

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Ascom i62 Wireless Handsets with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Session Manager R6.3 – Issue 1.0

Abstract

These Application Notes describe the configuration steps for provisioning Ascom's i62 Wireless Handsets to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Session Manager.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe the configuration steps for provisioning Ascom's i62 Wireless handsets to interoperate with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Session Manager R6.3. Ascom's i62 handsets are configured to register with Avaya Aura® Session Manager and are also configured on Avaya Aura® Communication Manager as 9620 SIP endpoints. The Ascom i62 handsets then behave as third-party SIP extensions on Avaya Aura® Communication Manager able to make/receive internal and PSTN/external calls and have full voicemail and other telephony facilities available on Avaya Aura® Communication Manager.

2. General Test Approach and Test Results

The interoperability compliance testing evaluates the ability of Ascom i62 Wireless sets to make and receive calls to and from Avaya H.323, SIP deskphones, and PSTN endpoints. Avaya Aura® Messaging was used to allow users leave voicemail messages and to demonstrate Message Waiting Indication and DTMF on the Ascom handsets.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

2.1. Interoperability Compliance Testing

The compliance testing included the test scenarios shown below. Note that when applicable, all tests were performed with Avaya SIP deskphones, Avaya H.323 deskphones, Ascom i62 endpoints and PSTN endpoints.

- Basic Calls
- Hold and Retrieve
- Attended and Blind Transfer
- Call Forwarding Unconditional, No Reply and Busy
- Call Waiting
- Call Park/Pickup
- EC500
- Conference
- Do Not Disturb
- Calling Line Name/Identification
- Codec Support
- DTMF Support
- Message Waiting Indication

2.2. Test Results

The following observations were noted during testing.

1. TLS negotiation between the i62 handsets and Session Manager fails. All compliance testing was done using UDP and TCP as the transport protocol.

2.3. Support

Support from Avaya is available by visiting the website <u>http://support.avaya.com</u> and a list of product documentation can be found in **Section 11** of these Application Notes. Technical support for the Ascom i62 wireless handsets can be obtained through a local Ascom supplier. Ascom global technical support:

- Email: <u>support@ascom.se</u>
- Help desk: +46 31 559450

3. Reference Configuration

Figure 1 shows the network topology during compliance testing. The Ascom i62 Wireless Handsets connect to the Wireless router which is placed on the LAN. The i62 handsets register with Session Manager in order to be able to make/receive calls to and from the Avaya H.323 and SIP deskphones on Communication Manager.

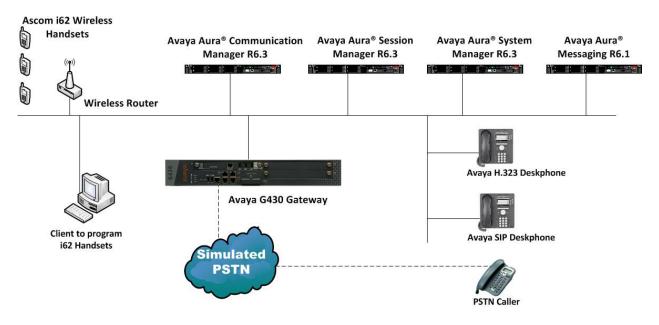


Figure 1: Network Solution of Ascom i62 Wireless Handsets with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Session Manager R6.3

4. Equipment and Software Validated

The following equipment and software was used for the compliance test.

Equipment/Software	Version/Release
Avaya Aura [®] System Manager running on an Avaya S8800 Server	R6.3 SP3 Build 6.3.0.8.5682-6.3.8.1814 Software Update Revision 6.3.3.5.1719
Avaya Aura [®] Communication Manager running on an Avaya S8800 Server	R6.3 SP1 R016x.03.0.124.0
Avaya Aura [®] Session Manager running on an Avaya S8800 Server	R6.3 SP3 6.3.3.0.633004
Avaya Aura® Messaging running on S8800 Server	R6.1
Avaya 96xx Series Deskphone	96xx H.323 Release 3.1 SP2 96xx SIP Release 2.6 SP3
Ascom Device Manager Platform	MS XP Professional SP3
Ascom Device Manager	3.8.1
Ascom i62 Telephone	v. 4.3.16

5. Configure Avaya Aura® Communication Manager

It is assumed that a fully functioning Communication Manager is in place with the necessary licensing with a SIP Trunk in place to Session Manager. For further information on the configuration of Communication Manager please see **Section 11** of these Application Notes. The following sections go through the following.

- Dial Plan Analysis
- Feature Access Codes
- IP Interfaces
- Network Region
- IP Codec

5.1. Configure Dial Plan Analysis

Use the **change dialplan analysis** command to configure the dial plan using the parameters shown below. Extension numbers (**ext**) are those beginning with **2**, **3**, **4** and **5**. Feature Access Codes (**fac**) use digits **8** and **9** or **#**.

change dialp	olan an	alysis	DTAL PLA	N ANALY	SIS TABLE		Page	1 of	12
				cation:			rcent Fu	ıll: 1	
Dialed	Total	Call	Dialed	Total	Call	Dialed	Total	Call	
String	Lengt	h Type	String	Length	Туре	String	Length	Туре	
2	4	ext							
3	4	ext							
4	4	ext							
5	4	ext							
8	1	fac							
9	1	fac							
*	3	dac							
#	3	fac							

5.2. Configure Feature Access Codes

Use the **change feature-access-codes** command to configure feature access codes which can be entered from Ascom handsets to initiate Communication Manager call features. These access codes must be compatible with the dial plan described in **Section 5.1**. The following access codes need to be setup.

•	Answer Back Access Code	:	#22
٠	Auto Alternate Routing (AAR) Access Code	:	8
٠	Auto Route Selection (ARS) - Access Code 1	:	9
٠	Call Park Access Code	:	#11

change feature-access-codes	Page	1 of 10
FEATURE ACCESS CO		
Abbreviated Dialing List1 Access Code:	(1110)	
Abbreviated Dialing List2 Access Code:		
Abbreviated Dialing List3 Access Code:		
Abbreviated Dial - Prgm Group List Access Code:		
Announcement Access Code:		
Answer Back Access Code:	#22	
Attendant Access Code:	-	
Auto Alternate Routing (AAR) Access Code:	8	
Auto Route Selection (ARS) - Access Code 1:	9 Access Code 2:	
Automatic Callback Activation:	Deactivation:	
Call Forwarding Activation Busy/DA: All:	Deactivation:	
	Deactivation:	
Call Park Access Code:	#11	
Call Pickup Access Code:		
CAS Remote Hold/Answer Hold-Unhold Access Code:		
CDR Account Code Access Code:		
Change COR Access Code:		
Change Coverage Access Code:		
Conditional Call Extend Activation:	Deactivation:	
Contact Closure Open Code:	Close Code:	
CDR Account Code Access Code:		
Change COR Access Code:		
Change Coverage Access Code:		
Conditional Call Extend Activation:	Deactivation:	
Contact Closure Open Code:	Close Code:	

5.3. Configure IP Interfaces

Shown below is an example of the nodes names used in the compliance testing. Note that Ascom does not feature in this setup and only the name and IP address of Session Manager is added. Use the **change node-names ip** command to configure the IP address of Session Manager. **SM100** is the **Name** used for Session Manager and **10.10.40.34** is the **IP** Address.

change node-name	es ip		Page	1 of	2
		IP NODE NAMES			
Name	IP Address				
SM100	10.10.40.34				
default	0.0.0.0				
G430	10.10.40.18				
procr	10.10.40.13				
procr6	::				

PG; Reviewed: SPOC 12/29/2013

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5.4. Configure Network Region

Use the **change ip-network-region x** (where x is the network region to be configured) command to assign an appropriate domain name to be used by Communication Manager, in the example below **devconnect.local** is used. Note this domain is also configured in **Section 6.1** of these Application Notes.

```
change ip-network-region 1
                                                               Page 1 of 20
                              TP NETWORK REGION
 Region: 1
Location: 1
                Authoritative Domain: devconnect.local
   Name: default NR
MEDIA PARAMETERS
     PARAMETERS
Codec Set: 1
                               Intra-region IP-IP Direct Audio: yes
                               Inter-region IP-IP Direct Audio: yes
   UDP Port Min: 2048
                                          IP Audio Hairpinning? y
  UDP Port Max: 3329
DIFFSERV/TOS PARAMETERS
 Call Control PHB Value: 46
       Audio PHB Value: 46
       Video PHB Value: 26
802.1P/Q PARAMETERS
Call Control 802.1p Priority: 6
       Audio 802.1p Priority: 6
       Video 802.1p Priority: 5
                                    AUDIO RESOURCE RESERVATION PARAMETERS
H.323 IP ENDPOINTS
                                                       RSVP Enabled? n
 H.323 Link Bounce Recovery? y
 Idle Traffic Interval (sec): 20
  Keep-Alive Interval (sec): 5
            Keep-Alive Count: 5
```

5.5. Configure IP-Codec-Set

Use the **change ip-codec-set x** (where x is the ip-codec set used) command to designate a codec set compatible with the Ascom Handsets, which support both **G.711A** and **G.729A**.

```
change change ip-codec-set 1
                        IP Codec Set
   Codec Set: 1
              Silence
   Audio
                           Frames
                                    Packet
   Codec
               Suppression Per Pkt Size(ms)
 1: G.711A
                             2
                                      20
                   n
 2: G.729A
                    n
                              2
                                      20
```

1 of

Page

2

5.6. Configuration of Coverage Path and Hunt Group for Voicemail

The coverage path setup used for compliance testing is illustrated below. Note the following: **Don't' Answer** is set to y The coverage path will be used in the event the phone set

Number of Rings is set to 4 Point 1: is set to h59 is not answered The coverage path will be used after 4 rings Hunt Group 59 is utilised by this coverage path

display coverage path 1			
	COVERAGE E	PATH	
Cvg Enabled for VDN F	ge Path Number: 1 Route-To Party? n st Path Number:	Hunt ai Linkage	fter Coverage? n e
COVERAGE CRITERIA			
Station/Group Status	Inside Call	Outside Call	
Active?	n	n	
Busy?	У	У	
Don't Answer?	У	У	Number of Rings: 4
All?	n	n	
DND/SAC/Goto Cover?	У	У	
Holiday Coverage?	n	n	
COVERAGE POINTS Terminate to Coverage	Pts. with Bridged	Appearances?	n
	Rng: Point2:		
Point3:	Point4:		
Point5:	Point6:		

The hunt group used for compliance testing is shown below. Note on Page 1 the Group Extension is 5999 which is the voicemail pilot number for Messaging and on Page 2 Message Center is set to sip-adjunct, and both Voice Mail Number and Voice Mail Handle were set to 5999.

display hunt-group 59			Page	1 of	60
	HUI	NT GROUP			
Group Number:	59	ACD?	n		
Group Name:	Voicemail	Queue?	n		
Group Extension:	5999	Vector?	n		
Group Type:	ucd-mia	Coverage Path:			
TN:	1	Night Service Destination:			
COR:	1	MM Early Answer?	n		
Security Code:		Local Agent Preference?	n		
ISDN/SIP Caller Display:	mbr-name				
diaplay hunt group EQ			Dama	2 of	60

display hunt-group 59	HUNT GROUP	Page 2 of 60
Message	Center: sip-adjunct	
Voice Mail Number	Voice Mail Handle	Routing Digits AAR/ARS Access Code)
5999	5999	8

6. Configure Avaya Aura® Session Manager

The Ascom i62 Wireless Handsets are added to Session Manager as SIP Users. In order to make changes in Session Manager a web session to System Manager is opened.

6.1. Configuration of a Domain

Navigate to http://<System Manager IP Address>/SMGR, enter the appropriate credentials and click on **Log On** as shown below.

AVAYA	Avaya Aura ◎	System Manager 6.3	
Home / Log On			
Log On			
Recommended access to Syst FQDN. Go to central login for Single J If IP address access is your o that authentication will fail in • First time login with "a • Expired/Reset password Use the "Change Password" to change the password man Also note that single sign-on same security domain is not accessing via IP address.	Sian-On Inly option, then note the following cases: dmin" account rds hyperlink on this page ually, and then login. between servers in the	User ID: admin Password: Supported Browsers: Internet Explorer 8.x, 9.x or 10.x or Firefox 15.0, 16.0 or 17.0.	Log On Cancel Change Password

Once logged in click on **Routing** highlighted below.

AVAYA Avay	a Aura® System Manager 6.3	Last Logged on at August 29, 2013 Help About Change Password Log o
Users	Elements	Services
Administrators Manage Administrative Users Directory Synchronization Synchronize users with the enterprise directory Groups & Roles Manage groups, roles and assign roles to users User Management Manage users, shared user resources and provision users	Communication Manager Manage Communication Manager 5.2 and higher elements Communication Server 1000 elements Conferencing Manage Conferencing Multimedia Server objects IP Office Manage IP Office elements Meeting Exchange Manage Reeting Exchange and Avaya Aura Conferencing 6.0 elements Messaging Manage Avaya Aura Messaging, Communication Manager Messaging, and Modular Messaging Presence Routing Session Manager Routing Administration	Backup and Restore Backup and restore System Manager database Bulk Import and Export Manage Bulk Import and Export of Users, User Global Settings, Roles, Elements and others Configurations Manage system wide configurations Events Manage alarms,view and harvest log Geographic Redundancy Manage deographic Redundancy Inventory Manage, discover, and navigate to elements Licenses View and configure licenses Replication Track data replication nodes, repair replication nodes Scheduler Schedule, track, cancel, update and delete jobs
	Session Manager Administration,	Security

Click on **Domains** in the left window. If there is not a domain already configured click on **New** highlighted below.

AVAYA	Avaya Aura® System Manag	er 6.3		Last Logged on at October 1, 20 Help About Change Password Log
				Routing *
▼ Routing	Home / Elements / Routing / Domains			
Domains	Domain Management			
Locations				
Adaptations SIP Entities	New Edit Delete Duplicate More Actions •			
	2 Items Refresh			Filter
Entity Links	Name	Туре	Notes	
Time Ranges				
Routing Policies				
Dial Patterns	Select : All, None			
Regular Expressions				
Defaults				

Note the domain **Name** used in the compliance testing was **devconnect.local**. Note this domain is also referenced in **Section 5.4**. Once the domain name is entered click on **Commit** to save this.

AVAYA	Avaya Aura [®] Sy	stem Manager 6.3	Last Logged (Help About Chang	on at October 1, 20 e Password Log
				Routing *
Routing	Home / Elements / Routing / Domains	s		
Domains Locations	Domain Management		Commit Cancel	
Adaptations				
SIP Entities	1 Item Refresh			Filter
Entity Links	Name	Туре	Notes	
Time Ranges	* devconnect.local	sip 💉		
Routing Policies				
Dial Patterns				
Regular Expressions			Commit Cancel	
Defaults			Connic Cancel	

6.2. Configuration of SIP Entities

Log into System Manager as described in **Section 6.1** above, click on **SIP Entities** highlighted below.

AVAYA	Avaya Aura® System Manager 6.3
▼ Routing	Home /Elements / Routing
Domains	
Locations	Introduction to Network Routing Policy
Adaptations	Network Routing Policy consists of several routing applications like "Domains", "Locations", "SIP Entities", etc.
SIP Entities	The recommended order to use the routing applications (that means the overall routing workflow) to configure
Entity Links	
Time Ranges	Step 1: Create "Domains" of type SIP (other routing applications are referring domains of type SIP).
Routing Policies	Step 2: Create "Locations"
Dial Patterns	Step 3: Create "Adaptations"
Regular Expressions	Char & Careka IICID Enclinical
Defaults	Step 4: Create "SIP Entities"
	- SIP Entities that are used as "Outbound Proxies" e.g. a certain "Gateway" or "SIP Trunk"
	- Create all "other SIP Entities" (Session Manager, CM, SIP/PSTN Gateways, SIP Trunks)

Clicking on **SIP Entities** shows what SIP Entities have been added to the system and allows the addition of any new SIP Entity that may be required. Please note the SIP Entities present for the Compliance Testing of Ascom i62 Wireless Handsets.

- Communication Manager SIP Entity
- Session Manager SIP Entity
- Messaging SIP Entity

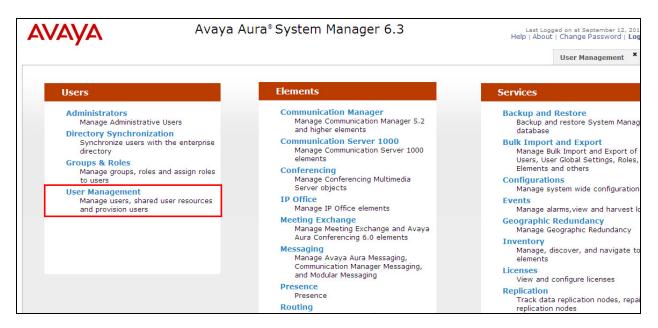
Note: There is no SIP Entity present or required for Ascom.

AVAYA		Avaya Aura® System I	Manager 6.3	Help Al
* Routing	₄ Home	e /Elements / Routing / SIP Entitie	5	
Domains				
Locations	SIP E	ntities		
Adaptations	Edit	New Duplicate Delete	More Actions *	
SIP Entities	Eur	New Duplicate Delete	More Actions	
Entity Links	2 Ibc	ems Refresh		
Time Ranges	1000			
Routing Policies		Name	FQDN or IP Address	Туре
Dial Patterns		AAMessaging	192.168.50.60	Modular Messaging
Regular Expressions		CommunicationManager	192.168.50.13	CM
		SessionManager	192.168.50.16	Session Manager
Defaults	Sele	ct : All, None		
		- Create all "other SIP Entities"	(Session Manager, CM, SIP/PSTN Gateways,	SIP Trunks)

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6.3. Adding Ascom SIP Users

From the home page click on User Management highlighted below.



Click on Manage Users. Click on New highlighted to add a new SIP user.

AVAYA	Avaya Aura® System Manager 6.3			Last Logged on at September 12, 20 Help About Change Password Lo		
					User Ma	nagement ×
User Management	Home / Users / User	ser Management / M	anage Users			
Manage Users						
Public Contacts	User Manag	jement				
Shared Addresses						
System Presence ACLs	Users					
	View Edit New	Duplicate Delete	More Actions 🔻			Advanced 9
	23 Items Refresh 9	Show 15 💌				Filte
	23 Items Refresh S	Show 15 💌 First Name	Display Name	Login Name	SIP Handle	Filte
			Display Name Ascom, DECT4000	Login Name 4000@devconnect.local	SIP Handle	Filte
	Last Name	First Name				Filte
	Last Name	First Name DECT4000	Ascom, DECT4000	4000@devconnect.local	4000	Filte
	Last Name Ascom Ascom	First Name DECT4000 DECT4001	Ascom, DECT4000 Ascom, DECT4001	4000@devconnect.local 4001@devconnect.local	4000 4001	

Under the **Identity** tab fill in the user's **Last Name** and **First Name** as shown below. Enter the **Login Name** and ensure **Authentication Type** is set to **Basic**. Enter a suitable **Password**.

AVAYA	Avaya Aura® System Manager 6.3	Last Logged on at September 12, 20 Help About Change Password Lo
		User Management
User Management	Home / Users / User Management / Manage Users	
Manage Users		
Public Contacts	User Profile Edit: 4106@devconnect.local	Commit & Continue Commit
Shared Addresses		
System Presence ACLs	Identity * Communication Profile * Membership Contacts	
	Identity 🔹	
	* Last Name: Ascom	
	* First Name: WLESS4106	
	Middle Name:	
	Description:	
	Update Time : September 10, 2013 10	
	* Login Name: 4106@devconnect.loca	
	* Authentication Type: Basic	
	Change Password	
	New Password:	
	Confirm Password: ••••••	
		🔽 🌑 Internet 🛛 🖗

Under the **Communication Profile** tab enter a suitable **Communication Profile Password** and click on **Done** when added, note that this password is required when configuring the Ascom handset in **Section 8**. Click on **New** to add a new **Communication Address**.

Identity * Communication Profile * Membership	Contacts	
Communication Profile 👻		
Communication Profile Password: ••••	•••••••••• Edit	
New Delete Done Cancel		
Name		
Primary		
Select : None		
* Name: Prima	ry	
Default :		
Communication Address 🔹		
New Edit Delete		
Туре	Handle	Domain

Enter the extension number and the domain for the **Fully Qualified Address** and click on **Add** once finished.

Communio	cation Address 💌			
New Edit	Delete			
🗌 Туре		Handle	Domain	
🗹 Avaya	SIP	4106	devconnect.local	
Select : All, N	None			
	Туре	: Avaya SIP	~	
	* Fully Qualified Address	4106	devconnect.local 💌	
				Add Cancel

Ensure Session Manager Profile is checked and enter the Primary Session Manager details, enter the Origination Application Sequence and the Termination Application Sequence and the Home Location as highlighted below. Note that CMAPPSEQ is an application sequence that corresponds to the Communication Manager in the test configuration and has been configured in the system previously.

* Primary Session Manager	SessionManager 👻	Primary	Secondary	Maximun
rinnary session manager	Bession manager	12	0	12
Constant Constant Management	(None)	Primary	Secondary	Maximum
Secondary Session Manager	(None) 💙			
Origination Application Sequence	CMAPPSEQ 💌			
Termination Application Sequence	CMAPPSEQ 🛩			
Conference Factory Set	(None) 💙			
Survivability Server	(None)			
* Home Location	DevconLAB 🗸			

Ensure that **CM Endpoint Profile** is selected and choose the **DEFAULT_9620SIP_CM_6_3** as the **Template** and ensure **Port** is set to **IP**. Click **Endpoint Editor** to configure the buttons and features for that handset on Communication Manager.

CM Endpoint Prof	ile 💌		
	* System	CM63VMPG	~
	* Profile Type	Endpoint	~
Use Ex	isting Endpoints		
	* Extension	Q4106 Endpoin	nt Editor
	Template	9620SIP_DEFAULT_CM_6_	3 💌
	Set Type	9620SIP	
	Security Code		
	Port	Q,IP	
Ve	oice Mail Number	5999	
F	Preferred Handle	(None)	*
Enhanced Callr-Info	display for 1-line phones		
Delete Endpoi Endpoint from User o	int on Unassign o or on Delete User	f	
Override	e Endpoint Name		

Under the **General Options** tab ensure that **Coverage Path 1** is set to that configured in **Section 5.6**. Also ensure that **Message Lamp Ext.** is showing the correct extension number.

General Options (G) Feature Options (F) Site Data (S) Abbreviated Call Dialing (A) Enhanced Call Fwd (E) Button Assignment (B) Group Membership (M) Image: Comparison of the comparis					
 Class of Restriction (COR) Emergency Location Ext 	1 4106	 Class Of Service (COS) Message Lamp Ext. 	1		
* Tenant Number * SIP Trunk Coverage Path 1	1 Q.1 1	Type of 3PCC Enabled Coverage Path 2	None 💌		
Lock Message Multibyte Language	Not Applicable	Localized Display Name	Ascom, WLESS4100		
*Required					

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General Options (G) *	Feature Options (F)	Site Data (S)	Abbreviated Call Dialin	g (A)	Enhanced Call Fwo	d (E)
Button Assignment (B)	Group Membership (M)				
Active Station Ringing	single 💌		Auto Answer	none	e 🗸	
MWI Served User Type	sip-adjunct 💌		Coverage After Forwarding	syst	em 💌	
Per Station CPN - Send Calling Number	None 💌		Display Language	engl	ish 💌	
AUDIX Name	None 🔽		Hunt-to Station			
Remote Soft Phone Emergency Calls	as-on-local 🗸		Loss Group	19		
LWC Reception	spe 💌		Survivable COR	inte	mal 💌	
IP Phone Group ID			Time of Day Lock Table	Non	e 💙	
Speakerphone	*					
Short/Prefixed Registration Allowed	default 🗸		Voice Mail Number	5999		
EC500 State	enabled 💌					

7. Configure Avaya Aura® Messaging

It is assumed that a fully working messaging system is in place and the necessary configuration for Communication Manager and Session Manager has already been done. For further information on the installation and configuration of Messaging please refer to **Section 11** of these Application Notes.

Navigate to http://<Messaging IP Address>. Enter the appropriate credentials and click on **Logon** highlighted below.

😭 🏟 🗛 AAMessagingPG		🟠 🔹 🔝 👘 🖶 🖓 Page 🕶 🎧 Tools 🕶
AVAYA		Avaya Aura [®] Messaging System Management Interface (SMI
Help Log Off		This Server: AAMessagingPC
	Logon ID: username Password:	

Once logged on select Messaging under Administration as shown below.

AVAYA	Avaya Aura [®] System Management Int
Help Log Off Administration	
Licensing	This Server: A/
Messaging Server (Maintenance)	
	System Management Interface
	© 2001-2011 Avaya Inc. All Rights Reserved.
	Copyright
Except where expre	ssly stated otherwise, the Product is protected by copyright and other laws respecting proprietary rights.
Unauthorized re	production, transfer, and or use can be a criminal, as well as a civil, offense under the applicable law.
	Third-party Components
terms that expand or limit rights to use certain p	ncluded in the Product may contain software distributed under third party agreements ("Third Party Components"), which may contain portions of the Product ("Third Party Terms"). Information identifying Third Party Components and the Third Party Terms that apply to hem are available on Avaya's web site at: <u>http://support.avaya.com/ThirdPartyLicense/</u>
	Trademarks
	Avaya is a trademark of Avaya Inc.

Click on User Management in the left hand column and click on Add under Add User/Info Mailbox as highlighted below.

Αναγα	
Help Log Off	Administration
Administration / Messaging	
Messaging System (Storage) User Management Class of Service Sites Topology Storage Destinations	User Management
System Policies Enhanced List Management System Mailboxes System Ports and Access	License Status License mode: Normal
User Activity Log Configuration Reports (Storage) Users Info Mailboxes	Edit User/Info Mailbox Edit a user's properties. Possible identifiers are: mailbox number.
Remote Users Uninitialized Mailboxes Login Failures Locked Out Users Server Information	Identifier:
System Status (Storage) System Status (Application) Alarm Summary Voice Channels (Application) Cache Statistics (Application)	Add User/Info Mailbox Add a new user:
Server Settings (Storage) External Hosts	Add a new Info Mailbox:

Enter a suitable **First Name** and **Last Name**. Select the appropriate **Site** from the drop down box. Enter the correct **Mailbox number** and **Extension**. Select the appropriate **Class of Service**.

AVAYA			
Help Log Off	Administration		
Administration / Messaging			
lessaging System (Storage) User Management Class of Service Sites Topology Storage Destinations	User Managen	ent > Properties for New User	
System Policies	First name:	Test	
Enhanced List Management System Mailboxes	Last name:	Set 4106	
System Ports and Access	Display name:		
User Activity Log Configuration	ASCII name:		_
eports (Storage) Users	ASCII name;		
Users Info Mailboxes			
Remote Users	Site:	Messaging_PG 💙	
Uninitialized Mailboxes		ricesaging_, o	
Login Failures			
Locked Out Users	Mailbox number:	4106	
System Status (Storage)			
System Status (Application)			
Alarm Summary	Extension:	4106	
Voice Channels (Application)	Include in Auto Att	endant directory	
Cache Statistics (Application)			
rver Settings (Storage) External Hosts	Additional extensions:		
rusted Servers			
letworked Servers			
Request Remote Update			
AP/SMTP Settings (Storage)			
Seneral Options			
Mail Options	Class of Service:	Standard 💙	
IMAP/SMTP Status	* L		

Ensure that **MWI Enabled** is set to **Yes**. Enter a suitable **password** and click on **Save** once finished.

Αναγα		
Help Log Off	Administration	
Administration / Messaging		
Messaging System (Storage)	Class of Service:	Standard 💌
Sites Topology Storage Destinations System Policies	Pronounceable name:	
Enhanced List Management System Mailboxes System Ports and Access	MWI enabled:	Yes
User Activity Log Configuration Reports (Storage) Users Info Mailboxes Remote Users	Miscellaneous 1: Miscellaneous 2:	
Uninitialized Mailboxes Login Failures Locked Out Users Server Information	New password: Confirm password:	•••••
System Status (Storage) System Status (Application) Alarm Summary Voice Channels (Application) Cache Statistics (Application) Server Settings (Storage) External Hosts Trusted Servers Networked Servers Request Remote Update	User must change Voice messaging p Locked out from vo	

8. Configure Ascom i62 Wireless Handsets

The configuration of the i62 Wireless handsets is done using Ascom's WinPDM software installed on a PC. Attach the Ascom DP1 USB Cradle to a PC on which the Ascom Device Manager (WinPDM) has been installed. Insert the handset to be configured in the DP1 USB Cradle, start the Ascom Device Manager, select the **Numbers** tab and click **New** icon highlighted below.

AMX Server -	Ascom WinPDM
File Device Numl	ber Template License Options Help
Devices Numbers	Templates Licenses
New Edit Delete	
Device types:	Search for: in: Number Show all
(All)	Number Device type Parameter version Device ID Online Status
i62 Talker	

8.1. Configure SIP settings

Select VoIP \rightarrow General from the left window. In the main window ensure the following are set.

- Replace Call Rejected with User Busy Yes
- VoIP Protocol
- Codec configuration
- Codec packetization time
- Internal call number length
- Endpoint number
- Endpoint ID

SIP

G.711A-law (as set in Section 5.5)

20 4

Ext number of set as set in **Section 6.3** Ext number of set as set in **Section 6.3**

🛿 Edit parameter	; for 4106	
Device type: i6 Parameter version: 1	2 Talker 4.150	
Network	Name Replace Call Rejected with User Busy VoIP protocol Codec configuration Codec packetization time configuration Offer Secure RTP Internal call number length Endpoint number Endpoint ID	Value Value Yes 2 SIP 2 G.711 A-law 2 20 2 No 2 4 2 4106 2 4106 2
		OK Cancel

Select the **VoIP** \rightarrow **SIP** menu point, and enter the values shown below.

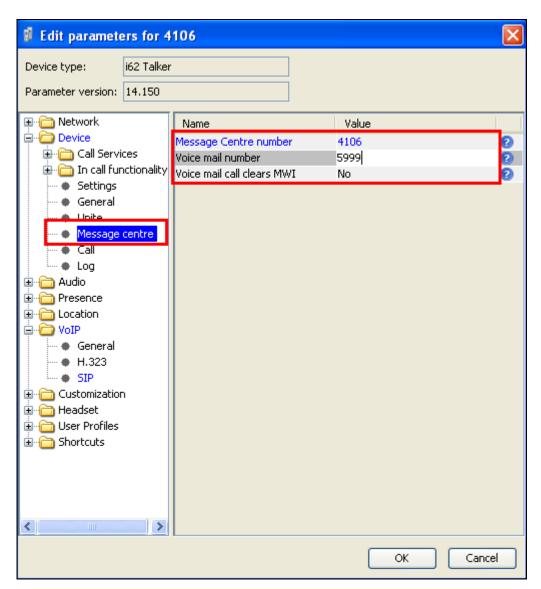
- SIP proxy IP address
- SIP proxy password
- Registration identity
- Authentication identity
- SIP Register Expiration
- IP address of Session Manager Password assigned to the endpoint in Section 6.3 Enter Endpoint ID Enter Endpoint ID 120 (recommended value)

💈 Edit parameters for 4	106		×						
Device type: i62 Talker									
Parameter version: 14.150									
🕀 🛅 Network	Name	Value							
🗄 🛅 Device	SIP Transport	TCP	2						
🖻 💼 Audio	Outbound proxy mode		2						
🔄 🛅 Presence	Primary SIP proxy		2						
🗄 🛅 Location	Secondary SIP proxy		2						
🖨 🗁 VoIP	Listening port		2						
🗝 🏶 General	SIP proxy ID		2						
H.323	SIP proxy password	***	2						
- I SIP	Send DTMF using RFC 2833 or	SIP INFO	2						
🗐 🛅 Customization	Hold type		2						
🗄 🛅 Headset	Registration identity	Endpoint number	2						
🗄 🛅 User Profiles	Authentication identity		2						
🗄 📹 Shortcuts	Call forward locally	No	2						
	MOH locally		2						
	Hold on Transfer		2						
	Direct signaling		2						
	5IP Register Expiration	120	2						
	SIP Message behavior	Ignore	2						
		OK Cancel							

For further information about the Ascom i62 WiFi configurations please refer to Ascom's documentation in **Section 11** of these Application Notes. This section covers specific settings concerning SIP.

8.2. Configure Message Centre

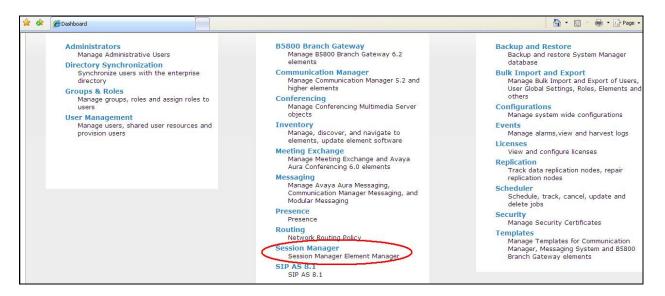
Click on **Device** \rightarrow **Message centre** in the left window. In the right window enter the **Voice mail number** as configured in **Section 5.6** and the **Message Centre number** which is the extension number of the handset.



9. Verification Steps

The following steps can be taken to ensure that connections between Ascom i62 handsets and Session Manager and Communication Manager are up.

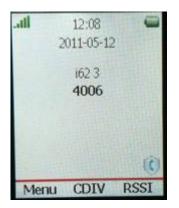
Log into System Manager as done previously in **Section 6.1**, select **Session Manager** as highlighted below.



Select **System Status** and **User Registrations** in the left column. This displays the users that are currently registered with Session Manager. The i62 users should show as being registered as they are below for extensions **4106** and **4108** highlighted.

AVAYA		Д	waya Aura® S	ystem	Mana	iger 6.3		He	Last About	Logged on a Change Pa	it October 1 assword	, 2013 3 Log off	47 F adn
										Session	Manager	×He	ome
Session Manager	Home	e / Eleme	nts / Session Manag	er / System	Status	/ User Registrat	ions						
Dashboard												He	elp
Session Manager	Use	er Regi	istrations										
Administration		rows to ser	nd notifications to devices.	Click on Detail	s column	for							
Communication Profile											c	ustomiz	e (
Editor				AST De	ules (
Network Configuration	Vie	w • Def	ault Force Unregiste	Notifica		Reboot Reload	Failback As o	f 1:05 PM			Advance	d Seard	h 🖲
Device and Location	22 Ite	22 Items Refresh Show 15 💌							Filter: Enab			able	
Configuration		Details	Address	First	Last	Actual	IP Address	Remote	Shared	Simult.	AST	Re	egis
Application		Details	Address	Name	Name	Location	II Address	Office	Control	Devices	Device	Prim	s
Configuration		▶ Show	4108@devconnect.local	WLESS4108	Ascom	DevConnectPG63	10.10.40.248:5060			1/1		(AC)	
▼ System Status		▶ Show	4106@devconnect.local	WLESS4106	Ascom	DevConnectPG63	10.10.40.243:5060			1/1		(AC)	
SIP Entity Monitoring		▶ Show	1001@devconnect.local	EXT1001	SIP	DevConnectPG63	10.10.40.155:5061			1/1	V	(AC)	
Managed Bandwidth		▶ Show	1000@devconnect.local	EXT1000	SIP	DevConnectPG63	10.10.40.153:5061			1/1	\checkmark	(AC)	
Usage		▶ Show		DECT4009	Ascom	12221				0/1			
Security Module		▶ Show		DECT4005	Ascom					0/1			
Status		▶ Show		DECT4003	Ascom	1				0/1			
		▶ Show		DECT4007	Ascom	1000				0/1			
Registration		Show		DECT4001	Ascom					0/1			
Summary		Show		DECT4006	Ascom					0/1			

Solution & Interoperability Test Lab Application Notes ©2013 Avaya Inc. All Rights Reserved. 26 of 29 Ascomi62_CM63 The Ascom i62 handset connection to Session Manager can be verified by an absence of an error message on the handset display just above the red line at the bottom of the display, as shown in the following illustration, (note this is an example from a previous testing).



10. Conclusion

These Application Notes describe the configuration steps required for Ascom's i62 Wireless Handsets to successfully interoperate with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Session Manager R6.3 by registering the Ascom Handsets with Avaya Aura® Session Manager as third-party SIP phones. Please refer to **Section 2.2** for test results and observations.

11. Additional References

This section references documentation relevant to these Application Notes. The Avaya product documentation is available at <u>http://support.avaya.com</u> where the following documents can be obtained.

- [1] Administering Avaya Aura® Communication Manager, Document ID 03-300509
- [2] Avaya Aura® Communication Manager Feature Description and Implementation, Document ID 555-245-205
- [3] Implementing Avaya Aura® Session Manager Document ID 03-603473
- [4] Administering Avaya Aura® Session Manager, Doc ID 03-603324

Please see below for a list of documentation used during the compliance testing information on Ascom i62 Wireless Handsets. A full list of Ascom's technical documentation is available through a local supplier. Please refer to **Section 2.3** of these Application Notes for information on Ascom support.

- [5] User Manual Ascom i62 VoWiFi Handset (TD 92599EN)
- [6] Configuration Manual Ascom i62 VoWiFi Handset (TD 92675EN)
- [7] System Description Ascom VoWiFi System (TD 92313EN)
- [8] System Planning Ascom VoWiFi System (TD 92408EN)

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