### INTEROPERABILITY REPORT

## Cisco Webex Calling Multi-Tenant Ascom IP-DECT

R11 (11.9.11) Cloud-based Unified Communications

> Gothenburg, Sweden May 2023

# ascom

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### Introduction

This document summarizes interoperability test results relating to the validation of Ascom's and the Partner's platforms. It also describes recommended steps and guidelines to configure these respective platforms and provides a point of contact for inquiries. The report should be used in conjunction with configuration guides from Ascom and the Partner.

### 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 Cisco

Cisco (NASDAQ: CSCO) is the worldwide technology leader that has been making the Internet work since 1984. Our people, products and partners help society securely connect and seize tomorrow's digital opportunity today. Discover more at <u>thenetwork.cisco.com</u> and follow us on Twitter at @Cisco.

### Site Information

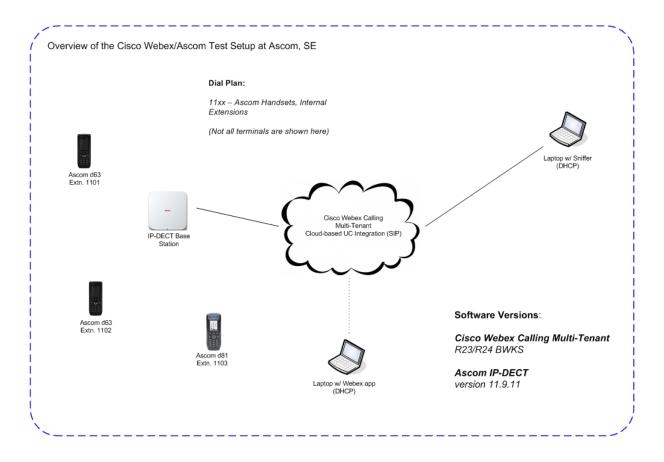
Test site Ascom Gothenburg Sweden

### Participants

Testing was carried out in late April 2023 by Matthew Morley at Ascom's facilities in Gothenburg.

The Ascom interoperability team validated General Availability (GA) release for the Ascom IP-DECT Base Station (IPBS2/IPBS3), version 11.9.11.

### **Test topology**



Note: The Ascom IP-DECT Base Station was connected over a NAT router not pictured here.

### Summary

### **General conclusions**

Interoperability testing of Ascom IP-DECT towards Cisco Webex Calling Multi-Tenant (MT) produced, with a few exceptions, satisfactory results.

Observed issues and limitations are listed under "Known Limitations" on page 6.

### **Compatibility information**

All tests were carried out using SIP as the signaling protocol towards Cisco Webex in the "cloud". Ascom ensures compatibility/interoperability with Cisco Webex Calling MT, given that tested releases for call control are running on the 3<sup>rd</sup> party platform. DECT handsets registered as Customer Managed Devices using the Generic SIP Phone interface.

For more information about the cloud-based Unified Communications (UC) and Collaboration solution, please contact Cisco Systems.

#### Interoperability overview

#### **Cloud-based UC Features**

High Level Functionality	Result	Comments
Basic Call, TLS 1.2 (Secure Voice)	OK	TLS profile set to "Strict" on the IP-DECT base station.
Wideband Audio (HD Voice)	OK	G 722.2 (AMR-WB) supported between later generation DECT handsets.
DTMF	OK	
Hold, Retrieve, Enquiry and Brokering	OK	
Music on Hold (MoH)	OK	
Attended Transfer	OK	
Blind Transfer	OK	
Semi-attended Transfer	ОК	
Call Forward Unconditional	OK	
Call Forward No Reply	OK	
Call Forward Busy	ОК	
Call Waiting	OK	
Message Waiting Indication	Not tested	Message Waiting Indication is <u>not</u> supported as part of this integration
Voice Mail	Not tested	
Do Not Disturb	OK	
Calling Line/Name Identification	OK	
Connected Line/Name Identification	OK	
Conference Call	OK	Three-party conference can <u>only</u> be initiated from the Webex app.

**Known Limitations** 

Description	Consequence	Workaround	Ticket(s) raised
Cisco Webex Calling MT requires	Only one DECT handset	Add fictitious MAC	
unique MAC addresses for each	per IP-DECT base station	addresses derived from the	
Customer Managed Device.	can be registered.	MAC of the Ascom IP-DECT	
		base station. During testing	
		incremented by one (hex)	
		per DECT handset.	
ICE negotiation <u>not</u> supported by	One-way voice when	Disable ICE on the IP-DECT	N/A, please see
Cisco Webex Calling MT for	calling from DECT to	base station, the main	Ascom ticket ref.
Customer Managed Devices.	Webex app. Speech	caveat being termination of	MRS-938 for
	cannot be heard at DECT	all RTP in the "cloud" for	analysis.
	handset.	DECT handsets (indirect	
		RTP).	
Root CA Certificate (for TLS) did not	Possibly a problem	Upload root CA certificate	
show up under "Rejected	related to the test	manually to the IP-DECT	
Certificates" on the IP-DECT base	environment. IP-DECT	base station.	
station	base station cannot		
	communicate with Cisco		
	Webex Calling MT.		
Message Waiting Indication (MWI) on		Notifications can be sent by	
Ascom DECT handsets not		Webex as email or SMS.	
supported for this integration.			

For additional information regarding known issues and limitations, please contact <u>interop@ascom.com</u> or <u>support@ascom.com</u>.

For detailed test results, refer to "Appendix B: Detailed Test Records".

### Appendix A: Test Configurations

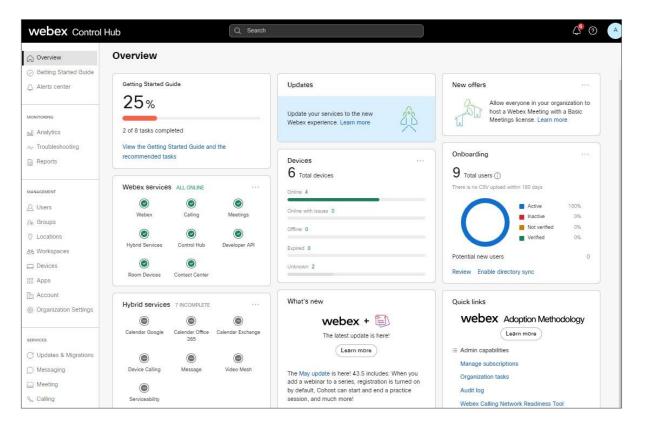
### Cisco Webex Calling Multi-Tenant, R23/R24 BWKS

#### **Cloud-based UC configuration**

These screenshots serve to reflect the aspects of managing users and devices in the web-based Webex Control Hub application.

Please refer to the partner's online help and documentation for further details.

#### Home -> Overview



#### Management -> Users

n Overview	Users				
Getting Started Guide	<b>∆Users</b> ⊘Licenses	Contacts			
	Users External users External adm	inistrators			
NONITORING	Q Search by name or email	or = Filter	or All Locations 🗸	8 users Send invitations	Manage use
J Analytics	First / Last name 🔹	Email	Status Ad	ministrator roles	
Reports	admin admin	admin	. • Active	Full admin	ł,
	User1 d63	ascom.myco3lab+user1	. • Active		Ē
Lanagement	User2 d63	ascom.myco3lab+user2	Active		E
≤ Groups	User3 d81	ascom.myco3lab+user3	Active		Ē
) Locations	User4 PC	ascom.myco3lab+user4	Active		10
B Workspaces	User5 App	ascom.myco3lab+user5	. • Active		1
] Devices 응 Apps	User6 iOS	ascom.myco3lab+user6	Active		E
Account	- Q User7 i63	ascom.myco3lab+user7	Active		1

<u>Note</u>: Email addresses have been anonymized.

Management -> Users -> User -> Summary

Overview	O User1 d63		
<ul> <li>Getting Started Guide</li> </ul>	Active • ase	com.myco3lab+user1	Member of GBG
Alerts center	Summary General Meetin	ngs Calling Messaging Hybrid Serv	vices Devices Vidcast
MONITORING			
al Analytics	User details	First Name	User1
-∿- Troubleshooting		Last Name	(d63
Reports		Display Name	User1 d63
MANAGEMENT		Primary Email *	ascom.myco3lab+user1
요 Users		Location	GBG V
≏ <sub>8</sub> Groups		Preferred Email Language (i)	English - American English
O Locations			Using location settings
ക Workspaces			
🚊 Devices		Last Email Status	None
BB Apps		Name Labels	Status: Not enrolled Organization Setting: Off ()
Account			
Ørganization Settings			
	Groups	This user isn't a member of a	any group.
BERVICES		Add to Webex groups	
C Updates & Migrations			
) Messaging			
Meeting	Licenses	O Messaging	Basic Messaging
Calling		Meeting	Basic Space Meetings
> Vidcast		% Calling	Call on Webex (1:1 call, non-PSTN) Webex Calling Professional

### Management -> Users -> User -> Calling

Overview	<u> </u>			
) Getting Started Guide				
Alerts center	Numbers	Directory numbers ()		
		Type Number	Extension	
DNITORING		Primary +4631	<u>1101 (</u>	>
Analytics		$\oplus$		
- Troubleshooting		Caller ID 🛈	User's phone number : +4631	>
Reports		Emergency callback number	0	>
ANAGEMENT				
L Users	P. de la constantina			
B Groups	Business texting	User is not eligible for texting	capabilities. Learn more.	
Locations				
8 Workspaces				
] Devices	Voicemail, fax and announcement	Voicemail 🕢	Enabled	>
Apps	language	Announcement language	English	>
] Account				
Organization Settings				
	Call handling	Incoming call permissions	Default settings	>
RVICES		Outgoing call permissions	Default settings	>
Updates & Migrations		2		
) Messaging		Call forwarding ①	Not forwarding calls	>
Meeting		Call waiting ①		
5 Calling				

This is where voicemail and call handling are configured for the each user in Webex Control Hub.

Note: Telephone numbers have been anonymized.

### Management -> Users -> User -> Calling -> Caller ID

G Overview	< Users		
<ul> <li>Getting Started Guide</li> <li>Alerts center</li> </ul>	User1 d63 • Active • as	.com.myco3lab+user1	Member of GBG
монітовина ggl Analytics -/- Troubleshooting	Summäry General Meet  < Calling	ings Calling Messaging Hybrid S	ervices Devices Vidcast
B Reports	Caller ID	External caller ID phone number	Direct line: +4631 Ext 1101     Assigned number from user's location
MANAGEMENT		External caller ID name	O Direct line: User1 d63
요 Users			<ul> <li>Location external caller ID name: GBG</li> </ul>
A Groups ☉ Locations			Other external caller ID name
战 Workspaces		Caller ID first name	User1 X
📋 Devices		Caller ID last name	(d63 ×)
BB Apps			,
合 Account		Block caller ID for received calls	Block this user's identity when receiving a call.

Here, the Caller ID for outgoing calls is configured.

#### **Provisioning a User**

These screenshots provide basic guidance when adding a device to an existing user. Note that there are various approaches to provisioning users.

For further guidance, please see Cisco Webex Calling's online resources on licensing and configuration.

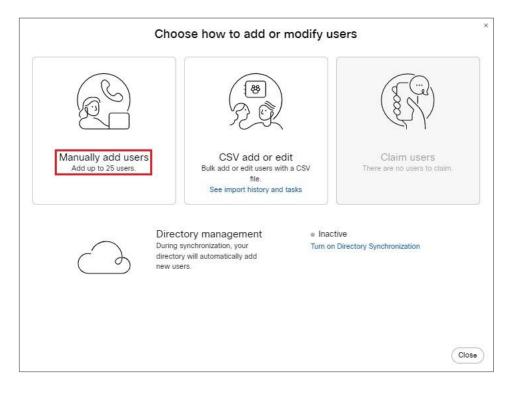
Management -> Users -> Manage Users

webex Control H	Q Search			L	90 🔺
Overview Getting Started Guide Alerts center	Users ⊘Licenses ⊛Conta Users External users External administrato				
MONITORING	Q. Search by name or email or	≡ Filter or	All Locations $\lor$	8 users Send invitations	Manage users
g <sub>a</sub> ∏ Analytics -∧- Troubleshooting	First / Last name +	Email	Status /	Administrator roles	
matthewmorley-3xyr	admin admin	admin@matthewmorley-3xyr.wb	Active	Full admin, Webex site admin	: ‡

Management -> Users -> Manage Users -> Manually Add Users

Run through all the steps of the wizard.

Select "Manually add users".



Add users and then select "Next".

Basic information As           1: Basic information	sign licenses		Review	
1: Basic information				
mes and Email address				
nail address				
u cannot add existing users in your organization or users that	already have a Web	ex account. Learn mo	ore M	
t name		Email address		
Last name		Ennañ address		
r 10 d63 ascom.myco3lab+user10 ×				
ter user emails separated by commas				
ems			Clear All	
enis				

Run through the rest of the wizard to review licenses, assign phone numbers and extensions, and then confirm by selecting "Add Users".

Manually add user	'S				
				÷	o
Basic info	ormation	Assign licenses	Assign nu	umbers	Review
Step 4: Review					
You've enabled Auto-	Assign. Users will b	e assigned the following li	censes automatically		
Added user(1)					
Email address	First name	Last name	Phone Number	Extension	
ascom.myco3la	User 10	d63	+4631	1110	
Assigned licenses					
O Messaging	Basic I	Messaging			
📋 Meeting	Basic S	Space Meetings			
S Calling		Webex (1:1 call, non-PST Calling Professional	N)		
					Previous Add user

Note: Email addresses need to be verified.

#### Management -> Users -> User -> Devices

For the users from the previous step, select "Add Device" under Devices.

G Overview	* <	Users		
<ul> <li>Getting Started Guide</li> <li>Alerts center</li> </ul>	L	User10 d63 • Active • asc	om.myco3lab+user10	Member of GBG
MONITORING [[2]] Analytics		Summary General Meetin	gs Calling Messaging Hybrid :	Services Devices Vidcast
-√- Troubleshooting ☐ Reports		Devices		Add Webex Rooms Device
MANAGEMENT		Add Device		
A Groups				
O Locations		Device settings	Software upgrade channel	Default (Stable)
ക Workspaces	•		Lock settings on touch devi	ices (i)

First select "Customer Managed Device" and "Generic IPPhone Customer Managed" from respective drop-down menus. Then enter a fictitious MAC address derived from the MAC of the Ascom IP-DECT base station, acknowledge the disclaimer, and click "Save".

	Add Device
Select Device	
Customer Managed Device	~
Device Vendor	
Generic IPPhone Customer Managed	~
with unauthorized access. You are respons responsible for any fraudulent charges or p	rill expose sensitive device credentials that could be misused and exploited by use sible for securing and recycling these credentials. You agree that Cisco is not phone calls that result from the exposure of these device credentails. Cisco offers
	nected via this interface. Cisco will only investigate basic issues for third-party Webex Calling platform. Any other third-party device-related support issues should
	or, including issues related to onboarding, deployment, configuration, or

Lastly, record all SIP registration details and credentials for future use. See example on the next page.

Device details below correspond to the DECT user example in the next section: "Ascom IP-DECT, v. 11.9.11".

Ad	ld Device
(	$\checkmark$
Device Suc	ccessfully Added
Details	
Workspace Name	SIP Username
User1	1101
Device Vendor	SIP Password
Generic IPPhone Customer Managed	
Line ID O atipzes3o9@98303641.us10.bcld.webex.com	△ Enter this password into the device to link it. As needed, record this password, since it will never be visible again. The administrator is responsible for maintaining and securing these credentials.
Outbound Proxy fr11.hosted-eu10.bcld.webex.com	± Download credentials as .csv
MAC address	C Configuration documentation
00013E26F8A0	
	Close

Note: It is recommended to copy/paste passwords into a text file to have them handy when adding DECT users.

These details for each DECT user/subscriber are required when configuring the Ascom IP-DECT Base Station:

Cisco Webex Calling	Ascom IP-DECT
Line ID after the @ sign	Domain
Outbound Proxy	Proxy
Line ID <u>before</u> the @ sign	Name
SIP Username	Number and Auth. Name
SIP Password	Password

### Ascom IP-DECT, v. 11.9.11

#### **IP-DECT Base Station Configuration**

IP configuration is found under LAN > IP4.

Configuration	DHCP4 IP4 I	DHCP6 IP6	VLAN	Link	802.1X	Statistics	LLDP		
General									
LAN				Ac	tive Settin	gs			
IP4	IP Address	192.168.	19:	2.168.					
IP6	Network Mask	255.255.255	.0	25	5.255.255.0	)			
LDAP	Default Gateway	192.168.		193	2.168				
DECT	DNS Server	8.8.8.8		8.8	8.8.8.8				
Unite	Alt. DNS Server	192.168.		193	192.168.				
Services	Check ARP								
Advanced	Static IP Routes								
Administration	Network Destin	nation	Network	Mask		Gateway			
Users									
Device Overview			<u>الــــــ</u>			J. L			
DECT Sync	OK Canc	el							

Add an NTP server under **General > NTP**.

	IP-D	DEC	ТВ	ase S	Station	6		
Configuration	Info	Admin	NTP	Kerberos	Certificates	License	EULA	
General								
LAN			2					Active Settings
IP4	Time Se	rver	pool.	ntp.org		pool.ntp.org		
IP6	Alt. Time	e Server						
LDAP	Interval	val [min] 60						60
DECT	Timezon	ne	Euro	pe - Central E	uropean Time (			
Unite	String		CET-	1CEST-2,M3	.5.0/2,M10.5.0/3	CET-1CEST-2,M3.5.0/2,M10.5.0/3		
Services	Current Last Syr		1 C	ntp.org -> 194 .2023 14:48	.58.205.148			
Advanced	Last Syl	IC .	14.00	.2023 14.40				
Administration	OK	Ca	ncel					

It is recommended to set the TLS profile to "Strict" in IP4 > TLS.

	<b>IP-DECT Base Station</b>									
Configuration	Settings	Routing	TLS	STUN	ARP					
General										
LAN	Profile str	ict 🗸	•]							
IP4	OK	Cancel								
IP6										

Note: This profile enforces TLS version 1.2.

When using a NAT router, configure TCP keepalives by going to **IP4 > Settings**.

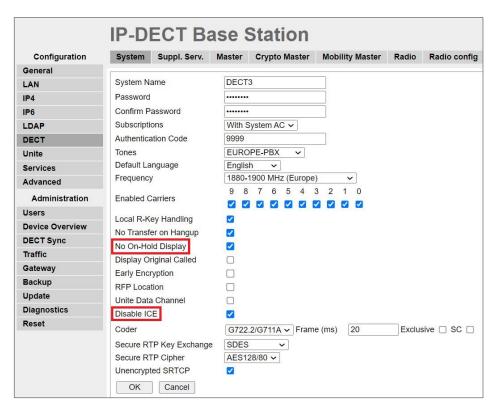
<b>IP-DECT Base Station</b>									
Configuration	Settings Routing TLS STUN ARP								
General									
LAN	Priority/DiffServ								
IP4		Active Settings							
IP6	ToS Priority - RTP Data 0xb8	0xb8							
LDAP	ToS Priority - VoIP Signalling 0x68	0x68							
DECT	TCP Settings								
Unite	TCP Keepalive 30								
Services	Port Ranges								
Advanced	Active Settings								
Administration	First UDP-RTP Port 16384								
Users	Number of Ports 16384								
Device Overview	Last UDP-RTP Port 32767								
DECT Sync	OK Cancel								
Traffic	OK Cancel								

The recommended TCP Keepalive interval is between 20 to 30 seconds.

SIP/TLS settings are found under **DECT > Master**.

Configuration	System	Suppl. Serv.	Master	Crypto Master	Mobility Master	Radio	Radio config
General	IP-PBX						
LAN	Protocol				1		
P4				SIP/TLS V	10 bold webex com		
P6	Proxy			In Transled-eu	TU.DCIO.Webex.com	_	
DAP	Alt. Prox	5				_	
ECT	Alt. Prox	,					
Inite	Alt. Prox	(y					
ervices	Domain			98303641.us10	).bcld.webex		
dvanced	Max. Int	ernal Number Le	ength	4			
Administration	Internati	onal CPN Prefix					
sers	Registra	tion with system	password				
evice Overview	Enbloc [	Dialing					
ECT Sync	Enable I	Enbloc Send-Key	/				
raffic	Send In	band DTMF					
ateway	Allow D	TMF Through RT	P				
ackup	Short Di	sconnect Tone					
pdate	Treat rej	ected calls as		Busy	~		
iagnostics	Configur	red With Local G	К				
eset	SIP Inte	eroperability Sett	ings				
6361	Registr	ation Time-To-Li	ve		120 [sec]		
	Subscr	iption Time-To-Li	ve		120 [sec]		
	STUN	server					1
	Hold Si	ignalling			inactive	~	
	Hold Be	efore Transfer					
	Accept	Inbound Calls N	ot Routed	/ia Home Proxy			
	Registe	er With Number		5			

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



Ensure that "No On-Hold Display" and "Disable ICE" are checked.

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

The root CA certificate needs to be trusted under General > Certificates.

	IP-DECT Base Station											
Configuration	Info Ac	dmin	NTP	Kerberos	Certificates	License	EULA					
General	-											
LAN	-Trust List											
IP4	Su	bject			Issuer			Not Before	Not After	Down	load	
IP6	🗆 Tha	awte E	<b>VRSA</b>	CA 2018	DigiCert Hig	h Assurance	EV Root CA	06.11.2017	06.11.2027	PEM	DER	
LDAP	🗌 Ide	nTrust	Comme	ercial Root CA	1 IdenTrust C	ommercial F	Root CA 1	16.01.2014	16.01.2034	PEM	DER	
DECT	Remove	e	Clear									
Unite	Download	IAI										
Services	Password				File Choose	File No file	e chosen					
Advanced Administration	Upload						GIUSEI					

Note: This action is a requirement for registration of SIP endpoints.

### Advanced VoIP Configuration

Advanced VoIP settings are found under **Advanced > SIP**.

	IP-DECT Base Station	
Configuration	SIP Certificates SIP Responses	
General		
LAN	Add Instance ID To The User Registration With The IP-PBX	
IP4	IP-PBX Supports Redirection Of Registration When Registered To Alternative Proxy	
IP6	Use Local Contact Port As Source Port For TCP/TLS Connections	🗌 SIP 🗹 TSIP 🗹 SIPS
LDAP	Prefer P-Asserted-Identity As Calling Party Identity	SIP ITSIP SIPS
DECT	Do Not Send Identity Header	
Unite	Use SBC for NAT traversal	
Services	No Server Certificate Subject Check For TLS Connections	🗌 SIP 🔲 TSIP 🗹 SIPS
Advanced	No Server Certificate Trust Check For TLS Connections	
Administration	Accept Hold Signaling Using Remote Media Address 0.0.0.0	SIP 🗹 TSIP 🗹 SIPS
Users	Remove SRTP Lifetime in SDP	
Device Overview	Allow Multiple Codecs in Answer SDP	SIP 🗹 TSIP 🗹 SIPS
DECT Sync	Send Early Progress Response	
Traffic	Ignore Retry-After in Registration Responses	
Gateway	Use STUN for NAT Traversal with TCP/TLS	
Backup	No Validation of Request URI	
Update	Note: All settings require reset	
Diagnostics	OK Cancel	
Reset		

#### User Configuration

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

Configuration	Users Anony	mous									
General LAN IP4	PARK PARK 3rd pty		User Administ	Name	-	<ul> <li>Edit User - Google G</li> <li>Mot secure   19</li> </ul>		U-DECT/mod_cmd_login.x			
IP6 LDAP DECT Unite		9999 0 show new import	d63 1101	Users Long Name Name No d63 1101 atipzes3o9 1101			User Administrator				
Services Advanced Administration		export	d63 1102 d81 1103 Users: 3, Reg	t78e3iozq9 p4oh1dh9fs jistrations: 3	1102 1103	Long Name Display Name Name	d63 1101 d63 1101 atipzes309				
Users Device Overview DECT Sync						Number Auth. Name Password	1101 1101	(SIP only)			
Traffic Gateway Backup						Confirm Password IPEI / IPDI Idle Display	•••••• 110550389538 d63 1101				
Update Diagnostics Reset						Auth. Code Feature Status Call Waiting On					

<u>Note</u>: Names and numbers for each respective subscriber correspond to the Line ID's and extensions in Webex Control Hub. Refer to the table on page 14.

Verify user registrations under the same tab.

	IP-DEC	T Ba	ase S	tation										ascom
Configuration General LAN IP4 IP6 LDAP DECT Unite Services	Users Anony PARK PARK 3rd pty Auth Code Master Id	show new import	9999 0	User Administ Long Name User Administ Users Long Name d63 1101 d63 1102	Name trators: 0	<b>No</b> 1101 1102	+	<b>Display</b> d63 1101 d63 1102	IPEI / IPDI 110550389538 110550389613	AC	Prod d63-Talker d63-Talker	<b>SW</b> 2.12.39 2.12.39	EE	Logout Registration 185.115. 185.115.
Advanced Administration	L	export		d81 1103 Users: 3, Reg	p4oh1dh9fs jistrations: 3	1103	+	d81 1103	002020909367		d81-Messenger	4.12.1		185.115.

Note: Unsuccessful registrations will be marked as "FAILED".

Configuration	System	Suppl. Serv.	Master	Crypto Master	Mobility Master	Radio Radio config
General						
LAN	Enable	e Supplementary	Services			
IP4			Act	ivate	Deactivate	Disable
IP6	Call Forwa	arding Unconditio	nal *21	*\$#	#21#	
LDAP	Call Forwa	arding Busy	*67	*\$#	#67#	
DECT	Call Forwa	arding No Reply	*61	*\$#	#61#	
Unite	Do Not Di	sturb	*42	#	#42#	
Services	Call Waitir	na	*43	#	#43#	
Advanced	Call Completion			546		
Administration	Call Park					
Users	Interceptio	n	-			
Device Overview	Call Servie					
DECT Sync		ce URI (Argumer	(t)		-	
Traffic	Soft key	oc orti (Argumer			_	
Gateway	Logout Us					
Backup	Logout Os	ei -				
Update	Clear Loca	al Setting	*00	#		
Diagnostics	MWI Mode	0	Off			-
Reset	Local Clea	ar of MWI				

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

Note: Message Waiting Indication (MWI) is not supported.

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	32
Fail	0
Comments	16
Not verified	64
Total	112

Please see attached Excel file for detailed test results.

Refer to the test specification for steps related to each test case. Partners can request the test specification from <u>interop@ascom.com</u>.

### **Document History**

Rev	Date	Author	Description
PA1	2023-05-09	SEMW	Initial draft.
PA2	2023-05-15	SEMW	Draft version for internal review.
PA3	2023-05-24	SEMW	Updated version after internal review.
RevA	2023-05-29	SEMW	Final version.