

INTEROPERABILITY REPORT

Ascom IP-DECT
Innovaphone IP-PBX

IP810, IP6010 and IPVA

Firmware version 13r1

Ascom IP-DECT v. 11.1.5

Gothenburg, Sweden

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ascom

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Introduction

This document describes a summary of the interoperability test results of the Ascom's and the Partner's platforms, necessary steps and guidelines to optimally configure the platforms and support contact details. The report should be used in conjunction with both the Partner's and Ascom's platform configuration guides.

About Ascom

Ascom is a global solutions provider focused on healthcare ICT and mobile workflow solutions. The vision of Ascom is to close digital information gaps allowing for the best possible decisions – anytime and anywhere. Ascom's mission is to provide mission-critical, real-time solutions for highly mobile, ad hoc, and time-sensitive environments. Ascom uses its unique product and solutions portfolio and software architecture capabilities to devise integration and mobilization solutions that provide truly smooth, complete and efficient workflows for healthcare as well as for industry, security and retail sectors.

Ascom is headquartered in Baar (Switzerland), has operating businesses in 18 countries and employs around 1,300 people worldwide. Ascom registered shares (ASCN) are listed on the SIX Swiss Exchange in Zurich.

About 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: <http://www.innovaphone.com/>

Site Information

Test site

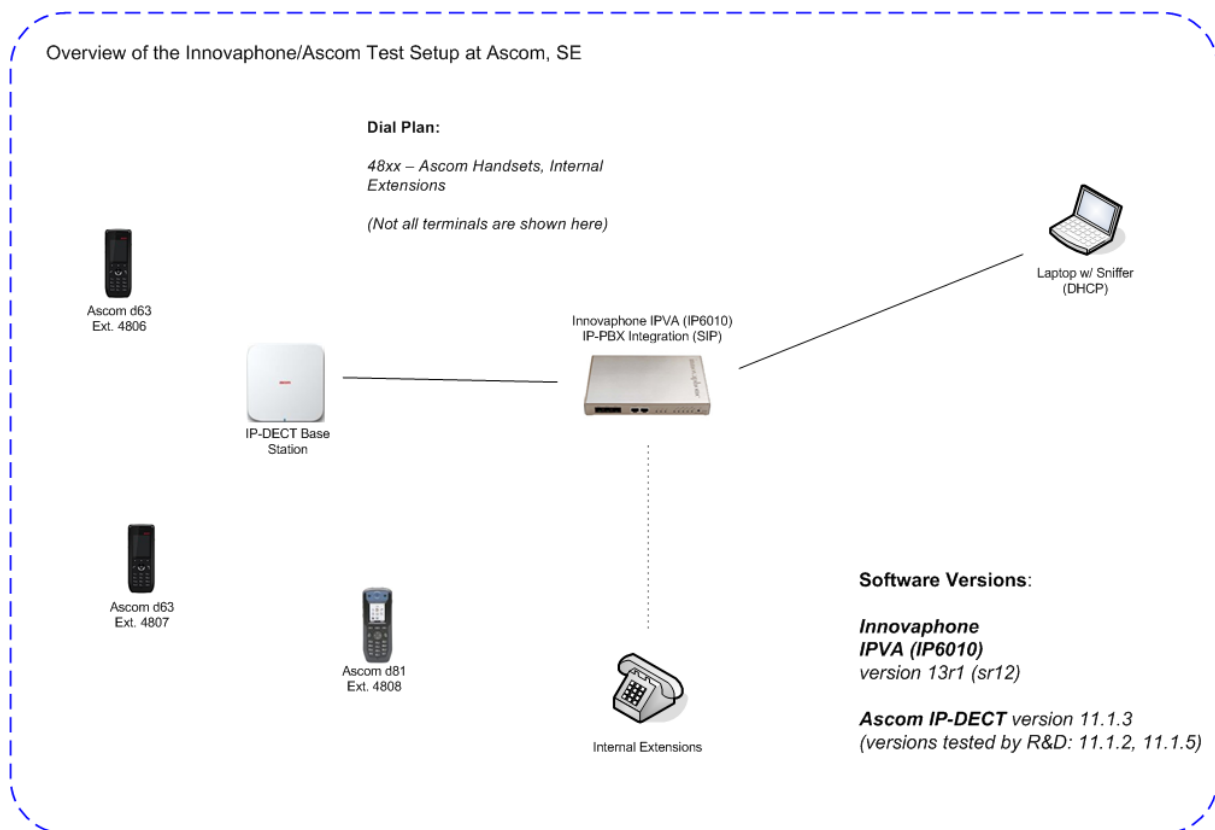
Ascom
Gothenburg
Sweden

Participants

Testing done by R&D on April 27th and June 24th 2020.
Spot-check by Matthew Williams, Ascom, Gothenburg (May 2020).

R&D tested IP-DECT software beta version 11.1.2 and general availability (GA) release version 11.1.5, while the interoperability team validated release candidate version 11.1.3.

Test topology



Note: Tested Ascom IP-DECT software version 11.1.3 by the interoperability team was a release candidate. As minimal changes were made to the H.323 stack afterwards, this validation is also applicable for GA version 11.1.5.

Summary

General conclusions

Ascom interoperability testing in all areas in regard to Ascom IP-DECT and Innovaphone IP-PBX produced excellent results with very few exceptions. For the latter, please refer to “**Known Issues**” on page 6.

Compatibility information

All tests were carried out using H.323 as the signalling protocol towards Innovaphone IPVA (Innovaphone Virtual Appliance). We ensure compatibility/interoperability with Innovaphone IP-PBX:es given they run tested software.

Please note for the following hardware the PBX functionality is no more supported by V12r2 or later due to performance issues: IP38, IP302, IP305, IP800, IP2000, IP6000.

Supported Partner UC/IP-PBX models with SW version 13r1:

IP810, IP6010 and IPVA, with version 13r1

For more information about supported hardware, please contact Innovaphone.

Interoperability overview

IP-PBX Features

High Level Functionality	Result	Comments
Basic Call	OK	
DTMF	OK	
Hold, Retrieve, Enquiry and Brokering	OK	
Attended Transfer	OK	
Blind-transfer	OK	
Semi-attended Transfer	OK	
Call Forward Unconditional	OK	
Call Forward No Reply	OK	
Call Forward Busy	OK	
Call Waiting	OK	
Message Waiting Indication	OK	Known IP-PBX issue reported while all test cases passed
Do Not Disturb	OK	Tested using IP-PBX GUI
Calling Line/Name Identification	OK	
Connected Line/Name Identification	OK	
Conference Call	Not tested	Conference bridge not available in test environment; three-party conference not supported

Known issues

Description	Consequence	Workaround	Ticket(s) raised
Innovaphone: MWI removed after listening to only one of several messages (1 of 3)	MWI works, but there might be messages remaining in the voice mail inbox when listening to only the first one and then directly hanging up.	Make sure that you have listened to all messages in the voice mail inbox before hanging up. <u>Note:</u> IP-PBX/VM issue, not Ascom	N/A; (see MRS-385 for analysis)

For additional information regarding the known limitations please contact interop@ascom.com or support@ascom.com.

For detailed test results, refer to “**Appendix B: Detailed Test Records**”.

Appendix A: Test Configurations

Innovaphone IP6010, IPVA, 13r1

IP-PBX configuration

These screen shots reflect some aspects of managing subscribers and setting up the PBX application on the IPVA.

General -> Info

The screenshot shows the 'Info' page of the IPDECT PBX IPVA-2 virtual appliance. The page title is 'IPDECT PBX IPVA-2: innovaphone Virtual Appliance'. The navigation menu includes 'General', 'Interfaces', 'IP4', 'IP6', 'Services', 'PBX', 'Gateway', and 'Maintenance'. The 'Info' page displays the following system information:

Version	13r1 sr12 IPVA[13.2357], Bootcode[1000], Hardware[0]
SerialNo	005056ae036a (3f)
DRAM	253 MB
FLASH	64 MB
Coder	60 Channels of G.711
Conference	60 Channels
Fax	∞ Channels
SNTP Server	10.30.0.101
Time	18.05.2020 14:24
Uptime	26d 5h 25m 24s

IP4 -> ETH0 -> IP: IP address of management and the H.323 interface

The screenshot shows the 'IP' configuration page for the ETH0 interface. The page title is 'IPDECT PBX IPVA-2: innovaphone Virtual Appliance'. The navigation menu includes 'General', 'Interfaces', 'IP4', 'IP6', 'Services', 'PBX', 'Gateway', and 'Maintenance'. The 'IP' page displays the following configuration options:

IP	IP Address	192.168.0.1	10.30.1.253
NAT	Network Mask	255.255.255.0	255.255.248.0
DHCP	Default Gateway		
Server	DNS Server		
Leases	Alternate DNS Server		
Custom	Proxy ARP	<input type="checkbox"/>	
	Check ARP	<input type="checkbox"/>	
	Broadcast IP Multicasts	<input type="checkbox"/>	
	Disable	<input type="checkbox"/>	

Static IP Routes

Network Destination	Network Mask	Gateway

OK Cancel

Note: The IP address on the right is the active one provided by DHCP.

IP4-> General -> Settings: DSCP markings used for signaling and RTP

IPDECT PBX IPVA-2: innovaphone Virtual Appliance

General Interfaces **IP4** IP6 Services PBX Gateway Maintenance

General ETH0 ETH1 PPP NAT

Settings
Routing
ARP
TLS
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

Address	Mask
<input type="text"/>	<input type="text"/>

Private Networks

Address	Mask
<input type="text"/>	<input type="text"/>

PBX->Objects: PBX objects added to the PBX application

IPDECT PBX IPVA-2: innovaphone Virtual Appliance

General Interfaces IP4 IP6 Services **PBX** Gateway Maintenance

Config **Objects** Registrations Calls SOAP myPBX Dyn-PBXs

User new

show

- PBX3

Feature access codes#pickup_group		*0#	root	PBX3		
Feature access codes#unpark		#16	root	PBX3		
Feature access codes#unpark_from		#17	root	PBX3		
INTOP 4801	4801	4801 4801	root	PBX3	+	+
INTOP 4802	4802	4802 4802	root	PBX3	4805	+
INTOP 4803	4803	4803 4803	root	PBX3	4805	+
INTOP 4804	4804	4804 4804	root	PBX3	+	+
INTOP 4805g	4805	4805 4805	root	PBX3	4805*	+
INTOP 4806	4806	4806 4806	root	PBX3	+	+
INTOP 4807	4807	4807 4807	root	PBX3	4805	+
INTOP 4808	4808	4808 4808	root	PBX3	4805	+
INTOP 4809	4809	4809 4809	root	PBX3	+	+
PBX3	PBX3	*1111	root	PBX3	+	+
Voicemail_box	Voicemail 66	Voicemail	root	PBX3	+	+

PBX->Objects: Adding a new DECT system object

The screenshot shows the 'IPDECT PBX IPVA-2: innovaphone Virtual Appliance' interface. The 'PBX' tab is active, and the 'Objects' sub-tab is selected. On the left, a 'DECT System' dropdown is set to 'new', and a 'DECT3' entry is visible. The main configuration area shows 'Long Name Name' as 'DECT3'. An inset window titled 'Dect System - Mozilla Firefox' displays the 'General' configuration for the DECT system, with fields for 'Type' (DECT System), 'Description', 'Long Name' (DECT3), 'Critical' (unchecked), and 'PBX' (PBX3).

PBX->Objects: Adding a new user object


The screenshot shows the 'User' configuration page. The 'General' tab is active. Fields include 'Type' (User), 'Description', 'Long Name' (INTOP 4809), 'Display Name' (INTOP 4809), 'Name' (4809), 'Number' (4809), 'E-Mail' (4809@), 'Password', 'Node' (root), 'PBX' (PBX3), 'Send Number', and 'URL'. A 'Devices' table is shown below with columns for Hardware Id, Name, App, PBX Pwd, No IP Filter, TLS only, No Mobility, and Config. The table contains one row for hardware ID 4809.

Hardware Id	Name	App	PBX Pwd	No IP Filter	TLS only	No Mobility	Config
4809			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PBX->Objects: Defining the DECT system of a user object

The screenshot shows the 'Edit User' configuration page. The 'DECT' tab is active. Fields include 'Gateway' (DECT3), 'IPEI' (redacted), 'Idle Display', and 'AC'. An inset window titled 'Edit User - Mozilla Firefox' shows the 'DECT' configuration for the user.

PBX -> Registrations: Verifying registrations

IPDECT PBX IPVA-2: innovaphone Virtual Appliance						
 General Interfaces IP4 IP6 Services PBX Gateway Maintenance						
Config Objects Registrations Calls SOAP myPBX Dyn-PBXs						
Address	Long Name	Name	No	Device	Product	Firmware
172.20.12.58	H323	INTOP 4808	4808	4808 4808	Ascom IP-DECT Base Station INTOP R11 M	[11.1.3/11.1.3/IPBS2-A3/1B]
172.20.12.58	H323	INTOP 4809	4809	4809 4809	Ascom IP-DECT Base Station INTOP R11 M	[11.1.3/11.1.3/IPBS2-A3/1B]
10.30.2.15*	SIP	WH2-2531	WH2-2531	2531 WH2-2531	Ascom i63	[REDACTED]
10.30.1.8*	SIP	WH2-2530	WH2-2530	2530 WH2-2530	Ascom i63	[REDACTED]
10.30.1.63*	SIP	WH2-9000	WH2-9000	9000 WH2-9000	Ascom i63	[REDACTED]
10.30.1.47*	SIP	WH2-9001	WH2-9001	9001 WH2-9001	Ascom i63	[REDACTED]
10.30.1.180	H323	_STANDBY_			innovaphone Virtual Appliance IPDECT PBX IPVA-1 13r1 sr12	[13.2357/1000/0]

External Call Routing (PRI)

These screen shots from [another reference system](#) provide guidance as to how to set up external call routing. See Innovaphone's documentation for further details.

PBX->General: General Settings

General Interfaces IP4 IP6 Services **PBX** Gateway Linux Maintenance

Config
Objects Registrations Calls SOAP myPBX Dyn-PBXs

General

Security

Filter

myPBX

Import

Export

PBX Mode Master

System Name PBX0 Use as Domain

PBX Name Intop DNS

Unknown Registrations - With PBX Pwd only

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 Intl/Ntl/Subscriber 00 0 31

Tones EUROPE-PBX

Log Calls

- Licenses

Name	Count	Usage	Local	Slaves
Port12	30	3	3	0
Voicemail12	30	0	0	0
Registrations.Ascom12 41248	5	5	5	0

PBX->Objects: PBX objects added to PBX application

General Interfaces IP4 IP6 Services PBX Gateway Linux Maintenance									
Config Objects Registrations Calls SOAP myPBX Dyn-PBXs									
Long Name	Name	No	HW-ID	Node	PBX	Filter	Groups	CF	Fork
Voicemail	Voicemail	4298		root	Intop		+	+	
UC	UC	5555	5555	root	Intop		+	+	
BC conf	innocnf		innocnf	root	Intop	CB*	+	+	
EXTERN	EXTERN			root	Intop		+	+	
conf voicemail B	conf voicemail B			root	Intop	CB	+		
conf serverA	conf serverA	8888		root	Intop		+	+	
DECT 8500	8500	8500	8500	root	Intop		+	+	+
d41 7483	7483	7483	7483	root	Intop		+	+	+
i82 7482	7482	7482	7482	root	Intop	FE	+	+	
i82 7481	7481	7481	7481	root	Intop	FE	+	+	
d62 7480	7480	7480	7480	root	Intop		+	+	+
7479	7479	7479	7479	root	Intop	FE*	+	+	
d81 7478	7478	7478	7478	root	Intop		+	+	+
d81 7477	7477	7477	7477	root	Intop	FE	+	+	
Tel1 7476	7476	7476	7476	root	Intop		+	+	+
7475	7475	7475	7475	root	Intop	FE	+	+	
i82 7474	7474	7474	7474	root	Intop		+	+	+
Myco 7473	7473	7473	7473	root	Intop		+	+	+
Myco 7472	7472	7472	7472	root	Intop		+	+	+

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

General Gateway

Type: Gateway

Description: Hide from LDAP

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

UC

Reporting


Voicemail

Devices

Hardware Id	Name	PBX Pwd	No IP Filter	TLS only	No Mobility	Config VOIP
EXTERN	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

OK Cancel Apply Delete Help

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

 General Interfaces IP4 IP6 Services PBX Gateway Linux Maintenance						
General Interfaces SIP GK Routes CDR0 CDR1 Calls						
Interface	CGPN-In	CDPN-In	CGPN-Out	CDPN-Out	Alias	Registration Product
GW1 to 188	+					10.30.32.188
GW2	+					
GW3	+					
GW4	+					
GW5	+					
GW6	+					
GW7	+					
GW8	+					
GW9	+					
GW10	+				EXTERN → 127.0.0.1	
GW11	+					
GW12	+					
GW13	+					
GW14	+					
GW15	+					
GW16	+					

Gateway->GK: Registering the gateway using H323

Name	<input type="text" value="EXTERN"/>		
Disable	<input type="checkbox"/>		
Protocol	<input type="text" value="H.323"/>		
Mode	<input type="text" value="Register as Gateway"/>		
Address	<input type="text" value="127.0.0.1"/>		
Address	<input type="text"/> (alternate)		
Gatekeeper Identifier	<input type="text"/>		
STUN Server	<input type="text"/>		
Local Signaling Port	<input type="text"/>		
- Authorization -			
Password	<input type="text"/>	Retype	<input type="text"/>
- Alias List -			
Name	Number		
<input type="text" value="EXTERN"/>	<input type="text"/>		
<input type="text"/>	<input type="text"/>		
- Media Properties -			
General Coder Preference	<input type="text" value="G711A"/>	Framesize [ms]	<input type="text" value="20"/> Silence Compression <input type="checkbox"/> Exclusive <input type="checkbox"/>
Local Network Coder	<input type="text" value="G711A"/>	Framesize [ms]	<input type="text" value="20"/> Silence Compression <input type="checkbox"/>
Enable T.38	<input type="checkbox"/>	Audio FAX support	<input type="checkbox"/>
No DTMF Detection	<input type="checkbox"/>	Enable PCM	<input type="checkbox"/>
Media-Relay	<input type="checkbox"/>	Video	<input type="checkbox"/>
SRTP Cipher	<input type="text" value="AES128/80"/>	SRTP Key Exchange	<input type="text" value="SDES-DTLS"/>
Record to (URL)	<input type="text"/>		
- H.323 Interop Tweaks -			
No Faststart	<input type="checkbox"/>		
No H.245 Tunneling	<input type="checkbox"/>		
Suppress HLC	<input type="checkbox"/>	Suppress FTY	<input type="checkbox"/>
Suppress Subaddr	<input type="checkbox"/>		
<input type="button" value="OK"/> <input type="button" value="Cancel"/> <input type="button" value="Apply"/> <input type="button" value="Delete"/> <input type="button" value="Help"/>			

Gateway->Routes: Routing of incoming and outgoing calls

From	To	Counter	CGPN Maps
GW10:EXTERN	PRI1:Tele2	0	0
PRI1:Tele2	GW10:EXTERN	0	0

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

Interface	CGPN-In	CDPN-In	CGPN-Out	CDPN-Out	State	Alias	Registration									
PRI1 Tele2	n→0	i→00	7471→7471	7472→7472	7473→7473	7474→7474	7475→7475	7476→7476	7477→7477	7478→7478	7479→7479	7470→7470	Up			
PRI2	+															
PRI3	+															
PRI4	+															
TEST																
TONE																
HTTP																
ECHO																
FAX	+															
CONF	+															

The guidelines for configuring the IP-PBX are based on chapters eleven and twelve of the "Ascom VoIP Gateway: Installation and Operation Manual" (TD 92326GB), pp. 62-100.

For further guidance, please refer to Innovaphone's documentation about configuration and licensing.

Ascom IP-DECT, v. 11.1.5 (tested 11.1.3)

VoIP Configuration

H.323 settings are found under **DECT > Master**.

The screenshot shows the 'IP-DECT Base Station' configuration interface. The 'Master' tab is selected. The 'Mode' is set to 'Active'. Under 'Multi-Master', 'Master ID' is 0, 'Enable PARI Function' is checked, and 'Region Code' is empty. Under 'IP-PBX', 'Protocol' is H.323, 'Gatekeeper' is 10.30.1.253, 'Alt. Gatekeeper' is empty, 'Gatekeeper ID' is empty, 'Max. Internal Number Length' is 4. 'Registration with system password' and 'Redirection with GK ID' are unchecked. 'Enbloc Dialing' is checked. 'Enable Enbloc Send-Key' and 'Allow DTMF Through RTP' are unchecked. 'Short Disconnect Tone' is unchecked. 'Treat rejected calls as' is set to 'Busy'. 'Configured With Local GK' is unchecked. Under 'Registration For Anonymous Devices', 'Registration Name / Number' is empty and 'Deactivate Master If No Connection' is unchecked.

Configure codec settings by going to **DECT > System**.

The screenshot shows the 'IP-DECT Base Station' configuration interface. The 'System' tab is selected. 'System Name' is DECT3, 'Password' and 'Confirm Password' are masked with dots. 'Subscriptions' is 'With System AC'. 'Authentication Code' is 9999, 'Tones' is EUROPE-PBX, and 'Default Language' is English. 'Frequency' is 1880-1900 MHz (Europe). 'Enabled Carriers' are 9, 8, 7, 6, 5, 4, 3, 2, 1, 0, all checked. 'Local R-Key Handling' is checked. 'No Transfer on Hangup' is checked. 'No On-Hold Display', 'Display Original Called', 'Early Encryption', 'RFP Location', 'Unite Data Channel', and 'Disable ICE' are unchecked. 'Coder' is G722.2/G711A, 'Frame (ms)' is 20, 'Exclusive' and 'SC' are unchecked. 'Secure RTP Key Exchange' is 'No encryption' and 'Unencrypted RTCP' is unchecked. 'OK' and 'Cancel' buttons are at the bottom.

Note: The actual codec used during a call is dependent on negotiation between endpoints.

User Configuration

User details and settings can be found under **Users > Users**.

The screenshot shows the 'IP-DECT Base Station' web interface. The 'Users' tab is selected, and the 'Edit User' dialog box is open. The dialog box contains the following fields:

- User type: User, User Administrator
- Long Name: INTOP 4806
- Display Name: INTOP 4806
- Name: 4806
- Number: 4806
- Auth. Name: (SIP only)
- Password: [empty]
- Confirm Password: [empty]
- IPEI / IPDI: 002020772294
- Idle Display: INTOP 4806
- Auth. Code: [empty]
- Feature Status: Call Waiting On

The background shows the 'Users' list with the following columns: Long Name, Name, No.

Long Name	Name	No
INTOP 4806	4806	4806
INTOP 4807	4807	4807
INTOP 4808	4808	4808
INTOP 4809	4809	4809

Configuration of Supplementary Services and Message Waiting Indication (MWI)

Enable Supplementary Services under **DECT > Suppl. Serv.**

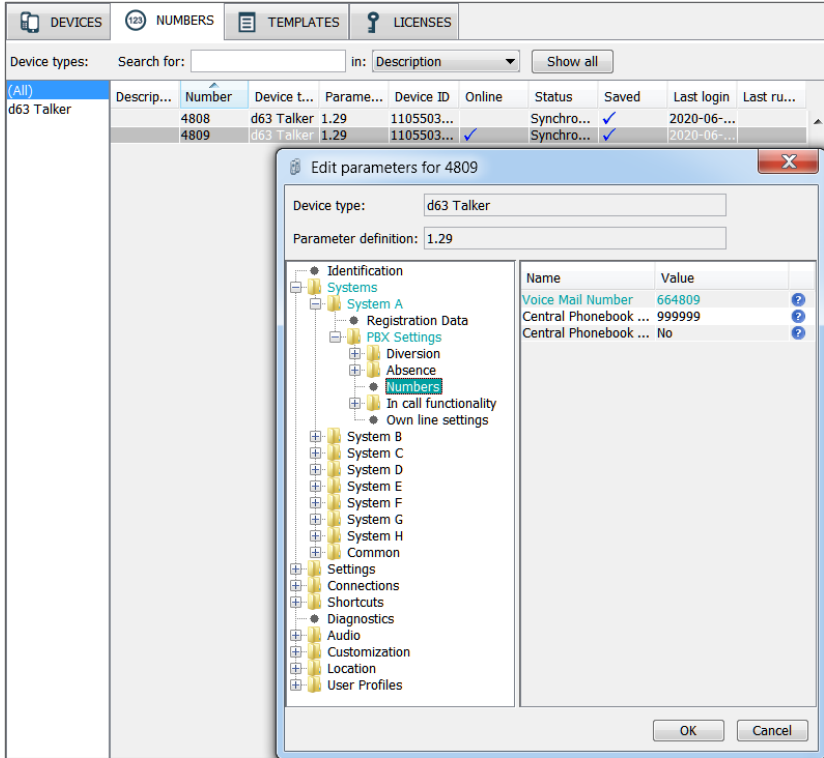
The screenshot shows the 'IP-DECT Base Station' web interface. The 'Suppl. Serv.' tab is selected, and the 'Enable Supplementary Services' checkbox is checked. The page displays a table of supplementary services with the following columns: Activate, Deactivate, and Disable.

	Activate	Deactivate	Disable
Call Forwarding Unconditional	*21*\$#	#21#	<input type="checkbox"/>
Call Forwarding Busy	*67*\$#	#67#	<input type="checkbox"/>
Call Forwarding No Reply	*61*\$#	#61#	<input type="checkbox"/>
Do Not Disturb	*42#	#42#	<input type="checkbox"/>
Call Waiting	*43#	#43#	<input type="checkbox"/>
Call Completion	5	#37#	<input type="checkbox"/>
Call Park	*16\$(1)	#16\$(1)	<input type="checkbox"/>
Interception	*23*\$#	#23#	<input type="checkbox"/>
Call Service URI	*5\$(1)		<input type="checkbox"/>
Call Service URI (Argument)	*7\$(1)\$#		<input type="checkbox"/>
Soft key	*80\$(1)		<input type="checkbox"/>
Logout User	#11*\$#		<input type="checkbox"/>
Clear Local Setting	*00#		<input type="checkbox"/>
MWI Mode	Fixed interrogate and fixed notify number ▾		
MWI Interrogate Number	66		
MWI Notify Number			
Local Clear of MWI	.		
External Idle Display			<input type="checkbox"/>

Note1: The MWI Interrogate Number ("66") corresponds to the Voicemail object on the IP-PBX.

Note2: Configuration of the Voicemail object ("66") on the IP-PBX is system-dependent.

The voice mail number for an extension can be specified in the Ascom Device Manager under **Systems > System [A-H] > PBX Settings > Numbers > Voice Mail Number**.



These settings were used in the test environment. For further information about Ascom IP-DECT settings, please refer to our documentation.

Appendix B: Detailed Test Records

Pass	36
Fail	1
Comments	7
Not verified	63
Total	107

Please see the attached Excel file for detailed test results.

Refer to the verification specification for explicit information regarding each test case.

The specification can be found here (requires login):

<https://www.ascom-ws.com/AscomPartnerWeb/en/startpage/Sales-tools/Interoperability/Templates/>

Document History

Rev	Date	Author	Description
PA1	2020-06-09	SEMW	Initial draft
PA2	2020-07-01	SEMW	Updates after release of GA v. 11.1.5
RevA	2020-07-02	SEMW	Final version