
DIAL TONE	1000	250	1000	250
RINGBACK TONE	400	200	400	200

Note: All times are in milliseconds

Related Items: **None**

MMC: 510 SLI RING CADENCE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Used to set ring cadence for SLI ports. Options are:

1 Station ring
2 Trunk ring
3 Door ring
4 Alarm ring
5 Callback ring

Cadence values are displayed in the sequence: on / off / on / off. ***Contact Technical Support for advice before changing any of these values.***

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **510** Display shows	1: STN RING : 1000 3000 1000 3000
2. Dial option 1–5 (e.g. 2) OR Press UP or DOWN key to select and press RIGHT soft key	2: TRK RING : 0400 0200 0400 3000
3. Enter new value(s) for cadence (4 digits per value) as required	2: TRK RING : 0400 0200 0400 2000
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:

	On	Off	On	Off
1=	1000	3000	1000	3000
2=	0400	0200	0400	3000
3=	0400	0100	0400	2000
4=	0200	0200	0200	2000
5=	0200	0200	0200	4000

Related Items: **None**

MMC: 511 MW LAMP CAD (Cadence)

DCS	✓	CI	✗	CII	✓	816	✗	408i	✗	408	✗

Sets the cadence for the message waiting LED on single line telephones, for systems which have a message waiting card installed.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION

1. Open programming and select **511**
   Display shows

2. Enter value for ON followed by value for OFF
   (enter all four digits)

3. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

DISPLAY

```
MW LAMP CADENCE
ON: 1000     OFF:1000
```

```
MW LAMP CADENCE
ON: 2000     OFF:2000
```

Default Data: **ON 1000 (msec)**
OFF 1000 (msec)

Related Items: **None**

MMC: 512 ASSIGN HOLIDAY

DCS	✓	CI	✗	CII	✓	816	✓	408i	✓	408	✓

Assigns holiday dates to a station for the current year. Station will remain in Night Service for those periods assigned. Up to 60 dates may be entered.

Date format: MMDD (Month/Day, e.g. 25th December would be "1225").

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION **DISPLAY**

1. Open programming and select **512**
   Display shows

   ASSIGN HOLIDAY
   01:

2. Press UP or DOWN key to select option 01–60 and press RIGHT soft key

   ASSIGN HOLIDAY
   01: _

3. Enter date in format MMDD

   ASSIGN HOLIDAY
   01: 1225

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **None**

Related Items: **None**

MMC: 600 ASSIGN OPERATOR GROUP

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Used to assign the operator group for day and night.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION **DISPLAY**

1. Open programming and select **600**
   Display shows

   OPERATOR GROUP
   D: 500 N: 500

2. Dial day operator group (e.g. 501)
   OR
   Press UP or DOWN key to select and press RIGHT soft key

   OPERATOR GROUP
   D: 501 N: 500

3. Dial night operator group (e.g. 501)
   OR
   Press UP or DOWN key to select and press RIGHT soft key

   OPERATOR GROUP
   D: 501 N: 501

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **Day=500 (50 for 408/408i)**
Night=500 (50 for 408/408i)

Related Items: **MMC 211 Door Ring Assignment**
MMC 406 Trunk Ring Assignment
MMC 601 Assign Station Group
MMC 602 Station Group Name

MMC: 601 ASSIGN STATION GROUP

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Assigns stations to groups. This provides more flexibility, for example, if using Uniform Call Distribution (UCD/ACD), AA GROUP and VM/AA applications. A station, common bell, and ring page can be in more than one group, but must all be the same ring type. The maximum members per group for each system is:

DCS	816	Compact I/Compact II	408/408i
48	16	30	8

Note: A device for announcement, if used, must provide a hookflash and return the call to the group.

UCD GROUPS

Maximum number of UCD groups that can be programmed is as follows.
DCS:10, created from last 10 station groups (520–529)
Compact I—10, created from any station group (501–529)
Compact II – 5, created from the last 10 station groups (510–519)
816 – 3, created from the last 3 station groups (507–509)

GROUP TYPES

0	NORMAL GROUP	
1	VMAA GROUP*	Can only have distribute or sequential ringing
2	UCD GROUP*	Has wrap-up capability
3	AA GROUP*	Can only have distribute or sequential ringing
4	CADENCE*	Can only have distribute or sequential ringing

(* Options not available on 408/408i systems)

Other possible entries for **DCS** systems only are:

3801–3820 COM. BELL	This device is a common bell relay on a Trunk A card.
3601–3640 RING PAGE	This device is ring over an external page zone output of a Trunk A card.

FEATURE KEY

0	TYPE	Group type (Normal, VM/AA, UCD, AA)
1	RING	Ring mode (see *Ring Modes*, below)
2	OVERFLOW	Overflow time
3	GRP TRSF	Group transfer time
4	NEXT PORT	Overflow port
5	MEMBER	Group member (e.g., station 202)

RING MODES

0	SEQUENTIAL	The first idle station listed in the group will ring. If the first is busy, the next idle station will ring.
1	DISTRIBUTE	The first call will ring the first station listed in the group. The next call will ring the next station listed in the group.

2	UNCONDITION	All the stations listed in the group will ring. (Busy stations will receive off-hook ring, if set in MMC 300.) *The maximum number of stations allowed to ring unconditionally for a group is: DCS= 32, Compact II=10, 816=16, 408/408i=8.*

Note: When a group is called, or a caller is transferred to a group, ringback is sent to the caller. A busy signal will not be returned even if all group members are busy. Calls to a group do not follow the call forwarding instructions of any stations in the group.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **601** Display shows	[501] STN GROUP TYPE:NORMAL GRP
2. Dial group number (e.g., 505) OR Press UP or DOWN key to select group and press LEFT soft key to move cursor to type of group	[505] STN GROUP TYPE:NORMAL GRP
3. Dial group type 0–4 (e.g., 1) OR Press UP or DOWN key to make selection and press LEFT soft key to move cursor to 'TYPE'	[505] STN GROUP TYPE:VMAA
3. Dial feature option number (0–5, e.g., 1) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	[505] STN GROUP RING:SEQUENTIAL
4. Dial ring option (0–2, e.g., 1) OR Press UP or DOWN key to make selection and press LEFT soft key to move cursor back to RING or press RIGHT soft key to return to step 2	[505] STN GROUP RING:DISTRIBUTE
5. Dial next feature option and continue OR Press UP or DOWN key to select option OR Press LEFT soft key to return to step 2	[505] STN GROUP RING:DISTRIBUTE
6. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:	**Group Type:**	**Normal**	**Grp Trsf:**	**000 Sec**
	Ring Mode:	**Uncondition**	**Next Port:**	**None**
	Overflow:	**000 Sec**	**Grp Member:**	**01: (first station)**

Related Items:

MMC 203 Assign UA Device
MMC 204 Common Bell Control
MMC 211 Door Ring Assignment
MMC 212 Alarm Ringing Station
MMC 406 Trunk Ring Assignment
MMC 602 Station Group Name

MMC: 602 STATION GROUP NAME

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system installer or administrator to enter a name, up to 11 characters, to identify an individual station group. Names are written using the keypad. Pressing a key selects a character and moves the cursor to the next position. For example, if the name is “SAMSUNG," press the number “7” four times to get the letter “S.” Now press the number “2” once to get the letter “A.” Continue selecting characters from the keypad to complete the name. Press the programmable ”A” key to toggle between upper and lower case text.

Tip: When the character you want is on the same key as the previous character you typed in, press the UP key to move the cursor to the right, then select the character.

The # key can be used for the following special characters (in sequence of key presses):

#	space	&	!	:	?	.	,	%	$	-	<	>	/	=
[	]	@	^	(	)	_	+	{	}	|	;	"	→	`

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
“A”	Key #19 (24B keyset) or key #7 (12B keyset) or key #1 (6B keyset) toggles upper case and lower case text.

ACTION **DISPLAY**

1. Open programming and select **602**
   Display shows

   [501] SGR NAME

2. Dial group number (e.g., 505)
   OR
   Press UP or DOWN key to make selection and press LEFT or RIGHT soft key to move cursor

   [505] SGR NAME
   _

3. Enter the name using method described above

   [505] SGR NAME
   SAMSUNG

4. Press LEFT or RIGHT soft key to return to step 2
   OR
   Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **None**

Related Items: **MMC 104 Station Name**
MMC 404 Trunk Name
MMC 600 Assign Operator Group
MMC 601 Assign Station Group

MMC: 603 ASSIGN TRUNK GROUP

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the assignment of trunks to a specific trunk group or to several trunk groups. This is very useful for programming of LCR when more than one trunk is to be in several dialling plans. There are two different modes of operation: (1) sequential and (2) distribute.

WARNING: One trunk can appear in more than one trunk group. If necessary, delete the trunk member from other groups to prevent accidental access.

The number of trunk groups is:
DCS and Compact II — 11: valid groups are 9 and 80–89.
816 — Four: valid groups are 9 and 80–82.
408/408i — Two: valid groups are 9 and 8.

Valid number of members of trunk groups are:

DCS:	01–80
Compact I:	01–10
Compact II:	01–40
816:	01–10
408/408i:	1–4

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	**DISPLAY**
1. Open programming and select **603** Display shows (e.g. trunk group 9)	[9] TRK GROUP MODE:SEQUENTIAL
2. Enter in valid trunk group (see above)(e.g. 81) OR Press UP or DOWN key to make selection and press RIGHT soft key to advance cursor	[81] TRK GROUP MODE:SEQUENTIAL
3. Press RIGHT soft key to change mode OR Press UP or DOWN key to change mode to member	[81] TRK GROUP MEMBER 01:NONE
4. Press RIGHT soft key to move cursor to number of member and enter valid member number (e.g. 04) via dial keypad OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	[81] TRK GROUP MEMBER 04:NONE

5. Enter valid trunk number (e.g., 729)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to return to step 2

[81] TRK GROUP
MEMBER 01:729

6. Repeat steps 1–5 to remove trunk from group 9 (or group 0) if necessary

7. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **MODE=SEQUENTIAL**
All trunks are in group 9 and/or 80 (group 9 only for 408/408i)

Related Items: **LCR programming**
Tenant programming (DCS only)

MMC: 604 ASSIGN STATION TO PAGE ZONE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the assignment of a keyset to any of the internal paging zones 1 to 4 and All page (page plus ∗). The total number of keysets that can receive a page is limited to 80 (DCS) or 40 (Compact II) or 12 (816) or 4 (408/408i). A keyset may be assigned to more than one zone.

The assignment is controlled by the use of class marks. If a keyset is flagged as "1" in a zone column, it will receive pages for that zone. If the keyset is flagged as "0," it will not receive pages for that zone. Keysets can receive pages for more than one zone.

Note: 408/408i systems are assigned internal page zones 1–2 only. Therefore, only these zones can be flagged as "1". Zones 3 and 4 are flagged as "0."

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear entry

ACTION **DISPLAY**

1. Open programming and select **604**
   Display shows

   ENTRY:STN :1234∗
   01:NONE:00001

2. Enter index number (01–80 or 01–40 or 01–12 or 1–4 depending on your system–see above) via keypad (e.g., 04)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to move cursor

   ENTRY:STN :1234∗
   04:NONE:00001

3. Enter station number (e.g., 205) via dial keypad
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to move cursor

   ENTRY:STN :1234∗
   04:205 :00001

4. Move cursor under page zone desired (e.g. 2) by pressing UP or DOWN key and enter the digit 1 under the zone
   Press RIGHT soft key to return to step 2 to continue with entries

   ENTRY:STN :1234∗
   04:205 :01001

5. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **No stations assigned**
All zone is set (∗)

Related Items: **None**

MMC: 605 ASSIGN EXTERNAL PAGE ZONE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Determines which relays will close when one of the external page zones 5 to 8 is accessed. (816 and 408i/408 systems have only one external page zone—see below.)

DCS–The system must be equipped with a Trunk A card to allow external paging. Each Trunk A card is equipped with two external page relays. The page relays have default DNs of 360X (e.g. 3601)

Compact II–One external page zone is located on the base board. Three are located on the optional MISC card. The page relays have default DNs of 36x (e.g. 361)

816/408i/408–One external page zone (zone 5) is located on the base board. The page relay has a default DN of 361. The optional port is 362 (see MMC 219).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **605** Display shows first page zone (Note: Member number shows as 1 or 01 etc, depending on system)	EXT. PAGE ZONE:(5) MEMBER 1:NONE
2. Dial page zone number (e.g., 6) OR Use UP or DOWN to select desired page zone numbers and press RIGHT soft key to move the cursor	EXT. PAGE ZONE:(6) MEMBER 1:NONE
3. Dial member number (e.g., 3 or 03) OR Use UP or DOWN to select member numbers and press RIGHT soft key to move the cursor OR Press LEFT soft key to return to step 2	EXT. PAGE ZONE:(6) MEMBER 3:NONE
4. Dial relay number via dial keypad (e.g., 362 or 3602) and press RIGHT soft key to return to step 2 OR Press LEFT soft key to return to step 3	EXT. PAGE ZONE:(6) MEMBER 3:362
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **MMC 219 Common Relay Service Type**

MMC: 606 ASSIGN SPEED BLOCK

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Provides a means of adding/deleting speed dial blocks to/from the system or individual keysets. With the ability to delete a block or blocks of speed dial, these need not be wasted on such items as voice mail, SIMs and DPIMs, or on stations that do not require the ability to use speed dialling.

The 'Free List' shows how many blocks are left to be assigned. One block has 10 entries. The number of blocks you can assign to system speed dials will depend on the maximum allowed per system.

DCS has a maximum of 1500 entries in a system: a maximum of 500 (50 blocks) can be assigned as system speed dials, and the rest (100 blocks) can be allocated as personal speed dials with a maximum of 5 blocks per station.

Compact I has a maximum of 500 entries in a system (50 blocks): all of these can be allocated to system speed dials or they can be used as personal numbers with a maximum of 5 blocks per station.

Compact II has a maximum of 600 entries in a system: a maximum of 500 (50 blocks) can be assigned as system speed dials, and the rest (10 blocks) can be allocated as personal numbers with a maximum of 5 blocks per station.

816 has a maximum of 500 entries in a system: a maximum of 300 (30 blocks) for system speed dials while the rest (20 blocks) can be allocated as personal numbers with a maximum of 5 blocks per station.

408/408i has a maximum of 300 entries in a system: a maximum of 200 (20 blocks) for system speed dials while the rest (10 blocks) can be allocated as personal numbers with a maximum of 50 per–station.

The options you can select are:

SYSTEM (to set system speed dials)

EXT (to set individual extension speed dials)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear entry
TRSF	To exit programming

ACTION	DISPLAY
1. Open programming and select **606** Display shows (for example)	FREE LIST:60 SYSTEM:20
2. Press RIGHT soft key to advance cursor to next line	FREE LIST:60 SYSTEM:20
3. Press UP or DOWN key to select SYSTEM or EXT (extension) If you select EXT, go to step 4 If you select SYSTEM, press RIGHT soft key and enter valid number of blocks to assign OR Press UP or DOWN key to select and press RIGHT soft key OR Press HOLD to delete block(s) System returns to this step to make another selection (If finished go to step 6)	FREE LIST:60 SYSTEM:20
4. Enter desired EXT (extension) number via dial keypad (e.g., 205) OR Press UP or DOWN key to make selection and press RIGHT soft key to advance cursor	FREE LIST:60 EXT205:1
5. Enter valid number for blocks (0–5) OR Press UP or DOWN key to make selection OR Press HOLD key to delete block(s)	FREE LIST:60 EXT205:5
6. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **System: 200 entries/20 blocks (100 entries/10 blocks for 408/408i)**
Stations: One block of 10 entries

Related Items: **MMC 705 Assign System Speed Dial**
MMC 706 System Speed Dial By Name

MMC: 607 UCD OPTIONS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✗	408	✗

Allows the UCD group assigned in MMC 601 to have more specific values for several attributes.

If UCD GROUP has not been programmed in the system, you may be presented with a warning and not allowed to enter this MMC.

OPTION

DIAL 0 FIRST MSG – first message on AA card when no agents are available to answer calls.

DIAL 1 SECOND MSG – second message on AA card when no agents are available to answer calls.

DIAL 2 EXIT CODE – routes the queued call to the Final Destination assigned in this MMC (see below). This must be dialled while 1st or 2nd MSG is active.

DIAL 3 RETRY COUNT – second message will be cycled with MOH until this counter value is reached.

DIAL 4 FINAL DESTINATION - if the call is not answered by the time RETRY COUNT time is reached, it will be routed over this destination. If you press the “A” key (#19 on 24B keyset, #7 on 12B keyset, or #1 on 6B keyset) you can enter an AA Plan number.

DIAL 5 RING NEXT – specifies how long ringing at an agent will last. After this time, ringing stops, the agent is logged-out from the group and ringing starts at the next idle agent.

DIAL 6 UCD RECALL – determines length of MOH between MSGs.

DIAL 7 MOH SOURCE – specifies MOH source to be presented to the caller.

DIAL 8 WRAP-UP – no calls are presented during this period.

DIAL 9 AUTO LOGOUT – disables the auto logout option when the RING NEXT timer is set.

RANGE

FIRST MSG:	01 - 64
SECOND MSG:	01 - 64
EXIT CODE:	NONE, 0–9, *, #
RETRY COUNT:	00 - 99
FINAL DESTINATION :	NONE, STATION, STATION GRP, AA PLAN NO (01 - 12)
RING NEXT:	00 – 99 sec
UCD RECALL:	00 - 99 sec
MOH SOURCE:	TONE, NONE, Port No.
WRAP–UP:	000 – 250 sec
AUTO LOGOUT:	YES/NO

ACTION	DISPLAY
1. Open programming and select **607** Display shows	[501]UCD GROUP FIRST MSG : 61
2. Dial UCD group number (e.g. 502) OR Press UP or DOWN key to select number Press RIGHT soft key	[502]UCD GROUP FIRST MSG : 61
3. Dial option number from above list (e.g. 1) OR Press UP or DOWN key to select option Press RIGHT soft key	[502]UCD GROUP SECOND MSG : 62
4. Enter new value using dial keypad (e.g. 01) OR Press UP or DOWN key to select value Press RIGHT soft key	[502]UCD GROUP SECOND MSG : 01
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:

FIRST MSG:	**61**
SECOND MSG:	**62**
EXIT CODE:	**None**
RETRY COUNT:	**03**
FINAL DEST:	**500**
RING NEXT:	**30 sec**
UCD RECALL:	**10 sec**
MOH SOURCE:	**Tone**
WRAP–UP:	**10 sec**
AUTO LOGOUT:	**No**

Related Items: **MMC 601 Assign Station Group**

MMC: 608 ASSIGN CLIP REVIEW BLOCK

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✗

Provides a means of adding or deleting CLIP review blocks (or 'bins') to an individual keyset. With the ability to delete a block (or blocks), it will not be necessary to waste these on such items as voice mail and DPIMs, or on keysets that do not have displays. The FREE value displayed shows how many blocks are left to be assigned. The system automatically assigns 1 block of 10 numbers to each keyset. Each keyset may be assigned a maximum of 5 blocks (50 numbers).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **608** Display shows	[201] REVIEW BLK 10 : 0180 FREE
2. Dial station number (e.g., 205) OR Use UP and DOWN to select station and press RIGHT soft key to move cursor	[205] REVIEW BLK 10 : 0180 FREE
3. Enter number of entries (e.g., 50) OR Press UP or DOWN to select OR Press HOLD key to delete bin(s)	[205] REVIEW BLK 50 : 0140 FREE
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **One block of 10 entries**

Related Items: **None**

MMC: 700 COPY COS CONTENTS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows you to copy a selected class of service (COS) to another COS. This is useful, for example, if you want to create a similar COS to that being copied but want to change a few selected options within that COS. This MMC allows you to enter MMC 701, *Assign COS Contents*, in order to make any changes you require. If you want to create a completely new COS, use MMC 701.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
"F"	Key #24 (24B keyset) or key #12 (12B keyset) or key #6 (6B keyset) is used to advance to MMC 701

ACTION	**DISPLAY**
1. Open programming and select **700** Display shows	COPY COS ITEMS COS 01→COS 01
2. Dial selected COS to copy (e.g., 05) OR Press UP or DOWN key to select COS and press RIGHT soft key to move cursor and advance to next step	COPY COS ITEMS COS 05→COS 01
3. Dial target COS (e.g., 06) OR Press UP or DOWN key to select COS and press RIGHT soft key to move cursor back to step 2	COPY COS ITEMS COS 05→COS 06
4. To make changes to COS options, press "F" key to advance to MMC 701 (Assign COS Contents) OR Go to step 5 if no changes are required	COS CONTENTS(06) TOLL LEVEL:A
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **MMC 701 Assign COS Contents**

MMC: 701 ASSIGN COS CONTENTS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

MMC 701 is used to create a new class of service (COS). If you want to make a copy of an existing COS, use MMC 700. If an 'unsupervised conference' feature is allowed, a programmed CONF key must be available to allow reentry into a conference call.

For an overview of toll restriction (call barring), refer to Part 3 of this manual ("Special Applications").

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

TOLL LEVEL OPTIONS

DIAL DIGIT	TOLL LEVEL
0	A
1	B
2	C
3	D
4	E
5	F
6	G
7	H

ACTION	DISPLAY
1. Open programming and select **701** Display shows	COS CONTENTS(01) TOLL LEVEL:A
2. Dial COS (e.g., 06) OR Press UP or DOWN key to select COS and press RIGHT soft key to move cursor	COS CONTENTS(06) TOLL LEVEL:A
3. Dial toll level (e.g. 2) OR Press UP or DOWN key to select option	COS CONTENTS(06) TOLL LEVEL:C
4. Press RIGHT soft key to advance to COS options Use tables and data below to set options	COS CONTENTS(06) 000:AA CALER:YES
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

The following COS Feature Lists (1–4) are for DCS, Compact II, 816 and 408/408i systems respectively.

1. DCS : COS FEATURE LIST BY OPTION NUMBER

000	AA CALER	Auto answer control by caller
001	ALM CLR	Alarm sensor ring answer
002	AUTO RDL	Retry on busy
003	CALLBACK	Callback
004	CLIP ABN	CLIP abandoned
005	CLIP INQ	CLIP inquiry for review
006	CLIP INV	CLIP investigate
007	CONFER	Conference
008	DALM CLR	DISA alarm ring clear
009	DAY/NIG.	Change day/night mode
010	DIRECT	Directory dial
012	DND	Do Not Disturb
013	DND OVRD	DND Override
015	DOOR	Door ring answer
016	DSS	Direct station select
017	DTS	Direct trunk select
019	EXT FWD	External call forward
020	FEATURE	Feature key
021	FLASH	Trunk flash
022	FOLLOW ME	Follow Me call forward
023	FORWARD	Call forward
025	GRP I/O	Group in/out
026	HOLD	Hold
027	HOT LINE	Hot line
028	INTERCOM	Intercom call
030	MESSAGE	Message
031	MM PAGE	Meet me page
032	NEW CALL	New call
033	OHVAED	Ohvaed
034	OHVAING	Ohvaing
035	ONEA2	1A2 emulation
036	OPERATOR	Operator
037	OUT TRSF	Outgoing transfer
038	OVERRIDE	Executive Override
039	PAGE 0	Page zone 0 PAGING
040	PAGE 1	Page zone 1 PAGING
041	PAGE 2	Page zone 2 PAGING
042	PAGE 3	Page zone 3 PAGING
043	PAGE 4	Page zone 4 PAGING
044	PAGE 5	Page zone 5 PAGING
045	PAGE 6	Page zone 6 PAGING
046	PAGE 7	Page zone 7 PAGING
047	PAGE 8	Page zone 8 PAGING
048	PAGE 9	Page zone 9 PAGING
049	PAGE *	Page zone *PAGING
050	PICKUP	Call pickup
051	SECURE	Override secure
052	SSPD TOL	System speed dial toll check
053	STN LOCK	Station locking
054	STNGRP 01	Station group 01 calling
055	STNGRP 02	Station group 02 calling
056	STNGRP 03	Station group 03 calling
057	STNGRP 04	Station group 04 calling
058	STNGRP 05	Station group 05 calling
059	STNGRP 06	Station group 06 calling
060	STNGRP 07	Station group 07 calling
061	STNGRP 08	Station group 08 calling
062	STNGRP 09	Station group 09 calling

063	STNGRP 10	Station group 10 calling
064	STNGRP 11	Station group 11 calling
065	STNGRP 12	Station group 12 calling
066	STNGRP 13	Station group 13 calling
067	STNGRP 14	Station group 14 calling
068	STNGRP 15	Station group 15 calling
069	STNGRP 16	Station group 16 calling
070	STNGRP 17	Station group 17 calling
071	STNGRP 18	Station group 18 calling
072	STNGRP 19	Station group 19 calling
073	STNGRP 20	Station group 20 calling
074	STNGRP 21	Station group 21 calling
075	STNGRP 22	Station group 22 calling
076	STNGRP 23	Station group 23 calling
077	STNGRP 24	Station group 24 calling
078	STNGRP 25	Station group 25 calling
079	STNGRP 26	Station group 26 calling
080	STNGRP 27	Station group 27 calling
081	STNGRP 28	Station group 28 calling
082	STNGRP 29	Station group 29 calling
083	STNGRP 30	Station group 30 calling
084	–	Not used
085	SYS SPD	System speed dial
087	TRKGRP01	Trunk group 01 calling
088	TRKGRP02	Trunk group 02 calling
089	TRKGRP03	Trunk group 03 calling
090	TRKGRP04	Trunk group 04 calling
091	TRKGRP05	Trunk group 05 calling
092	TRKGRP06	Trunk group 06 calling
093	TRKGRP07	Trunk group 07 calling
094	TRKGRP08	Trunk group 08 calling
095	TRKGRP09	Trunk group 09 calling
096	TRKGRP10	Trunk group 10 calling
097	TRKGRP11	Trunk group 11 calling
098	UNCO CNF	CO to CO conference
099	VM AREC	Voice mail automatic call record
100	VM AME	Voice mail answering machine emulation
101	VM REC	Voice mail manual call record
102	VM STN01	Voice mail station 01
103	VM STN02	Voice mail station 02
104	VM STN03	Voice mail station 03
105	VM STN04	Voice mail station 04
106	VM STN05	Voice mail station 05
107	VM STN06	Voice mail station 06
108	VM STN07	Voice mail station 07
109	VM STN08	Voice mail station 08
110–111	–	Not used
112	ABSENCE	Absence

2. COMPACT II : COS FEATURE LIST BY OPTION NUMBER

000	AA CALER	Auto answer control by caller
001	ALM CLR	Alarm sensor ring answer
002	AUTO RDL	Retry on busy
003	CALLBACK	Callback
004	CLIP ABN	CLIP abandoned
005	CLIP INQ	CLIP inquiry for review
006	CLIP INV	CLIP investigate
007	CONFER	Conference
008	DALM CLR	DISA alarm ring clear
009	DAY/NIG.	Change day/night mode
010	DIRECT	Directory dial
012	DND	Do Not Disturb

013	DND OVRD	DND Override
015	DOOR	Door ring answer
016	DSS	Direct station select
017	DTS	Direct trunk select
018	–	Not used
019	EXT FWD	External call forward
020	FEATURE	Feature key
021	FLASH	Trunk flash
022	FOLLOW ME	Follow Me call forward
023	FORWARD	Call forward
024	–	Not used
025	GRP I/O	Group in/out
026	HOLD	Hold
027	HOT LINE	Hot line
028	INTERCOM	Intercom call
030	MESSAGE	Message
031	MM PAGE	Meet me page
032	NEW CALL	New call
033	OHVAED	OHVAed
034	OHVAING	OHVAing
035	ONEA2	1A2 emulation
036	OPERATOR	Operator
037	OUT TRSF	Outgoing transfer
038	OVERRIDE	Executive Override
039	PAGE 0	Page zone 0 PAGING
040	PAGE 1	Page zone 1 PAGING
041	PAGE 2	Page zone 2 PAGING
042	PAGE 3	Page zone 3 PAGING
043	PAGE 4	Page zone 4 PAGING
044	PAGE 5	Page zone 5 PAGING
045	PAGE 6	Page zone 6 PAGING
046	PAGE 7	Page zone 7 PAGING
047	PAGE 8	Page zone 8 PAGING
048	PAGE 9	Page zone 9 PAGING
049	PAGE *	Page zone *PAGING
050	PICKUP	Call pickup
051	SECURE	Override secure
052	SSPD TOL	System speed dial toll check
053	STN LOCK	Station locking
054	STNGRP 01	Station group 01 calling
055	STNGRP 02	Station group 02 calling
056	STNGRP 03	Station group 03 calling
057	STNGRP 04	Station group 04 calling
058	STNGRP 05	Station group 05 calling
059	STNGRP 06	Station group 06 calling
060	STNGRP 07	Station group 07 calling
061	STNGRP 08	Station group 08 calling
062	STNGRP 09	Station group 09 calling
063	STNGRP 10	Station group 10 calling
064	STNGRP 11	Station group 11 calling
065	STNGRP 12	Station group 12 calling
066	STNGRP 13	Station group 13 calling
067	STNGRP 14	Station group 14 calling
068	STNGRP 15	Station group 15 calling
069	STNGRP 16	Station group 16 calling
070	STNGRP 17	Station group 17 calling
071	STNGRP 18	Station group 18 calling
072	STNGRP 19	Station group 19 calling
073	STNGRP 20	Station group 20 calling
074–084	–	Not used
085	SYS SPD	System speed dial
086	–	Not used
087	TRKGRP01	Trunk group 01 calling
088	TRKGRP02	Trunk group 02 calling

089	TRKGRP03	Trunk group 03 calling
090	TRKGRP04	Trunk group 04 calling
091	TRKGRP05	Trunk group 05 calling
092	TRKGRP06	Trunk group 06 calling
093	TRKGRP07	Trunk group 07 calling
094	TRKGRP08	Trunk group 08 calling
095	TRKGRP09	Trunk group 09 calling
096	TRKGRP10	Trunk group 10 calling
097	TRKGRP11	Trunk group 11 calling
098	UNCO CNF	CO to CO conference
099	VM AREC	Voice mail automatic call record
100	VM AME	Voice mail answering machine emulation
101	VM REC	Voice mail manual call record
102	VM STN01	Voice mail station 01
103	VM STN02	Voice mail station 02
104	VM STN03	Voice mail station 03
105	VM STN04	Voice mail station 04
106	VM STN05	Voice mail station 05
107	VM STN06	Voice mail station 06
108	VM STN07	Voice mail station 07
109	VM STN08	Voice mail station 08
110–111	–	Not used
112	ABSENCE	Absence

3. 816 : COS FEATURE LIST BY OPTION NUMBER

000	AA CALER	Auto answer control by caller
001	ALM CLR	Alarm sensor ring answer
002	AUTO RDL	Retry on busy
003	CALLBACK	Callback
004	CLIP ABN	CLIP abandoned
005	CLIP INQ	CLIP inquiry for review
006	CLIP INV	CLIP investigate
007	CONFER	Conference
008	DALM CLR	DISA alarm ring clear
009	DAY/NIG.	Change day/night mode
010	DIRECT	Directory dial
012	DND	Do Not Disturb
013	DND OVRD	DND Override
015	DOOR	Door ring answer
016	DSS	Direct station select
017	DTS	Direct trunk select
018	–	Not used
019	EXT FWD	External call forward
020	FEATURE	Feature key
021	FLASH	Trunk flash
022	FOLLOW ME	Follow Me call forward
023	FORWARD	Call forward
024	–	Not used
025	GRP I/O	Group in/out
026	HOLD	Hold
027	HOT LINE	Hot line
028	INTERCOM	Intercom call
029	MESSAGE	Message
030	MM PAGE	Meet me page
031	NEW CALL	New call
032	OHVAED	OHVAed
033	OHVAING	OHVAing
034	ONEA2	1A2 emulation
035	OPERATOR	Operator
036	OUT TRSF	Outgoing transfer
037	OVERRIDE	Executive Override
038	PAGE 0	Page zone 0 PAGING

039	PAGE 1	Page zone 1 PAGING
040	PAGE 2	Page zone 2 PAGING
041	PAGE 3	Page zone 3 PAGING
042	PAGE 4	Page zone 4 PAGING
043	PAGE 5	Page zone 5 PAGING
044–047	–	Not used
048	PAGE ✻	Page zone ✻PAGING
049	PICKUP	Call pickup
050	SECURE	Override secure
051	SSPD TOL	System speed dial toll check
052	STN LOCK	Station locking
053	STNGRP 01	Station group 01 calling
054	STNGRP 02	Station group 02 calling
055	STNGRP 03	Station group 03 calling
056	STNGRP 04	Station group 04 calling
057	STNGRP 05	Station group 05 calling
058	STNGRP 06	Station group 06 calling
059	STNGRP 07	Station group 07 calling
060	STNGRP 08	Station group 08 calling
061	STNGRP 09	Station group 09 calling
062	STNGRP 10	Station group 10 calling
063–083	–	Not used
084	SYS SPD	System speed dial
085	–	Not used
086	TRKGRP01	Trunk group 01 calling
087	TRKGRP02	Trunk group 02 calling
088	TRKGRP03	Trunk group 03 calling
089	TRKGRP04	Trunk group 04 calling
090–096	–	Not used
097	UNCO CNF	CO to CO conference
098–099	–	Not used
100	ABSENCE	Absence

4. 408/408i : COS FEATURE LIST BY OPTION NUMBER

408i	408		
02	02	AUTO RDL	Retry on busy
03	03	CALLBACK	Callback
04	–	CLIP ABN	CLIP abandoned (408i only)
05	–	CLIP INQ	CLIP inquiry for review (408i only)
06	–	CLIP INV	CLIP investigate (408i only)
07	04	CONFER	Conference
08	05	DALM CLR	DISA alarm ring clear
09	06	DAY/NIG.	Change day/night mode
10	07	DIRECT	Directory dial
12	09	DND	Do Not Disturb
13	10	DND OVRD	DND Override
15	12	DOOR	Door ring answer
16	13	DSS	Direct station select
17	14	DTS	Direct trunk select
18	15	EXT FWD	External call forward
19	16	FEATURE	Feature key
20	17	FLASH	Trunk flash
21	18	FOLLOW ME	Follow Me call forward
22	19	FORWARD	Call forward
23	20	GRP I/O	Group in/out
24	21	HOLD	Hold
25	22	HOT LINE	Hot line
26	23	INTERCOM	Intercom call
27	24	MESSAGE	Message
28	25	MM PAGE	Meet me page
29	26	NEW CALL	New call
30	27	OHVAED	OHVAed

408i	408		
31	28	OHVAING	OHVAing
32	29	ONEA2	1A2 emulation
33	30	OPERATOR	Operator
34	31	OUT TRSF	Outgoing transfer
35	32	OVERRIDE	Executive Override
36	33	PAGE 0	Page zone 0 PAGING
37	34	PAGE 1	Page zone 1 PAGING
38	35	PAGE 2	Page zone 2 PAGING
41	–	PAGE 5	Page zone 5 PAGING
42–45	42	–	Not used
46	43	PAGE ✻	Page zone ✻ PAGING
47	44	PICKUP	Call pickup
48	45	SECURE	Override secure
49	46	SSPD TOL	System speed dial toll check
50	47	STN LOCK	Station locking
51	48	STNGRP 01	Station group 01 calling
52	49	STNGRP 02	Station group 02 calling
53	50	STNGRP 03	Station group 03 calling
54	51	STNGRP 04	Station group 04 calling
55–81	52–78	–	Not used
82	79	SYS SPD	System speed dial
83	80	TRKGRP01	Trunk group 01 calling
84	81	TRKGRP02	Trunk group 02 calling
85–93	82–90	–	Not used
94	91	UNCO CNF	CO to CO conference
95	92	ABSENCE	Absence

Default Data: **Toll Level: all COS = A**
Features: OVERRIDE = NO, all others = YES

Related Items: **MMC 700 Copy COS Contents**
MMC 702 Toll Deny Table
MMC 703 Toll Allowance Table
Toll Restriction

MMC: 702 TOLL DENY TABLE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Makes toll restriction (call barring) easy and flexible. There are 500 entries for DCS (001–500), 200 entries for Compact II and 816 (001–200), and 100 entries for 408/408i (001–100) allowed in the Deny Table. Each entry index, up to 12 digits, can be assigned to a class of service. With the use of wild cards (see MMC 704, *Assign Wild Character*), more flexibility can be built into toll restriction. Wild cards can be used repeatedly in the dial string, limited only to what is allowed or denied in MMC 704. There are six toll levels, B to G, that are programmable. Toll level A is set as unrestricted by default and toll level H is set as internal calls only by default.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

WILD CARD KEYS

Key No. (Depends on keyset type)	**Wild Card**
19 (24B) or 7 (12B) or 1 (6B)	X
20 (24B) or 8 (12B) or 2 (6B)	Y
21 (24B) or 9 (12B) or 3 (6B)	Z

ACTION **DISPLAY**

1. Open programming and select **702**
   Display shows

   DENY(001):BCDEFG
   :000000

2. Dial entry number (e.g., 005)
   OR
   Press UP or DOWN key to select index and press RIGHT soft key to move cursor and enter toll pattern via dial pad (e.g., 212)
   OR
   Enter wild card (e.g., 21X) and press RIGHT soft key to move cursor to COS options

   DENY(005):BCDEFG
   :000000

   DENY(005):BCDEFG
   212 :000000

   DENY(005):BCDEFG
   21X :000000

3. Press UP or DOWN key to move cursor along line until under toll class mark (e.g., E)
   Enter a 1 for YES or 0 for NO and press RIGHT soft key to return to step 1
   OR
   Press LEFT soft key to return to step 2

   DENY(001):BCDEFG
   212 :000100

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **All entries are set to 0**

Related Items:
MMC 301 Assign Station COS
MMC 701 Assign COS Contents
MMC 703 Toll Allowance Table
MMC 704 Assign Wild Character

MMC: 703 TOLL ALLOWANCE TABLE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Makes toll restriction (call barring) easy and flexible. There are 500 entries for DCS (001–500), 200 entries for Compact II and 816 (001–200), and 100 entries for 408/408i (001–100) permitted in the Allowance Table. Each entry index, up to 12 digits, can be assigned to a class of service. With the use of wild cards (see MMC 704, *Assign Wild Character*), more flexibility can be built into toll restriction. There are six toll levels, B to G, that are programmable. Toll level A is set as 'unrestricted' by default, and toll level H is set as 'internal calls only' by default.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

WILD CARD KEYS

Key No. (Depends on keyset type)	**Wild Card**
19 (24B) or 7 (12B) or 1 (6B)	X
20 (24B) or 8 (12B) or 2 (6B)	Y
21 (24B) or 9 (12B) or 3 (6B)	Z

ACTION **DISPLAY**

1. Open programming and select **703**
   Display shows

   ALOW(001):BCDEFG
   :000000

2. Dial entry number (e.g., 005)
   OR
   Press UP or DOWN key to select index and press RIGHT soft key to move cursor and enter toll pattern via dial pad (e.g., 212)
   OR
   Enter wild card (e.g., 21X) from above list and press RIGHT soft key to move cursor to COS options.

   ALOW(005):BCDEFG
   :000000

   ALOW(005):BCDEFG
   212 :000000

   ALOW(005):BCDEFG
   21X :000000

3. Press UP or DOWN key to move cursor along line until under toll class mark (e.g., E)
   Enter a 1 for YES or 0 for NO and press RIGHT soft key to return to step 1
   OR
   Press LEFT soft key to return to step 2

   ALOW(001):BCDEFG
   212 :000100

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **All entries are set to 0**

Related Items: **MMC 301 Assign Station COS**
MMC 701 Assign COS Contents
MMC 702 Toll Deny Table
MMC 704 Assign Wild Character

MMC: 704 ASSIGN WILD CHARACTER

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Provides flexibility to toll restriction (call barring) when a specific numbering plan is desired. There are only three entry tables but more than one digit can be assigned per table if needed.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **704** Display shows	:0123456789*# X:111111111111
2. Press UP or DOWN key to select X, Y, or Z and press RIGHT soft key to advance cursor to option line	:0123456789*# X:111111111111
3. Press UP or DOWN key to move cursor to digit(s) desired (0–#, e.g. 5) and enter 1 or 0 as required Press LEFT or RIGHT soft key to return to step 2 to make more selections if required	:0123456789*# X:11111**0**111111
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **All X, Y & Z =1**

Related Items: **MMC 702 Toll Deny Table**
MMC 703 Toll Allowance Table

MMC: 705 ASSIGN SYSTEM SPEED DIAL

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allow you to assign system speed dialling numbers. The number of entries available for programming is 500 (DCS and Compact II), or 300 (816), or 200 (408/408i)—see MMC 606, *Assign Speed Block*. Each speed dial number consists of a trunk or trunk group access code (e.g. 9) followed by a separator (–) and up to 24 digits to be dialled. These dialled digits can be 0–9, ∗ and #. If the system recognises a valid trunk or trunk group access number, it will automatically insert the separator.

System speed dials are numbered as follows:

DCS	500–999
Compact II	500–999
816	500–799
408/408i	500–699

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
“B”	Used to insert a flash code "F"
”C”	Used to insert a pause code "P"
”D”	Used to insert a pulse/tone conversion code "C"
”E”	Used to mask/unmask following digits - shows as "[" or "]"
”F”	Used to toggle to MMC 706 and enter name for speed dial no.

Keys “A” to “F” are keys #19 to #24 on a 24B keyset, or keys #7 to #12 on a 12B keyset, or keys #1 to #6 on a 6B keyset

ACTION	**DISPLAY**
1. Open programming and select **705** Display shows	SYS SPEED DIAL 500:
2. Enter the speed dial required (e.g., 505) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	SYS SPEED DIAL 505:
3. Enter access code (e.g., 9) plus the phone number up to 24 digits (digits will scroll under)	SYS SPEED DIAL 505:9–121223456789
4. Press “F” key to toggle to MMC 706 (step 3) to enter a speed name for this number OR Press RIGHT soft key to return to step 2 to enter another speed dial number	SYS SPEED NAME 505:_

5. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **None**

Related Items: **MMC 606 Assign Speed Block**
MMC 706 System Speed Dial By Name

MMC: 706 SYSTEM SPEED DIAL BY NAME

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows a name, up to 11 characters, to be entered for each system speed dial number you set up. This name enables the number to be located when using the directory dial feature. The directory dial feature allows the display keyset user to select a speed dial number by searching for the name.

Names are written using the keypad. Each key press selects a character and moves the cursor to the next position. For example, if the name is “SAM SMITH”, press the number “7” four times to get the letter “S”. Now press the number “2” once to get the letter “A” Continue selecting characters from the keypad to complete your name. Press the programmable “A” key to toggle between upper and lower case text.

Tip: When the character you want is on the same key as the previous character you typed in, press the UP key to move the cursor to the right, then select the character.

The # key can be used for the following special characters (in sequence of key presses):

#	space	&	!	:	?	.	,	%	$	-	<	>	/	=
[	]	@	^	(	)	_	+	{	}	|	;	"	→	`

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
TRSF	Used to store and exit MMC
“A”	Key #19 (24B keyset), or key #7 (12B keyset), or key #1 (6B keyset) toggles upper and lower case text
”F”	Used to toggle to MMC 705

Keys “A” to “F” are keys #19 to #24 on a 24B keyset, or keys #7 to #12 on a 12B keyset, or keys #1 to #6 on a 6B keyset

ACTION	DISPLAY
1. Open programming and select **706** Display shows	SYS SPEED NAME 500:
2. Dial system speed entry number (e.g., 505) OR Press UP or DOWN to select entry number and press RIGHT soft key to move cursor	SYS SPEED NAME 505:
3. Enter name using dial keypad and press RIGHT soft key to return to step 2	SYS SPEED NAME 505:TELECOMS
OR Press the “F” key to return to MMC 705	SYS SPEED DIAL 505:
OR Press TRSF to store and exit	
OR Press SPEAKER to store and advance to next MMC	

Default Data: **No names**

Related Items: **MMC 606 Assign Speed Block**
MMC 705 Assign System Speed Dial

MMC: 707 AUTHORISATION CODE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows you to set up authorisation codes on a per-class of service basis. Number of available entries is:

DCS: 250 (001–250)
Compact I & II: 100 (001–100)
816: 30 (01–30)
408/408i: 10 (01–10)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION **DISPLAY**

1. Open programming and select **707**
   Display shows

   AUTHOR.CODE(001)
   CODE: COS:01

2. Dial code entry number (see above) including any leading zeros (e.g., 05 or 005)
   OR
   Press UP or DOWN key to selected index number and press RIGHT soft key to move cursor

   AUTHOR.CODE(005)
   CODE: COS:01

3. Enter authorisation code (maximum four digits) via dial keypad (e.g., 1234) and press RIGHT soft key to move cursor

   AUTHOR.CODE(005)
   CODE:1234 COS:01

4. Enter class of service number 01–30 (e.g., 05)
   OR
   Press UP or DOWN key to select COS and press RIGHT soft key to select and return to step 2

   AUTHOR.CODE(005)
   CODE:1234 COS:05

5. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **None**

Related Items: **MMC 305 Assign Forced Code**

MMC: 708 ACCOUNT CODE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows you to set up account codes. The number of available entries for each system is:

DCS: 500 (001–500)
Compact I: 250 (001–250)
Compact II & 816: 200 (001–200)
408/408i: 100 (001–100)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	DISPLAY
1. Open programming and select **708** Display shows	ACCOUNT CODE 001:
2. Dial code entry number (see above) (e.g., 005) OR Press UP or DOWN key to selected index number and press RIGHT soft key to move cursor	ACCOUNT CODE 005:
3. Enter account code (maximum 12 digits) via dial keypad	ACCOUNT CODE 005:123456789012
4. Press RIGHT soft key to move cursor back to step 2 to Enter another code OR Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **MMC 305 Assign Forced Code**

MMC: 709 PBX ACCESS CODE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Provides a way of identifying the access codes needed to work toll restriction (call barring) when the system is used with either a PBX or CENTREX-supplied dial tone (PBX ACCESS CODE option). Maximum number of entries allowed:

DCS/CII/816: 5
408/408i: 2

Also provides a way of identifying the access codes needed to work toll restriction when operating special C.O.-provided functions (SPECIAL CODE option)—a maximum of 10 entries is allowed

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	DISPLAY
1. Open programming and select **709** Display shows	PBX ACCESS CODE 1:
2. Enter 0 for PBX ACCESS CODE or 1 for SPECIAL CODE OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	PBX ACCESS CODE 1:
3. Enter code index number (e.g., 2) OR Press UP or DOWN key to make selection Press RIGHT soft key to move cursor	PBX ACCESS CODE 2:_
4. Enter via dial keypad the desired access/feature code (max. 4 digits, e.g., 9)	PBX ACCESS CODE 2:9
5. Press RIGHT soft key to return to step 3 and enter another index OR Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **MMC 702 Toll Deny Table**
MMC 703 Toll Allowance Table

MMC: 710 LCR DIGIT TABLE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

The LCR DIGIT TABLE contains all numerical digits for the completion of outgoing call placement. This table works in conjunction with LCR ROUTE TABLE, LCR TIME TABLE and LCR MODIFY DIGITS TABLE. Maximum number of entries is:

DCS & Compact II	816	408 & 408i
500	300	100

Digit string length is 10 numerical digits. This system automatically maintains entered digit strings in numerical order. The characters ∗ and # are also accepted for use with feature codes.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	DISPLAY
1. Open programming and select **710** Display shows	LCR DIGIT (001) DIGIT:
2. Dial LCR entry (see above) (e.g., 005) OR Press UP or DOWN to select entry and press RIGHT soft key to move cursor	LCR DIGIT (005) DIGIT: _
3. Enter LCR digit string via the dial keypad and press RIGHT soft key OR Press LEFT soft key to return to step 1	LCR DIGIT (005) DIGIT:305426
4. Enter digit length (00–31) Cursor will move to RT (route selection) Enter RT (1–16) OR Press LEFT soft key to return to length value Valid entry will return you to step 1	LCR DIGIT (005) LENGTH:10 RT:01
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **Depends on software version**

Related Items:
MMC 210 Customer On/Off
MMC 400 Customer On/Off Per Trunk
MMC 711 LCR Time Table
MMC 712 LCR Route Table
MMC 713 LCR Modify Digit Table

MMC: 711 LCR TIME TABLE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

This table gives flexibility to the system, through the LCR ROUTES, to allow calls placed at any given time of day to use the least cost trunk route that is available. When LCR ROUTE ADVANCE is allowed, it is possible for calls to be placed on more expensive trunks on any given time of day. There are four possible time entries per day; the start time of the next time period is the end time of the previous time period.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

FEATURE KEYS

DAY	DIAL
SUN	0
MON	1
TUE	2
WED	3
THU	4
FRI	5
SAT	6

TIME BAND	DIAL
A	0
B	1
C	2
D	3

LCRT	DIAL
LCRT	1
LCRT	2
LCRT	3
LCRT	4

ACTION	DISPLAY
1. Open programming and select **711** Display shows	LCR TIME (SUN:A) HHMM: 0000 LCRT:1
2. Dial day of week (SUN–SAT, e.g., WED) OR Press UP or DOWN to make day selection and press RIGHT soft key	LCR TIME (WED:A) HHMM: 0000 LCRT:1
3. Dial time band (A–D, e.g., B) OR Press UP or DOWN to make selection and press RIGHT soft key	LCR TIME (WED:B) HHMM: 0000 LCRT:1
4. Dial time via keypad (24-hour clock format, e.g. 0800) Cursor moves to LCRT	LCR TIME (WED:B) HHMM:0800 LCRT: 1
5. Dial entry 1–4 OR Press UP or DOWN to select entry and press RIGHT soft key	LCR TIME (WED:B) HHMM:0800 LCRT: 2

6. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **Systems can work 24 hours a day and 7 days a week with this default –**

DAY	TIME BAND	TIME	LCRT
SUN	A	0000	1
	B	2359	1
MON	A	0000	1
	B	2359	1
TUE	A	0000	1
	B	2359	1
WED	A	0000	1
	B	2359	1
THU	A	0000	1
	B	2359	1
FRI	A	0000	1
	B	2359	1
SAT	A	0000	1
	B	2359	1

Related Items:
MMC 210 Customer On/Off
MMC 400 Customer On/Off Per Trunk
MMC 710 LCR Digit Table
MMC 712 LCR Route Table
MMC 713 LCR Modify Digit Table

MMC: 712 LCR ROUTE TABLE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

The LCR ROUTE TABLE is responsible for selecting a specific trunk group in the completion of an outgoing call. This table works in conjunction with LCR DIGIT TABLE, LCR TIME TABLE, LCR COS TABLE and LCR MODIFIED DIGITS TABLE. After the user dials a valid digit string, the system uses the LCR ROUTE TABLE to select a specific predetermined trunk group. A maximum of 16 routes are available beginning with ROUTE NUMBER 1. If more than one trunk group is available for call completion, the system uses the first designated trunk group and then starts to utilise succeeding trunk groups. If all trunk groups are busy in a selected route, call queue becomes active and allocates trunks as they become available.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **712** Display shows	LCR ROUTE (01:1) C:1 G:9 M:001
2. Dial LCR ROUTE index number 1–16 (e.g., 05) OR Press UP or DOWN to selected index and press RIGHT soft key to move cursor	LCR ROUTE (05:1) C:1 G:9 M:005
3. Dial TIME BAND index number 1–4 (e.g., 2) OR Press UP or DOWN to selected index and press RIGHT soft key to move cursor	LCR ROUTE (05:2) C:1 G:NONE M:---
4. Dial LCR COS number 1–4 (e.g., 4) OR Press UP or DOWN to selected COS and press RIGHT soft key to move cursor	LCR ROUTE (05:2) C:4 G:NONE M:---
5. Dial TRUNK GROUP access code (e.g., 9) OR Press UP or DOWN to selected access code and press RIGHT soft key to move cursor	LCR ROUTE (05:2) C:4 G:9 M:---
6. Dial MODIFY DIGITS index number 001–100 (e.g., 050) OR Press UP or DOWN to selected index number and press RIGHT soft key to move cursor OR Press RIGHT soft key to leave entry unchanged	LCR ROUTE (05:2) C:4 G:9 M:050 LCR ROUTE (05:2) C:4 G:9 M:---

7. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data:

ROUTE	TIME BAND	COS	TRK GRP	MODIFY TBL INDEX
01–16	1	1	9	001–016

Related Items: **MMC 310 LCR Class Of Service**
MMC 710 LCR Digit Table
MMC 711 LCR Time Table
MMC 713 LCR Modify Digit Table

MMC: 713 LCR MODIFY DIGIT TABLE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Also referred to as Outdial Rules, this enables the system to add or delete a digit string or single digit, if needed, to complete a call (e.g. adding a digit "1"). The characters ∗ and # can also be entered.

Option	**Max No. of Digit Entries**
Number of digits to delete	15
Insert (before dialling string)	14
Append (after dialling string)	14

Digit String Key
Insert String + Digit String (delete) + Append String

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **713** Display shows	LCR MODIFY (001) NOF DEL DGT:00
2. Enter index number (e.g., 005) OR Press UP or DOWN keys to make selection and press RIGHT soft key to move cursor	LCR MODIFY (005) NOF DEL DGT:00
3. Enter number of digits to delete (e.g. 2) OR Press RIGHT soft key to skip step and move cursor to step 4	LCR MODIFY (005) NOF DEL DGT:02
4. Enter digits to be inserted (e.g., 10288) OR Press RIGHT soft key to skip step or to store information and advance to step 5	LCR MODIFY (005) I:10288
5. Enter digits to be appended (e.g., 45678) OR Press RIGHT soft key to skip step or to store information and return to step 2	LCR MODIFY (005) A:45678_
6. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **Depends on software version**

Related Items: **MMC 710 LCR Digit Table**
MMC 711 LCR Time Table
MMC 712 LCR Route Table

MMC: 714 DDI NUMBER AND NAME TRANSLATION

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✗

Provides a method of assigning an incoming DDI call through ISDN to a specific station. If you have specified DDI service with your Network Carrier, you can match each DDI number to specific stations using this command according to the day or night mode. You also have the option, when the destination station is busy, of deciding if the call is to be camped on to the destination station or of clearing the call.

There is an extra option to adjust the number of digits to be compared by skipping the programmed counts from the first digit point provided by the Network. If there is no matching number in DDI NUMBER TABLE, the system routes this call to the operator group.

There is a total of 200 entries (DCS/Compact II systems), 50 entries (816 systems), or 20 entries (408i systems). Each entry consists of the following fields:

0	DIGITS (DGT)	Digits to be received (max. 12 digits). Wild card (*) is a valid entry.
1	DAY DEST (D)	Destination in day mode. Can be a station, a station group, a trunk or trunk group. Repeat (B) will be acceptable to bypass.
2	NIGHT DEST (N)	Destination in day mode. Can be a station, a station group, a trunk or a trunk group. Repeat (B) will be acceptable to bypass.
3	CALL WAIT (CW)	Toggles YES or NO.
4	DELETE	Decides the number of digits not to be translated from the first digit received. This is useful when the received digits are prefixed with the same digit(s).
5	NAME	Gives a name to an individual entry (11 characters maximum).

Names are written using the keypad in the same way as speed dial names (see MMC 706).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	DISPLAY
1. Open programming and select **714** Display shows	DID DIGIT (001) DGT:2**
2. Enter valid entry number (e.g. 005 or 05) via dial keypad OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	DID DIGIT (005) DGT:
3. Enter the DDI number (e.g. 4603831) via dial keypad and press RIGHT soft key to move cursor (Max. digits is 12)	DID DIGIT (005) DGT:4603831
4. Enter day destination via dial keypad (e.g. 204) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	DID DIGIT (005) →D:204 N:B
5. Enter night destination via dial keypad (e.g. 204) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	DID DIGIT (005) →D:204 N:204
6. Enter 1 for YES (call waiting) or 0 for NO (no call waiting) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	DID DIGIT (005) CW: NO DELETE:0
7. Enter digits to be deleted via dial keypad (e.g. 3) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	DID DIGIT (005) CW: NO DELETE:3
8. Enter name using above table and press RIGHT soft key to return to step 2	DID DIGIT (005) NAME:_
9. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:

	001	002	003	004
DIGITS*	2**	3**	5**	7***
DAY DEST	B	B	B	B
NIGHT DEST	B	B	B	B
CALL WAIT	NO	NO	NO	NO
DELETE	0	0	0	0
NAME	NONE	NONE	NONE	NONE

***For 816 systems, default DIGITS are:**

01	02	03
2**	5**	7***

(Other defaults apply.)

For 408i systems, default DIGITS are:

01	02	03
2*	5*	7***

(Other defaults apply.)

Related Items: **MMC 419 BRI Option**
MMC 420 PRI Option
MMC 421 MSN Digit

MMC: 715 PROGRAMMED STATION MESSAGE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows a custom message, up to 16 characters, to be programmed. There are 20 messages allowed in total (01–20). Messages 01–10 are pre-set (see default data) but can be changed by deleting and/or typing in new text. Messages 11–20 are blank by default ("EMPTY MESSAGE" may be displayed if one of these is selected, or the display is blank).

Messages are written via the keypad. Each press of a key selects a character. Pressing a different key moves the cursor to the next position. For example, if the message is "In the Showroom," press key number "4" three times to get the letter "I." Then press key number "6" twice to get the to move the cursor right. Continue selecting characters from the keypad to complete your message. Press the programmable "A" key to toggle between upper and lower case text.

Tip: When the character you want is on the same key as the previous character you typed in, press the UP key to move the cursor to the right, then select the character.

The # key can be used for the following special characters (in sequence of key presses):

#	space	&	!	:	?	.	,	%	$	-	<	>	/	=
[	]	@	^	(	)	_	+	{	}	|	;	"	→	`

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
"A"	Key #19 (24B keysets) or key #7 (12B keysets) or key #1 (6B keysets) toggles upper case and lower case text.

ACTION

1. Open programming and select **715**
   Display shows

   DISPLAY

   PGM.MESSAGE(01)
   IN A MEETING

2. Enter index number (e.g., 11)
   OR
   Press UP or DOWN arrow to make selection and press RIGHT soft key to move cursor

   PGM.MESSAGE(11)
   EMPTY MESSAGE

3. If “EMPTY MESSAGE” is displayed, you can press HOLD to delete this text. However, this Is optional as any new message you type will simply overwrite the displayed text.

   Enter new message via the dial keypad using the above table (maximum 16 characters)

PGM.MESSAGE(11)
In the Showroom

4. Press RIGHT soft key to return to step 2
   OR
   Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **10 programmed messages (these can be changed)**

01. IN A MEETING
02. OUT ON A CALL
03. OUT TO LUNCH
04. LEAVE A MESSAGE
05. PAGE ME
06. OUT OF TOWN
07. IN TOMORROW
08. RETURN AFTERNOON
09. ON VACATION
10. GONE HOME

Messages 11–20 are blank

Related Items: **MMC 115 Set Programmed Message**

MMC: 716 UK LCR OPTION

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Before using this MMC, run MMC 812 to make sure the correct country option ("UK") has been selected.

MMC 716 provides UK LCR options.

0	NETWORK CODE	Provides secondary network access code when the call is routed to the secondary network. 16 entries maximum (each 10 digits maximum in length).
1	PIN CODE	Assigns PIN code used when the call is routed to secondary 131 Cable & Wireless network.
2	CCC OPTION	Selects Call Cost Option and is related only to 131 Cable & Wireless service.
3	STATION PIN NO	Assigns individual users to selected PIN codes in the system.

Note: The second entry may be selected as a primary secondary network. By default, this is 132 (Cable & Wireless Digital Access). If dialled digits are not matched to the entry in the LCR DIGIT TABLE (MMC 710) and start with 0, the network code in the second entry will be dialled out by the system prior to transmitting dialled digits.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **716** Display shows	NETWORK CODE 01:
2. Dial item number (e.g., 1) OR Press UP or DOWN key to make selection and press RIGHT soft key.	PIN CODE 1:
3. Enter index number (e.g., 3) OR Press UP or DOWN key to make selection and press RIGHT soft key OR Press LEFT soft key to return to step 2	PIN CODE 3:
4. Enter the desired access via dial keypad and press RIGHT soft key to enter and return to step 3	PIN CODE 3: *****
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:

NETWORK CODE:	**None**
PIN CODE:	**None**
CCC OPTION:	**None**
STATION PIN NO.:	**All stations are 1**

Related Items:

MMC 710 LCR Digit Table
MMC 711 LCR Time Table
MMC 712 LCR Route Table
MMC 713 LCR Modify Digit Table
MMC 812 Select Country

MMC: 717 PIN CODE

DCS	✗	CI	✓	CII	✗	816	✗	408i	✗	408	✗

Used to assign the PIN code used when a call is routed to the secondary 131 Cable & Wireless network.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **717** Display shows	PIN CODE 1:
2. Enter index number (e.g., 2) OR Press UP or DOWN key to make selection and press RIGHT soft key to move cursor	PIN CODE 2:
3. Enter the desired access code via dial keypad (e.g., 3040506) Press RIGHT soft key to enter and return to step 2 and enter another number	PIN CODE 2:3040506
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **MMC 210 Customer On/Off**
MMC 313 Assign PIN Code
MMC 716 Network Code

MMC: 718 MY AREA CODE

Not Used in the UK

MMC: 720 COPY KEY PROGRAMMING

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

For duplicating key assignments from one keyset to another. This can be done on a per-station basis or on all stations, but not on a group of stations. A limitation is that the original and target keysets must be of the same type, e.g. both 24B keysets or both 12B keysets. A further condition is that a Euro keyset can only be copied to another Euro keyset, and a non-Euro type only to another non-Euro type.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION **DISPLAY**

1. Open programming and select **720**
   Display shows

   [201] COPY KEY
   FROM:NONE

2. Enter the station number to **copy to** (e.g., 205)
   OR
   Press UP or DOWN keys to make selection and press RIGHT soft key to move cursor

   [205] COPY KEY
   FROM:NONE

3. Enter station number to **copy from** (e.g., 203) and cursor returns to step 2
   OR
   Press UP or DOWN keys to make selection

   [205] COPY KEY
   FROM:203

4. Press RIGHT soft key to return to step 2
   OR
   Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **None**

Related Items: **MMC 107 Key Extender**
MMC 721 Save Station Key Programming
MMC 722 Station Key Programming
MMC 723 System Key Programming

MMC: 721 SAVE STATION KEY PROGRAMMING

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Prevents the loss of programmable keys on keysets when testing or replacement is required. First the data is saved and then the station can be replaced with another station type or the keys can be reprogrammed to other features. Once testing or replacement is completed, the data can be restored to the individual station, providing the same keyset type is used.

Options are SAVE and RESTORE.

Note: This program is not to be confused with MMC 315 (Set Relocation). MMC 721 is for saving and restoring the same electronic device type at that port.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **721** Display shows	[201] SAVE KEY RESTORE
2. Enter desired station number (e.g., 205) OR Press UP or DOWN key to make selection and press RIGHT soft key	[205] SAVE KEY RESTORE
3. Press UP or DOWN key to select function (e.g., SAVE)	[205] SAVE KEY SAVE
4. Press RIGHT soft key to enter and return to step 2 OR Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **RESTORE**

Related Items: **MMC 107 Key Extender**
MMC 722 Station Key Programming
MMC 723 System Key Programming

MMC: 722 STATION KEY PROGRAMMING

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Used to customise programmable keys on individual keysets and add-on modules (AOMs). All systems are provided with default functions for some keys to provide basic operation. For example, keys 1 and 2 are set as CALL keys by default because it is recommended that these keys should always function as CALL keys (but see Note, below). Other keys can be programmed as described here. You can use the UP and DOWN keys to scroll through the selectable functions when programming keys (see table at the end of this MMC).

Functions can also be entered via the dial keypad. For example, to assign the OHVA function, key number 6 can be pressed three times. If the BOSS function is required, press 2 twice for the first letter B, and then use the UP or DOWN key to change the selection from BARGE to BOSS.

Note: 408/408i systems do not support AOMs and default key functions are different from other systems. For example, keys 1 and 2 are not set as CALL keys by default as these are not required.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **722** Display shows	[201] KEY (MAST) 01:CALL1 →
OR For **408/408i** systems, display shows (but the programming procedure is the same as follows)	OR [21] KEY PROG 01:DT71 →
2. Enter station number (e.g., 205) OR Press UP or DOWN key to make selection and press RIGHT soft key	[205] KEY (MAST) 01:CALL1 →
3. *If you have a 408/408i system, or if selected station has no AOM pair, go to step 4* Enter 0 for MAST, 1 for AOM1 or 2 for AOM2. OR Press UP or DOWN key to make selection and press RIGHT soft key	[205] KEY (MAST) 01:CALL1 →
4. Enter key number (e.g., 18) OR Press UP or DOWN key to make selection and press RIGHT soft key OR Press programmable key	[205] KEY (MAST) 18:NONE →_

5. Press dial key pad number to make selection
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to advance cursor to step 6 to enter extender, if required, or to return to step 2

```
[205]  KEY  (MAST)
18:NONE →GPIK_
```

6. If required, enter extender (e.g., 03)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to return to step 2

```
[205]  KEY  (MAST)
18:NONE →GPIK03
```

7. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: All systems (except 408/408i)—programmable keys 1 and 2 are set as CALL keys. You are advised not to change these. Defaults for 408/408i systems are shown in the *408/408i Installation Manual.* Each programmable key can be reprogrammed with one of the functions listed below.

Programmable Key Function Assignments
(✗ means a function is not available)

		DCS/CII	816	408	408i
AAPLAY:	AUTO ATTND MESSAGE PLAY	✓	✓	✗	✗
AAREC:	AUTO ATTND MESSAGE RECORD	✓	✓	✗	✗
AB:	ABSENCE	✓	✓	✓	✓
ABAND	ABANDON DATA	✓	✓	✗	✓
ACCT:	ACCOUNT	✓	✓	✓	✓
ALARM:	ALARM RING ANSWER	✓	✓	✗	✗
AN/RLS	ANSWER/RELEASE	✓	✓	✓	✓
BARGE:	BARGE-IN	✓	✓	✓	✓
BLOCK:	OHVA BLOCK	✓	✓	✓	✓
BOSS:	BOSS / SECRETARY	✓	✓	✓	✓
CALL:	CALL BUTTON	✓	✓	✓	✓
CAMP:	STATION CAMP ON	✓	✓	✓	✓
CANMG:	MESSAGE CANCEL	✓	✓	✓	✓
CBK:	CALLBACK	✓	✓	✓	✓
CLIP:	CLIP	✓	✓	✗	✓
CONF:	CONFERENCE	✓	✓	✓	✓
CR:	CALL RECORD	✓	✗	✗	✗
CS:	UCD CALL WAITING STATUS	✓	✓	✗	✗
CSNR:	CLIP SAVE NUMBER REDIAL	✓	✓	✗	✓
DICT:	DICTATION	✓	✓	✓	✓
DIR:	DIRECTORY	✓	✓	✓	✓
DLOCK:	DOOR LOCK	✓	✓	✓	✓
DND:	DO NOT DISTURB	✓	✓	✓	✓
DP:	DIRECT PICK UP	✓	✓	✓	✓
DROP:	TRANSFER CALL DROP	✓	✓	✓	✓
DS:	DIRECT STATION SELECT	✓	✓	✓	✓
DT:	DIRECT TRUNK SELECT	✓	✓	✓	✓
EXTMIC:	EXTERNAL MICROPHONE	✓	✓	✓	✓
FAUTO:	FORCED AUTO ANSWER	✓	✓	✓	✓
FLASH:	FLASH	✓	✓	✓	✓
FWRD:	CALL FORWARD	✓	✓	✓	✓

		DCS/CII	816	408	408i
GPIK:	GROUP PICK UP	✓	✓	✓	✓
HDSET:	HEADSET MODE ON/OFF	✓	✓	✓	✓
HLDPK:	HOLD PICK UP	✓	✓	✓	✓
IG:	IN/OUT OF GROUP	✓	✓	✓	✓
INQIRE:	CLIP INQUIRE	✓	✓	✗	✓
ISPY:	CLIP SPY	✓	✓	✗	✓
LCR:	LEAST COST ROUTING	✓	✓	✓	✓
LISTN:	GROUP LISTENING	✓	✓	✓	✓
LNR:	LAST NUMBER REDIAL	✓	✓	✓	✓
MMPA:	MEET ME PAGE ANSWER	✓	✓	✓	✓
MMPG:	MEET ME PAGE	✓	✓	✓	✓
MSG:	MESSAGE	✓	✓	✓	✓
MUTE:	MUTE	✓	✓	✓	✓
NEW:	NEW CALL	✓	✓	✓	✓
NIGHT:	NIGHT SERVICE	✓	✓	✓	✓
NND:	CLIP NAME/NUMBER/DATE	✓	✓	✗	✓
NXT:	CLIP NEXT	✓	✓	✗	✓
OHVA:	OFF-HOOK VOICE ANNOUNCE	✓	✓	✓	✓
OPER:	OPERATOR	✓	✓	✓	✓
PAGE:	PAGE	✓	✓	✓	✓
PAGPK:	PICKUP PAGE HOLD	✓	✓	✓	✓
PARK:	CALL PARK/RETRIEVE	✓	✓	✓	✓
PAUSE:	PAUSE	✓	✓	✓	✓
PMSG:	PROGRAMMED STATION MESSAGE	✓	✓	✓	✓
REJECT:	OHVA REJECT	✓	✓	✓	✓
RETRY:	AUTO REDIAL ON BUSY	✓	✓	✓	✓
REVW:	REVIEW (CLIP)	✓	✓	✗	✓
SETMG:	SET MESSAGE W/O RING	✓	✓	✓	✓
SG:	STATION GROUP	✓	✓	✓	✓
SNR:	SAVED NUMBER REDIAL	✓	✓	✓	✓
SP:	SUPERVISOR OF UCD	✓	✓	✗	✗
SPD:	SPEED DIAL	✓	✓	✓	✓
SPKR:	SPEAKER	✓	✓	✓	✓
STORE:	STORE (CLIP)	✓	✓	✗	✓
TG:	TRUNK GROUP	✓	✓	✓	✓
TIMER:	TIMER	✓	✓	✓	✓
TRSF:	TRANSFER	✓	✓	✓	✓
UA:	UNIVERSAL ANSWER	✓	✓	✓	✓
VDIAL:	VOICE DIALLER ACCESS	✓	✗	✗	✗
VG:	VOICE MAIL GROUP	✓	✗	✗	✗
VMADM:	VOICE MAIL ADMINISTRATION	✓	✗	✗	✗
VMAME:	VOICE MAIL ANSWERING MACHINE EMULATION	✓	✗	✗	✗
VM:	VOICE MAIL MEMO	✓	✗	✗	✗
VMMSG:	VOICE MAIL MESSAGE	✓	✗	✗	✗
VREC:	RECORD KEY FOR VOICE DIALLER	✓	✗	✗	✗
VT:	VOICE MAIL TRANSFER	✓	✓	✓	✓

Related Items: **MMC 107 Key Extender**

MMC: 723 SYSTEM KEY PROGRAMMING

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

This MMC is similar to MMC 722, *Station Key Programming*. The difference is that MMC 723 programs keys for **all** stations rather than individual stations.

All systems are provided with default functions for some keys to provide basic operation. For example, keys 1 and 2 are set as CALL keys by default because it is recommended that these keys should always function as CALL keys (but see Note, below). Other keys can be programmed as described here. You can use the UP and DOWN keys to scroll through the selectable functions when programming keys (see table at the end of this MMC).

Functions can also be entered via the dial keypad. For example, to assign the OHVA function, key number 6 can be pressed three times. If the BOSS function is required, press 2 twice for the first letter B, and then use the UP or DOWN key to change the selection from BARGE to BOSS.

Note: Default key functions are different for 408/408i systems compared to all other systems. For example, keys 1 and 2 are not set as CALL keys by default as these are not required.

Programming in MMC 723 is also done on the basis of keyset type (12-button, 24-button, etc).

TYPE OF SET

Dial	DCS/CII/816	408/408i
0	24-BTN	24-BTN
1	12-BTN	24-BTN EURO
2	6-BTN	12-BTN
3	–	6-BTN
4	48-BTN AOMS	28-BTN
5	–	18-BTN
6	28-BTN	8-BTN
7	18-BTN	24B SIMPLE
8	8-BTN	

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	DISPLAY
1. Open programming and select **723** Display shows	TYPE:24 BTN SETS 01:CALL1→
OR For **408/408i** systems, display shows (but programming procedure is the same as follows)	OR TYPE:24 BTN SETS 01:DT71 →

2. Enter keyset type via dial keypad, using table above (e.g.,1)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key

   TYPE:12 BTN SETS
   01:CALL1→

3. Enter key number (e.g., 12)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key

   TYPE:12 BTN SETS
   12:DS →

4. Press dial keypad to select function
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to advance cursor to step 5 to enter extender, if required
   OR
   Press LEFT soft key to return to step 3

   TYPE:12 BTN SETS
   12:DS →GPIK

5. If required, enter extender (e.g.,03)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to return to step 2

   TYPE:12 BTN SETS
   12:DS →GPIK03

6. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: See MMC 722.

Programmable Key Function Assignments
(✗ means a function is not available)

		DCS/CII	816	408	408i
AAPLAY:	AUTO ATTND MESSAGE PLAY	✓	✓	✗	✗
AAREC:	AUTO ATTND MESSAGE RECORD	✓	✓	✗	✗
AB:	ABSENCE	✓	✓	✓	✓
ABAND	ABANDON DATA	✓	✓	✗	✓
ACCT:	ACCOUNT	✓	✓	✓	✓
ALARM:	ALARM RING ANSWER	✓	✓	✗	✗
AN/RLS	ANSWER/RELEASE	✓	✓	✓	✓
BARGE:	BARGE-IN	✓	✓	✓	✓
BLOCK:	OHVA BLOCK	✓	✓	✓	✓
BOSS:	BOSS / SECRETARY	✓	✓	✓	✓
CALL:	CALL BUTTON	✓	✓	✓	✓
CAMP:	STATION CAMP ON	✓	✓	✓	✓
CANMG:	MESSAGE CANCEL	✓	✓	✓	✓
CBK:	CALLBACK	✓	✓	✓	✓
CLIP:	CLIP	✓	✓	✗	✓
CONF:	CONFERENCE	✓	✓	✓	✓
CR:	CALL RECORD	✓	✗	✗	✗
CS:	UCD CALL WAITING STATUS	✓	✓	✗	✗
CSNR:	CLIP SAVE NUMBER REDIAL	✓	✓	✗	✓
DICT:	DICTATION	✓	✓	✓	✓
DIR:	DIRECTORY	✓	✓	✓	✓
DLOCK:	DOOR LOCK	✓	✓	✓	✓
DND:	DO NOT DISTURB	✓	✓	✓	✓
DP:	DIRECT PICK UP	✓	✓	✓	✓

		DCS/CII	816	408	408i
DROP:	TRANSFER CALL DROP	✓	✓	✓	✓
DS:	DIRECT STATION SELECT	✓	✓	✓	✓
DT:	DIRECT TRUNK SELECT	✓	✓	✓	✓
EXTMIC:	EXTERNAL MICROPHONE	✓	✓	✓	✓
FAUTO:	FORCED AUTO ANSWER	✓	✓	✓	✓
FLASH:	FLASH	✓	✓	✓	✓
FWRD:	CALL FORWARD	✓	✓	✓	✓
GPIK:	GROUP PICK UP	✓	✓	✓	✓
HDSET:	HEADSET MODE ON/OFF	✓	✓	✓	✓
HLDPK:	HOLD PICK UP	✓	✓	✓	✓
IG:	IN/OUT OF GROUP	✓	✓	✓	✓
INQIRE:	CLIP INQUIRE	✓	✓	✗	✓
ISPY:	CLIP SPY	✓	✓	✗	✓
LCR:	LEAST COST ROUTING	✓	✓	✓	✓
LISTN:	GROUP LISTENING	✓	✓	✓	✓
LNR:	LAST NUMBER REDIAL	✓	✓	✓	✓
MMPA:	MEET ME PAGE ANSWER	✓	✓	✓	✓
MMPG:	MEET ME PAGE	✓	✓	✓	✓
MSG:	MESSAGE	✓	✓	✓	✓
MUTE:	MUTE	✓	✓	✓	✓
NEW:	NEW CALL	✓	✓	✓	✓
NIGHT:	NIGHT SERVICE	✓	✓	✓	✓
NND:	CLIP NAME/NUMBER/DATE	✓	✓	✗	✓
NXT:	CLIP NEXT	✓	✓	✗	✓
OHVA:	OFF-HOOK VOICE ANNOUNCE	✓	✓	✓	✓
OPER:	OPERATOR	✓	✓	✓	✓
PAGE:	PAGE	✓	✓	✓	✓
PAGPK:	PICKUP PAGE HOLD	✓	✓	✓	✓
PARK:	CALL PARK/RETRIEVE	✓	✓	✓	✓
PAUSE:	PAUSE	✓	✓	✓	✓
PMSG:	PROGRAMMED STATION MESSAGE	✓	✓	✓	✓
REJECT:	OHVA REJECT	✓	✓	✓	✓
RETRY:	AUTO REDIAL ON BUSY	✓	✓	✓	✓
REVW:	REVIEW (CLIP)	✓	✓	✗	✓
SETMG:	SET MESSAGE W/O RING	✓	✓	✓	✓
SG:	STATION GROUP	✓	✓	✓	✓
SNR:	SAVED NUMBER REDIAL	✓	✓	✓	✓
SP:	SUPERVISOR OF UCD	✓	✓	✗	✗
SPD:	SPEED DIAL	✓	✓	✓	✓
SPKR:	SPEAKER	✓	✓	✓	✓
STORE:	STORE (CLIP)	✓	✓	✗	✓
TG:	TRUNK GROUP	✓	✓	✓	✓
TIMER:	TIMER	✓	✓	✓	✓
TRSF:	TRANSFER	✓	✓	✓	✓
UA:	UNIVERSAL ANSWER	✓	✓	✓	✓
VDIAL:	VOICE DIALLER ACCESS	✓	✗	✗	✗
VG:	VOICE MAIL GROUP	✓	✗	✗	✗
VMADM:	VOICE MAIL ADMINISTRATION	✓	✗	✗	✗
VMAME:	VOICE MAIL ANSWERING MACHINE EMULATION	✓	✗	✗	✗
VM:	VOICE MAIL MEMO	✓	✗	✗	✗
VMMSG:	VOICE MAIL MESSAGE	✓	✗	✗	✗
VREC:	RECORD KEY FOR VOICE DIALLER	✓	✗	✗	✗
VT:	VOICE MAIL TRANSFER	✓	✓	✓	✓

Related Items: **MMC 107 Key Extender**

MMC: 724 DIAL NUMBERING PLAN

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

The system comes with a range of acceptable numbering plans set as default. This MMC allows the system installer to customise feature codes and dialling plans. An error message is also provided in case an access/feature code is duplicated.

The following options can be selected. (N/A=not applicable.)

Option	Description	Dial		
		DCS/CII	816	408/408i
STN DIAL NO.	Determines the station port dialling numbers	0	0	0
TRK DIAL NO.	Determines the trunk port dialling numbers	1	1	1
AA/VD DIAL NO. (816=AA DIAL NO.)	Determines the auto attendant/voice dialler port dialling numbers	2	2	N/A
MISC DIAL NO.	Determines the miscellaneous port dialling numbers (e.g. MOH)	3	3	2
STNG DIAL NO.	Determines the station group dialling numbers	4	4	3
TRKG DIAL NO.	Determines the trunk group dialling numbers	5	5	4
FEAT DIAL NO.	Determines the feature codes	6	6	5
S0 STN DIAL NO.	Determines the S0 station dialling number	7	7	6*
DECT STN DIAL NO.	Determines the DECT station dialling numbers	8	N/A	N/A

* 408i systems only

If changing feature codes using the FEAT DIAL NO option, you can use the UP and DOWN keys to scroll through selectable features. Features can also be entered via the dial keypad. For example, for OHVA, the number 6 would be pressed three times. If Block Code is required, press 2 twice for BARGE and then use the UP key to select BLOCK. **The example shown below describes the use of this option.**

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	DISPLAY
1. Open programming and select **724** Display shows (e.g. for Compact II)	STN DIAL NUMBER BASE01:201 →
2. Enter option number 0-8 (e.g., 6) OR Press UP or DOWN key to make selection and press RIGHT soft key.	FEAT DIAL NUMBER ABAND: 64→
3. Use dial keypad to select feature (e.g. DICT) OR Press UP or DOWN key to make selection and press RIGHT soft key to advance cursor	FEAT DIAL NUMBER DICT :NONE→_
4. Enter digits (e.g., 68) via dial keypad	FEAT DIAL NUMBER DICT :NONE→68
5. Press LEFT soft key to enter change and continue to make changes OR Press RIGHT soft key to enter and return to step 2 If an error message appears indicating duplication of access code: Enter 1 for YES (change) OR 0 for NO (no change)	SAME DIAL EXIST CHANGE? Y:1,N:0
6. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: Feature Codes

ABAND	**64**	**HDSET**	**None**	**SNR**	**17**
ABS	**None**	**HLDPK**	**12**	**SPEED**	**16**
ACCT	**47**	**HOLD**	**11**	**UA**	**67**
ALMCLR	**57**	**IG**	**53**	**VDIAL**	**681**
AUTH	*	**LCR**	**#**	**VMADM**	**None**
BARGE	**None**	**LISTN**	**None**	**VMAME**	**None**
BLOCK	**None**	**LNR**	**19**	**VMMEMO**	**None**
BOSS	**None**	**MMPA**	**56**	**VMMSG**	**None**
CAMP	**45**	**MMPG**	**54**	**VREC**	**682**
CANMG	**42**	**MSG**	**43**	**WCOS**	**59**
CBK	**44**	**MYGRPK**	**None**		
CONF	**46**	**NEW**	**None**		
CR	**None**	**NIGHT**	**None**		
DICT	**None**	**OHVA**	**None**		
DIR	**None**	**OPER**	**0 (9)**		
DIRPK	**65**	**PAGE**	**55**		
DISALM	**58**	**PAGPK**	**10**		
DLOCK	**13**	**PARK**	**None**		
DND	**40**	**PAUSE**	**None**		
DNDOVER	**None**	**PMSG**	**48**		
FAUTO	**14**	**REJECT**	**None**		
FLASH	**49**	**SELFID**	**None**		
FWD	**60**	**SETMG**	**41**		
GRPK	**66**	**SLTMMC**	**15**		

Related Items: **All programs and features**

MMC: 725 SMDR OPTIONS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to select the information to be printed on the SMDR report. The following options may be selected. All have YES/NO options (YES=print) except where a new value or directory name is required.

00 PAGE HEADER	Determines whether a page header prints at the top of each page. This would normally be turned off if SMDR is being sent to a call accounting machine.
01 LINE PER PAGE	Selects the length of each page to determine when to print the SMDR header. The number of lines is in the range 01–99.
02 INCOMING CALL	Determines whether incoming calls print on SMDR.
03 OUTGOING CALL	Determines whether outgoing calls print on SMDR.
04 AUTHORISE CODE	Determines whether authorisation codes print on SMDR.
05 SMDR START TIME	Determines whether valid calls will include the minimum call time in total call duration (set in MMC 501).
06 IN/OUT GROUP	Allows a message, IN GROUP or OUT GROUP, to be printed in the Digits Dialled column each time a station enters or leaves a group.
07 DND CALL	Allows a message, DND ON or DND OFF, to be printed in the Digits Dialled column each time a station enters or leaves DND.
08 WAKE-UP CALL	Determines whether stations receiving an alarm reminder call print on SMDR.
09 DIRECTORY NAME	Allows the system administrator to enter a 16-character name which will appear on the SMDR header.
10 CALLER ID DATA	Can be selected to print CLIP data received from the C.O. on incoming ISDN calls. This option requires the use of a 132-column printer or an 80-column printer set for condensed print. (Not available on 408 systems.)
11 ABANDON CALL	If this option is set to YES, unanswered calls will print on SMDR. (Not available on 408 systems.)
13 NO. OF DIAL MASK	Number of dialled digits not to be printed (00–18)
14 DID NUM/NAME	Determines whether DDI number and name print on SMDR. (Not available on 408 systems.)

The DIRECTORY NAME that appears on the SMDR header is written using the keypad. Pressing a key selects a character and moves the cursor to the next position. For example, if the directory name is “SAM SMITH,” press the number “7” four times to get the letter “S.” Now press the number “2” once to get the letter “A.” Continue selecting characters from the keypad to complete the name. Press the programmable ”A” key to toggle between upper and lower case text.

Tip: When the character you want is on the same key as the previous character you typed in, press the UP key to move the cursor to the right, and enter the new character.

The # key can be used for the following special characters (in sequence of key presses):

#	space	&	!	:	?	.	,	%	$	-	<	>	/	=
[	]	@	^	(	)	_	+	{	}	|	;	"	→	`

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
"A"	Key #19 (24B keyset) or key #7 (12B keyset) or key #1 (6B keyset) toggles upper and lower case text.

Example 1: Switching options on (yes=print) or off (no=do not print)

ACTION	DISPLAY
1. Open programming and select **725** Display shows	PAGE HEADER PRINT : YES
2. Dial the option number (e.g. 00) OR Use the UP and DOWN keys to scroll through options and press RIGHT soft key	PAGE HEADER PRINT : YES
3. Use the UP and DOWN keys to select YES or NO and press the RIGHT soft key to save the data and return to step 2	PAGE HEADER PRINT : NO
4. After all desired options have been selected and set, press TRSF to exit OR Press SPEAKER to exit and advance to next MMC	

Example 2: Changing no. of lines per page

ACTION	DISPLAY
1. Open programming and select **725** Display shows	PAGE HEADER PRINT : YES
2. Dial the option number 01 OR Use the UP and DOWN keys to select and press RIGHT soft key	LINE PER PAGE 66 LINE / PAGE
3. Enter the number of lines per page in the range 01–99 (e.g., 50) OR Use the UP and DOWN keys to change the number of lines and press the RIGHT soft key to save the data and return to step 2	LINE PER PAGE 50 LINE / PAGE

4. After all desired options have been selected and set, press TRSF to exit
   OR
   Press SPEAKER to exit and advance to next MMC

Default Data:

Page Header:	**Yes**	**DND Call:**	**Yes**
Line Per Page:	**66**	**Wake-Up Call:**	**Yes**
Incoming Call:	**Yes**	**Directory Name:**	**None**
Outgoing Call:	**Yes**	**Caller ID Data:**	**Yes**
Authorise Code:	**Yes**	**Abandon Call:**	**Yes**
SMDR Start Time:	**Yes**	**No. of Dial Mask:**	**00**
In/Out Group:	**Yes**	**DID Num/Name:**	**Yes**

Related Items: MMC 300 Customer On/Off Per Station

MMC: 726 VM/AA OPTIONS

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Provides a flexible means of setting in-band signalling for voice mail or auto attendant parameters. There are eight main options for programming and several sub-options to customise the application. Simple YES/NO, numeric and alpha characters are required for setting VM/AA.

The following options may be selected for VM/AA operation:

0	EXT FOR DN1	DTMF information for the station that called the VM/AA port station which is forwarded to VM/AA port.
1	TRK FOR DN1	DTMF information for the trunk that called the VM/AA port.
2	EXT FOR DN2	DTMF information for the station that originated the call to a station which is forwarded to a VM/AA port.
3	TRK FOR DN2	DTMF information for the trunk that called a station forwarded to a VM/AA port.
4	SEPARATOR	In cases where DN2 is used, this specific digit is sent between the DN1 and the DN2 information. Both DN1 and DN2 must be set to YES for SEPARATOR to be sent.
5	DISCONNECT SIGNAL	This signal is sent when the calling station or C.O. line hangs up.
6	CALL TYPE ID	Under this VM/AA option are several customising applications:
	0 DIRECT CALL	A call originating directly from another station in the system.
	1 ALL FWD CALL	This indicates that a call was forwarded to the VM/AA port from a station with CALL FORWARD ALL set.
	2 BSY FWD CALL	This indicates that a call was forwarded to the VM/AA port from a station with CALL FORWARD BUSY set.
	3 NOA FWD CALL	This indicates that a call was forwarded to the VM/AA port from a station with CALL FORWARD NO ANSWER set.
	4 RECALL	A call is recalling the VM/AA port after being transferred and not answered.
	5 DIR TRK CALL	A C.O. call has gone directly to VM/AA (e.g., trunk 717 DIL to VM/AA).
	6 OVERFLOW	A call has OVERFLOWED to the VM/AA port from a station group.
	7 DID CALL	A DDI call has called the VM/AA port.
	8 MESSAGE CALL	A message button or message reply feature code has been used to call the VM/AA port.
7	PROGRESS TONE ID	DTMF digits can be sent in place of normal system tones. Digits can be assigned to the following tones:

TONES

0. DIAL TONE
1. BUSY TONE
2. RINGBACK TONE
3. DND NO MORE
4. HDSET ANSWER
5. SPKER ANSWER

Note: The call progress tones will automatically be set to the default values if the SMDI VMS SET option in MMC 210 is turned on.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used in some fields where a value is entered or deleted.
“A”	Used to input alpha character "A"
”B”	Used to insert alpha character "B"
”C”	Used to insert alpha character "C"

Keys “A”–“F” are keys #19–24 (24B keysets) or keys #7–12 (12B keysets) or keys #1–6 (6B keysets)

ACTION	**DISPLAY**
1. Open programming and select **726** Display shows	EXT FOR DN1 YES
2. Enter the option number from above list (e.g., 4 — for other options, see steps 4–11) OR Press UP or DOWN key to make selection Press LEFT soft key to move cursor	SEPARATOR NO
3. Enter 1 for YES or 0 for NO OR Press UP or DOWN key for selection Press RIGHT soft key to return to step 2	SEPARATOR YES
4. If option 0 is selected at step 2	EXT FOR DN1 YES
5. If option 1 is selected at step 2	TRK FOR DN1 YES
6. If option 2 is selected at step 2	EXT FOR DN2 NO
7. If option 3 is selected at step 2	TRK FOR DN2 NO

8. If option 4 is selected at step 2
(A valid entry consists of digits 0–9 or alpha characters A–C)

```
SEPARATOR
NO
```

9. If option 5 is selected at step 2
(A valid entry consists of digits 0–9 or alpha characters A–C)

```
DISCONECT SIGNAL
C
```

10. If option 6 is selected at step 2
(A valid entry consists of digits 0–9 or alpha characters A–C)
See above list under CALL TYPE ID options list

```
CALL TYPE ID
DIRECT CALL : NO
```

11. If option 7 is selected at step 2
(A valid entry consists of digits 0–9 or alpha characters A–C)
See above list under PROGRESS TONE ID

```
PROGRESS TONE ID
DIAL TONE   :NO
```

12. Press TRSF to store and exit
OR
Press SPEAKER to store and advance to next MMC

Default Data:

EXT FOR DN1 = Yes
TRK FOR DN1 = Yes
EXT FOR DN2 = No
TRK FOR DN2 = No
SEPARATOR = No
DISCONNECT SIGNAL = C
CALL TYPE ID:

DIRECT CALL	*1*
ALL FWD CALL	*2*
BSY FWD CALL	*3*
NOA FWD CALL	*4*
RECALL	*5*
DIR TRK CALL	*6*
OVERFLOW	*7*
DDI CALL	*8*
MESSAGE CALL	*9*

PROGRESS TONE ID = No (for all)

Related Items: **MMC 207 Assign VM/AA Port**

MMC: 727 SYSTEM VERSION DISPLAY

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

This is a read-only MMC. Used for system card version and date display only. The first display is the system ROM version. Press UP or DOWN key to show versions for other cards installed.

Version displays take the format:

YY.MM.DD Version #

Where YY = Year, MM = Month, DD = Day, Version # = version number (e.g. V1.00)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
SPEAKER	Used to advance to next MMC

ACTION

1. Open programming and select **727**
   Display shows date and version
2. Press UP or DOWN key to select other installed cards (e.g. Misc card)
3. Press TRSF to exit
   OR
   Press SPEAKER to advance to next MMC

DISPLAY

ROM VERSION '01. 02. 16. V6.25

MISC. VER:MISC '96. 10. 02 V3.0

Note: If a particular card is not installed, the LCD shows either 'NO {card type} CARD' or 'NO INSTALL CARD.' If there is no version data, you see 'NO VERSION DATA'.

Default Data: **Installed card version and date**

Related Items: **None**

MMC: 728 CLIP TRANSLATION TABLE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✗

Allows the system administrator or technician to associate a CLIP number received from the central office with a name programmed in this translation table. If there is no match between a received number and a name in this table, “no CLIP name” is displayed.

DCS – translation table consists of 250 entries, each comprising an 11-digit telephone number and a 16-digit name.

Compact II and 816 – translation table consists of 200 entries, each comprising a 16-digit telephone number and a 16-digit name.

408i – translation table consists of 100 entries, each comprising a 14-digit telephone number and a 16-digit name.

Names are written using the keypad. Each key press selects a character and moves the cursor to the next position. For example, if the name is “SAM SMITH”, press the number “7” four times to get the letter “S”. Now press the number “2” once to get the letter “A” Continue selecting characters from the keypad to complete your name. Press the programmable “A” key to toggle between upper and lower case text.

Tip: When the character you want is on the same key as the previous character you typed in, press the UP key to move the cursor to the right, then select the character.

The # key can be used for the following special characters (in sequence of key presses):

#	space	&	!	:	?	.	,	%	$	-	<	>	/	=
[	]	@	^	(	)	_	+	{	}	|	;	"	→	`

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
“A”	Key #19 (24B keyset) or key #7 (12B keyset) or key #1 (6B keyset) toggles upper and lower case text.

ACTION	DISPLAY
1. Open programming and select **728** Display shows first entry	CLIP XLAT (001) DGT:
2. Dial entry number (e.g., 005) OR Press UP or DOWN key to select and press RIGHT soft key	CLIP XLAT (005) DGT:_
3. Enter telephone number and press RIGHT soft key to advance to name entry OR Enter telephone number and press LEFT soft key to return to step 2	CLIP XLAT (005) DGT:3054264100
4. Enter associated name as described above and press RIGHT or LEFT soft key to return to step 2 OR Press SPEAKER to save and advance to next MMC OR Press TRSF to save and exit programming	CLIP XLAT (005) SAMSUNG TELECOMS

Default Data: **None**

Related Items: **None**

MMC: 730 AA RECORD GAIN

DCS	✓	CI	✗	CII	✓	816	✓	408i	✗	408	✗

Used to control AA record gain. Note that AA card port numbers differ between systems (see Part 2, section 2.3, *System Configuration: Quick Reference*).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **730** Display shows (e.g. for Compact II / 816)	[381] AAREC.GAIN REC.GAIN: +0.0
2. Dial AA number (first port in card, e.g 385) OR Press UP or DOWN to select and press RIGHT soft key	[385] AAREC.GAIN REC.GAIN: +0.0
3. Press UP or DOWN to select record gain and press RIGHT soft key	[385] AAREC.GAIN REC.GAIN: +1.0
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC.	

Default Data: **+0.0 dB**

Related Items: **None**

MMC: 731 AA RAM CLEAR

DCS	✓	CI	✗	CII	✓	816	✓	408i	✗	408	✗

Used for clearing AA RAM on a per-AA card basis. The system only accepts the first port as a port field and the LCD shows its selection. This will erase the whole message that has been programmed previously on the selected card.

Note that AA card port numbers differ between systems (see Part 2, section 2.3, *System Configuration: Quick Reference*).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	DISPLAY
1. Open programming and select **731** Display shows (e.g. for Compact II / 816)	[381] RAM CLEAR CLR RECORDED?NO
2. Dial AA number (e.g. 381) OR Press UP or DOWN to make selection and press RIGHT soft key	[381] RAM CLEAR CLR RECORDED?NO
3. Dial 0 (No) or 1 (Yes) OR Press UP or DOWN to make selection and press RIGHT soft key	[381] RAM CLEAR CLR RECORDED?YES
4. Dial 0 (No) or 1 (Yes) to confirm selection OR Press UP or DOWN to make selection and press RIGHT soft key	[381] RAM CLEAR ARE YOU SURE?YES
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **None**

MMC: 732 AA TRANSLATION TABLE

DCS	✓	CI	✗	CII	✓	816	✓	408i	✗	408	✗

This command gives more flexibility to the system by compiling a digit to Plan or Destination Translation Table, which performs the translation from dialled digit(s) into *destination parts.* Destination parts can be a station number, station group, REPEAT, Change Greeting Message Code or AA Plan Table.

If you select REPEAT by pressing the "B" key in the destination field, dialled digits may be bypassed without translating.

Number of Table Entries
AA Trans Tables 01 and 02 can have up to 100 entries each (but only 50 each on 816 systems). Tables 03-–12 have up to 25 entries.

- If you press the "A" key in the destination field, you can enter AA TRANS NO.
- If you press the "B" key you can enter REPEAT.
- If you press the "C" key you can enter CHANGE GREETING MESSAGE CODE.
- If you press the "D" key, this takes the call to voice mail.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **732** Display shows (note: number of entries for table 01 may show as "001" or "01", etc. depending on system)	AA TRANS TB (01) 001:0 → 500
2. Dial TABLE number (01–12, e.g. 02) OR Press UP or DOWN Press RIGHT soft key	AA TRANS TB (02) 001: →NONE
3. Dial ENTRY number 001–100 (or 01–50) (see *Number of Table Entries,* above), e.g 002 OR Press UP or DOWN Press RIGHT soft key	AA TRANS TB (02) 002: →NONE
4. Enter Dial DIGIT (e.g. 2**) Press RIGHT soft key	AA TRANS TB (02) 002:2**_ →

5. Dial Destination (e.g. 201)
   OR
   Press UP or DOWN
   Press RIGHT soft key

AA TRANS TB (02)
002:2** → 201

6. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **Table 01**

001 (or 01): 0 ® 500
002 (or 02): 2 ® B**
003 (or 03): 3 ® B**
004 (or 04): 5 ® B**
005 (or 05): 7* ® B**
006 (or 06): 9 ® P03

Related Items: **MMC 733 AA Plan Table**

MMC: 733 AA PLAN TABLE

DCS	✓	CI	✗	CII	✓	816	✓	408i	✗	408	✗

Used to call up the customer-recorded and pre-recorded messages into plans compiled in MMC 732, *AA Translation Table*. Pre-recorded messages listed below can be applied and destinations can be programmed as required. Specific ports are programmed in MMC 735, *AA Use Table*.

There are a total of 64 messages on an AA card:
- 48 messages are to be recorded by the user (01-48),
- 16 messages are pre-recorded in ROM on the card (49-64).

Options are as follows:

Dial	Option	Value	Description
00	DAY MSG	01-64	Introduction message during Day Mode
01	NIGHT MSG	01-64	Introduction message during Night Mode
02	ALTER MSG	01-64	Emergency message
03	INVLID MSG	01-64	Message when an invalid digit is dialled
04	NO ANS MSG	01-64	Message when there is no reply from the destination
05	XFER MSG	01-64	Transfer notifying message
06	BUSY MSG	01-64	Message on busy reply
07	NO STN MSG	01-64	Message on retrial
08	NO ACT MSG	01-64	Message on no action
09	CAMP ON	On/Off	Allow camp-on to busy extension
10	ANS DELAY	01-10	Answer Delay
11	RETRY CNT	0-5	No of times the AA will try to connect before routing to final destination.
12	TRANS TABLE	01-12	Assigning associated TRANS TABLE
13	BUSY DEST	Dest.	Alternative destination on busy
14	NO ANS DEST	Dest.	Alternative destination on no answer
15	NO ACT DEST	Dest.	Default destination on no action
16	INVALID DEST	Dest.	Default destination on invalid action

There is a total of 12 tables (01-12) in the system, but not all tables have to be used.

DESTINATION : STATION, STATION GROUP, AA PLAN NO, REPEAT.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	DISPLAY
1. Open programming and select **733** Display shows	AA PLAN PROG(01) DAY MSG :49
2. Dial AA PLAN TABLE number (01 – 12, e.g 02) OR Press UP or DOWN to select and press RIGHT soft key	AA PLAN PROG(02) DAY MSG :49
3. Dial attribute number from above table (e.g. 01) OR Press UP or DOWN to select and press RIGHT soft key	AA PLAN PROG(02) NIGHT MSG :49
4. Dial value (e.g 01) OR Press UP or DOWN to select and press RIGHT soft key	AA PLAN PROG(02) NIGHT MSG :01
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:

DAY MSG	**: 49**
NIGHT MSG	**: 49**
ALTER MSG	**: NONE**
INVLID MSG	**: 64**
NO ANS MSG	**: 51**
XFER MSG	**: 53**
BUSY MSG	**: 52**
NO STN MSG	**: 50**
NO ACT MSG	**: 59**
CAMP ON	**: OFF**
ANS DELAY TIME	**: 01 SEC**
RETRY CNT	**: 3**
TRANS TABLE	**: 01**
BUSY DEST	**: 500**
NO ANSWER DEST	**: 500**
NO ACT DEST	**: 500**
INVALID DEST	**: 500**

Related Items: **MMC 732 AA Translation Table**
MMC 734 AA Message Match

MMC: 734 AA MESSAGE MATCH

DCS	✓	CI	✗	CII	✓	816	✓	408i	✗	408	✗

Allows up to five messages to be grouped together into a single transmission with its own identification number.

For example, *05+07+13+16+64* = **01** (identification number).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **734** If an AA card is fitted the following display will appear	AA MSG MATCH(01) 01
2. Dial the desired MSG identification (link) number 01-64 (e.g. 05) OR Press UP or DOWN to select and press RIGHT soft key	AA MSG MATCH(01) 05+
3. Dial MSG numbers (01 - 64) recorded in AA card (up to 5) OR Press UP or DOWN to select and press RIGHT soft key (MMC will automatically insert '+' as a delimiter)	AA MSG MATCH(01) 05+07+13+16+64
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **MSG index number**

Related Items: **None**

MMC: 735 AA USE TABLE

DCS	✓	CI	✗	CII	✓	816	✓	408i	✗	408	✗

Assigns an AA PLAN TABLE to either an individual AA port or an AA group.

AA Plan Numbers are in the range 01 to 12.

Note that AA card port numbers differ between systems (see Part 2, section 2.3, *System Configuration: Quick Reference*).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION **DISPLAY**

1. Open programming and select **735**
   Display shows (e.g. for Compact II)

   [381]AA PLAN
   PLAN NO : 01

2. Dial AA number or AA group pilot number (e.g. 382)
   OR
   Press UP or DOWN to select and press RIGHT soft key

   [382]AA PLAN
   PLAN NO : 01

3. Dial AA PLAN number (e.g. 02)
   OR
   Press UP or DOWN to select and press RIGHT soft key

   [382]AA PLAN
   PLAN NO : 02

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC.

Default Data: **Plan 01**

Related Items: **None**

MMC: 736 ASSIGN AA MOH

DCS	✓	CI	✓	CII	✓	816	✓	408i	✗	408	✗

Allows an AA MSG to be used as a Music-On-Hold (MOH) source.

Note that AA card port numbers differ between systems (see Part 2, section 2.3, *System Configuration: Quick Reference*).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEY	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **736** Display shows (e.g. DCS)	[3958]SET AAMOH MOH MSG: NOT USE
2. Press RIGHT soft key to select MOH message	[3958]SET AAMOH MOH MSG: NOT USE
3. Dial AA message number for MOH (01 – 64, e.g. 20)	[3958]SET AAMOH MOH MSG: 20
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **NOT USE**

Related Items: **None**

MMC: 737 DECT SYSTEM CODE

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

Used to identify your DECT system and the handsets you register with your system.

The DECT System Code for your system is made up of two fields: the *System ID* which is three hexadecimal digits in the range 001 to 999; and the *Auth Code* (short for Authentication Code) which is four hexadecimal digits in the range 0000 to 9999. The default values are 000 and FFFF respectively.

Important:
You must use this MMC to change the default values for the values you have been provided with by your supplier. If you do not change the defaults you will not be able to register handsets.

Once you have entered your new System ID and Auth Code using this MMC you can then begin registering your handsets with the Auth Code. The system checks the Auth Code entered for each handset against the DECT Auth Code. If it is the same, the registration procedure continues; otherwise, the DCS rejects the registration procedure.

Caution: Only the system administrator and/or installer should be allowed access to change the DECT System Code and register handsets.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **737** Display shows	DECT SYSTEM CODE AUTH CODE : FFFF
2. Press RIGHT soft key to move cursor and enter AUTH CODE via dial keypad (eg 1234)	DECT SYSTEM CODE AUTH CODE : 1234
3. Press RIGHT soft key and press VOL UP or DOWN to select SYSTEM ID	DECT SYSTEM CODE SYSTEM ID : 000
4. Press RIGHT soft key to move cursor and enter SYSTEM ID via dial keypad (eg 567)	DECT SYSTEM CODE SYSTEM ID : 567
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **Auth Code FFFF**
System ID 000

(These values must be changed by the installer)

Related Items:	**MMC 738**	**DECT Clear Registration**
	MMC 739	**BSI Download**
	MMC 741	**BSI Card Restart**
	MMC 742	**BSI Status**
	MMC 743	**DBS Status**
	MMC 744	**BSI Registration On/Off**
	MMC 745	**BSI Carrier**

MMC: 738 DECT CLEAR REGISTRATION

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

Used to delete previously registered information for DECT handsets. This MMC has two modes:

- **FORCED**: When this mode is programmed, the system clears the registered information by force.
- **NORMAL**: Whenever the system wants to clear the registration of a DECT handset, the deletion must be confirmed from the handset. If the confirmation is successful, the system clears the registered information. (If the confirmation fails, the system cannot clear the information.)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **738** Display shows	[7901]DECT CLEAR MODE: FORCED
2. Enter the number of DECT handset to clear via dial keypad and press the RIGHT soft key to move the cursor	[7901]DECT CLEAR MODE: FORCED
3. Select the de-registration (clear) mode via UP or DOWN key (e.g. Normal) and press the RIGHT soft key to move the cursor	[7901]DECT CLEAR MODE: NORMAL
4. Enter 1 for Yes or 0 for No for DECT CLEAR OR Press UP or DOWN key to select	[7901]DECT CLEAR DECT CLEAR:YES
5. Press TRSF button to store and exit OR Press SPEAKER button to store and advance to next MMC	

Default Data: **Forced mode**

Related Items:
MMC 737 DECT System Code
MMC 739 BSI Download
MMC 741 BSI Card Restart
MMC 742 BSI Status
MMC 743 DBS Status
MMC 744 BSI Registration On/Off
MMC 745 BSI Carrier

MMC: 739 BSI DOWNLOAD

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

Used to download a new version of the DBS software when you upgrade to a new version of BSI ROM.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **739** Display shows	BSI SLOT:2 DBS:1 DOWNLOAD? :NO
2. Select the slot number (see above) via UP or DOWN key, e.g. 3	BSI SLOT:3 DBS:1 DOWNLOAD? :NO
3. Select the DBS number (see above) via UP or DOWN key, e.g. 1	BSI SLOT:3 DBS:1 DOWNLOAD? :NO
4. Press UP or DOWN key to select download and confirm download	BSI SLOT:3 DBS:1 DOWNLOAD? :YES
	BSI SLOT:3 DBS:1 ARE YOU SURE?YES
When downloading is in progress, the display shows	BSI SLOT:3 DBS:1 DOWNLOADING
However, if a downloading failure occurs, the display shows	BSI SLOT:3 DBS:1 DOWNLOAD FAIL
5. Press TRSF button to store and exit OR Press SPEAKER button to store and advance to next MMC	

Default Data: **None**

Related Items:
MMC 737 DECT System Code
MMC 738 DECT Clear Registration
MMC 741 BSI Card Restart
MMC 742 BSI Status
MMC 743 DBS Status
MMC 744 BSI Registration On/Off

MMC: 740 STATION PAIR

DCS	✓	CI	✓	CII	✓	816	✓	408i	✗	408	✗

Allows a station (such as a DECT handset) to be assigned as a 'secondary' to a 'primary' key-phone station in the system. This will allow all features to be set or cancelled from either station, and both will ring when the 'primary' receives a call.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **740** Display shows	[201] PRIMARY SECONDARY:NONE
2. Enter the primary station number via dial keypad (e.g. 201) OR Press UP or DOWN to select and press RGHT soft key	[201] PRIMARY SECONDARY:NONE
3. Enter the secondary station number via dial keypad (e.g. 205) OR Press UP or DOWN to select and press RGHT soft key	[201] PRIMARY SECONDARY:205
4. Press TRSF button to store and exit OR Press SPEAKER button to store and advance to next MMC	

Default Data: **NONE**

Related Items: **None**

MMC: 741 BSI CARD RESTART

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

Used to restart a BSI card or DBS. The DBS/BSI card will be restarted automatically.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION **DISPLAY**

1. Open programming and select **741**
   Display shows

   BSI SLOT : 2 DBS : 1
   RESTART ? NO

2. Select the specific BSI slot number or press the RIGHT soft key and select the specific DBS (using the keypad or the UP/DOWN keys)

   (If you want to restart **all** DBSs, you must select "A" instead of a DBS number by pressing the ANS/RLS key)

   Press the RIGHT soft key

   BSI SLOT : 2 DBS : 1
   RESTART ? NO

3. Press UP or DOWN to select Yes or No and press RIGHT soft key

   BSI SLOT : 2 DBS : 1
   RESTART ? YES

4. Confirm whether you want to restart by selecting YES or NO using the UP or DOWN key, and press RIGHT soft key

   BSI SLOT : 2 DBS : 1
   ARE YOU SURE ? YES

5. Press TRSF button to exit
   OR
   Press SPEAKER button to advance to next MMC

Default Data: **None**

Related Items:
MMC 737 DECT System Code
MMC 738 DECT Clear Registration
MMC 739 BSI Download
MMC 742 BSI Status
MMC 743 DBS Status
MMC 744 BSI Registration On/Off
MMC 745 BSI Carrier

MMC: 742 BSI STATUS

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

Shows the status of the BSI card.

ACTION **DISPLAY**

1. Open programming and select **742**

   Display shows:

   For Compact II - "SUCC" (successful) if status of BSI card is good, or "FAIL"

BSI STATUS SUCC

   OR

   OR

   For DCS - "M" = Master, "S" = Slave (not used) "SUCC" (successful) if status of BSI card is good, or "FAIL"

BSI STATUS M:SUCC S:NONE

2. Press TRSF button to exit
   OR
   Press SPEAKER button to advance to next MMC

Default Data: **None**

Related Items:
MMC 737 DECT System Code
MMC 738 DECT Clear Registration
MMC 739 BSI Download
MMC 741 BSI Card Restart
MMC 743 DBS Status
MMC 744 BSI Registration On/Off
MMC 745 BSI Carrier

MMC: 743 DBS STATUS

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

Used for checking the status of DECT base stations (DBS).

ACTION	DISPLAY
1. Open programming and select **743**	
2. The status of each DBS is displayed: If status is good, "1" is displayed If status is not good, "0" is displayed	
For DCS - (DBS 1-8)	DBS : 12345678 STS : 11101100
OR	OR
For Compact II - (DBS 1-3)	DBS STATUS 1:1 2:1 3:0
3. Press TRSF button to store and exit OR Press SPEAKER button to store and advance to next MMC	

Default Data: **None**

Related Items:
MMC 737 DECT System Code
MMC 738 DECT Clear Registration
MMC 739 BSI Download
MMC 741 BSI Card Restart
MMC 742 BSI Status
MMC 744 BSI Registration On/Off

MMC: 744 DECT REGISTRATION ON/OFF

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

Allows DECT handset registration to be enabled on a keyphone system. If this MMC is not opened and an attempt is made to register a DECT handset, an error message will be displayed. The default passcode for registration can be changed using MMC 202, *Change Feature Passcodes*.

Caution: When you have finished registering handsets, run this MMC again to set the registration mode to DISABLE. This will prevent unauthorised access to this feature.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **744** Display shows	ENABLE DECT REG. PASSCODE:
2. Enter passcode	ENABLE DECT REG. PASSCODE:****
If the correct code is entered the display shows	ENABLE DECT REG. DISABLE
An incorrect code entry shows	ENABLE DECT REG. PASSCODE ERROR
If the SYSTEM ID in MMC 737 (*DECT System Code*) has not been set, this message will be displayed:	ENABLE DECT REG. NO REG. SYSTEM ID
3. Dial 1 for ENABLE or 0 for DISABLE OR Press UP or DOWN key to select and press RIGHT soft key	ENABLE DECT REG. ENABLE
4. Press TRSF key to exit OR Press SPEAKER button to store and advance to next MMC	

Default Data: **DISABLE**

Related Items:
MMC 202 Change Feature Passcodes
MMC 737 DECT System Code
MMC 738 DECT Clear Registration
MMC 739 BSI Download
MMC 741 BSI Card Restart
MMC 742 BSI Status
MMC 743 DBS Status
MMC 745 BSI Carrier

MMC: 745 BSI CARRIER

DCS	✓	CI	✓	CII	✓	816	✗	408i	✗	408	✗

A base station uses one of 10 channels (FDMA technology). This MMC is used to allow or deny the use of each channel (carrier). By default, all carriers can be used by a base station.

Options: 1 Carrier can be used

0 Carrier cannot be used

PROGRAM KEYS

KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION **DISPLAY**

1. Open programming and select **745**

   The display shows the status of each carrier (0 – 9):

   If '1' is shown below a carrier, this carrier can be used by the base station

   If '0' is shown below a carrier, this carrier cannot be used by the base station

   ```
   CARS:0123456789
   SELS: 1111111111
   ```

2. Dial 1 or 0 for each carrier as required

   ```
   CARS:0123456789
   SELS: 1101111111
   ```

3. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **1111111111**

Related Items:
MMC 202 Change Feature Passcodes
MMC 737 DECT System Code
MMC 738 DECT Clear Registration
MMC 739 BSI Download
MMC 741 BSI Card Restart
MMC 742 BSI Status
MMC 743 DBS Status
MMC 744 BSI Registration On/Off

MMC: 750 VM CARD RESTART (Cadence & SVMi-4)

DCS	✓	CI	✗	CII	✓	816	✗	408i	✗	408	✗

Determines whether mailboxes are set up according to the data set in MMC 751, *Assign Mailbox*, when the Cadence/SVMi-4 card is restarted. There are two options available in this MMC:

DOWNLOAD
When the card starts, part of the power-up procedure will download data from the system to determine time, date, what mailboxes to create, and the system numbering plan. This must be done at least once, but when done this download fea-ture can be turned off to save boot-up time.

CARD RESTART
If this option is set to YES, the card will immediately restart according to the Download option specified above.

PROGRAM KEYS

UP & DOWN	Used to scroll thro ugh options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **750** Display shows	VM CARD RESTART DOWNLOAD ?YES
2. Dial 1 for YES or 0 for NO (download) OR Press UP or DOWN key to select Press RIGHT soft key	VM CARD RESTART CARD RESTART?NO
3. Dial 1 for YES or 0 for NO (restart) OR Press UP or DOWN key to select Press RIGHT soft key	VM CARD RESTART CARD RESTART?YES
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **DOWNLOAD=YES**
CARD RESTART=NO

Related Items: **MMC 751 Assign Mailbox**
Cadence programming
SVMi-4 programming

MMC: 751 ASSIGN MAILBOX (Cadence & SVMi-4)

DCS	✓	CI	✗	CII	✓	816	✗	408i	✗	408	✗

Assigns mailboxes to each station or station group. Mailboxes are assigned to all stations or groups flagged as YES in this MMC if DOWNLOAD = YES is set in MMC 750 during VM card start-up. Groups supported are 500–529 for DCS and 500–519 for Compact II.

New boxes can be added through Voice Mail administration or by using this MMC.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION **DISPLAY**

1. Open programming and select **751**
   Display shows

   ASSIGN MAIL BOX
   301 :YES

2. Dial station or group number (e.g. 302)
   OR
   Press UP or DOWN key to select station
   Press RIGHT soft key

   ASSIGN MAIL BOX
   302 :YES

3. Dial 0 for NO or 1 for YES
   OR
   Press UP or DOWN key to select
   Press RIGHT soft key to return to step 2

   ASSIGN MAIL BOX
   302 :YES

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **All stations = YES**
All groups = NO

Related Items: **Cadence programming**
SVMi-4 programming

MMC: 752 AUTO RECORD (Cadence & SVMi-4)

DCS	✓	CI	✗	CII	✓	816	✗	408i	✗	408	✗

Specific stations can be assigned to automatically record conversations. Options for recording are:

Station number (STN)
Mailbox (MB)
Voice Mail port
Call type: all incoming calls (I), all outgoing calls (O), or both incoming and outgoing calls (B).

A maximum of eight stations can be assigned at any one time.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **752** Display shows	AUTO RECORD STN: 301 MB: NONE
2. Dial station number (e.g. 302) OR Press UP or DOWN key to select station Press RIGHT soft key	AUTO RECORD STN: 302 MB: NONE
3. Dial mailbox number (e.g. 341) OR Press UP or DOWN key to select mailbox Press RIGHT soft key	AUTO RECORD STN: 302 MB: 341
4. Dial Voice Mail port number (e.g. 519) OR Press UP or DOWN key to select port Press RIGHT soft key	AUTO RECORD PORT: 519 CALL:I
5. Press UP or DOWN key to select call type I, O or B (e.g. B) and press RIGHT soft key	AUTO RECORD PORT: 519 CALL:B
6. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **MB = NONE** **PORT = NONE** **CALL = I**

Related Items: **Cadence programming**
SVMi-4 programming

MMC: 753 WARNING DESTINATION (Cadence & SVMi-4)

DCS	✓	CI	✗	CII	✓	816	✗	408i	✗	408	✗

Provides an emergency destination for calls to Cadence or SVMi-4 if the card is removed or off-line. The destination can be a station number or a group number. Any station call that is forwarded to Voice Mail will remain ringing at the forwarding station until answered.

Note: The destination is the same as the VM ALARM mailbox in MMC 755.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **753** Display shows default destination	WARNING DEST. DEST:500
2. Dial destination number (e.g., 213) OR Press UP or DOWN to scroll to number	WARNING DEST. DEST:213
3. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **WARNING DESTINATION = 500**

Related Items: **MMC 500 System-Wide Counters (Alarm Reminder Counter option)**
Cadence programming
SVMi-4 programming

MMC: 754 VM HALT (Cadence & SVMi-4)

DCS	✓	CI	✗	CII	✓	816	✗	408i	✗	408	✗

Used to take the Cadence or SVMi-4 card off-line. This MMC ensures that there are no calls on the card when it is taken off-line. You cannot halt the card using MMC 810 (Halt Processing).

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION **DISPLAY**

1. Open programming and select **754**
   Display shows

   VM HALT
   STATUS: PROC

2. Dial 1 to halt (HALT) or 0 not to halt (PROC)
   OR
   Press UP or DOWN key to select

   VM HALT
   STATUS: HALT

   Press RIGHT soft key

3. Press UP or DOWN key to select YES or NO
   (YES will take the card off-line)
   Press RIGHT soft key

   VM HALT
   ARE YOU SURE? YES

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **None**

Related Items: **Cadence programming**
SVMi-4 programming

MMC: 755 VM ALARM (Cadence & SVMi-4)

DCS	✓	CI	✗	CII	✓	816	✗	408i	✗	408	✗

Generates an alarm message in a mailbox, defined in MMC 753, when the Cadence card hard disk drive or SVMi-4 card flash memory reaches a selected 'threshold' (percentage of capacity). You select the threshold in this MMC—the range is 00–99%.

For example, if you select a threshold of 70, an alarm message is generated if more than 70% of capacity is reached.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION

1. Open programming and select **755**
   Display shows

   DISPLAY

   VM ALARM
   THRESHOLD:80

2. Enter new threshold value using keypad (e.g. 85)
   OR
   Press UP or DOWN key to select threshold value
   Press RIGHT soft key

   VM ALARM
   THRESHOLD:85

3. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **THRESHOLD: 80%**

Related Items: **Cadence programming**
SVMi-4 programming

MMC: 756 ASSIGN VM MOH (Cadence & SVMi-4)

DCS	✓	CI	✗	CII	✓	816	✗	408i	✗	408	✗

Assigns a Cadence or SVMi-4 port as a Music On Hold (MOH) source. Once assigned, the port cannot be used for AA/VM applications.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **756** Display shows	SET VMMOH 717 : NOT USE
2. Press UP or DOWN key to select port and press RIGHT soft key	SET VMMOH 717 : NOT USE
3. Press UP or DOWN key to select MOH file number (00–99*) and press RIGHT soft key	SET VMMOH 717 : 01
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

* Note: nos. 00–99 are equivalent to Cadence or SVMi-4 file nos. 5000–5099 (see Cadence or SVMi-4 documentation)

Default Data: **NOT USE**

Related Items: **Cadence programming**
SVMi-4 programming

MMC: 757 VM IN/OUT (Cadence & SVMi-4)

DCS	✓	CI	✗	CII	✓	816	✗	408i	✗	408	✗

Defines which VM port is used for incoming calls, outgoing calls, or both. Options are:

IN
OUT
IN/OUT

Can also be used to reset the current MOH port (set in MMC 756) to one of the above.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION **DISPLAY**

1. Open programming and select **757**
   Display shows

   VM IN/OUT
   717 : IN/OUT

2. Dial port number (e.g. 718)
   OR
   Press UP or DOWN key to select
   Press RIGHT soft key

   VM IN/OUT
   718 : IN/OUT

3. Press UP or DOWN key to select option
   (e.g. IN) and press RIGHT soft key

   VM IN/OUT
   718 : IN

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **IN/OUT**

Related Items: **Cadence programming**
SVMi-4 programming

MMC: 800 ENABLE TECHNICIAN PROGRAM

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Used to open and close system-level (technician) programming. If programming is not opened and an attempt is made to access a system MMC, the error message “ACCESS DENIED” will be displayed.

A four-digit passcode is required to access this MMC (which can be changed in MMC 801). When opened, this MMC enables access to all MMCs.

The procedure below describes how to open programming.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION	**DISPLAY**
1. Press **TRSF 800** Display shows	ENABLE TECH.PROG PASSCODE:
2. Enter passcode	ENABLE TECH.PROG PASSCODE: ✻✻✻✻
DCS only – Correct code shows	ENABLE TECH.PROG DISABLE TENANT:1
OR	OR
Compact II, 816 and 408/408i – Correct code shows	ENABLE TECH.PROG DISABLE
Incorrect code shows (you return to the passcode entry display so you can try again)	ENABLE TECH. PROG PASSCODE ERROR
3. Enter 1 to enable or enter 0 to disable OR Press UP or DOWN to select	ENABLE TECH.PROG ENABLE TENANT:1
	OR
	ENABLE TECH.PROG ENABLE
DCS only - Press RIGHT soft key to move to tenant number and enter tenant number (1–2)	ENABLE TECH.PROG ENABLE TENANT: 2

4. Press SPEAKER to advance to MMC entry level

```
801:TEC.PASSCODE
SELECT PROG.ID
```

5. Enter the MMC required and begin programming. Follow the instructions for that MMC.

Disabling (Closing) Programming Mode

If you wish to immediately close programming mode when you have finished programming:

- Return to MMC 800. The display shows that programming is enabled.
- Use the UP or DOWN key to select DISABLE and press TRSF to exit.

If you do not close programming using MMC 800, programming mode will be automatically disabled if you do not carry out any programming tasks within the time set in the system timer KMMC LOCK OUT (see MMC 501, *System-Wide Timers*).

Default Data: **DISABLE (closed)**
Passcode=4321

Related Items: **None**

MMC: 801 CHANGE TECHNICIAN PASSCODE

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Used to change the passcode which allows access to MMC 800 (*Enable Technician Program*) from its current value.

Note: The passcode is four digits long. The current or "old" passcode is required for this MMC.

PROGRAM KEYS

KEYPAD	Used to enter passcodes
SPEAKER	Save data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **801**	TECH. PASSCODE NEW CODE:_
2. Enter new passcode	TECH. PASSCODE NEW CODE:****
3. Enter new passcode again to verify	TECH. PASSCODE VERIFY :****
4. If verification is correct, press RIGHT soft key to continue and enter desired MMC	TECH. PASSCODE VERIFY :SUCCESS
If verification is incorrect display shows "Failure" and system returns to step 2	TECH. PASSCODE VERIFY :FAILURE
5. Press TRSF to store and exit OR Press SPEAKER to advance to MMC	

Default Data: **Default passcode = 4321**

Related Items: **MMC 800 Enable Technician Program**

MMC: 802 CUSTOMER ACCESS MMC NUMBER

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the installer to designate which MMCs the system administrator (customer) has access to. For example, it is advised that the customer has access to MMC 102, *Call Forward*, for call forwarding but it is not advised that the customer has access to MMC 710, *LCR Digit Table*, for LCR dial plans. (MMC 802 is for both tenants on DCS systems.)

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION **DISPLAY**

1. Open programming and select **802**
   Display shows

   CUSTOMER ACCESS
   100:STN LOCK:YES

   DCS only -
   Enter desired tenant number (1–2)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to move cursor

   CUSTOMER ACCESS
   100:STN LOCK:YES

2. Enter desired MMC number (e.g. 102)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to move cursor

   CUSTOMER ACCESS
   102:CALL FWD:YES

3. Enter 1 for YES or 0 for NO
   OR
   Press UP or DOWN key to make selection and press LEFT soft key to return to step 3 to make additional entries

   CUSTOMER ACCESS
   102:CALL FWD:NO

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data:

Customers have access to the following MMCs (default = YES):

100–119, 201, 202, 209, 211–14, 216, 300–306, 308, 309, 312, 315, 317, 404–406, 408–410, 412, 414–416, 421, 500, 502, 505, 507, 508, 600–602, 604, 606, 607, 705–708, 714, 715, 720–722, 725, 727, 728.

Related Items: **None**

MMC: 803 ASSIGN TENANT GROUP

DCS	✓	CI	✗	CII	✗	816	✗	408i	✗	408	✗

Allows the assignment of DCS tenant groups on a per-cabinet, slot and port basis. The simple rule is Cabinet-Slot-Port=Tenant. The simplicity of this program allows for flexible assignments. The only information needed is the correct correlation of entries.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION	**DISPLAY**
1. Open programming and select **803** Display shows	TENANT GROUP C:1 S:1 P:01 T:1
2. Enter cabinet (C) number (if no change, press RIGHT soft key to move cursor)	TENANT GROUP C:1 S:1 P:01 T:1
3. Enter slot (S) number (if no change, press RIGHT soft key to move cursor)	TENANT GROUP C:1 S:1 P:01 T:1
4. Enter port (P) number (if no change, press RIGHT soft key to move cursor)	TENANT GROUP C:1 S:1 P:01 T:1
5. Enter tenant (T) number (if no change, press RIGHT soft key to return to step 2)	TENANT GROUP C:1 S:1 P:01 T:1
6. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **All assignments tenant 1**

Related Items: **Tenant group**

MMC: 804 SYSTEM I/O PARAMETER

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Provides a means of setting parameters for the system I/O ports to work with one of the following:

- a personal computer (PC)
- Station Message Detail Recording (SMDR)
- UCD statistics report/periodic UCD information (except 408/408i)
- CTI (TSAPI) interface (DCS and Compact II only).

All systems have two I/O ports (Ports 1 and 2), except 408/408i which have one I/O port (Port 1). Programming can be accomplished easily, using the tables below to customise any I/O port.

PARAMETER OPTIONS

Dial 0	Service	Type of Service
Dial 1	Baud Rate	Speed
Dial 2	Char Length	Character Length
Dial 3	Parity	Parity Bit
Dial 4	Retry Count	Number of Retries
Dial 5	Stop Bit	Stop Bit
Dial 6	Wait Time	Message Wait Time
Dial 7	DSR Check or	DSR Check on/off (Compact II, 816 and 408/408i only)
	SIM Pair	No. of the station connected to the Serial Interface Module (SIM) (DCS only)

SERVICE TYPE

Each port can be set to one of the following service types. Note that the services available depend on the type of system being programmed. For example, DCS and CII systems provide all the following services while 408/408i systems provide PC-MMC and SMDR only.

Type	Description
PC-MMC	PC application
SMDR	SMDR report (call logging)
UCD REPT	UCD report on request by the supervisor, or daily
UCD/SMDR	Both SMDR and UCD report will be generated
CTI	Dedicated Switch Link Interface
CTI/SMDR	CTI and SMDR
CTI/UCD	CTI and UCD
CTI/S/U	CTI, SMDR and UCD
VM TRACE	Voice Mail monitoring
NOT USE	Not used

SPEED (BPS)

	Dial	
	DCS/CII/816	**408/408i**
600	0	N/A
1200	1	2
2400	2	3
4800	3	4
9600	4	5
19200	5	N/A

CHARACTER LENGTH

Dial 7	7 bits
Dial 8	8 bits

PARITY

Dial 0	None
Dial 1	Odd
Dial 2	Even

STOP BIT

Dial 1	1 bit
Dial 2	2 bit

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear entry (when valid)

ACTION **DISPLAY**

1. Open programming and select **804**
   Display shows

   SYS I/O PORT (1)
   SERVICE:PC-MMC

2. Enter desired port via dial keypad (e.g. 2) (note: 408/408i systems have port 1 only)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to move cursor

   SYS I/O PORT (2)
   SERVICE:SMDR

3. Enter parameter option from the above option list via dial keypad (e.g. 1)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to move cursor

   SYS I/O PORT (2)
   BAUD:9600 BPS

4. Enter desired value via dial keypad (e.g. 19200 baud)
   OR
   Press UP or DOWN key to display value and press RIGHT soft key to return to step 2

SYS I/O PORT (2)
BAUD:19200 BPS

5. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data:

Option	DCS/CII/816		408/408i
	Port 1	Port 2	Port 1
Service Type	PCMMC	SMDR	SMDR
Baud Rate (bps)	9600	9600	9600
Char Length (bits)	8	8	8
Parity	None	None	None
Retry Count	03	03	03
Stop Bit	1	1	1
Wait Time (msec)	300	300	300
DSR Check	Off	Off	Off
SIM Pair	None	None	N/A

Related Items: **PC-MMC programming**
SMDR options

MMC: 805 TX LEVEL AND GAIN

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the system administrator to set the base level of TX volume and the TSW gain control for nine time-switch connect types.

There are eight (8) volume levels which are controlled by the UP and DOWN keys on the keyset. However, there are 11 possible levels in a DCS or Compact II system, nine in an 816 system, and four in a 408/408i system. With this MMC, you can select the desired levels.

Caution
You should only change TSW gain control values under the supervision of Technical Support.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry
ANS/RLS	Used to select ALL

ACTION	DISPLAY
1. Open programming and select **805** Display shows	TX LEVEL CONTROL LEVEL 0 → 1
2. Press UP or DOWN key to select TX LEVEL CONTROL or TSW GAIN CONTROL OR Press RIGHT soft key to select If you selected TX, goto step 3 If you selected TSW, goto step 4	TX LEVEL CONTROL LEVEL 0 → 1
3. Press RIGHT soft key to go to the volume level OR Press UP or DOWN key to go to next volume level	TX LEVEL CONTROL LEVEL 1 → 2
Enter desired volume level via dial keypad OR Use UP or DOWN key to scroll data (00-10) (Go to step 6 if finished)	TX LEVEL CONTROL LEVEL 1 → 3
4. Press RIGHT soft key to go to the TSW GAIN CONTROL type OR Press UP or DOWN key to go to next TSW type	TSW GAIN CONTROL SLT → SLT: +0.0

5. Press UP or DOWN key to select TSW gain data
   Press RIGHT soft key to go back to step 4 or go to step 6 if finished

TSW GAIN CONTROL
SLT → SLT: +2.0

6. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data:

TX Level: 0 ® 1, 1 ® 2, 2 ® 3, 3 ® 4, 4 ® 5, 5 ® 6, 6 ® 7, 7 ® 8

TSW Gain: (Only some of the following may apply to your system)

SLT➔SLT	**+0.0**
SLT➔ATRK	**+0.0**
SLT➔DTRK	**+0.0**
ATRK➔SLT	**+0.0**
ATRK➔ATRK	**+1.9**
ATRK➔DTRK	**– 6.0**
DTRK➔SLT	**+1.9**
DTRK➔ATRK	**+1.9**
DTRK➔DTRK	**+0.0**
DECT➔SLT	**+0.0**
DECT➔ATRK	**+0.0**
DECT➔DTRK	**+1.9**
SLT➔DECT	**– 6.0**
ATRK➔DECT	**– 6.0**
DTRK➔DECT	**– 6.0**
DECT➔DECT	**– 6.0**

Related Items: **None**

MMC: 806 CARD PRE-INSTALL

DCS	✓	CI	✓	CII	✓	816	✓	408i	✗	408	✗

Allows the pre-programming of a slot for a specific card. For example, after the system is installed and a new card is added, running this program causes the system to accept the card for what it is and not for what it is not.

The procedure differs slightly for each type of system, as described below.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

■ *DCS PROCEDURE*

ACTION **DISPLAY**

1. Open programming and select **806**
   Display shows

   ```
   C1–01   :INSTALL
   PRITRK →PRITRK
   ```

2. Enter cabinet number (e.g., 3)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to move cursor

   ```
   C3–01   :INSTALL
   PRITRK →PRITRK
   ```

3. Enter slot number (e.g., 5)
   OR
   Press UP or DOWN key to make selection and press RIGHT soft key to return to step 2

   ```
   C3–05   :INSTALL
   DLI     → DLI
   ```

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

■ *COMPACT II PROCEDURE*

ACTION **DISPLAY**

1. Open programming and select **806**
   Display shows

   ```
   O.SLI SLOT
   O.2SLI →O.2SLI
   ```

2. Press UP or DOWN key to select slot number

   ```
   EXP.1 SLOT
   6DLI   →8DLI
   ```

3. Press RIGHT soft key to change previous card type

   ```
   EXP.1 SLOT
   8DLI   →8DLI
   ```

4. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

■ *816 PROCEDURE*

ACTION	DISPLAY
1. Open programming and select **806** Display shows	EXP. SLOT NONE →NONE
2. Press RIGHT soft key to change previous card type	EXP. SLOT NONE →8TRK
3. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **None**

MMC: 807 VOLUME CONTROL

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Allows the volume levels to be set the for the following keyset features:

KEY TONE	NOISE THRES
SIDE TONE	ALC THRES
HANDSET TX	TX/RX THRES
MIC TX LEVEL	TX/RX COMP
NOISE GUARD	

Caution
You should only change these values under the supervision of Technical Support.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
HOLD	Used to clear previous entry

ACTION	**DISPLAY**
1. Open programming and select **807** Display shows	VOL.CONTROL:DGP KEY TONE VOL :1
2. Press RIGHT soft key to move cursor	VOL.CONTROL:DGP KEY TONE VOL :1
3. Press UP or DOWN key to select feature (e.g. SIDE TONE VOL) and press RIGHT soft key	VOL.CONTROL:DGP SIDE TONE VOL:1
4. Press UP or DOWN key to select volume and press LEFT soft key	VOL.CONTROL:DGP SIDE TONE VOL:2
5. Repeat step 3 to select and change other volume levels OR Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data:

Key tone vol	**1**	**Noise thres.**	**1**
Sidetone vol	**1**	**Alc thres.**	**7**
Handset tx	**3**	**Tx/rx thres.**	**3**
Mic tx level	**3**	**Tx/rx comp.**	**5**
Noise guard	**8**		

Related Items: **None**

MMC: 808 T1 TRUNK CODING

Not Used in the UK

MMC: 809 SYSTEM MMC LANGUAGE

DCS	✓	CI	✗	CII	✓	816	✓	408i	✓	408	✓

Allows the assignment of an LCD display based on the system programming language. Your system supports some or all of the following languages:

ENGLISH	DANISH
GERMAN	DUTCH
PORTUGAL	SPANISH

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC

ACTION

1. Open programming and select **809**
   Display shows

   DISPLAY

   SYS.MMC LANGUAGE
   ENGLISH

2. Press UP or DOWN to make selection and press RIGHT soft key

   SYS.MMC LANGUAGE
   DANISH

3. Press TRSF to store and exit
   OR
   Press SPEAKER to store and advance to next MMC

Default Data: **ENGLISH**

Related Items: **Multi-Language**

MMC: 810 HALT PROCESSING

DCS	✓	CI	✓	CII	✓	816	✓	408i	✗	408	✗

Used only in the event that all data processing needs to be stopped in either a single cabinet or slot, or in the entire system. The procedure differs slightly between systems.

Note: You do not need to enable system programming (MMC 800) in order to run this program but you will still require the technician's passcode.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right
SPEAKER	Used to store data and advance to next MMC
ANS/RLS	Used to select ALL

■ *DCS PROCEDURE*

ACTION	DISPLAY
1. Open programming and select **810** Display shows	HALT/PROCESSING C:ALL S:ALL→PROC
2a. Enter cabinet selection via dial keypad OR Press UP or DOWN key to make selection and press RIGHT soft key to advance cursor	HALT/PROCESSING C:3 S:ALL→PROC
2b. Press ANS/RLS to select all cabinets and all slots	HALT/PROCESSING C:ALL S:ALL→PROC
3. Enter slot number via dial keypad OR Press UP or DOWN key to make selection and press RIGHT soft key to advance cursor	HALT/PROCESSING C:3 S:5 →PROC
4. Enter 1 for HALT or 0 to PROC OR Press UP or DOWN key to make selection and press RIGHT soft key to enter data and return to step 2	HALT/PROCESSING C:3 S:5 →HALT
5. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

■ *COMPACT II & 816 PROCEDURE*

ACTION	DISPLAY
1. Open programming and select **810** Display shows	HALT/PROCESSING SLOT NO:ALL→PROC
2. Enter slot number via dial keypad (e.g. 5) OR Press UP or DOWN key to make selection and press RIGHT soft key to advance cursor	HALT/PROCESSING SLOT NO:5 →PROC
OR Press ANS/RLS to select all slots	HALT/PROCESSING SLOT NO:ALL→PROC
3. Enter 1 for HALT or 0 to PROC OR Press UP or DOWN key to make selection and press RIGHT soft key to enter data and return to step 2	HALT/PROCESSING SLOT NO:5 →HALT
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **None**

Related Items: **None**

MMC: 811 RESET SYSTEM

DCS	✓	CI	✓	CII	✓	816	✓	408i	✓	408	✓

Provides two methods of restarting the system. The first method (CLEAR MEMORY) restarts the system and clears all memory. The second method (RESET SYSTEM) restarts the system only. If CLEAR MEMORY is selected, system data will return to default values.

Note: You do not need to enable system programming (MMC 800) in order to run this program but you will still require the technician's passcode.

WARNING: Extreme care should be taken when using this MMC

If the system is restarted, all voice/data connections are dropped.

If memory is cleared, all customer data is deleted and the system returns to default status.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right

ACTION	DISPLAY
1. Open programming and select **811** Display shows	SYSTEM RESTART RESET SYSTEM?NO
2. Press UP or DOWN key to make selection (RESET SYSTEM or CLEAR MEMORY) After selection is made, press RIGHT soft key to move cursor to YES/NO option	SYSTEM RESTART CLEAR MEMORY?NO
3. Press UP or DOWN key to make selection and press RIGHT soft key	SYSTEM RESTART CLEAR MEMORY?YES
4. Press UP or DOWN key to make selection and press RIGHT soft key ***Warning: Selecting CLEAR MEMORY will erase all data in the system and return default values*** If RESET SYSTEM is selected, system will return to normal programmed status	SYSTEM RESTART ARE YOU SURE?YES

Default Data: **None**

Related Items: **None**

MMC: 812 SELECT COUNTRY

DCS	✓	CI	✗	CII	✓	816	✓	408i	✓	408	✓

IMPORTANT

This MMC should be run before any other programming is done to ensure that the correct software for your country has been selected, or to change the selection if required.

When using this MMC, the system is restarted to make the selection effective.

Note: You do not need to enable system programming (MMC 800) in order to run this program but you will still require the technician's passcode.

PROGRAM KEYS

UP & DOWN	Used to scroll through options
KEYPAD	Used to enter selections
SOFT KEYS	Move cursor left and right

ACTION	DISPLAY
1. Open programming and select 812 Display shows the country selected by the installer (e.g. UK). To accept this setting, go to step 4.	SELECT COUNTRY UK
2. Press UP or DOWN key to select a different country and press RIGHT soft key	SELECT COUNTRY DENMARK
3. Press UP or DOWN key to select YES or NO and press RIGHT soft key **Warning: if you select YES, this will clear the memory and restart the system**	DEFAULTING SYSTM ARE YOU SURE?YES
4. Press TRSF to store and exit OR Press SPEAKER to store and advance to next MMC	

Default Data: **NONE**

Related Items: **All MMCs**

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