Parse log about import / instruction processing

Log file

```
Instruction parsing:
Nct set: location
OK: active 1
OK: cluster = 100
Nct set: paging area
Nct set: sync source
Nct set: refl_env
Nct set: vlan_profile
Nct set: antenna
Nct set: vlan_channel_log
Nct set: vlan_power
Nct set: vlan_channel
Nct set: vlan_act

Section processing:
0 : 00:30:42:0D:97:1A;R45IP31a030543;1;1;0;/0;1;31;4;;;;;;;
1 : 00:30:42:0C:95:08;R43;SMT_33A-0-31-2;1;1;0;1;0;1;31;4;;;;;;;
2 : 00:30:42:0C:BD:7B;R440 P31a-03-07-4;1;1;0;/0;3;31;4;;;;;;;
3 : 00:30:42:0D:95;CE;Fabchschrank Kueche;1;1;0;/0;9;31;4;;;;;;;
4 : 00:30:42:0D:95:CC;R41A OpenMob lab;1;2;0;/0;3;;;;;;;
5 : 00:30:42:0D:99:C4;R41 OpenMob lab;1;2;0;/0;3;31;4;;;;;;;
6 : 00:30:42:0C:BD:9D;R43 OpenMob lab;1;2;0;/0;1;31;4;;;;;;;
7 : 00:30:42:0D:95:DB;R451 System;1;4;-12-13;1;0;/0;0;33;4;;;;;
8 : 00:30:42:0D:95:D6;R451 P31a-4-2-13-18;1;0;/0;9;33;4;;;;;
9 : 00:30:42:0D:95:D7;R447 P31a-4-2-13;1;0;/0;0;33;4;;;;;
10 : 00:30:42:0D:95:E7;R447 P31a-4-2-13;1;0;/0;0;33;4;;;;;
11 : 00:30:42:0C:66;R433 P31a-4-2-11;1;0;/0;0;33;4;;;;;
12 : 00:30:42:0C:B6:6B;R433 P31a-4-2-11;1;0;/0;0;33;4;;;;;
13 : 00:30:42:0B:92:FC;R43 Test board;1;1;0;/0;1;31;4;;;;;
14 : 00:30:42:FF:FD:D0;plexglas;1;1;0;/0;11;31;4;;;;;
15 : 00:30:42:0D:27:7D;R434 P31M-0-1-5-191;1;1;0;/0;0;33;4;;;;;
```

OK Save

13.3.2 RFP CONFIGURATION FILE / LOCAL (OM CONFIGURATOR)

13.3.2.1 Supported Instructions

All instructions are taken as a common value and are applied to all records in the data sequence section of that file if the corresponding field is empty.

Instruction	Explanation
active	Local configuration active: (0=inactive(use DHCP instead), 1=active)
net_mask	Net mask
tftp_server	IP address of TFTP server
tftp_file	Path and name of boot file
omm_1	OMM IP address
omm_2	IP address of backup OMM
gateway	Default gateway
dns_server	Up to two DNS server IP addresses
dns_domain	local DNS domain
syslog_addr	IP address of syslog daemon
syslog_port	Listen port of syslog daemon
use_vlan	VLAN is enabled

Instruction	Explanation
srvlst	List of further tftp server
broadcast_addr	local broadcast address
vlan_id	VLAN Id
preferred_tftp	tftp_server is preferred
config_file_server	configuration server

13.3.2.2 Data Section Fields

The data section contains the following field order:

1 MAC address of RFP
2 Local configuration active flag
3 IP address of RFP
4 Net mask
5 TFTP server
6 TFTP_FILE
7 OMM IP address
8 IP address of backup OMM
9 Default gateway
10 DNS server
11 DNS domain
12 Syslog daemon IP address
13 Syslog listen port
14 Use VLAN
15 Server list
16 Broadcast address
17 VLAN Id
18 Preferred TFTP server
19 Configuration file server

13.3.2.3 Example

RFP configuration file/local (OM Configurator):

```
# =====================#
# instruction section #
# =====================#

active      = 1
net_mask    = 255.255.0.0
tftp_server= 172.30.200.92
tftp_file   = iprfp2G.tftp
```

```
omm_1      = 172.30.111.188
omm_2      = 172.30.11.181
gateway    = 172.30.0.2
dns_server = 172.30.0.4,172.30.0.21
dns_domain = aastra.de
syslog_addr= 172.30.200.92
use_vlan = 1
srvlist = 172.30.0.4,172.30.0.21
broadcast_addr = 172.30.255.255
vlan_id = 4
preferred_tftp = 1
config_file_server = https://server/configfiles/
# -----------------#
# data sequence #
# -----------------#
# 1. MAC_ADDR           ! no instruction supported !
# 2. ACTIVE_FLAG
# 3. RFPADDR            ! no instruction supported !
# 4. NET_MASK
# 5. TFTP_SERVER
# 6. TFTP_FILE
# 7. OMM1
# 8. OMM2
# 9. GATEWAY
#10. DNS_SERVER
#11. DNS_DOMAIN
#12. SYSLOG_ADDR
#13. SYSLOG_PORT
#14. USE_VLAN
#15. SRVLIST
#16. BROADCAST_ADDR
#17. VLAN_ID
#18. PREFERRED_TFTP
#19. CONFIG_FILE_SERVER

data_sequence
00-30-42-01-01-01;172.30.111.1
00-30-42-02-02-02;172.30.111.2
```

Parse log for import / instruction processing

```
ok: active = 1
ok: net_mask = 255.255.0.0
ok: tftp_server = 172.30.200.92
ok: tftp_file = iprfp2G.tftp
ok: omm_1 = 172.30.111.188
ok: omm_2 = 172.30.11.181
ok: gateway = 172.30.0.2
ok: dns_server = 172.30.0.4,172.30.0.21
ok: dns_domain = mitel.com
ok: syslog_addr = 172.30.200.92
not set: syslog_port
ok: use_vlan = 1
ok: vlan_id = 4
ok: srvlist = 172.30.0.4,172.30.0.21
ok: broadcast_addr = 172.30.255.255
ok: preferred_tftp = 1
ok: config_file_server = https://server/configfiles/
:parsing ok:

processing of section: data_sequence

[..]

create data:

[..]

RFP configuration:

[..]
```

13.4 RFP EXPORT FILE FORMAT

General

RFP export files are created by OMM Management Portal in 'csv'-file format which can be easily viewed by a spreadsheet application. Export file contains all or a part of the following parameters:

- MAC address
- Location name
- DECT active
- Cluster
- Paging area
- Synchronization source
- Reflective environment
- Site
- Building
- Floor
- Room
- WLAN profile reference
- WLAN antenna
- WLAN Channel_bg
- WLAN power
- WLAN active

Example

Following example RFP export file contains all all exportable RFP parameters and is re-importable by OMM Management Portal.

```
################################################
# RFP data export file: '/home/user/example.csv'
################################################
# Date: 24.09.10  Time: 15:58:19
################################################
################################################
#
# Exported parameters:
#
# MAC address
# Name
# DECT activated
# DECT cluster
# Paging area
# Preferred sync.
# Reflective env.
# Site ID
# Building
```

```
# Floor
# Room
# WLAN profile
# WLAN antenna
# WLAN channel
# WLAN power
# WLAN activated
#
################################################

MAC address;Name;DECT activated;DECT cluster;Paging area;Preferred sync.;Reflective env.;Site ID;Building;Floor;Room;WLAN profile;WLAN antenna;WLAN channel;WLAN power;WLAN activated

data_sequence

00:30:42:0E:71:41;License RFP 1;
true;1:0;false;true;1;B1;F1;R1;1;0;;100;false

00:30:42:0E:26:F1;License RFP 2;
true;1:0;false;false;1;B1;F2;R1;1;0;;100;false

00:30:42:0E:75:59;License RFP 3;
true;1:0;true;false;1;B1;F2;R2;1;0;;100;false
```

13.5 COA CONFIGURATION PARAMETERS

In addition to the information provided in section 7.23, the following sections provide examples of a CoA configuration files, and an overview of all supported parameters.

13.5.1 CONFIGURATION OF VARIABLE LISTS

A *variable list* includes a number of *list items*, each of which can be executed in the usual way by selecting it. A list item consists of an item index (1..10) and either a number (to be dialed) or a function/feature that is supported by the handset. Other attributes of a list item are optional.

Item-Attribute	Type	Description	Example
Index	decimal number	index of list item (1..10)	7
Number	quoted UTF8-string	'number' to dial	"#12#777#"
Name	quoted UTF8-string	displayed text of item	"My Voice Box"
FunctionID	function-ID-string	function/feature to execute	pbx_directory
ShortName/Icon	quoted UTF8-string	displayed short name and/or icon	"xEE808B VB"
Handsfree	Boolean (0 or 1)	dial in hands-free-mode	1
VisibleSpecifier	4-digit-string of '0' or '1'	item visible in idle-, dial-, alerting- and active-state	1000

There are 2 variable lists available, and each can hold up to 10 list items.

To configure an item for one of the lists the command key *UD_VlistEntry* is used. The first value specifies the index (1 or 2) of the considered list, followed by the above mentioned attributes in the given order.

Always remember that the different values/attributes must be separated by whitespace and their positions in the configuration command are fixed. Unused attributes must be indicated by empty strings if they are followed by nonempty attributes, unused attributes (empty strings) can be omitted at the end of the configuration command.

Examples:

```
UD_VlistEntry = 1 1  "#12#777#"      "My Voice Box"  ""  "VB"         1
UD_VlistEntry = 1 2  "0431169677777" "Alice"
UD_VlistEntry = 1 3  "0431169688888" "Bob\'s Phone"  ""  "BP \xEE808B"
UD_VlistEntry = 2 1  ""              "App 5"         f_5 "A5"    ""    1000
```

Additionally a variable list can hold a name and/or short name used for representing it in another list or near a programmed soft key or side key. Again, the 'short name' attribute allows specifying an icon as well. A third attribute, 'sub item', determines whether or not a selected list item is to be displayed with sub item (sub key line).

List-Attribute	Type	Description	Example
Name	quoted UTF8-string	displayed text of list	"My Own Menu"
ShortName/Icon	quoted UTF8-string	displayed short name and/or icon	"xEE808B M1"
SubItems	Boolean (0 or 1)	show sub key line of selected item	1

Again, the corresponding configuration commands take the list index (1 or 2) as first value.

Examples:

```
UD_VlistName      = 1 "My Own Menu"
UD_VlistShortName = 1 "\xEE808B M1"
UD_VlistSubItems  = 1 1
```

13.5.2 EXTENDED COA EXAMPLES

13.5.3 EXAMPLE 1

```
UD_ConfigurationName="Umlaute (UTF-8): äöüÄÖÜß, Escape-Sequenzen: ' \" \\ \r \n \t \f,
andere UTF-8-Zeichen: µ ® €"

# display-einstellungen
UD_DispLang=en
UD_DispFont=large
UD_DispColor=black

# ringer-einstellungen
UD_RingerVolumeIntern=level_1
UD_RingerVolumeExtern=level_2
UD_RingerMelodyIntern=classical_1
UD_RingerMelodyExtern=pippi_longstocking

# ausblenden/sperren von features
UD_FunctionMenuHide=active_features true
UD_FunctionMenuHide=prog_x true
UD_FunctionUserProtected=system_x true

# programmieren von tasten (idle-zustand)
UD_KeyAssignmentIdle=side1 voice_box
UD_KeyAssignmentIdle=ok MenuInNew
UD_KeyAssignmentIdle=long.esc inf
UD_KeyAssignmentIdle=esc pbx_directory
UD_KeyAssignmentIdle=long.esc directories
```

13.5.4 EXAMPLE 2

```
UD_ConfigurationName = "comm-test"    # dies definiert den namen des coa-files (versys)

### message options
UD_MessageMelodyNormal = basic_1
UD_MessageMelodyUrgent = basic_2
UD_MessageMelodyAlarm = basic_3

UD_MessageVolumeNormal = level_1
```

UD_MessageVolumeUrgent = level_2
UD_MessageVolumeAlarm = level_3

ringer melody options

UD_MessageOverwrite = true

UD_RingerMelodyIntern = butterfly
UD_RingerMelodyExtern = barock
UD_RingerMelodyUnknown = ballade
UD_RingerMelodyCallback = fancy
UD_RingerMelodyRecall = comelody
UD_RingerMelodyVip = easy_groove
UD_RingerMelodySpecial = happy_fair
UD_RingerMelodyAlarm = kitafun
UD_RingerMelodyAppointment = latin_dance

ringer volume options

UD_RingerVolumeIntern = off
UD_RingerVolumeExtern = increasing
UD_RingerVolumeUnknown = level_1
UD_RingerVolumeCallback = level_2
UD_RingerVolumeRecall = level_3
UD_RingerVolumeVip = level_4
UD_RingerVolumeSpecial = level_5
UD_RingerVolumeAlarm = level_6
UD_RingerVolumeAppointment = level_7

ringer settings

UD_RingMode = repeat
UD_RingBuzz = true
UD_RingVibra = true
UD_RingHeadset = false

attention tones

UD_ToneKey = inactive active
UD_ToneCnf = active
UD_ToneMend = active no_speaker
UD_ToneAccu = active vibra
UD_ToneRange = inactive active no_speaker vibra
UD_ToneOutrange = inactive

---

audio

UD_AudioNoisedetect = true
UD_AudioLoudenv = false
UD_AudioSpkCharger = handsfree

Systems/Subscription/<System X>

UD_DialCharset = ABC_123
UD_DialCodeImax = 3
UD_DialCodeSys = "6"

display

UD_Displang=en
UD_DispFont=large
UD_DispColor=black

illumination

UD_LightDim = 2h
UD_LightDisp = 2m
UD_LightKey = 45s
UD_LightKeyoptIncom = true
UD_LightKeyoptAlarm = false
UD_LightKeyoptCharge = false
UD_LightCharge = 60s
UD_LightCall = 30s
UD_LightMsgMsg = 10s
UD_LightMsgInf = 20s
UD_LightMsgJob = 30s
UD_LightMsgSos = 60s

led indications

UD_LedAlive = true
UD_LedIncom = true
UD_LedRange = false
UD_LedCharge = true
UD_LedInfo = false
UD_LedSpk = true
UD_LedAutoans = false
UD_LedAppoint = false
UD_LedAlarm = false

list access

UD_ListmodeRedial = pbx
UD_ListmodeCaller = pbx

```
UD_ListmodeFilter = block_list

### device options

UD_ModeSilentcharge = true
UD_ModeChargeranswr = false
UD_ModeAutoanswr = true
UD_ModeAutoquickhook = false
UD_ModeKey = oem

### phone lock

UD_LockKeyAuto = true
UD_LockKeyTime = 30s
UD_LockKeyPin = true
UD_LockPin = "1234"
UD_LockAdmin = "4711"

### SOS call

UD_SosNum = "4711"
UD_SosMelody = weekend
UD_SosVolume = increasing
UD_SosHandsfree = true

### alarm sensor

UD_SosMdNumber = "0815"
UD_SosMdAutoanswr = true
UD_SosMdModePre = false
UD_SosMdModeDown = true
UD_SosMdModeNomove = true
UD_SosMdModeEsc = false
UD_SosMdModeRep = false
UD_SosMdSenseAngle = flat
UD_SosMdSenseMove = high
UD_SosMdSenseEsc = medium
UD_SosMdNomoDown = conversation system_menu local_menu
UD_SosMdNomoNomove = conversation
UD_SosMdNomoEsc = idle conversation system_menu local_menu
UD_SosMdDelayDown = 20s
UD_SosMdDelayNomove = 30s
UD_SosMdDelayEsc = 45s
UD_SosMdTimePre = 30s
UD_SosMdTimeRep = 60s
UD_SosMdTone = true
UD_SosMdVibra = false
```

```
### function/feature access

UD_FunctionMenuHide=active_features true
UD_FunctionMenuHide=prog_X TRUE
UD_FunctionLocked=time_x true
UD_FunctionUserProtected=system_x true
UD_FunctionUserProtected=dir_x true
UD_FunctionAdminProtected=system_x true
UD_FunctionGrayed=system_x true

UD_KeyAssignmentActive=esc nop

### assignment of keys

UD_KeyAssignmentIdle=side1 caller
UD_KeyAssignmentIdle=ok MenuInfNew
UD_KeyAssignmentIdle=long.ok inf
UD_KeyAssignmentIdle=esc pbx.directory
UD_KeyAssignmentIdle=long.esc directories
```

13.5.5 EXAMPLE 3

```
UD_ConfigurationName = "omm-test"    # dies definiert den namen des coa-files (versys)

### function/feature access

UD_FunctionMenuHide = scheme true
UD_FunctionLocked = scheme true
UD_FunctionGrayed = scheme true
UD_FunctionUserProtected = scheme true
UD_FunctionAdminProtected = scheme true

### assignment of keys

UD_KeyAssignmentIdle=side1 sos_loc
UD_KeyAssignmentIdle=side2 shock
UD_KeyAssignmentIdle=side3 sensor_menu
```

13.5.6 EXAMPLE 4

```
#UD_ConfigurationName = "omm-test"    # dies definiert den namen des coa-files (versys)

### assignment of keys

#UD_KeyAssignmentIdle=side1 sos_loc
#UD_KeyAssignmentIdle=side2 shock
#UD_KeyAssignmentIdle=side3 sensor_menu

#UD_KeyAssignmentIdleMaster=side1 sos_loc
#UD_KeyAssignmentIdleMaster=side2 shock
#UD_KeyAssignmentIdleMaster=side3 sensor_menu
```

```
UD_KeyAssignmentIdle=down gapp_directory

UD_ConfigurationName=    jwede-1
UD_DispFont=             normal
UD_DispColor=            black

UD_KeyAssignmentIdle=side1 vlst1
UD_KeyAssignmentActive=side1 vlst2

UD_VListEntry = 1 1 "*8010" "Unpark 10" "" "" "" ""
UD_VListEntry = 1 2 "80*11" "Unpark 11" "" "" "" ""

UD_VListEntry = 2 1 "#58110" "Park 10" "" "" "" ""
UD_VListEntry = 2 2 "58#111" "Park 11" "" "" "" ""

UD_VListName = 1 "Unpark call"
UD_VlistShortName = 1 "\xEE8296"
UD_VListSubItems = 1 0

UD_VListName = 2 "Park call"
UD_VlistShortName = 2 "\xEE8296"
UD_VListSubItems = 2 0

### var-lists

#UD_VlistName      = 1 "Extra-Menü 1"
#UD_VlistName      = 2 "Extra-Menü 2"
#UD_VlistShortName = 2 \xEE808B
#UD_VlistSubItems  = 2 1

### var-list entries

# parameters: list  item    number-to-dial   name
shortname/icon   handsfree  visible(idle,dial,alert,active)

0..1     1..2  1..10  quoted-string    quoted-string
          4-digit-string-of(0,1)
```

			name	fkt	string	quoted-string
#UD_VlistEntry = 1	9	"*7*<no>#"	"Kröger's"	f_1		"«nam»"
"\xEE808B"						
#UD_VlistEntry = 2	2	"04311962222<ln=4>"	"xx\\yy"	f_5		"nam2"
""						
#UD_VlistEntry = 1	3	"04311967777<<>"	"xx\"yy"	inf		
"\238\128\139"						
#UD_VlistEntry = 1	7	"043116960000"	"xx\'yy"			"$ €"
"\xEE808B"						

```
## max=20  30
```

```
## mul=11 3
## substr = 1001 1 1
## xxx = bbb

# in strings: so soll es sein:
#
#    cfg          ->  lua
#
#  "xx\\yy"       ->  'xx\\yy'
#  "xx\'yy"       ->  'xx\'yy'    (auch: "xx'yy" -> 'xx\'yy')
#  "xx\"yy"       ->  'xx"yy'
#  "xx\ryy"       ->  'xx\tyy'
#  "xx\nyy"       ->  'xx\nyy'
#  "xx\tyy"       ->  'xx\tyy'
#  "xx\fyy"       ->  'xx\fyy'
#  "xx\234yy"     ->  'xx\234yy'
#
#  icons:
#
#  "xx\x01yy"     ->  'xx\x...yy'
#  :
#  "xx\x1fyy"     ->  'xx\x...yy'
#  "xx\xee808byy" -> 'xx[]yy'
```

13.5.7 EXAMPLE 5

```
#UD_ConfigurationName = "omm-test"   # dies definiert den namen des coa-files (versys)

### assignment of keys
UD_KeyAssignmentIdleMaster=side1 sos_loc
UD_KeyAssignmentIdleMaster=side2 shock
UD_KeyAssignmentIdleMaster=side3 sensor_menu

UD_KeyAssignmentIdle=side1 sos_loc
UD_KeyAssignmentIdle=side2 shock
UD_KeyAssignmentIdle=side3 sensor_menu

UD_KeyAssignmentActiveSos=red nop
UD_KeyAssignmentActiveSos=d0 dial_0
UD_KeyAssignmentActiveSos=d1 dial_1
UD_KeyAssignmentActiveSos=d2 dial_2
UD_KeyAssignmentActiveSos=d3 dial_3
UD_KeyAssignmentActiveSos=d4 dial_4
UD_KeyAssignmentActiveSos=d5 dial_5
UD_KeyAssignmentActiveSos=d6 dial_6
UD_KeyAssignmentActiveSos=d7 dial_7
UD_KeyAssignmentActiveSos=d8 dial_8
```

```
UD_KeyAssignmentActiveSos=d9 dial_9
UD_KeyAssignmentActiveSos=star dial_star
UD_KeyAssignmentActiveSos=hash dial_hash

UD_KeyAssignmentActiveSosMaster=red nop
```

13.5.8 SUPPORTED COA PARAMETERS

The following keys and values are supported in the CoA configuration files.

```
    used in configuration commands: <key> = <value> [ <value> ]

// KEY_xxx      key
// VAL_xxx      value

"UD_ConfigurationName"    // <string>

// message melody options
"UD_MessageMelodyNormal"      // VAL_MELODY_xxx
"UD_MessageMelodyUrgent"      // VAL_MELODY_xxx
"UD_MessageMelodyAlarm"       // VAL_MELODY_xxx

// message volume options
"UD_MessageVolumeNormal"      // VAL_VOLUME_xxx
"UD_MessageVolumeUrgent"      // VAL_VOLUME_xxx
"UD_MessageVolumeAlarm"       // VAL_VOLUME_xxx

// message overwrite
"UD_MessageOverwrite"         // true/false

// ringer melody options
"UD_RingerMelodyIntern"       // VAL_MELODY_xxx
"UD_RingerMelodyExtern"       // VAL_MELODY_xxx
"UD_RingerMelodyUnknown"      // VAL_MELODY_xxx
"UD_RingerMelodyCallback"     // VAL_MELODY_xxx
"UD_RingerMelodyRecall"       // VAL_MELODY_xxx
"UD_RingerMelodyVip"          // VAL_MELODY_xxx
"UD_RingerMelodySpecial"      // VAL_MELODY_xxx
"UD_RingerMelodyAlarm"        // VAL_MELODY_xxx
"UD_RingerMelodyAppointment"  // VAL_MELODY_xxx

// ringer volume options
"UD_RingerVolumeIntern"       // VAL_VOLUME_xxx
"UD_RingerVolumeExtern"       // VAL_VOLUME_xxx
"UD_RingerVolumeUnknown"      // VAL_VOLUME_xxx
"UD_RingerVolumeCallback"     // VAL_VOLUME_xxx
```

```
"UD_RingerVolumeRecall"       // VAL_VOLUME_xxx
"UD_RingerVolumeVip"          // VAL_VOLUME_xxx
"UD_RingerVolumeSpecial"      // VAL_VOLUME_xxx
"UD_RingerVolumeAlarm"        // VAL_VOLUME_xxx
"UD_RingerVolumeAppointment"  // VAL_VOLUME_xxx

// melodies
"weekend"        // Weekend
"butterfly"      // Butterfly
"barock"         // Barock
"ballade"        // Ballade
"fancy"          // Fancy
"comelody"       // Comelody
"easy_groove"    // Easy groove
"happy_fair"     // Happy fair
"kitafun"        // Kitafun
"latin_dance"    // Latin dance
"little_asia"    // Little asia
"mango_selassi"  // Mango selassi
"parka"          // Parka
"remember"       // Remember
"rocky_lane"     // Rocky lane
"ringing_1"      // Ringing 1
"ringing_2"      // Ringing 2
"ringing_3"      // Ringing 3
"ringing_4"      // Ringing 4
"ringing_5"      // Ringing 5
"ringing_6"      // Ringing 6
"ringing_7"      // Ringing 7
"ring_vintage"   // Ring vintage
"vibes"          // Vibes
"attack"         // Attack
"doorbell"       // Doorbell
"boogie"         // Boogie
"polka"          // Polka
"classical_1"    // Classical 1
"classical_2"    // Classical 2
"classical_3"    // Classical 3
"classical_4"    // Classical 4
"alla_turca"     // Alla turca
"entertainer"    // Entertainer
"jollygood"      // Jollygood
"in_the_saints"  // In the saints
```

```
"drunken_sailor"       // Drunken sailor
"mary_had"             // Mary had
"shell_be_walking"     // Shell be walking
"pippi_longstocking"   // Pippi longstocking
"policehorn"           // Policehorn
"synthesizer"          // Synthesizer
"after_work"           // After work
"beep"                 // Beep
"basic_1"              // Basic 1
"basic_2"              // Basic 2
"basic_3"              // Basic 3
"basic_4"              // Basic 4
"basic_5"              // Basic 5
"basic_6"              // Basic 6
"basic_7"              // Basic 7
"basic_8"              // Basic 8
"alarm_1"              // Alarm 1
"alarm_2"              // Alarm 2
"alarm_3"              // Alarm 3
"alarm_4"              // Alarm 4
"alarm_5"              // Alarm 5
"alarm_6"              // Alarm 6
"alarm_7"              // Alarm 7
"6700_one"             // 6700 One
"6700_two"             // 6700 Two
"6700_three"           // 6700 Three
"6700_four"            // 6700 Four
"6700_five"            // 6700 Five
"1_attention_tone"     // 1 Attention tone
"2_attention_tones"    // 2 Attention tones
"3_attention_tones"    // 3 Attention tones
"4_attention_tones"    // 4 Attention tones
"5_attention_tones"    // 5 Attention tones
"6_attention_tones"    // 6 Attention tones
"7_attention_tones"    // 7 Attention tones
"8_attention_tones"    // 8 Attention tones
"9_attention_tones"    // 9 Attention tones
"10_attention_tones"   // 10 Attention tones

// volumes
"off"                  // off
"increasing"           // increasing
"level_1"              // Level-1
```

```
"level_2"              // Level-2
"level_3"              // Level-3
"level_4"              // Level-4
"level_5"              // Level-5
"level_6"              // Level-6
"level_7"              // Level-7

// ringer settings
"UD_RingMode"          // VAL_RING_MODE_xxx
"UD_RingBuzz"          // true/false
"UD_RingVibra"         // true/false
"UD_RingHeadset"       // true/false

"repeat"               // repeat
"once"                 // once

// attention tones
"UD_ToneKey"           // VAL_TONE_xxx (up to 3 values)
"UD_ToneCnf"           // VAL_TONE_xxx (up to 3 values)
"UD_ToneMnend"         // VAL_TONE_xxx (up to 3 values)
"UD_ToneAccu"          // VAL_TONE_xxx (up to 3 values)
"UD_ToneRange"         // VAL_TONE_xxx (up to 3 values)
"UD_ToneOutrange"      // VAL_TONE_xxx (up to 3 values)

"inactive"             // inactive
"active"               // active
"no_speaker"           // without Loudspeaker
"vibra"                // Vibration

// audio
"UD_AudioNoisedetect"  // true/false
"UD_AudioLoudenv"      // true/false
"UD_AudioSpkCharger"   // VAL_AUDIO_SPK_CHARGER_xxx

"release"              // Release
"handsfree"            // Handsfree

// Systems/Subscription/<System X>
"UD_DialCharset"       // VAL_DIAL_ABC_xxx
"UD_DialCodeImax"      // VAL_DIAL_CODE_IMAX_xxx
"UD_DialCodeSys"       // <digit-string>

"123_"                 // 123...
```

```
"ABC_123"            // ABC...123
"123_ABC_äöü"        // 123...ABC...äöü
"ABC_äöü_123"        // ABC...äöü...123
"123_ABC"            // 123...ABC

"automatic"          // automatic

"plain"
"1"                  // 1
"2"                  // 2
"3"                  // 3
"4"                  // 4
"5"                  // 5
"6"                  // 6
"7"                  // 7
"8"                  // 8

// display
"UD_DisplLang"       // VAL_DISP_LANG_xxx
"UD_DispFont"        // VAL_DISP_FONT_xxx
"UD_DispColor"       // VAL_DISP_COLOR_xxx

"default"            // default
"de"                 // D  - Deutsch
"en"                 // GB - English
"fr"                 // FR - Français
"es"                 // ES - Español
"it"                 // I  - Italiano
"nl"                 // NL - Nederlands
"sv"                 // S  - Svenska
"da"                 // DK - Dansk
"pt"                 // P  - Português
"no"                 // N  - Norsk
"cs"                 // Cz - Cesky
"sk"                 // SK - Sloven\u010dina - Slovensky
"fi"                 // Su - Suomi
"hu"                 // H  - Magyar - Hungarian
"ru"                 // RU - \u0420\u0443\u0441\u0441\u043a\u0438\u0439 - Russian
"tr"                 // TÜRK - Türkçe
"pl"                 // PL - Polski
"et"                 // EST - Esti

"small"              // Small
"normal"             // Normal
"large"              // Large
```

```
"gray"               // Gray
"black"              // Black
"business"           // Business
"future"             // Future
"plain"              // Plain
"sweet"              // Sweet

// illumination
"UD_LightDim"            // VAL_LIGHT_DIM_xxx
"UD_LightDisp"           // VAL_LIGHT_DISP_xxx
"UD_LightKey"            // VAL_LIGHT_KEY_xxx
"UD_LightKeyoptIncom"    // true/false
"UD_LightKeyoptAlarm"    // true/false
"UD_LightKeyoptCharge"   // true/false
"UD_LightCharge"         // VAL_LIGHT_CHARGE_xxx
"UD_LightCall"           // VAL_LIGHT_CALL_xxx
"UD_LightMsgMsg"         // VAL_LIGHT_MSG_MSG_xxx
"UD_LightMsgInf"         // VAL_LIGHT_MSG_INF_xxx
"UD_LightMsgJob"         // VAL_LIGHT_MSG_JOB_xxx
"UD_LightMsgSos"         // VAL_LIGHT_MSG_SOS_xxx

"on"                 // on
"10h"                // 600 min
"4h"                 // 240 min
"2h"                 // 120 min
"1h"                 // 60 min
"10m"                // 10 min
"1m"                 // 1 min
"off"                // off

"10s"                // 10 sec
"20s"                // 20 sec
"30s"                // 30 sec
"45s"                // 45 sec
"60s"                // 60 sec
"2m"                 // 120 sec
"4m"                 // 240 sec
"off"                // off

"1s"                 // 1 sec
"3s"                 // 3 sec
"5s"                 // 5 sec
```

Appendix

381

```
"10s"        // 10 sec
"20s"        // 20 sec
"30s"        // 30 sec
"45s"        // 45 sec
"60s"        // 60 sec
"2m"         // 120 sec
"4m"         // 240 sec

"off"        // off
"1s"         // 1 sec
"3s"         // 3 sec
"5s"         // 5 sec
"10s"        // 10 sec
"20s"        // 20 sec
"30s"        // 30 sec
"45s"        // 45 sec
"60s"        // 60 sec
"2m"         // 120 sec
"4m"         // 240 sec

"off"        // off
"1s"         // 1 sec
"3s"         // 3 sec
"5s"         // 5 sec
"10s"        // 10 sec
"20s"        // 20 sec
"30s"        // 30 sec
"45s"        // 45 sec
"60s"        // 60 sec
"2m"         // 120 sec
"3m"         // 180 sec
"4m"         // 240 sec

"on"         // on
"nochange"   // No change
"dimmed"     // Light dimmed
"5s"         // 5 sec
"10s"        // 10 sec
"20s"        // 20 sec
"30s"        // 30 sec
"45s"        // 45 sec
"60s"        // 60 sec
"2m"         // 120 sec
```

SIP-DECT OM System Manual

382

```
"4m"         // 240 sec

"nochange"   // No change
"dimmed"     // Light dimmed
"5s"         // 5 sec
"10s"        // 10 sec
"20s"        // 20 sec
"30s"        // 30 sec
"45s"        // 45 sec
"60s"        // 60 sec
"2m"         // 120 sec
"4m"         // 240 sec

"dimmed"     // Light dimmed
"30s"        // 30 sec
"60s"        // 60 sec
"2m"         // 120 sec
"3m"         // 180 sec
"4m"         // 240 sec
"5m"         // 300 sec

                 // led indications
"UD_LedAlive"    // true/false
"UD_LedIncom"    // true/false
"UD_LedRange"    // true/false
"UD_LedCharge"   // true/false
"UD_LedInfo"     // true/false
"UD_LedSpk"      // true/false
"UD_LedAppoint"  // true/false
"UD_LedAlarm"    // true/false

                 // list access
```

```
"UD_ListmodeRedial"        // VAL_LISTMODE_REDIAL_xxx
"UD_ListmodeCaller"        // VAL_LISTMODE_CALLER_xxx
"UD_ListmodeFilter"        // VAL_LISTMODE_FILTER_xxx

"local"                    // local
"automatic"                // automatic
"pbx"                      // PBX

"local"                    // local
"automatic"                // automatic
"pbx"                      // PBX

"accept_list"              // Accept list
"block_list"               // Block list
"filter_off"               // Filter off

// device options
"UD_ModeSilentcharge"      // true/false
"UD_ModeChargeranswr"      // true/false
"UD_ModeAutoanswr"         // true/false
"UD_ModeAutoquickhook"     // true/false
"UD_ModeKey"               // VAL_MODE_KEY_xxx

"emo"                      // Esc   >>>   Ok
"oem"                      // Ok    Esc   >>>
"eom"                      // Esc   Ok    >>>
"meo"                      // >>>   Esc   Ok
"EMO"                      // Esc   Menu  Ok
"OEM"                      // Ok    Esc   Menu
"EOM"                      // Esc   Ok    Menu
"MEO"                      // Menu  Esc   Ok

// phone lock
"UD_LockKeyAuto"           // true/false
"UD_LockKeyTime"           // VAL_LOCK_KEY_T_xxx
"UD_LockKeyPin"            // true/false
"UD_LockPin"               // <digit-string>
"UD_LockAdmin"             // <digit-string>

"5s"                       // 5  sec
"10s"                      // 10 sec
"20s"                      // 20 sec
"30s"                      // 30 sec
```

383

```
"40s"                      // 40  sec
"50s"                      // 50  sec
"60s"                      // 60  sec
"90s"                      // 90  sec
"120s"                     // 120 sec

// SOS call
"UD_SosNum"                // <digit-string>
"UD_SosMelody"             // VAL_MELODY_xxx
"UD_SosVolume"             // VAL_VOLUME_xxx
"UD_SosHandsfree"          // true/false

// alarm sensor
"UD_SosMdNumber"           // <digit-string>
"UD_SosMdAutoanswr"        // true/false
"UD_SosMdModePre"          // true/false
"UD_SosMdModeRep"          // true/false
"UD_SosMdModeEsc"          // true/false
"UD_SosMdModeNomov"        // true/false
"UD_SosMdModeDown"         // true/false
"UD_SosMdSenseAngle"       // VAL_SOSMD_SENSE_ANGLE_xxx
"UD_SosMdSenseMove"        // VAL_SOSMD_SENSE_MOVE_xxx
"UD_SosMdSenseEsc"         // VAL_SOSMD_SENSE_ESC_xxx
"UD_SosMdNomoDown"         // VAL_SOSMD_NOMO_xxx (up to 4 values)
"UD_SosMdNomoNomove"       // VAL_SOSMD_NOMO_xxx (up to 4 values)
"UD_SosMdNomoEsc"          // VAL_SOSMD_NOMO_xxx (up to 4 values)
"UD_SosMdDelayDown"        // VAL_SOSMD_DELAY_DOWN_xxx
"UD_SosMdDelayNomove"      // VAL_SOSMD_DELAY_NOMOVE_xxx
"UD_SosMdDelayEsc"         // VAL_SOSMD_DELAY_ESC_xxx
"UD_SosMdTimePre"          // VAL_SOSMD_T_PRE_xxx
"UD_SosMdTimeRep"          // VAL_SOSMD_T_REP_xxx
"UD_SosMdTone"             // true/false
"UD_SosMdVibra"            // true/false

"steep"                    // Steep
"medium"                   // Medium
"flat"                     // Flat

"Low"                      // Low
"medium"                   // Medium
"high"                     // High

"Low"                      // Low
```

384

```
"medium"          // Medium
"high"            // High

"idle"            // in idle
"conversation"    // during conversation
"local_menu"      // in local menu
"system_menu"     // in system menu

"1s"              // 1 sec
"2s"              // 2 sec
"5s"              // 5 sec
"10s"             // 10 sec
"75s"             // 75 sec
"60s"             // 60 sec
"45s"             // 45 sec
"30s"             // 30 sec
"20s"             // 20 sec
"10s"             // 10 sec
"5s"              // 5 sec
"2s"              // 2 sec
"1s"              // 1 sec
"75s"             // 75 sec
"60s"             // 60 sec
"45s"             // 45 sec
"30s"             // 30 sec
"20s"             // 20 sec
"10s"             // 10 sec
"75s"             // 75 sec
"60s"             // 60 sec
"45s"             // 45 sec
"30s"             // 30 sec
"20s"             // 20 sec
"10s"             // 10 sec
"5s"              // 5 sec
```

```
"10s"             // 10 sec
"20s"             // 20 sec
"30s"             // 30 sec
"45s"             // 45 sec
"60s"             // 60 sec
"75s"             // 75 sec
"120s"            // 120 sec
"240s"            // 240 sec

// function/feature access
"UD_FunctionMenuHide"       // VAL_FUNCTION_xxx and true/false
"UD_FunctionLocked"         // VAL_FUNCTION_xxx and true/false
"UD_FunctionGrayed"         // VAL_FUNCTION_xxx and true/false
"UD_FunctionUserProtected"  // VAL_FUNCTION_xxx and true/false
"UD_FunctionAdminProtected" // VAL_FUNCTION_xxx and true/false

// functions/features available on device
"pbx_unpark"          // <<< Unpark call(*)
"pbx_park"            // <<< Pickup/Park(*)
"gapp_pickup"         // <<< Pickup call(*)
"pbx_take"            // <<< Take call(*)
"gapp_call_forward"   // <<< Call diversion(*)
"pbx_call_routing"    // <<< Call routing(*)
"gapp_pickup_select"  // Pickup select
"gapp_announcement"   // Announcement
"gapp_intercom"       // Intercom
"gapp_vip_call"       // VIP call
"inf"                 // >>> Info (menu item only)
"caller"              // Caller list
"redial"              // Redial list
"box_x"               // >>> Voice box
"box_set_x"           // Voice box settings
"voice_box_menu"      // Settings/Voice mail(*)
"active_features"     // >>> Active features
"msg_x"               // >>> Text message / Jobs / Mails(*)
"omm_def_msg"         // Pre-defined messages
"msg_opt_x"           // Message options
"mel_msg_x"           // Melodies
"mel_msg"             // Normal message
"mel_msgurg"          // Urgent message
"mel_msgsos"          // Alarm message
"vol_msg_x"           // Volume
"vol_msg"             // Normal message
```

```
"vol_msgurg"         // Urgent message
"vol_msgsos"         // Alarm message
"msg_pop"            // Popup
"msg_ovwr"           // Overwrite
"msg_del"            // Delete/Delete all
"directory_x"        // >>> Directories
"vip"                // VIP list
"vip_x"              // Edit/Add VIP list entry
"dir_x"              // Personal directory
"book_x"             // Edit/Add personal directory entry
"quick_x"            // Quick call
"add_to"             // Add to...(VIP/Filter/Personal/Central directory)
"pbx_directory"      // >>> Central directory(*)
"time_x"             // >>> Time functions
"alarm_x"            // Alarm clock 1...3
"appointment_x"      // Appointment 1...3
"tea_timer"          // Timer
"audio_x"            // >>> Audio
"volume_menu"        // Volume settings
"tone_menu"          // Attention tones
"tone_key"           // Key click
"tone_cnf"           // Confirm tones
"tone_end"           // End of menu
"tone_bat"           // Battery warning
"tone_charger"       // Charger beep
"tone_cov"           // Coverage warning
"tone_range"         // Out of range
"tone_wait"          // Call waiting
"tone_sensor"        // Pre alarm (63x only)
"load_environment"   // Loud environment
"audio_hd"           // Audio quality (only 650)
"ring"               // >>> Ringing
"ring_mel_x"         // Ringer melodies
"mel_int"            // Internal call
"mel_ext"            // External call
"mel_unk"            // Unknown number
"mel_nym"            // Anonymous
"mel_ccbs"           // Callback
"mel_recall"         // Recall
"mel_vip"            // VIP call
"mel_special"        // Special call
"mel_sos"            // Emergency call
"mel_alarm"          // Alarm
```

```
"mel_app"            // Appointment
"ring_volume"        // Ringer volume
"vol_int"            // Internal call
"vol_ext"            // External call
"vol_unk"            // Unknown number
"vol_nym"            // Anonymous
"vol_ccbs"           // Callback
"vol_recall"         // Recall
"vol_vip"            // VIP call
"vol_special"        // Special call
"vol_sos"            // Emergency call
"vol_alarm"          // Alarm
"vol_app"            // Appointment
"ring_type_x"        // Ringer type
"play_once"          // Play melody once on/off
"silent_charging"    // Silent charging
"noise_detection"    // Noise detection on/off
"ring_device_x"      // Ringer device
"ring_off"           // Ringer/Buzzer on/off
"ring_hs"            // Corded headset-ring on/off
"ring_vibra"         // Vibrator-ring on/off
"datamanagment"      // >>> Data management / SD Card
"filter_xx"          // >>> Call filter
"filter_x"           // Edit call filter
"system_x"           // >>> System/Subscription
"start_enrol"        // <New system>
"subs_auto"          // Auto search
"subs_sel"           // Select subscription
"subs_stop"          // Stop searching
"subs_opt"           // >Edit subscription
"no_plan"            // Number plan
"ehs_x"              // >>> Enhanced security
"bt_x"               // >>> Bluetooth (only 62x/63x/65x)
"bt_edit_x"          // >Edit Bluetooth
"set_xx"             // >>> User settings
"prog_x"             // Key programming
"disp_x"             // Display settings
"language"           // Language
"font"               // Font settings
"color"              // Color schemes
"scheme"             // Menu structure
"pic_x"              // Idle picture
"illu_x"             // Illumination/Light
```

```
"disp_dim"        // Display dimming
"disp_light"      // Display
"disp_key"        // Keyboard
"disp_charger"    // Charger
"disp_call"       // Conversation
"disp_inf"        // Info message
"disp_msg"        // Text message
"disp_job1"       // Job
"disp_sos"        // SOS alarm
"disp_led"        // LED indications
"led_alife"       // Life indication
"led_incom"       // Incoming call
"led_range"       // Out of range
"led_charge"      // Charge indication
"led_inf"         // Infos
"led_spk"         // Handsfree
"led_app"         // Appointment
"led_alarm"       // Alarm
"list_settings"   // List access
"device_opt"      // Device options
"security_x"      // >>> Security
"lock_x"          // >>> Lock
"keylock"         // Key lock
"pinlock"         // Phone lock
"change_pin"      // Change PIN
"sos_x"           // >>> SOS call
"tms_x"           // >>> Alarm sensor (63x only)
"set_pre_alarm"   // Pre alarm
"set_mandown"     // Mandown
"set_no_move"     // No movement alarm
"set_shock"       // Shock alarm
"set_rep_alarm"   // Repeate alarm
"tms_opt_x"       // >Sensor options
"rst_x"           // >>> Reset to default
"off_menu"        // >>> Off menu
"off"             // >>> Power off
"menu"            // Menu
"ring_toggle"     // Ringer/Buzzer on/off
"profile_x"       // >>> Profiles
"prof_no"         // <No profile>
"prof_norm"       // Normal
"prof_hs"         // Headset
"prof_meet"       // Meeting
```

```
"prof_loud"       // Loud
"prof_my"         // <Profile 05>
"prof_ed_x"       // Edit profiles
"prof_ed_norm"    // Edit Normal
"prof_ed_hs"      // Edit Headset
"prof_ed_meet"    // Edit Meeting
"prof_ed_loud"    // Edit Loud
"usb_mode"        // USB mode
"doa_master"      // DOA master
"f_x"             // <<< XML Applications / Functions 01..10(*)
"pbx_fkeys"       // <<< List of applications / functions(*)
"f_1"             // App/F01 (*)
"f_2"             // App/F02 (*)
"f_3"             // App/F03 (*)
"f_4"             // App/F04 (*)
"f_5"             // App/F05 (*)
"f_6"             // App/F06 (*)
"f_7"             // App/F07 (*)
"f_8"             // App/F08 (*)
"f_9"             // App/F09 (*)
"f_10"            // App/F10 (*)
"vlstx"           // Variable lists
"vlst1"           // Variable list 1
"vlst1_1"         // list 1 item 1
"vlst1_2"         // list 1 item 2
"vlst1_3"         // list 1 item 3
"vlst1_4"         // list 1 item 4
"vlst1_5"         // list 1 item 5
"vlst1_6"         // list 1 item 6
"vlst1_7"         // list 1 item 7
"vlst1_8"         // list 1 item 8
"vlst1_9"         // list 1 item 9
"vlst1_10"        // list 1 item 10
"vlst2"           // Variable list 2
"vlst2_1"         // list 2 item 1
"vlst2_2"         // list 2 item 2
"vlst2_3"         // list 2 item 3
"vlst2_4"         // list 2 item 4
"vlst2_5"         // list 2 item 5
"vlst2_6"         // list 2 item 6
"vlst2_7"         // list 2 item 7
"vlst2_8"         // list 2 item 8
"vlst2_9"         // list 2 item 9
```

```
"vlst2_10"    // List 2 item 10
"menu_x"      // All menus
"opt"         // All dial/call options

// assignment of keys

"UD_KeyAssignmentIdle"              // VAL_KEY_xxx and VAL_FKT_IDLE_xxx
"UD_KeyAssignmentDial"              // VAL_KEY_xxx and VAL_FKT_DIAL_xxx
"UD_KeyAssignmentAlert"             // VAL_KEY_xxx and VAL_FKT_ALERT_xxx
"UD_KeyAssignmentActive"            // VAL_KEY_xxx and VAL_FKT_ACTIVE_xxx
"UD_KeyAssignmentActiveSos"         // VAL_KEY_xxx and VAL_FKT_ACTIVE_SOS_xxx
"UD_KeyAssignmentIdleMaster"        // VAL_KEY_xxx and VAL_FKT_IDLE_xxx
"UD_KeyAssignmentDialMaster"        // VAL_KEY_xxx and VAL_FKT_DIAL_xxx
"UD_KeyAssignmentAlertMaster"       // VAL_KEY_xxx and VAL_FKT_ALERT_xxx
"UD_KeyAssignmentActiveMaster"      // VAL_KEY_xxx and VAL_FKT_ACTIVE_xxx
"UD_KeyAssignmentActiveSosMaster"   // VAL_KEY_xxx and VAL_FKT_ACTIVE_SOS_xxx

// keys available on device

"sos"           // SOS-key (sos)
"side1"         // Side key up (side1)
"side2"         // Side key middle (side2)
"side3"         // Side key down (side3)
"vip"           // Hotkey (vip)
"ok"            // Softkey left (ok)
"esc"           // Softkey middle (esc)
"opt"           // Softkey right (opt)
"left"          // Navi. left (left)
"right"         // Navi. right (right)
"up"            // Navi. up (up)
"down"          // Navi. down (down)
"green"         // Hook off (green)
"red"           // Hook on (red)
"long.sos"      // SOS-key long (long.sos)
"long.side1"    // Side key up long (long.side1)
"long.side2"    // Side key middle long (long.side2)
"long.side3"    // Side key down long (long.side3)
"long.vip"      // Hotkey long (long.vip)
"long.ok"       // Softkey left long (long.ok)
"long.esc"      // Softkey middle long (long.esc)
"long.opt"      // Softkey right long (long.opt)
"long.left"     // Navi. left long (long.left)
"long.right"    // Navi. right long (long.right)
"long.green"    // Hook off long (long.green)
```

```
"long.red"      // Hook on long (long.red)
"long.d0"       // Key 0 long (long.d0)
"long.d1"       // Key 1 long (long.d1)
"long.d2"       // Key 2 long (long.d2)
"long.d3"       // Key 3 long (long.d3)
"long.d4"       // Key 4 long (long.d4)
"long.d5"       // Key 5 long (long.d5)
"long.d6"       // Key 6 long (long.d6)
"long.d7"       // Key 7 long (long.d7)
"long.d8"       // Key 8 long (long.d8)
"long.d9"       // Key 9 long (long.d9)
"long.star"     // Star key long (long.star)
"long.hash"     // Hash key long (long.hash)
"d0"            // Key 0 (d0)
"d1"            // Key 1 (d1)
"d2"            // Key 2 (d2)
"d3"            // Key 3 (d3)
"d4"            // Key 4 (d4)
"d5"            // Key 5 (d5)
"d6"            // Key 6 (d6)
"d7"            // Key 7 (d7)
"d8"            // Key 8 (d8)
"d9"            // Key 9 (d9)
"star"          // Star key (star)
"hash"          // Hash key (hash)
"del"           // C-key (del)
"spk"           // Handsfree (spk)
"long.del"      // C-key long (long.del)
"long.spk"      // Handsfree long (long.spk)

// functions available in IDLE state

"nop"               // <no function>
"prog"              // <key programming>
"menu"              // >>>Menu
"dyn_pbx_option"    // >>>System options / main menu
"pbx_server_menu"   // >>>Server menu
"alarm_time"        // Time/Alarms
"alarm"             // Alarm clock
"appointment"       // Appointment
"tea_timer"         // Timer
"directories"       // Directories (Personal/Central/VIP-list)
"get_name"          // Get name from personal directory
"book"              // Personal directory
```

"gappp_directory"   //   Central directory (obsolete)
"pbx_directory"   //   Central directory(*)
"vip"   //   VIP list
"quick0"   //   Quick call list
"sos_menu"   //   SOS call: with confirmation
"sos"   //   SOS call
"sos_loc"   //   Localisation alarm
"shock"   //   Shock detection
"alarm_call"   //   Alarm call
"sensor_menu"   //   Alarm sensor
"navi"   //   Navigation key
"inf"   //   (i) Info menu
"MenuInfNew"   //   (i) New infos
"voice_box"   //   Voice box
"caller"   //   Caller list
"redial"   //   Redial list
"omm_jobs"   //   Job list
"BestMsg"   //   Text messages
"omm_inbox"   //   Inbox/Text messages
"omm_outbox"   //   Outbox/Text messages
"omm_def_msg"   //   Pre-defined messages
"txt_send"   //   Send new text message
"active_features"   //   Active Handset features
"feature_access_code" //   Feature access codes(*)
"pbx_unpark"   //   Unpark call(*)
"gappp_pickup"   //   Pickup call(*)
"pbx_take"   //   Take call(*)
"locating_editor"   //   Locating(*)
"pbx_presence"   //   Presence(*)
"pbx_dnd"   //   Call protection(*)
"gappp_call_forward"   //   Call diversion(*)
"pbx_call_routing"   //   Call routing(*)
"profile"   //   Profile
"datamanagment"   //   Data managment
"keylock"   //   Key lock
"pinlock"   //   Pin/Phone lock
"light_toggle"   //   Light on/off
"bt"   //   Bluetooth settings
"bt_state"   //   BT status (on/off)
"ring_off"   //   Ringer on/off
"vol_ok"   //   Volume settings
"audio_hd"   //   HiQ audio on/off
"off"   //   Power off

"predial"   // Please dial editor
"version"   // Version info
"filter_menu"   // Call filter
"filter_state"   // Call filter state
"pbx_fkeys"   // XML Applications
"f_1"   // App 1
"f_2"   // App 2
"f_3"   // App 3
"f_4"   // App 4
"f_5"   // App 5
"f_6"   // App 6
"f_7"   // App 7
"f_8"   // App 8
"f_9"   // App 9
"f_10"   // App 10
"vlstx"   // Variable lists
"vlst1"   // Variable list 1
"vlst1_1"   // List 1 item 1
"vlst1_2"   // List 1 item 2
"vlst1_3"   // List 1 item 3
"vlst1_4"   // List 1 item 4
"vlst1_5"   // List 1 item 5
"vlst1_6"   // List 1 item 6
"vlst1_7"   // List 1 item 7
"vlst1_8"   // List 1 item 8
"vlst1_9"   // List 1 item 9
"vlst1_10"   // List 1 item 10
"vlst2"   // Variable list 2
"vlst2_1"   // List 2 item 1
"vlst2_2"   // List 2 item 2
"vlst2_3"   // List 2 item 3
"vlst2_4"   // List 2 item 4
"vlst2_5"   // List 2 item 5
"vlst2_6"   // List 2 item 6
"vlst2_7"   // List 2 item 7
"vlst2_8"   // List 2 item 8
"vlst2_9"   // List 2 item 9
"vlst2_10"   // List 2 item 10
                       // functions available in DIAL state
"nop"   // <no function>
"sk_dyn1"   // <dynamic soft-key>
"caller"   // Caller list

```
"redial"              // Redial list
"get_name"            // Get name from personal directory
"book_req"            // Personal directory
"gapp_directory"      //         Central directory
"pbx_directory"       // Central directory (obsolete)
"opt_pickup_select"   // Central directory(*)
"vip"                 // VIP list
"add_to"              // Add to... (VIP-, Filter-list, Personal directory)
"gapp_pickup_select"  // Pickup select
"gapp_vip_call"       // VIP call
"gapp_announcement"   // Announcement
"gapp_intercom"       // Intercom
"vlstx"               // Variable lists
"vlst1"               // Variable list 1
"vlst1_1"             // list 1 item 1
"vlst1_2"             // list 1 item 2
"vlst1_3"             // list 1 item 3
"vlst1_4"             // list 1 item 4
"vlst1_5"             // list 1 item 5
"vlst1_6"             // list 1 item 6
"vlst1_7"             // list 1 item 7
"vlst1_8"             // list 1 item 8
"vlst1_9"             // list 1 item 9
"vlst1_10"            // list 1 item 10
"vlst2"               // Variable list 2
"vlst2_1"             // list 2 item 1
"vlst2_2"             // list 2 item 2
"vlst2_3"             // list 2 item 3
"vlst2_4"             // list 2 item 4
"vlst2_5"             // list 2 item 5
"vlst2_6"             // list 2 item 6
"vlst2_7"             // list 2 item 7
"vlst2_8"             // list 2 item 8
"vlst2_9"             // list 2 item 9
"vlst2_10"            // list 2 item 10

// functions available in ALERTING state

"nop"                 // <no function>
"sk_dyn1"             // <dynamic soft-key>
"opt"                 // >>>Call options
"acc"                 // Accept call / Hook off
"rej"                 // Reject call / Hook on
"ring_off"            // Ringing off
"add_to"              // Add to... (VIP-, Filter-list, Personal directory)
```

```
"opt_ccbs"            // Callback CCBS
"opt_ccnr"            // Callback CCNR
"opt_mcid"            // Intercept MCID
"opt_pickup"          // Pickup call
"opt_pickup_select"   // Pickup select
"opt_take"            // Take call
"opt_park"            // Park call/Unpark call
"vlstx"               // Variable lists
"vlst1"               // Variable list 1
"vlst1_1"             // list 1 item 1
"vlst1_2"             // list 1 item 2
"vlst1_3"             // list 1 item 3
"vlst1_4"             // list 1 item 4
"vlst1_5"             // list 1 item 5
"vlst1_6"             // list 1 item 6
"vlst1_7"             // list 1 item 7
"vlst1_8"             // list 1 item 8
"vlst1_9"             // list 1 item 9
"vlst1_10"            // list 1 item 10
"vlst2"               // Variable list 2
"vlst2_1"             // list 2 item 1
"vlst2_2"             // list 2 item 2
"vlst2_3"             // list 2 item 3
"vlst2_4"             // list 2 item 4
"vlst2_5"             // list 2 item 5
"vlst2_6"             // list 2 item 6
"vlst2_7"             // list 2 item 7
"vlst2_8"             // list 2 item 8
"vlst2_9"             // list 2 item 9
"vlst2_10"            // list 2 item 10

// functions available in ACTIVE state

"nop"                 // <no function>
"sk_dyn1"             // <dynamic soft-key>
"opt"                 // >>>Call options
"pbx_server_menu"     // >>>Server menu(*)
"feature_access_code" // >>>Feature access codes(*)
"dial_r"              // (R) Register recall
"opt_ect"             // Transfer call
"opt_brokering"       // Brokering
"opt_hold"            // Hold call
"opt_3pty"            // Conference start/stopp
"opt_park"            // Park call/Unpark call
```

```
"rel"                 // Release call / Hook on
"add_to"              // Add to... (VIP-, Filter-list, Personal directory)
"book"                // Personal directory
"gapp_directory"      // Central directory (obsolete)
"pbx_directory"       // Central directory(*)
"vip"                 // VIP list
"quick0"              // Quick call list
"filter"              // Call filter list
"caller"              // Caller list
"redial"              // Redial list
"txt_send"            // Send new text message
"vol_ok"              // Volume settings
"vol_up"              // Volume +
"vol_down"            // Volume -
"mute"                // Microphone on/off
"audio_hd"            // HiQ audio on/off
"bt_toggle"           // Transfer BT <-> Handset
"opt_ccbs"            // Callback CCBS
"opt_ccnr"            // Callback CCNR
"opt_mcid"            // Intercept MCID
"opt_pickup"          // Pickup
"opt_pickup_select"   // Pickup select
"opt_take"            // Take call
"vlstx"               // Variable lists
"vlst1"               // Variable list 1
"vlst1_1"             // List 1 item 1
"vlst1_2"             // List 1 item 2
"vlst1_3"             // List 1 item 3
"vlst1_4"             // List 1 item 4
"vlst1_5"             // List 1 item 5
"vlst1_6"             // List 1 item 6
"vlst1_7"             // List 1 item 7
"vlst1_8"             // List 1 item 8
"vlst1_9"             // List 1 item 9
"vlst1_10"            // List 1 item 10
"vlst2"               // Variable list 2
"vlst2_1"             // List 2 item 1
"vlst2_2"             // List 2 item 2
"vlst2_3"             // List 2 item 3
"vlst2_4"             // List 2 item 4
"vlst2_5"             // List 2 item 5
"vlst2_6"             // List 2 item 6
"vlst2_7"             // List 2 item 7
"vlst2_8"             // List 2 item 8
"vlst2_9"             // List 2 item 9
"vlst2_10"            // List 2 item 10
```

```
// functions available in ACTIVE_SOS state
"nop"                 // <no function>
"sk_dyn1"             // <dynamic soft-key>
"opt"                 // >>>Call options
"pbx_server_menu"     // >>>Server menu(*)
"feature_access_code" // >>>feature access codes(*)
"dial_r"              // (R) Register recall
"opt_ect"             // Transfer call
"opt_brokering"       // Brokering
"opt_hold"            // Hold call
"opt_3pty"            // Conference start/stop
"opt_park"            // Park call/Unpark call
"rel"                 // Release call / Hook on
"add_to"              // Add to... (VIP-, Filter-list, Personal directory)
"book"                // Personal directory
"gapp_directory"      // Central directory (obsolete)
"pbx_directory"       // Central directory(*)
"vip"                 // VIP list
"quick0"              // Quick call list
"filter"              // Call filter list
"caller"              // Caller list
"redial"              // Redial list
"txt_send"            // Send new text message
"vol_ok"              // Volume settings
"vol_up"              // Volume +
"vol_down"            // Volume -
"mute"                // Microphone on/off
"audio_hd"            // HiQ audio on/off
"bt_toggle"           // Transfer BT <-> Handset
"opt_ccbs"            // Callback CCBS
"opt_ccnr"            // Callback CCNR
"opt_mcid"            // Intercept MCID
"opt_take"            // Take call
"opt_pickup_select"   // Pickup select
"opt_pickup"          // Pickup
"predial_hook_dyn"    // Dial editor
"dial_0"              // Dial 0
"dial_1"              // Dial 1
"dial_2"              // Dial 2
```

```
"dial_3"      // Dial 3
"dial_4"      // Dial 4
"dial_5"      // Dial 5
"dial_6"      // Dial 6
"dial_7"      // Dial 7
"dial_8"      // Dial 8
"dial_9"      // Dial 9
"dial_star"   // Dial *
"dial_hash"   // Dial #
"dial_dtmf"   // Dial DTMF
"vlstx"       // Variable lists
"vlst1"       // Variable list 1
"vlst1_1"     // list 1 item 1
"vlst1_2"     // list 1 item 2
"vlst1_3"     // list 1 item 3
"vlst1_4"     // list 1 item 4
"vlst1_5"     // list 1 item 5
"vlst1_6"     // list 1 item 6
"vlst1_7"     // list 1 item 7
"vlst1_8"     // list 1 item 8
"vlst1_9"     // list 1 item 9
"vlst1_10"    // list 1 item 10
"vlst2"       // Variable list 2
"vlst2_1"     // list 2 item 1
"vlst2_2"     // list 2 item 2
"vlst2_3"     // list 2 item 3
"vlst2_4"     // list 2 item 4
"vlst2_5"     // list 2 item 5
"vlst2_6"     // list 2 item 6
"vlst2_7"     // list 2 item 7
"vlst2_8"     // list 2 item 8
"vlst2_9"     // list 2 item 9
"vlst2_10"    // list 2 item 10

"UD_VlistName"       // <list-index 1..2> <utf8-string>
"UD_VlistShortName"  // <list-index 1..2> <utf8-string>
"UD_VlistSubItems"   // <list-index 1..2> <boolean>

// list-index     item-index     longname         function-id
// shortname/icon  handsfree     number-to-dial
// 1..2           1..10         visible(idle,dial,alert,active
"UD_VlistEntry"   <string>      <utf8-string>    <utf8-string>   VAL_FKT_VLIST_xxx
                  <utf8-string> <boolean>        <utf8-string>   true/false/1/0
                                                 <4-digit-string-of(0,1)>
```

```
// functions available in VLIST

"x"               // Dummy-Function-ID
"vlst1"           // Variable list 1
"vlst2"           // Variable list 2
"menu"            // Menu
"active_features" // Active Handset features
"alarm"           // Alarm clock
"appointment"     // Appointment
"tea_timer"       // Timer
"show_time_date"  // Date/Time
"bt"              // Bluetooth settings
"bt_state"        // BT status (on/off)
"datamanagment"   // Data managment
"keylock"         // Key lock
"pinlock"         // Pin/Phone lock
"profile"         // Profile
"predial"         // Please dial editor
"off"             // Power off
"off_menu"        // Off menu
"ring_off"        // Ringer on/off
"audio_hd"        // HiQ audio on/off
"vol_ok"          // Volume settings
"light_toggle"    // Light on/off
"version"         // Version info
"navi"            // Navigation key
"inf"             // (i) Info menu
"MenuInfNew"      // (i) New infos
"voice_box"       // Voice box
"caller"          // Caller list
"redial"          // Redial list
"pbx_email"       // Email list
"pbx_fax"         // Fax list
"omm_jobs"        // Job list
"BestMsg"         // Text messages
"omm_inbox"       // Inbox/Text messages
"omm_outbox"      // Outbox/Text messages
"omm_def_msg"     // Pre-defined messages
"txt_send"        // Send new text message
"gapp_cost"       // Cost infos
"pbx_feature"     // Active PBX features
"filter_menu"     // Call filter
"filter_state"    // Call filter state
```

"filter_list"   //   Call filter list
"directories"   //   Directories (Personal/Central/VIP-list)
"get_name"   //   Get name from personal directory
"book"   //   Personal directory
"gappp_intern"   //   Internal directory
"pbx_directory"   //   Central directory
"vip"   //   VIP list
"feature_access_code" //   Feature access codes
"pbx_reception"   //   Hotel reception
"quick0"   //   Quick call list
"sos_menu"   //   SOS call: with confirmation
"sos"   //   SOS call
"sos_loc"   //   Localisation alarm
"shock"   //   Shock detection
"alarm_call"   //   Alarm call
"sensor_menu"   //   Alarm sensor
"dyn_pbx_option"   //   System options / Main menu
"pbx_server_menu"   //   Server menu
"pbx_options"   //   System Options
"gappp_call_forward"   //   Call diversion
"pbx_call_routing"   //   Call routing
"pbx_dnd"   //   Call protection
"pbx_presence"   //   Presence
"locating_editor"   //   Locating
"pbx_take"   //   Take call
"pbx_unpark"   //   Unpark call
"pbx_park"   //   Park/Pickup
"gappp_pickup"   //   Pickup call
"pbx_fkeys"   //   XML Applications
"f_1"   //   App 1
"f_2"   //   App 2
"f_3"   //   App 3
"f_4"   //   App 4
"f_5"   //   App 5
"f_6"   //   App 6
"f_7"   //   App 7
"f_8"   //   App 8
"f_9"   //   App 9
"f_10"   //   App 10
"gappp_door"   //   Door opener
"gappp_door1"   //   Door 1
"gappp_door2"   //   Door 2
"gappp_pickup_select" //   Pickup select

"gappp_announcement"   //   Announcement
"gappp_intercom"   //   Intercom
"gappp_vip_call"   //   VIP call
"suppress_no"   //   Suppress no on/off
"sel_line"   //   Select line
"line_1"   //   L1
"line_2"   //   L2
"line_3"   //   L3
"line_4"   //   L4
"line_5"   //   L5
"line_6"   //   L6
"line_7"   //   L7
"line_8"   //   L8
"line_9"   //   L9
"line_10"   //   L10
"sk_dyn1"   //   <dynamic soft-key>
"opt"   //   Call options
"add_to"   //   Add to... (VIP-, Filter-list, Personal directory)
"filter"   //   Call filter list
"opt_called_lines"   //   Called lines
"dial_r"   //   (R) Register recall
"opt_ect"   //   Transfer call
"opt_deflect"   //   Deflect call
"opt_ccbs"   //   Callback CCBS
"opt_ccnr"   //   Callback CCNR
"opt_mcid"   //   Intercept MCID
"opt_receive"   //   Receive call
"opt_reject"   //   Reject call
"opt_int"   //   DECT intern
"opt_brokering"   //   Brokering
"opt_hold"   //   Hold call
"opt_3pty"   //   Conference start/stopp
"opt_record"   //   Recording start/stopp
"opt_retrieve"   //   Retrieve call in hold
"opt_privious"   //   Previous call
"opt_release"   //   Release call
"rel"   //   Release call / Hook on
"pbx_park"   //   Park call/Unpark call
"opt_booking_no"   //   Booking no
"vol_up"   //   Volume +
"vol_down"   //   Volume -
"mute"   //   Microphone on/off
"bt_toggle"   //   Transfer BT <-> Handset

13.6 PROTOCOLS AND PORTS

OpenMobility Manager

Protocol		Server port	Client port
HTTPS server	tcp server	443 or as configured	any
HTTP server (redirect to https)	tcp server	80 or as configured	any
HTTP/HTTPS client for the SIP-DECT XML terminal interface	tcp	80/443	> 1024
RFP control protocol	tcp server	16321	any
OMM Standby	tcp server	16322	any
OM AXI	tcp server	12622	any
DECTnet monitor	tcp server	8106	any
LDAP	tcp client	389 or as configured	>=1024 (see note)
TFTP client	udp	69 / given by server	>=1024 (see note)
HTTP client	tcp	80 or as configured	>=1024 (see note)
HTTPS client	tcp	443 or as configured	>=1024 (see note)
explicit FTPS client	tcp	21 or as configured	>=1024 (see note)
implicit FTPS client	tcp	990 or as configured	>=1024 (see note)
OM AXI server TCP	tcp server	12621	Any
OM AXI server TLS	tcp server	12622	Any
SIP	udp	5060	as configured
Integrated Conference Server (ICS)	udp	5062	as configured
Telnet (OMM console, Linux server based OMM only)	tcp server	localhost 8107	localhost any

Note: Unbound ports start at port 1024.

IP-RFP

Protocol		Server port	Client port
HTTP/HTTPS client for the SIP-DECT XML terminal interface	tcp	80/443	> 1024
RFP control protocol	tcp client	16321	>=1024 (see note)
HTTP server (redirect to OMM web server (http))	tcp server	80 or as configured	Any
SSH server	tcp server	22	Any
DHCP client	udp	67	68

Protocol		IP-RFP	
		Server port	**Client port**
TFTP client	udp	69 / given by server	>=1024 (see note)
OMCFG server	udp	64000	64000
NTP client	udp	123	123
Syslog client	udp	514 or as configured	514
DNS client	udp	53	>=1024 (see note)
SNMP agent (server)	udp	161	Any
SNMP trap agent (client)	udp	>=1024 (see note)	162
RSXport (debug only)	tcp server	38477	Any
RTP/RTCP (server)	udp	Range of [RTP port base + 71] even ports for RTP, odd ports for RTCP. Port base is 16320 or as configured.	Any
RTP/RTCP (client)	udp	any	Range of [RTP port base + 71] even ports for RTP, odd ports for RTCP. Port base is 16320 or as configured.
Integrated Conference Server (ICS) RTP/RTCP (server)		Range of [ICS RTP port base + 2 * no. conf. channels] even ports for RTP, odd ports for RTCP. ICS Port base is end of RTP range plus 1.	Any
Integrated Conference Server (ICS) RTP/RTCP (client)		any	Range of [ICS RTP port base + 2 * no. conf. channels] even ports for RTP, odd ports for RTCP. ICS Port base is end of RTP range plus 1.
Network Analysis Probe	tcp server	18215	Any

Note: Unbound ports start at port 1024.

13.7 ABBREVIATIONS

AC	Authentication Code
ADPCM	Adaptive Differential Pulse Code Modulation
COA	Configuration Over Air
DECT	Digital Enhanced Cordless Telecommunication
DHCP	Dynamic Host Configuration Protocol
DSP	Digital Signal Processor
FCC	Federal Communications Commission
GAP	Generic Access Profile
IMA	Integrated Messaging and Alerting Service
IPBX	IP PBX, a telephony system using IP / VoIP
IPEI	International Portable Equipment Identity
OM	OpenMobility
OM AXI	OM Application XML Interface
OMC	OM Configurator
OML	OM Locating
OMM	OpenMobility Manager
OMP	OM Management Portal
PARK	Portable Access Rights Key
PBX	Private Branch Exchange, a customer premises telephony system
PP	Portable Part (DECT phone or device)
RCS	Redirection and Configuration Service
RFP	Radio Fixed Part (DECT base station)
RTP	Real Time Protocol
RTCP	Real Time Control Protocol
TFTP	Trivial File Transfer Protocol

13.8 DEFINITIONS

Asterisk	Asterisk is a complete Open Source PBX in software. It runs on Linux, BSD and MacOSX and provides many features. Asterisk supports voice over IP in many protocols, and can interoperate with almost all standards-based telephony equipment.
Base station	Please see: RFP or Radio Fixed Part
DECT	**D**igital **E**nhanced **C**ordless **T**elecommunication The standard (ETS 300 175) essentially specifies the air interface, known as the radio interface. Voice and data can both be transmitted via this interface. Its technical key characteristics for Europe are: Frequency range: Approx. 1880 – 1900 MHz (approximately 20 MHz bandwidth) carrier frequencies (1728 kHz spacing) with 12 time slots each Doubling the number of time slots (to 24) using the TDMA process Net data rate per channel of 32 kbps (for voice transmission using ADPCM) Voice coding using the ADPCM method Its technical key characteristics for North American are: Frequency range: Approx. 1920 – 1930 MHz (approximately 10 MHz bandwidth) 5 carrier frequencies (1728 kHz spacing) with 12 time slots each) Doubling the number of time slots (to 24) using the TDMA process Net data rate per channel of 32 kbps (for voice transmission using ADPCM) Voice coding using the ADPCM method
GAP	**G**eneric **A**ccess **P**rofile The GAP standard (ETS 300 444) is based on the same technology as DECT, but is limited to the most important basic features. This standard was created in order to allow telephones of different vendors to be used on any type of DECT system. It thus represents the smallest common denominator of all manufacturer-specific variants of the DECT standard. An important limitation in the GAP standard is that external handover is not possible. For this reason connection handover is used, which is supported by GAP terminals. The operation of GAP-capable telephones is comparable to that of analogue terminals. For example, features can be called up via "*" and "#" procedures.
Handover	A handover is similar to roaming, but occurs during an ongoing call. A handover normally takes place "in the background", without disrupting the call (seamless handover).

IPEI	**I**nternational **P**ortable **E**quipment **I**dentity 13-digit identification code for DECT phones Example: 00019 0592015 3 (the final digit is the checksum). The code is represented in decimal form. This code is globally unique.
PARK	**P**ortable **A**ccess **R**ights **K**ey Access code for the Portable Part. This code determines whether a DECT phone can access a particular DECT system. Used for unique selection of a dedicated the system from a DECT phone at enrolment/subscription time. Provided via the PARK online service and unique to each SIP-DECT deployment.
Radio Fixed Part (RFP)	An RFP provides a DECT radio cell and terminates the radio link from the portable DECT device. One or more RFPs build the area of radio coverage.
Roaming	While in motion, the DECT phone performs ongoing measurements to determine which RFP is best received. The one that can be best received is defined as the active RFP. To prevent the DECT phone from rapidly switching back and forth between two RFPs that have similar signal strength, certain threshold values are in effect.

13.9 REFERENCES

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