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INTEROPERABILITY REPORT

Ascom IPDECT

Innovaphone IP302, IP6000, IP810 and IP6010, firmware version 12r1 IP-PBX Integration (H323)

Ascom IPDECT, Software version 9.0.6

Ascom, Gothenburg September 2016

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INTRODUCTION

This interoperability report describes test results and optimal configuration of Ascom IPDECT towards the Innovaphone IP-PBXs. The document should be used in conjunction with configuration guide(s) from Innovaphone and Ascom.

About Ascom

Ascom Wireless Solutions (<u>www.ascom.com/ws</u>) is a leading provider of on-site wireless communications for key segments such as hospitals, manufacturing industries, retail and hotels. More than 75,000 systems are installed at major companies all over the world. The company offers a broad range of voice and professional messaging solutions, creating value for customers by supporting and optimizing their Mission-Critical processes. The solutions are based on VoWiFi, IP-DECT, DECT, Nurse Call and paging technologies, smartly integrated into existing enterprise systems. The company has subsidiaries in 19 countries and 1,600 employees worldwide. Founded in the 1950s and based in Gothenburg, Sweden, Ascom Wireless Solutions is part of the Ascom Group, listed on the Swiss Stock Exchange.

Innovaphone

Innovaphone develops pure IP telephone systems under the name of "innovaphone PBX", uniting security and high availability with the flexibility and scalability of IP. The innovaphone PBX hardware comprises gateways and a series of IP telephones which are developed entirely in Germany and manufactured to a large extent in Europe. The entire product range is based on the unified hardware and software platform which is the core of the innovaphone product philosophy. The number of activated licenses can be determined as required which renders the solution suitable for companies of any size: from small companies over medium size companies with several branch offices to large enterprises. The innovaphone IP telephone systems are available exclusively through authorized distributors and resellers.

Innovaphone has been playing a decisive role in the development of IP telephony ever since the company was founded in 1997. Head office is located in Sindelfingen, South Germany. For further information, see the following URL: <u>http://www.innovaphone.com/</u>



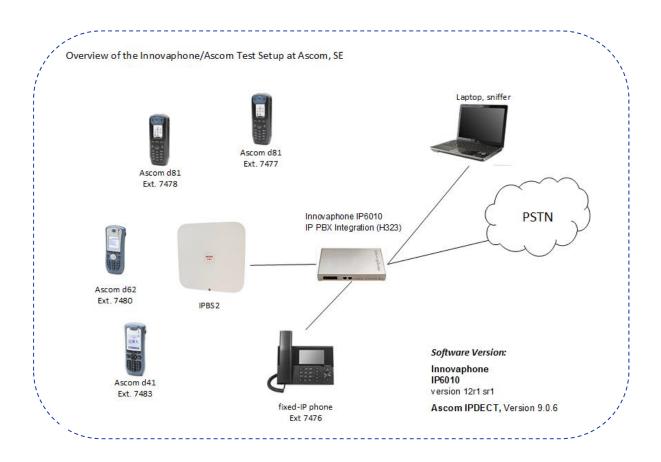
SITE INFORMATION

Test Site: Ascom HQ Gothenburg Sweden

Participant(s):

Johan Andrén (Ascom HQ, SE)

Test Topology





SUMMARY

Test overview

Test cases in nearly all areas with regard to Ascom IPDECT and Innovaphone IP-PBX passed successfully. Overall, the conclusion has to be that the H.323 integration of Ascom IPDECT with IP6010 is very good.

Queries about licensing should be directed to Innovaphone. Please also see "

APPENDIX A: TEST CONFIGURATIONS" for further details.

High Level Functionality	Result v.11 r2
Basic Call	OK
DTMF	OK*
Hold, Retrieve, Enquiry and Brokering	ОК
Attended Transfer	ОК
Blind-transfer	ОК
Semi-attended Transfer	ОК
Call Forward Unconditional	ОК
Call Forward No Reply	ОК
Call Forward Busy	ОК
Call Waiting	ОК
Message Waiting Indication	ОК
Group call	OK**
Do Not Disturb	ОК
Calling Line/Name Identification	ОК
Connected Line/Name Identification	ОК

*Some Issues with Inband DTMF, See Known issues for details.

**Minor issue with group call, See Known issues for details.

General conclusions

Ascom interoperability verification produced good results towards Innovaphone IP6010 version 12r1 with a few exceptions, refer to "*Known Issue(s)*" section on page 6.

Ascom IPDECT handsets were configured to register at the IP-PBX using endpoint numbers. The codec of choice for these tests was G.711A/20ms, while DTMF signaling was transmitted according RFC 2833. Parameter settings are elaborated upon in the "TEST RESULTS" section on page 6 for each platform respectively.



TEST RESULTS

Innovaphone IP-PBX Integration – Ascom IPDECT

- Innovaphone IP-PBX version 12r1sr1
- Ascom IPDECT, 9.0.6

Signaling Protocol:

• H.323

Innovaphone IP6010 (results also valid for IP302, IP810 and IP6000):

 Settings are based on "Ascom VoIP Gateway: Installation and Operation Manual" (TD 92326GB), pp. 62-100

Ascom IPDECT:

- Endpoint ID" and "Endpoint Number" corresponds to name and number in the user object
- Default H323 settings

Known Issue(s)

- No timeout when IPDECT calls another IPDECT that does not answer both during basic call and call waiting active. This is a PBX issue and per design.
- Inband DTMF doesn't work. Recommend to use DTMF according to RFC2833 instead. Handled in Ascom ticket IPDECT-2326.
- When you call a group call internally you will see the name on the answering extension. Handled by ticket IPDECT-2467



Test Areas

Basic Call, DTMF:

• Inband DTMF doesn't work, Recommend to use DTMF according to RFC2833 See known issue's for more information.

Basic Call, Portable Unavailable:

• Good results overall

Basic Call, Stability:

• Good results overall

Three-party Services:

• Good results overall

Call Diversion:

• Good results overall

Telephony Feature

• Good results overall, except there are no timeout when one IPDECT handset calls another IPDECT handset that doesn't answer. See know issue's for more information.

Detailed test records

Ascom IPDECT with Innovaphone v.12r1

Pass	87
Fail	5
NOT TESTED	б
See Comments	б
Total	104



Miscellaneous

Please refer to IP Telephony Services (IP-DECT/VoWiFi) available on the Ascom Extranet for detailed Information regarding each test case.

See URL (requires login): https://www.ascom-ws.com/AscomPartnerWeb/en/startpage/Sales-tools/Interoperability



APPENDIX A: TEST CONFIGURATIONS

Innovaphone IP6010, 12r1

Please find the screen shots reflecting the management interface and some aspects of setting up the PBX application on the IP6010.

General -> info

10.30.32.76: innovaphone IP6010											
Genera	al	Interfaces	IP4	IP6	Services	PBX	Gateway	Linux	Maintenance		
	nfo	Admin	Syscli	ent	Compact-F	ash	License K	(erberos	Certificates		
Version	12r1	sr1 IP6010(12.087	5], Boo	otcode[12087	5], Haro	dware[600]				
SerialNo	0090	033290133 (e0)								
DRAM	512	MB									
FLASH	32 M	(B									
Coder	60 C	hannels of C	9.711,G	6.729,0	3.723						
Conference	60 C	hannels									
Fax	10 C	hannels									
HDLC	2 Ch	annels									
Sync	PRI1	1-L1									
Power Source	ETH	0									
Power Off Loop	Disa	bled									
Temperature	51.0	° Celsius									
SNTP Server	172.3	20.8.145									
Time	02.0	9.2016 15:2	9								
Uptime	0d 2	3h 39m 22s									

IP->Settings: DSCP markings used for signaling and RTP

10.30.3	32.76: innovaphone IP6010
ᆇ o	General Interfaces IP4 IP6 Services PBX Gateway Linux Maintenance
	General ETH0 ETH1 PPP NAT
Settings Routing ARP STUN	TOS Priority - RTP Data 0xb8 TOS Priority - Signaling 0x68 First UDP-RTP Port Number of Ports First/Last 16384 / 32767 First UDP-NAT Port Number of Ports First/Last 0 / 0 -Local Networks



PBX->General: General Settings

10.30.32.76: innovaphone IP6010

>	General Interfaces IP4 IP6 Services PBX Gateway Linux Maintenance
	Config Objects Registrations Calls SOAP myPBX Dyn-PBXs
General Security	PBX Mode Master
Filter myPBX	System Name PBX0 Use as Domain
Import	PBX Name Intop DNS
Export	Unknown Registrations
	Reverse Proxy Addresses Assume TLS
	Music On Hold URL
	External Music On Hold
	Response Timeout 15
	Dial Complete Timeout 4
	No of Regs w/o Pwd. 2
	Recall Timeout 10
	Max Call Duration (h)
	Max WebRTC calls - Usage: 0 (max 0)
	Group Default Visibility Online Status Presence On the phone Presence note Calls Calls with Number
	Presence with Alert
	Enable External Transfer
	No CLIR on internal calls
	Media Relay Off 🔽 - No Media Relay if Addresses are identical or private
	Generate CDRs
	Route Root-Node External Calls to EXTERN For calls from local PBX only
	Route PBX-Node External Calls to EXTERN
	Route Internal Calls to
	Escape Dialtone from
	Prefix for Intt/Ntt/Subscriber 00 0 31
	Tones EUROPE-PBX V
	Log Calls
	- Licenses
	Name CountUsage Local Slaves Port12 30 4 0
	Voicemail12 30 0 0 0
	Registrations.Ascom12 41248 9 9 0
	OK Cancel

PBX->Objects: PBX objects added to PBX application

10.30.32.76: innova	aphone IP6010						
General Interfaces	IP4 IP6 Services PBX	Gateway	Linux Maint	enance			
General Interlaces				enance			
Config Objec	ts Registrations Calls S	ioap myPBX	Dyn-PBXs				
	Long Name	Name «		Node	«PBX «Filter	Groups	- CI
User v new	conf serverA	conf serverA	8888	root	Intop	+ Groups	«Ci
show	Tel 7484	Tel 7484	7484 7484	root	Intop	+	÷
Inter		7483	74837483		· ·		+
- Intop	d41 7483			root	Intop	FE	
	i82 7482	7482	74827482	root	Intop	FE	+
	i62 7481	7481	74817481	root	Intop	FE	+
	d62 7480	7480	74807480	root	Intop	FE	+
	7479	7479	74797479	root	Intop	FE*	+
	d81 7478	7478	74787478	root	Intop	FE	+
	d81 7477	7477	74777477	root	Intop	+	+
	Fixed 7476	Fixed 7476	74767476	root	Intop	+	+
	7475	7475	74757475	root	Intop	+	+
	i62 7474	7474	74747474	root	Intop	+	+
	Myco 7473	7473	74737473	root	Intop	+	+
	Myco 7472	7472	74727472	root	Intop	+	+
	Myco 7471	7471	74717471	root	Intop	+	+
	Myco 7470	7470	74707470	root	Intop	+	+
	UC	UC	5555 5555	root	Intop	+	+
	Voicemail	Voicemail	4298	root	Intop	+	+
	2500	2500	2500 2500	root	Intop	+	+
	feature codes#unset_presence		041	root	Intop		
	feature codes#set_presence		040	root	Intop		
	feature codes#cfb_activate		*87*	root	Intop		
	feature codes#announce		*82*	root	Intop		
	feature codes#cfnr_activate		*81*	root	Intop		
	feature codes#call_completion		*37*	root	Intop		
	*333	*333	*333	root	Intop	+	+
	feature codes#join_all_groups		*32#	root	Intop		
	feature codes#join_group		*31*	root	Intop		
	feature codes#cfu_activate		*21*	root	Intop		
	feature codes#park_to		*17	root	Intop		
	feature codes#park		*16	root	Intop		
	feature codes#pickup_directed		*0*	root	Intop		
	feature codes#pickup_group feature codes#cfb_deactivate		*0# #87#	root	Intop		
				root	Intop		
	feature codes#cfnr_deactivate feature codes#cancel_cc		#81# #37*	root	Intop		
	feature codes#leave_all_group		#32#	root	Intop		
	feature codes#leave_group	-	#31*	root	Intop		
	feature codes#cfu_deactivate		#21#	root	Intop		
	feature codes#unpark from		#17	root	Intop		
	feature codes#unpark		#16	root	Intop		
	BC conf	innoconf	innoconf		Intop	CB*	+
	conf voicemail B	conf voicemail 8	3	root	Intop	CB	+
	DECT			root	Intop	+	+
	EXTERN	EXTERN	EXTERN		Intop	+	+
	feature codes			root	Intop	+	+
					- and	-	1

PBX->Objects: Adding a new user object

<i>e</i> Edit User	- Internet Exp	lorer					_		×
a http://10.3	0.32.76/PBX)/ADMIN	/mod_cmd_log	jin.xml?cn	nd=show&	&user-gui	d=2b0)ee09074	dc5501
General Us	er License	DECT							
Туре	User	\checkmark							
Description	d81 7477				Hide from I				
Long Name	d81 7477		Display Name	DS A7					
Name	7477		Number	7477		Critical			
E-Mail	7477 ;								
Password			retype Password						
Node	root 🗸		Local						
PBX	Intop 🗸								
Send Number			URL						
Group Indications									
Config Template	\checkmark								
- Devices									
Hardware Id	Nam	e		_	ter TLS only	No Mobilit	y Config	g VOIP	
7477									
OK Car	ncel Apply	Delet	e Help						

PBX->Objects: Adding a gateway object ("EXTERN")

🧟 Gateway - Internet Explor	rer				
a http://10.30.32.76/PBX0/	ADMIN/mod_cmd_login.xm	l?cmd=show&user-gu	id=b4388902	2cedd550195f80	090331e1c3b&loc=*&filter='
General Gateway					
Туре	Gateway 🗸				
Description				Hide from LDA	NP 🗌
Long Name	EXTERN	Display Name			
Name	EXTERN	Number			Critical
E-Mail	EXTERN ;				
Password		retype Password			
Node	root 🗸	Local			
PBX	Intop 🗸	Reject ext. Calls			
Max Calls		Response Timeout			
Hide Connected Endpoint					
Reporting					
Voicemail					
-Devices					
Hardware Id	Name	PBX Pwd No IP F	Filter TLS o	only No Mobility	y Config VOIP
EXTERN					
OK Cancel	Apply Delete	Help			

Gateway->GK: Binding an interface to the gateway object ("EXTERN")

10.30.32.76: innovaphone IP6010													
🥪 Gen	eral	Inter	faces	IP4	IP6	Serv	ices	РВХ	Gate	eway	Linu	x	Maintenance
	Gen	neral	Interf	aces	SIP	GK	Rοι	ites	CDR0	CDR	1 C	alls	
Interface	CG	PN-In (CDPN-I	n CGPI	N-Out (CDPN-C	DutAl	ias	Reg	istratio	on Proc	duct	
GW1 to 166	+								10.3	0.32.10	66		
GW2	+												
GW3	+												
GW4	+												
GW5	+												
GW6	+												
GW7	+												
GW8	+												
GW9	+												
GW10 EXTER	N+						E)	(TERN	N → 127.	0.0.1			
GW11	+												
GW12	+												
GW13	+												
GW14	+												
GW15	+												
GW16	+												

Gateway->GK: Registering the gateway using H323

<i>@</i> GW10 EXTERN - Int	ernet Explorer – D X
a http://10.30.32.76/R	ELAY0/mod_cmd.xml?cmd=xml-ifs&id=GW10&xsl=relay_edit_voip.xsl
Name Disable Protocol Mode Address Address Gatekeeper Identifier Local Signaling Port	EXTERN H.323 Register as Gateway 127.0.0.1 (alternate)
-Authorization Password	Retype
Name	Number
EXTERN	
-Media Properties —	
General Coder Prefe	
Local Network Code	G711A Framesize [ms] 20 Silence Compression
Enable T.38 🗌 Aud	io FAX support 🗌 No DTMF Detection 🗌 Enable PCM 🗌 Media-Relay Off 💽, Video 🗌 No ICE 🗌
SRTP Cipher AES1	28/80 SRTP Key Exchange SDES-DTLS V
Record to (URL)	
-H.323 Interop Tweak No Faststart DNo Suppress HLC Su	b H.245 Tunneling
OK Cancel	Apply Delete Help

PBX->Registrations: Overview of PBX registrations

10.30.32.76: innovaphone IP6010

🥧 Ge	neral Ir	nterface	s IP4	IP6	Servi	ces PE	X Gat	eway	Linux	Maintenance			
	Config	Obj	ects <mark>Reg</mark>	jistra	tions	Calls	SOAP	myPBX	C Dyn	-PBXs			
Address	Lon	g Name	Name	No	Device	Produc	:t			Firmware		Video Col	llab Uptime
10.30.34.56	H323747	5	7475	7475	7475	Ascom	i62			Ascom i62 5.5	5.5 (2016-06-13) r	elease	0d 23h 30m 35s
10.30.32.181	H323 d41	7483	7483	7483	7483	Ascom	IP-DECT	Base Sta	ation:Inte	op [9.0.6/9.0.6/IP	BS2-A3/1B1]		0d 23h 33m 39s
10.30.32.181	H323 d62	7480	7480	7480	7480	Ascom	IP-DECT	Base Sta	ation:Inte	op [9.0.6/9.0.6/IP	BS2-A3/1B1]		0d 23h 33m 41s
10.30.34.10	H323 d81	7477	7477	7477	7477	innova	hone IP2	32		12r1 sr1 [12.0	875/120875/1301]	0d 5h 58m 4s
10.30.32.181	H323 d81	7477	7477	7477	7477	Ascom	IP-DECT	Base Sta	ation:Inte	op [9.0.6/9.0.6/IP	BS2-A3/1B1]		0d 23h 33m 39s
10.30.32.181	H323 d81	7478	7478	7478	7478	Ascom	IP-DECT	Base Sta	ation:Inte	op [9.0.6/9.0.6/IP	BS2-A3/1B1]		0d 23h 33m 39s
127.0.0.1	H323 EXT	ERN	EXTERN		EXTER	Ninnova	hone IP6	010		12r1 sr1 [12.0	875/120875/600]		0d 23h 33m 42s
10.30.34.10	SIP Fixe	d 7476	Fixed 7476	7476	7476	innova	hone IP2	32		12r1 sr1 [12.0	875/120875/1301]	0d 23h 33m 38s
10.30.34.42	SIP Myc	o 7470	7470	7470	7470	Ascom	Myco 5.5	.0		SIP Version 1	.5.gd38958d3 [12	.0489]	0d 23h 33m 41s
10.30.34.44	SIP Myc	o 7471	7471	7471	7471	Ascom	Myco 5.5	.0		SIP Version 1	.5.gd38958d3 [12	.0489]	0d 23h 33m 38s
10.30.34.38	SIP Myc	o 7472	7472	7472	7472	Ascom	Myco 5.5	.0		SIP Version 1	.5.gd38958d3 [12	.0489]	0d 23h 33m 41s
10.30.34.18	SIP Myc	o 7473	7473	7473	7473	Ascom	Myco 5.5	.0		SIP Version 1	.5.gd38958d3 [12	.0489]	0d 23h 33m 41s
10.30.32.213	H323 Tel 7	7484	Tel 7484	7484	7484	innova	hone IP2	9		12r1 sr1 [12.0	875/120875/300]		0d 23h 33m 38s

Gateway->Routes: Routing of incoming and outgoing calls

10.30.32.76: innovaphone IP6010									
🦗 General	Interfaces	IP4	IP6	Servi	ces P	вх 🚺	Gateway	Linux	Maintenance
Gei	neral Inter	faces	SIP	GK	Routes	CD	R0 CDI	R1 Calls	s
🖳 From		То			Counte	rCGPN	Maps		
□ GW10:EXTER	!N 🖆 🖳	$0 \rightarrow PF$	RI1:Tel	e2		\rightarrow			
		-		KTERN					

PBX->Registrations: Calling and called party number formats for incoming and outgoing calls

10.30.32.76: innovaphone IP6010											
	General	Interfaces	s IP4	IP6	Service	s PBX	Gate	way	Linux	Maintenance	
	Ger	neral Inte	erfaces	SIP	GK R	outes	CDR0	CDR1	Calls	5	
Interface	CGPN-I	n CDPN-In C	GPN-Ou	t CDP	N-Out Sta	te Alias	Registra	tion			
PRI1 Tel	e2 n→0 i→00		471→747 472 → 747	-	Up						
	1→00		472→747 473→747								
			474→747								
			475→747	-							
			476→747								
			477→747 478→747								
			470→747 479→747								
			470→747	-							
PRI2	+										
PRI3	+										
PRI4	+										
TEST											
TONE											
HTTP											
ECHO											
FAX	+										
CONF	+										

Please refer to Innovaphone's documentation for further details about Innovaphone IP-PBX configuration and licensing.



Ascom IPDECT configuration

Ascom IPDECT H.323 settings

	IP-DECT Base Station ascom
Configuration	System Suppl. Serv. Master Crypto Master Mobility Master Radio Radio config PARI SARI Air Sync
General	
LAN	Mode Active V
IP	Multi-Master
LDAP	Master ID 0
DECT	Enable PARI Function
VoIP	Region Code
Unite	
Services	Protocol H.323 V
Administration	Gatekeeper IP Address 10.30.32.76
Users	Alt. Gatekeeper IP Address
Device Overview	Gatekeeper ID
DECT Sync	
Traffic	Max. Internal Number Length 4
Gateway	Redirection with GK ID
Backup	Enbloc Dialing
Update	Enable Enbloc Send-Key
Diagnostics	Send Inband DTMF
Reset	Allow DTMF Through RTP
	Short Disconnect Tone
	Treat rejected calls as Busy V
	Configured With Local GK
	Registration For Anonymous Devices
	Registration Name / Number /
	Deactivate Master If No Connection
	Conferencing Unit
	Conferencing Unit Number
	Mobility Master
	Name
	Password
	IP Address
	Alt. IP Address
	Status
	OK Cancel



Codec settings

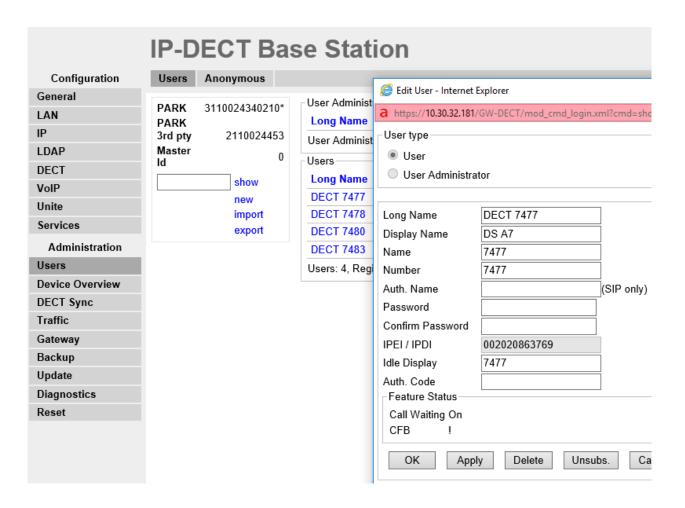
	IP-DECT Base Station							
Configuration	System Suppl. Serv.	Master Crypto Master Mobility Master Radio Radio con						
General								
LAN	System Name	DECT						
IP	Password	•••••						
LDAP	Confirm Password	•••••						
DECT	Subscriptions	With System AC 🗸						
VoIP	Authentication Code	1234						
Unite	Tones	SWEDEN V						
Services	Default Language	English V						
Administration	Frequency	1880-1900 MHz (Europe)						
Users	Enabled Carriers	9 8 7 6 5 4 3 2 1 0						
Device Overview	Enabled Carners							
DECT Sync	Local R-Key Handling	\checkmark						
Traffic	No Transfer on Hangup	\checkmark						
Gateway	No On-Hold Display							
Backup	Display Original Called							
Update	Early Encryption							
Diagnostics	Disable ICE							
Reset	Coder	G711A ✔ Frame (ms) 20 Exclusive □ SC □						
	Secure RTP Key Exchange	e No encryption V						
	OK Cancel							

Supplementary Services Activated

General AN P DAP	Enable Supplementary Servi			
P	Enable Supplementary Servi			
		ces		
DAP		Activate	Deactivate	Disable
	Call Forwarding Unconditional	*21*\$#	#21#	
DECT	Call Forwarding Busy	*67*\$#	#67#	
/oIP	Call Forwarding No Reply	*61*\$#	#61#	io –
Jnite	Do Not Disturb	*42#	#42#	
Services	Call Waiting	*43#	#43#	
Administration	Call Completion	5	#37#	
Jsers	Call Park	*16\$(1)	#16\$(1)	
Device Overview	Interception	*23*\$#	#23#	
DECT Sync	•		#23#	
Traffic	Call Service URI	*5\$(1)		
Gateway	Call Service URI (Argument)	*7\$(1)\$#		
Backup	Soft key	*80\$(1)		
Jpdate	Logout User	#11*\$#		
Diagnostics			_	
Reset	Clear Local Setting	*00#		
	MWI Mode	Fixed interrogate and fix	ked notify number 🗸	
	MWI Interrogate Number	4298		
	MWI Notify Number			
	Local Clear of MWI			
	External Idle Display		_	
	OK Cancel			



User Configuration



(123) NUMBERS DEVICES APPS E TEMPLATES LICENSES Device types: \iint Edit parameters for 7477 \times (AII) line Sta.. d41 Advanced d81 Protector Device type: Sync. d62 Protector Sync. Parameter definition: 1.234 d81 Protector Sync. Sync. Identification ~ Name Value Systems ١ Voice Mail Number 42987477 0 🖶 🔤 System A 0 Central Phonebook Number 999999 --- Registratior 2 Central Phonebook Allows Space No BR Setting 🗄 🔤 Diversio Absenc ÷... --- 🔶 Number 🗄 🔤 In call f - 🔶 Own lin System B ÷... System C ÷... ÷... System D ÷... System E System F ÷... ÷... System G ÷ System H ÷... Common Settings ÷... ÷... Connections ÷... Shortcuts Diagnostics Audio ÷... ÷... Customization ÷... Services ÷. Albert

Handset MWI Configuration

DOCUMENT HISTORY

Rev	Date	Author	Description
PA1	2016-08-29	SEJAn	Draft version
PA2	2016-08-29	SEJAn	Small fixes
RA1	2016-09-13	SEJAn	Final version