

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring the Agito Networks RoamAnywhere Mobility Router with an Avaya Telephony Infrastructure using Avaya Communication Manager - Issue 1.0

Abstract

These Application Notes describe a compliance-tested configuration comprised of the Agito Networks RoamAnywhere Mobility Router connected to an Avaya telephony infrastructure. The Agito Networks RoamAnywhere Mobility Router fuses WLAN, Cellular and IP Private Branch Exchanges (PBXs) technology in order to extend enterprise PBX functionality to mobile devices. This allows end users to be accessible when out of the office as well as to leverage WLAN networks to improve wireless coverage and reduce costs. The Agito Networks RoamAnywhere Mobility Router integrates mobile devices with existing PBXs so that the PBX sees the mobile device as another desk phone. This allows the existing PBX feature set to be applied consistently across both devices. Mobile specific functionality is then layered on top.

Information in these Application Notes has been obtained through 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 a compliance-tested configuration comprised of the Agito Networks RoamAnywhere Mobility Router connected to an Avaya telephony infrastructure. The Agito Networks RoamAnywhere Mobility Router fuses WLAN, Cellular and IP PBX technology in order to extend enterprise PBX functionality to mobile devices. This allows end users to be accessible when out of the office as well as to leverage WLAN networks to improve wireless coverage and reduce costs. The Agito Networks RoamAnywhere Mobility Router integrates mobile devices with existing Private Branch Exchanges (PBXs) so that the PBX sees the mobile device as another desk phone. This allows the existing PBX feature set to be applied consistently across both devices. Mobile specific functionality is then layered on top.

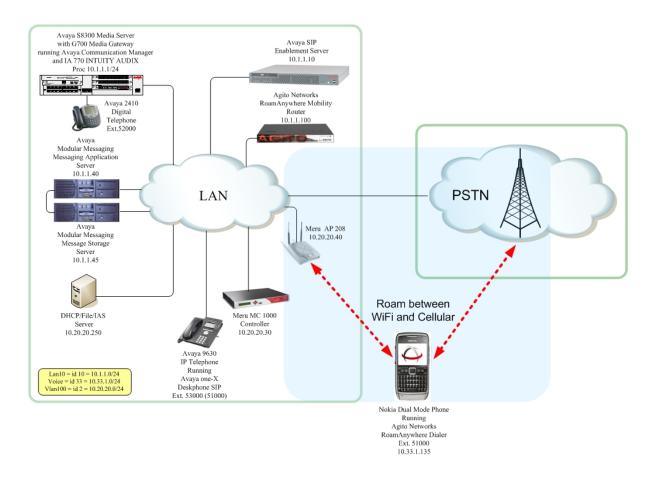
The Agito RoamAnywhere Solution uses a combination of SIP lines and trunks to integrate with Avaya Communication Manager. SIP lines are used so that Agito-controlled mobile devices appear as standard SIP phones and therefore benefit from the common set of PBX services offered to such devices. SIP trunks are used when the Agito RoamAnywhere solution must terminate a call via the Public Switched Telephone Network (PSTN).

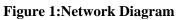
The RoamAnywhere Solution transparently handles all mobile call originations from a user's mobile device and redirects them through the enterprise leveraging the WLAN network when available or routing over cellular when outside of WLAN coverage areas. This allows calls made from a mobile device to receive the same originating services (e.g., Abbreviated Dialing, Class of Service, Accounting, etc.) as a desk phone.

1.1. Test Environment

The test environment consisted of an Avaya Communication Manager running on an Avaya S8300 Server with an Avaya G700 Media Gateway, one Avaya SIP Enablement Services server, one Avaya Modular Messaging Application Server, one Avaya Modular Messaging Storage Server, one Avaya 2400 Series Digital Telephone, one Avaya 9630 IP Telephone running Avaya one-XTM Deskphone SIP, one Agito RoamAnywhere Mobility Router, one dual mode cell phone running Agito Networks RoamAnywhere Mobility Dialer, one WiFi controller and access point and one DHCP/File Server.

Additional Avaya endpoints were tested (see Section 2) but are not shown in Figure 1.





2. Equipment and Software Validated

The following equipment and software/firmware were used for the sample configuration provided:

Equipment	Software/Firmware
Avaya S8300 Server	Avaya Communication Manager
Avaya 50500 Server	5.1
Avaya G700 Media Gateway	
MGP	26.31.0
MM712 DCP Media Module	HW05 / FW08
Avaya SIP Enablement Services (SES) Server	5.1
Avaya Modular Messaging - Messaging Application	4.0
Server (MAS)	4.0
Avaya Modular Messaging - Message Storage Server	4.0
(MSS)	4.0
Avaya IA 770 INTUITY AUDIX	5.1
Avaya 9600 Series IP Telephones	Avaya one-X Deskphone SIP 2.0.3
Avaya 9600 Series IP Telephones	Avaya one-X Deskphone Edition 2.0
Avaya 1600 Series IP Telephones	1.0.3
Avaya 4600 Series IP Telephones	SIP (2.2) H.323 (2.9)
Avaya 2410 Digital Telephone	5.0
Agito Networks RoamAnywhere Mobility Router	2.0.0.137
Agito Networks RoamAnywhere Mobility Dialer	2.0.2.48
Nokia N95 (Dual Mode handset)	V20.0.013
Nokia E71 (Dual Mode handset)	100.07.76

3. Configure Avaya Communication Manager

This section describes the steps required for Avaya Communication Manager to support the configuration shown in **Figure 1**. The following pages provide instructions on how to administer the required configuration parameters. The assumption is that the appropriate license and authentication files have been installed on the servers and that login and password credentials are available. It is assumed that the reader has a basic understanding of the administration of Avaya Communication Manager and has access to the System Administration Terminal (SAT) screen. For detailed information on the installation, maintenance, and configuration of Avaya Communication Manager, please consult references 1 thru 4 in Section 9.

3.1. IP Codec Set

This section describes the steps for administering the codec set in Avaya Communication Manager. This codec set is used in the IP Network Region for the SIP trunk between the Avaya Communication Manager and Avaya SES.

Description Enter the **change ip-codec-set g** command, where "g" is a number between 1 and 7, inclusive, and enter "**G.711MU**" for **Audio Codec**. This IP codec set will be selected later in the IP Network Region form to define which codecs may be used within an IP network region.

Page

1 of

2

```
change ip-codec-set 1

IP Codec Set

Codec Set: 1

Audio Silence Frames Packet

Codec Suppression Per Pkt Size(ms)

1: G.711MU n 2 20

2:
```

3.2. IP Node Names

This section describes the steps for setting IP node name for Avaya SES in Avaya Communication Manager.

```
Description
Enter the change node-names ip command, On page 1 of the change node-names ip form,
enter the name for the SES, "SES", and enter the IP address of the SES, "10.1.1.10".
change node-names ip
                                                                         1 of
                                                                                2
                                                                  Page
                                   IP NODE NAMES
    Name
                      IP Address
AES-DevCon2
                    192.45.100.153
SES
                    10.1.1.10
default
                    0.0.0.0
                    10.1.1.45
mm
                    10.1.1.20
msgserver
                    10.1.1.1
procr
```

3.3. IP Network Region

This section describes the steps for administering the IP Network Region in Avaya Communication Manager for communication between Avaya Communication Manager and Avaya SIP Enablement Services.

```
Description
Enter the change ip-network-region h command, where "h" is a number between 1 and 250,
inclusive. On page 1 of the ip-network-region form, set Codec Set to the number of the IP
codec set configured in Step 1.
change ip-network-region 1
                                                                         Page
                                                                                 1 of 19
                                   IP NETWORK REGION
  Region: 1
Location: 1
                  Authoritative Domain: dev4.com
    Name: 1
MEDIA PARAMETERS
                                    Intra-region IP-IP Direct Audio: yes
      Codec Set: 1
                                    Inter-region IP-IP Direct Audio: yes
   UDP Port Min: 2048
                                                 IP Audio Hairpinning? n
   UDP Port Max: 3329
Call Control PHB Value: 46
Audio PHB Value: 46
Video PHB Value: 26
RTCP Reporting Enabled
RTCP MONITOR SERVER PARAMETERS
Use Default Server Parameters
DIFFSERV/TOS PARAMETERS
                                              RTCP Reporting Enabled? y
                                     Use Default Server Parameters? y
```

3.4. Trunks and Signaling Groups for Avaya SES

This section describes the steps for administering the trunk groups and signaling groups in Avaya Communication Manager for communication between Avaya Communication Manager and Avaya SES. A second SIP trunk needs to be created because the Agito Mobility Router inputs its own IP address as the domain in the **From** header of the SIP packet. This is created in section 3.6.

These SIP trunks will carry the SIP signaling sent to the Agito Mobility Router for mobile originated and terminated calls. This SIP trunk will also provide the trunking for calls originated by the Agito Mobility Router when acting as a SIP endpoint to support intelligent call delivery.

3.5. Create SIP Trunk with Domain Information

Step	Description					
1.	Enter the add trunk-group i command, where "i" is an available trunk group number. On Page 1 of the trunk-group form, configure the following:					
	 Group Type – set to "sip" Group Name – enter a meaningful name/description. TAC – enter a Trunk Access Code that is valid under the provisioned dial plan. Service Type – set to "tie" 					
	add trunk-group 1 Page 1 of 21 TRUNK GROUP					
	Group Number: 1Group Type: sipCDR Reports: yGroup Name: T0 SESCOR: 1TN: 1TAC: *001Direction: two-wayOutgoing Display? nDial Access? nNight Service:Queue Length: 0Service Type: tie					
	Signaling Group: Number of Members: 0					

Step	Description
2.	Enter the add signaling group j command, where "j" is an available signaling group number. On Page 1 of the signaling-group form, configure the following:
	 Group Type – set to "sip" Transport Method – set to "tcp" Near-end Node Name – enter the node name of a local C-LAN board, or "procr" if the local node is an Avaya S8300 Server. Near-end Listen Port – specify the local listen port, typically 5060. Far-end Node Name – enter the node name of the SES configured in Section 3.2 Far-end Listen Port – specify the local listen port, typically 5060. Far-end Listen Port – specify the local listen port, typically 5060. Far-end Listen Port – specify the local listen port, typically 5060. Far-end Domain – dev4.com Far-end Network Region – enter the IP network region configured in Section 3.3 DTMF over IP – set to "rtp-payload". Direct IP-IP Audio Connections – set to "y".
	add signaling-group 1 Page 1 of 1 SIGNALING GROUP
	Group Number: 1 Group Type: sip Transport Method: tcp
	IP Video? n
	Near-end Node Name: procr Near-end Listen Port: 5060 Far-end Listen Port: 5060 Far-end Network Region: 1 Far-end Domain: dev4.com
	Bypass If IP Threshold Exceeded? n
	DTMF over IP: rtp-payload Direct IP-IP Audio Connections? y IP Audio Hairpinning? n Session Establishment Timer(min): 120

Step		Description				
3.	Enter the change trunk-group i command, where "i" is the number of the trunk group configured in Step 3.5.1 . On Page 1 of the trunk-group form, set configure the following:					
	 Signaling Group – enter t Number of Members – set 	he Signaling Group number that was used in Step 3.5.2. et to 24				
	change trunk-group 1	Page 1 of 21 TRUNK GROUP				
	Group Number: 1 Group Name: TO SES Direction: two-way Dial Access? n Queue Length: 0 Service True: tic	Group Type: sip CDR Reports: y COR: 1 TN: 1 TAC: *001 Outgoing Display? n Night Service:				
	Service Type: tie	Auth Code? n Signaling Group: 1 Number of Members: 24				

3.6. Create SIP Trunk without Domain Information

Step		Description				
1.	Enter the add trunk-group g command, where "g" is an available trunk group number. On Page 1 of the trunk-group form, configure the following:					
	 Group Type – set to "sip? Group Name – enter a model TAC – enter a Trunk Accel Service Type – set to "ties 	eaningful name/description. ess Code that is valid under the J	provisioned dial plan.			
	add trunk-group 98	TRUNK GROUP	Page 1 of 21			
	Group Number: 98 Group Name: TOSESB Direction: two-way Dial Access? n Queue Length: 0	COR: 1 Outgoing Display? n	CDR Reports: y TN: 1 TAC: *098 ht Service:			
	Service Type: tie	Auth Code? n	Signaling Group:			
			Number of Members: 0			

Step	Description
2.	Enter the add signaling group m command, where " m " is an available signaling group number. On Page 1 of the signaling-group form, configure the following:
	 Group Type – set to "sip" Transport Method – set to "tcp" Near-end Node Name – enter the node name of a local C-LAN board, or "procr" if the local node is an Avaya S8300 Server. Near-end Listen Port – specify the local listen port, typically 5060. Far-end Domain – 10.1.1.100 Far-end Node Name – enter the node name of the SES configured in Section 3.2 Far-end Listen Port – specify the local listen port, typically 5060. Far-end Listen Port – specify the local listen port, typically 5060. Far-end Network Region – enter the IP network region configured in Section 3.3 DTMF over IP – set to "rtp-payload". Direct IP-IP Audio Connections – set to "y".
	add signaling-group 98 Page 1 of 1 SIGNALING GROUP
	Group Number: 98 Group Type: sip Transport Method: tcp
	IP Video? n
	Near-end Node Name: procr Near-end Listen Port: 5060 Far-end Listen Port: 5060 Far-end Network Region: 1 Far-end Domain: 10.1.1.100
	Bypass If IP Threshold Exceeded? n
	DTMF over IP: rtp-payload Direct IP-IP Audio Connections? y IP Audio Hairpinning? n Session Establishment Timer(min): 120

Step		Description				
3.	Enter the change trunk-group i command, where "i" is the number of the trunk group configured in Step 3.6.1 . On Page 1 of the trunk-group form, set configure the following:					
	 Signaling Group – enter t Number of Members – set 	he Signaling Group number that was used in Step 3.6.2. et to 24				
	change trunk-group 98	Page 1 of 21 TRUNK GROUP				
	Group Number: 98 Group Name: TO SES Direction: two-way Dial Access? n Queue Length: 0 Service Type: tie	Group Type: sip CDR Reports: y COR: 1 TN: 1 TAC: *098 Outgoing Display? n Night Service: Auth Code? n				
		Signaling Group: 98 Number of Members: 24				

3.7. Configure Off-PBX Telephone Integration Information

Step			Ι	Description			
1.	Every user must be defined as an off-PBX station in order to enable simultaneous ringing. To do this, go to the Stations with Off-PBX Telephone Integration screen and map the Avaya Communication Manager extension to the extension defined in the SES.						
	0	Enter change off-pbx-telephone station-mapping n , where n is the number of the phone extension where a mobile extension shall be configured. Enter the following information:					
	 Station Extension = n Application = OPS Phone Number = Phone Number of the new Extension Trunk Selection = Trunk used to the SES Configuration Set = 1 						
	Go to pa	pbx-telephone :	-	ping 51000 PBX TELEPHONE	E INTEGRATION	Page 1 of 2	
	Station	Application	Dial Ph	one Number	Trunk	Configuration	

Step			Ι	Description				
2.	Change the fo	llowing:						
		ing Mode = ed Calls = b						
	change off-pbx-telephone station-mapping 51000 Page 2 of 2 STATIONS WITH OFF-PBX TELEPHONE INTEGRATION							
	Station Extension 51000	Call Limit 4	Mapping Mode both	Calls Allowed all	Bridged Calls both	Loc	ation	

3.8. Configure Station Information for SIP Desktop.

This step is required if the desktop Avaya IP Telephone is a SIP station. Because Avaya SES will only allow one SIP endpoint to register at a time, another station ID needs to be created. To keep the button appearance consistent on both the Agito handset and the Avaya SIP desktop, the Agito endpoint will login into the SES as the primary phone number and the Avaya IP telephone (SIP) will login using the secondary phone number. For this example, station 51000 is the primary number and 53000 is the secondary number. There are no special settings for station 51000 so the configuration will not be shown.

Step	Description				
1.	Enter change station 53000, Enter the	following information:			
	 Station Extension = 53000 Type = 9620 				
	 Name = User Name Message Lamp Ext: = 51000 				
	Go to page 4				
	change station 53000	Pag	ge 1 of	6	
	Extension: 53000	Lock Messages? n	BCC:	0	
	Type: 9620	Security Code: 123456	TN:	1	
	Port: S00014	Coverage Path 1: 99	COR:	1	
	Name: User Name	Coverage Path 2:	COS:	1	
		Hunt-to Station:			
	STATION OPTIONS				
		Time of Day Lock Table:			
	Loss Group: 19	0 0			
		Message Lamp Ext:			
	Speakerphone: 2-way	Mute Button Enabled?	-		
	Display Language: english Survivable GK Node Name:	Expansion Module?	11		
	Survivable COR: internal	Media Complex Ext:			
	Survivable Trunk Dest? y	IP SoftPhone?	n		
	Barvivabre frame bebet. y	ii boittiinne.	11		
		IP Video?	n		
		Customizable Labels?	У		

Step		Description	
2.	Change the BUTTON ASSIGN	MENTS to use the pri	mary station number, 51000.
	1: brdg-appr B:1 E:51000 2: brdg-appr B:2 E:51000 3: brdg-appr B:3 E:51000		
	change station 53000	STATION	Page 4 of 6
	SITE DATA	STATION	
	Room:		Headset? n
	Jack:		Speaker? n
	Cable:		Mounting: d
	Floor: Building:		Cord Length: 0 Set Color:
	ABBREVIATED DIALING		
	List1:	List2:	List3:
	BUTTON ASSIGNMENTS 1: brdg-appr B:1 E:51000 2: brdg-appr B:2 E:51000 3: brdg-appr B:3 E:51000	4: 5: 6:	

3.9. Dial Plan

This section describes the steps for setting the route pattern in Avaya Communication Manager for proper routing of calls from Avaya Communication Manager to Avaya SES. These calls are ultimately destined for the Agito Networks RoamAnywhere Mobility Router.

Note: Route handling varies from location to location. The following example was used for compliance testing. Refer to [1] for further options.

From the SAT, enter the following commands and information:

Step				Descr	iption		
1.	To handle the	To handle the incoming calls to the Agito Mobility Router the dial string need to be					
	altered. This	is done with the	he change i	inc-call	-handling	g-trmt trunk-group j command,	
			-			or the compliance testing, the Agito	
						s deleted. In addition, Automatic	
	-	0	0			r so the AAR feature access code of	
	3 was inserte		vus used to	the rig		t so the mit feature access code of	
	5 was more	4.					
	change inc-c	all-handling	-trmt trun	k-group	56	Page 1 of 3	
		I	NCOMING CA	LL HANI	DLING TRE	LATMENT	
	Service/	Called	Called	Del	Insert	Per Call Night	
	Feature	Len	Number			CPN/BN Serv	
	tie	11 1000	555	б			
	LIE	11 1732	555	0			
	tie		8522963	1	3		

Use the change aar analysis command to add an AAR entry for the Agito Mobility						
l of 2						
L: 0						

Step	Description		
3.	Use the change route-pattern command to associate a route pattern to the SII	P trunk	ζ.
	which is used to access the Agito Mobility Router.		
	change route-pattern 24 Page	1 of	3
	Pattern Number: 24 Pattern Name:		
	SCCAN? n Secure SIP? n		
	Grp FRL NPA Pfx Hop Toll No. Inserted	DCS/	IXC
	No Mrk Lmt List Del Digits	QSIG	
	Dgts	Intw	
	1: 1 0	n	user
	2:	n	user
	3:	n	user
	none		

4. Configure Avaya SIP Enablement Services

This section describes the steps required for Avaya SIP Enablement Services to support the configuration in **Figure 1**. The following pages provide step-by-step instructions on how to create the media server entry, define the host address map entry along with contact information for the Agito.

Note: It is assumed that that the appropriate license and authentication files have been installed on the servers and that login and password credentials are available. It is assumed that the reader has a basic understanding of the administration of Avaya SIP Enablement Services and has access to the SES Administrator web interface.

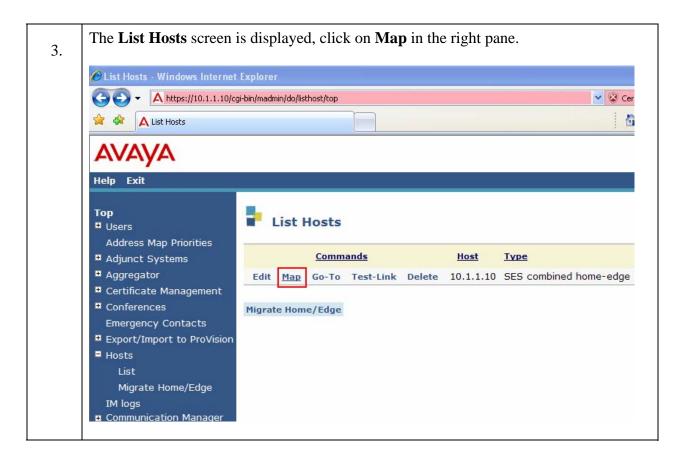
4.1. SIP Trunk Configuration

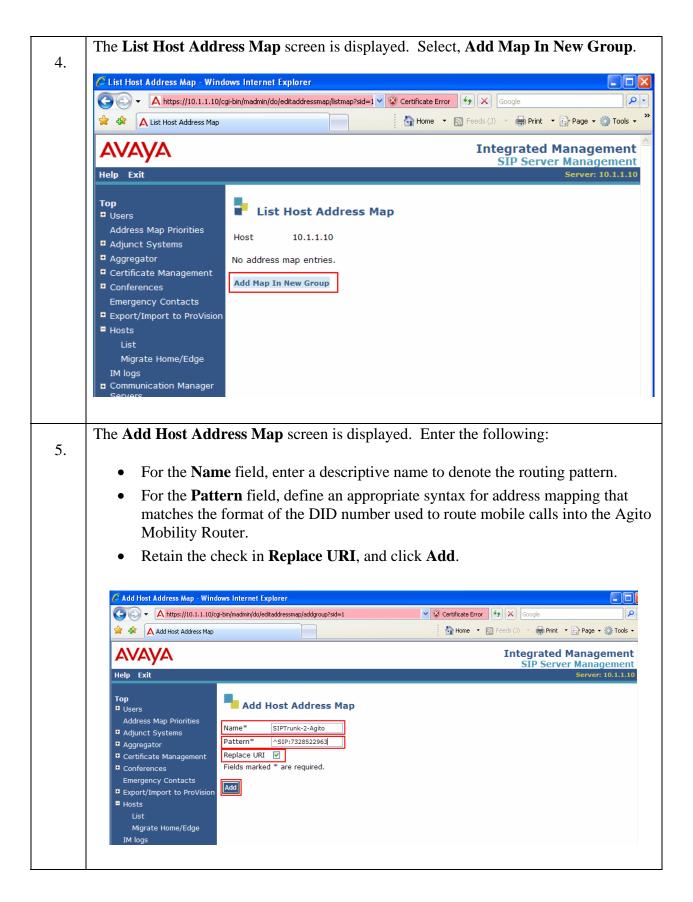
On the SES, the Agito Mobility Router needs to be configured using both a SIP trunk and a SIP line. The SIP trunk interface(s) are used by the Agito Mobility Router to terminate a call to the wireless operator's network. A SIP trunk is also used by Avaya Communication Manager to route mobile calls through the SES to the Agito Mobility Router using the Direct Inward Dialing (DID) number assigned to the Agito Mobility Router.

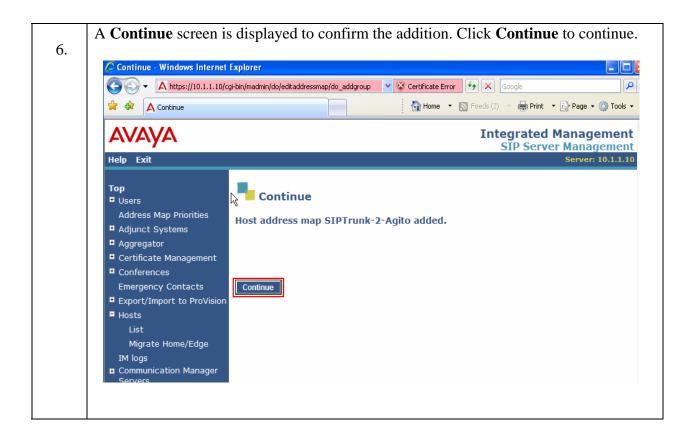
Step	Description				
1.	address/ADN the SES serve	IIN in an Inte r. Log in with		here ip-address is the IP als. The first screen of the	
		olutions - Windows Internet Explo	rer		
	File Edit View Favorites			Certificate Error	
	🚖 🏟 🛕 Standard Managen			🔄 Home 🔹 🔊 Feeds (J) 🔹 🖶 Print 🔹 🛃 P	age 🔹 🎯 Tools 🔹 🎽
	Αναγα			Integrated Mana Standard Management	agement
	Help Log Off				
		SES Administration	The Administration Web Interface allows you to administer this SES server.	Launch SES Administration Interface	
		Maintenance	The Maintenance Web Interface allows you to maintain, troubleshoot, and configure the server.	Launch Maintenance Web Interface	
	-				

Step	Description			
2.	The following screen is	s displayed. From	m the left pane, select Host	ts → List.
	Top - Windows Internet Explore Top - Mindows Internet Explore A https://10.1.1.10/cg A Top A Top A top A top A top Exit		Integ	Print · Page · O Tools · * prated Management P Server Management Server: 10.1.1.10
	Top Users Address Map Priorities	Top Manage Users	Add and delete Users.	
	 Adjunct Systems Aggregator Certificate Management 	Manage Address Map Priorities	Adjust Address Map Priorities.	
	Conferences Emergency Contacts	Manage Adjunct Systems Manage Event	Add and delete Adjunct Systems. Add/Delete Event Aggregators.	
	Export/Import to ProVision	Aggregators Certificate Management	Manage Certificates.	
	List Migrate Home/Edge	Manage Conferencing	Add and delete Conference Extensions.	
	IM logs Communication Manager Servers	Manage Emergency Contacts	Add and delete Emergency Contacts.	
		P		

Outbound calls are first routed by Avaya Communication Manager to the SIP trunk group. These calls are then subject to further routing decisions determined by Host Address Maps in the Avaya SES.



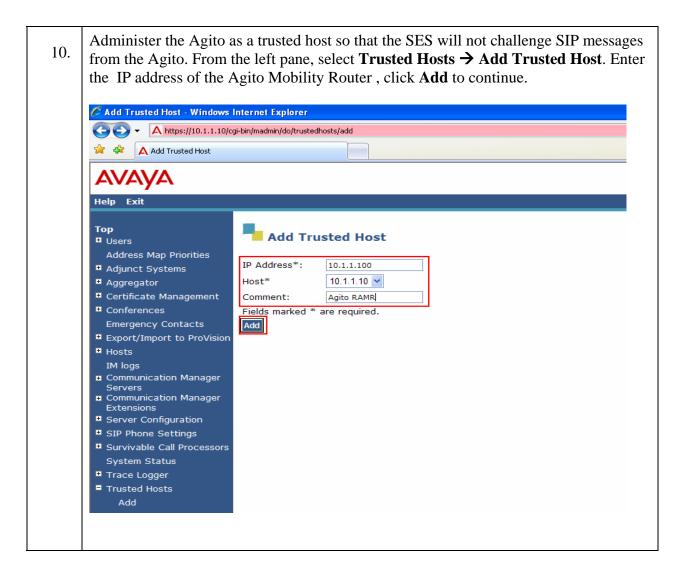




the List Host Ad	Idress Map screen is redisplay dress Map screen, define the c Another Contact on the line be	contact address for the Agito b	
clicking on Auu A	Another Contact on the line of	elow SIP Hulik-2-Agito.	
🖉 List Host Address Map - Wind	ows Internet Explorer		
	ji-bin/madmin/do/editaddressmap/listmap?sid=18.cmd=Continue	🗸 😵 Certificate Error	
🚖 🏟 🛕 List Host Address Map		🚹 Home 🔹 🔊 Feeds (J) 🔹 🖶 Print 💌 🛃	Page 🕶 🌾
		Integrated Mar	1200
<i>F</i> \V <i>F</i> \YF\		SIP Server M	
Help Exit		Se	rver: 1
 Users Address Map Priorities Adjunct Systems Aggregator Certificate Management Conferences Emergency Contacts Export/Import to ProVision 	List Host Address Map Host 10.1.1.10 Commands Name Commands Com Edit Delete SIPTrunk-2-Agito Add Another Map Add Another Contact Add Map In New Group	t Delete Group	
 Hosts List Migrate Home/Edge IM logs Communication Manager Servers Communication Manager Extensions Server Configuration 			

8.	for the call. Populate the C SES should substitute into The Avaya SES replaces \$ sending the message. Click	
	Add Host Contact - Windows	Internet Explorer gi-bin/madmin/do/editaddressmap/addcontact?handle=SIPTrunk-2-Agito&sid=1&c 💙 😵 Certificate E
	😭 🏟 🛕 Add Host Contact	Home
	AVAYA Help Exit	
	 Top Users Address Map Priorities Adjunct Systems Aggregator Certificate Management Conferences Emergency Contacts Export/Import to ProVision Hosts List Migrate Home/Edge IM logs Communication Manager Servers 	Made SIPTrunk-2-Agito Contact* sip:\$(user)@10.1.1.100:5060;transport=udp Fields marked * are required.

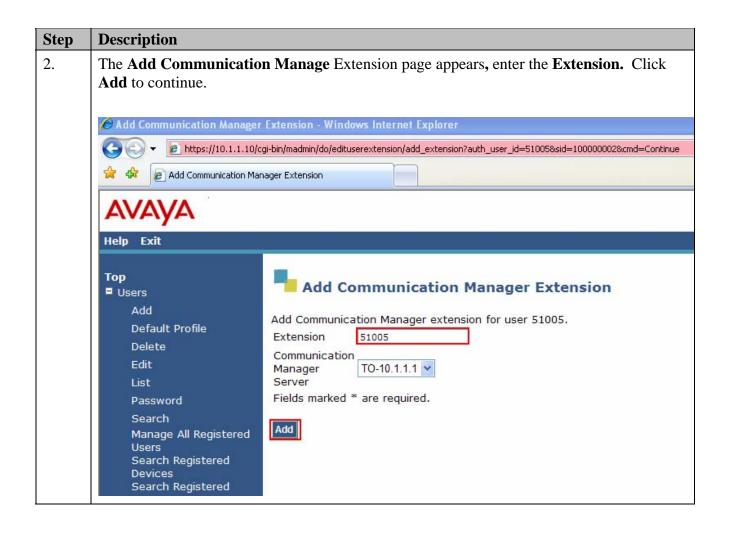




11.	A Continue screen is displayed	ed to confirm the addition. Click the Continue button.
	🖉 Continue - Windows Internet	Explorer
	A https://10.1.1.10/c	gi-bin/madmin/do/trustedhosts/do_add
	😤 🏟 🛕 Continue	
	Αναγα	
	Help Exit	
	Top ■ Users	Continue
	Address Map Priorities Adjunct Systems	Trusted Host 10.1.1.100 added.
	Aggregator	
	Certificate Management	
	Conferences	
	Emergency Contacts Export/Import to ProVision	Continue
	 Export/Import to Provision Hosts 	

Step **Description** Select Users \rightarrow Add. Fill in the screens as follows. 1. Primary handle to 51005 • **User ID** to **51005** Password to (create User password) **Confirm Password** Host to 10.1.1.10 First Name to Tom Last Name to Test Click the Add Communication Manage Extension check box. Select Add A dialogue box appears, Click Continue to continue. • 🖉 Add User - Windows Internet Explorer 😋 🐑 👻 💋 https://10.1.1.10/cgi-bin/madmin/do/listusers/add_user 🚖 🏟 🖉 Add User AVAVA Help Exit Тор Add User Users Add Primary Handle* 51005 Default Profile 51005 User ID Delete Password* Edit Confirm Password* ••••• Password Host* 10.1.1.10 🔽 Search First Name* Tom Manage All Registered Last Name* Test Users Search Registered Address 1 Devices Search Registered Address 2 Users Office Address Map Priorities City Adjunct Systems State Aggregator Certificate Management Country Conferences Zip Emergency Contacts Survivable Call none 🐱 Processor Export/Import to ProVision Add Communication Hosts Manager Extension IM logs Fields marked * are required. Communication Manager Servers Add Communication Manager + Extensions

4.2. Add User on Avaya SES



5. Configure the Agito RoamAnywhere Mobility Router

5.1. Configure Trunk to Avaya SES

The following configuration steps outline the required settings to enable the Agito RoamAnywhere Mobility Router to interoperate with the Avaya telephony infrastructure.

Step	Description
1	. Refer to RoamAnywhere Quick Start document to perform basic system configuration settings (IP, password) from the serial console port.
	Access the administrator interface at: https:// <ramr-ip-address>/adm</ramr-ip-address>
	Follow the configuration steps shown in part 1 of the RoamAnywhere Administrator's Guide, references 5 thru 7 in Section 9.

Step	Description					
2.	From the Configuration ta the settings for the PBX sin domain name match the Av 3.3. Set the following:	nilar to the con	figuration b	elow. Ensure	e the IP addr	ess and
	 Name to Avaya-int Type to Avaya IP Interface to 10. Port to 5060 Domain Name to description of the second secon	1.1.10				
	AGITO		Configuration	Monitor	Maintenance	Troubleshooting
	Groups and Users					-
	Policies					
	Voice	General	SIP Trunk	Dial Plan	Lines	Uptions
	PPBXs Access Numbers	Name	Avaya-interop			
	🕨 🧀 Advanced	Туре	Avaya			
		Line-Side Support	~			
		FQDN or IP Address	10.1.1.10			
		Port	5060 ra	inge 1024 - 49151		
		SIP Transport	udp 💌			
				7e 50 - 3500 recorde		
		Acop faire faile		ye oo 1 9000 seconias		
			Next			
	Domain Name to d Select Next to continue. Continue Contin Continue Continue Continue Continue Continu	→ IP PBXs > Ad General Name Type Line-Side Support FQDN or IP Address	d IP PBX SIP Trunk Avaya-interop Avaya I0.1.1.10 5060 ra udp v	Dial Plan	Lines	Options

Step	Description						
3.	8						P Trunk.
	Ensure the IP address is set t	o the IP of	the Avay	a SES	. Set the fo	ollowing:	
	• Name to avaya-intero	-					
	• Description to avaya-i	nterop-tru	ink				
	• Local Port to 5060		10 1 1 10				
	• Remote FQDN or IP	Address to	10.1.1.1()			
	• Remote Port to 5060						
	Select Next to continue.						
	Select Wext to continue.						
							-
	AGITO		Q.2			*	<u>_</u>
	Hetworks		- *			~	v
			Configuration		Monitor	Maintenance	Troubleshooting
	Groups and Users	HIP PBXs >	Avaya-interj	þ			
	Policies Voice	General	SIP Trun	k	Dial Plan	Lines	Options
	IP PBXs	12.1					
	Access Numbers	Name	1	Avaya-inti	erp-trunk		
	🕨 🦳 Advanced	Description	[Avaya-inte	erp trunk		
		Local IP Interfac	e 🔅	eth0 (10.1	1.1.100)		
		Local Port	1	5060	range 1024 -	49151	
					_	_	
		Remote FQDN or	' IP Address	10.1.1.10	200		
		Remote Port	I	5060	range 1024 -	49151	
		SIP Transport	(udp	•]		
			1	Next			

Step	Description						
4.	From the Configuration the Dial Plan to match tha Ensure the Local Area Co LAC is required for local	it us de	sed by Av (LAC) m	vaya Comm atches the e	unication Mar	ager for rou	ting calls.
	 Outside Line Acc National Number International acc Local Country C Local Area Code Exclude LAC for Select Apply to commit the second se	ess ode to '	refix to 1 Code to e to 1 732 ocal Num	011 Iber to Unc		of the IP PB	X settings.
				Configuration	Monitor	Maintenan	ce Troubleshooting
	Groups and Users	1		> Avaya-interp	1		
	Policies		and the second second	100 Million 100 Mi		_	
	Voice		General	SIP Trun	< Dial Plan	Lines	Options
	 IP PBXs Access Numbers Advanced 		Local Countr Local Area Ci Exclude LAC	ber Prefix Access Code y Code ode (LAC) for Local Number Il Caller ID Mapping	9 1 011 1 732 None Use Prefix Automatic 000000000 Apply		Full Number Caller ID on WiFi Full Number Caller ID on Cellul Use Short Number for Outgoin Short Number Mi

In order to be able to access the enterprise features and dial plan when outside the enterprise on the cellular network as well as activating enterprise voicemail, configure an access number for the incoming trunk connection. The **Cellular Access Number** should be a PSTN DID allocated to the enterprise that routes through the IP PBX to the SIP trunk terminating on the RoamAnywhere Mobility Router. The **VoIP Access Number** should be configured as a valid digit pattern in the IP PBX dial plan that terminates on the SIP trunk connected to the Mobility Router. Ensure that your **Voice Mail Access Number** is also configured to match the digits used within your enterprise.

Set the following optioName to Interconstruction		Access Numbers	→ Add Access	Numbers.
 Cellular Access Cellular Hande VoIP Access N 	s Number to 73285229 over Number to 73285 umber to 5552345678 cess Number to 59999			
	Configura		Maintenance	Troubleshooti
Groups and Users		Modify Access Numbers		Troubleshoot
Voice Voice	Name	InteropAN2963		
Access Numbers	Description	AccessNumber2963		
▶ 🦳 Advanced	Cellular Access Number	7328522963		
	Cellular Handover Number	7328522963		
	VoIP Handover Number	4082345678		
		-	_	
	Voice Mail Access Number	59999		

	3	\$.	×	.
		Configuration	Monitor	Maintenance	Troubleshoo
Groups and Users	-Hedia S	Server			
Policies					
Voice	REC 2833 D	efault Payload 127		range 96 - 127	
IP PBXs	14 2 2000 2	12/		180ge 30 - 127	
Access Numbers	Inband DTM	F Detection			
V Contraction Advanced		App	ly l		
SIP Server			<u> </u>		
Media Server					
Cellular Operators					
Cellular Operators					

5.2. Create the Avaya-GRP Group

 From the Configuration to Name to Avaya-G IP PBX to Avaya-G Access Numbers Select Next to continue. 	GRP -GRP	-	eral. Set the	following op	tions:
Groups and Users	- Groups >	Configuration	Monitor	Maintenance	Troubleshooting
Groups Users	General Name IP PBX Access Number External Group	rs Inter	a-interop 🔹 A opAN2963 🔹	Calling Rules	Users

. From the Configurat	on tab, select Groups \rightarrow Security. Set the following options:	
• Check Digest		
Check Same a	RA user ID	
-	t the password from PBX admin	
	curity (WiFi) to None	
Client-Side Se	curity (Cellular) to None	
Select Options to con	nue.	
AGITO		
networks		5
	Configuration Monitor Maintenance Troublesh	ootir
Groups and Users	Groups > Avaya-GRP	
Groups		
Users	General Security Options Calling Rules Users	
	PBX-Side Security ON None	
	Digest User ID Same as RA user ID	
	O Default	
	Password *****	
	Client-Side Security (WiFi) O None Certificate	
	Client-Side Security (Cellular) 💽 None	
	Generate random pin per user	
	O Default Pin	
	Apply Apply to all existing users in this group	

3.	 Check Allow access Direct Check Allow Check Route 	Vo fro ory fro all	IP from 1 m cellula Query uti m remoto outgoing	remote r data i lizing tl e WiFi calls th	WiFi networ networks if y he cellular da	ks You want all u ta connection	isers to have the ability to
	Select Next to contin	nue.	→ Groups > General	Configural Avaya-GRP Securit		Maintenance Calling Rules	Troubleshooting Users
	Users		Secure Remote	Voice		ote WiFi networks Remo i	
			Enterprise Cellul	ar Call Routing	Forward all direct i Route all outgoing Route all outgoing Route all outgoing	calls through the enterpris calls directly over cellular calls directly over cellular enome or office location ensions	
			Personal Call Ro Call Ignore	uting		directly over cellular red line devices (stops ring) <i>ly to all existing users in thi</i>	

5.3. Create users

	aya-GRP 1005	ord for the	II. Set the fo	llowing option	ns:
Select Next to contin	S	Configuration Add User	Monitor	Maintenance	Options
Users	Group User ID Full Name Local User	Avaya-GRP Add 51005 Fom Test			

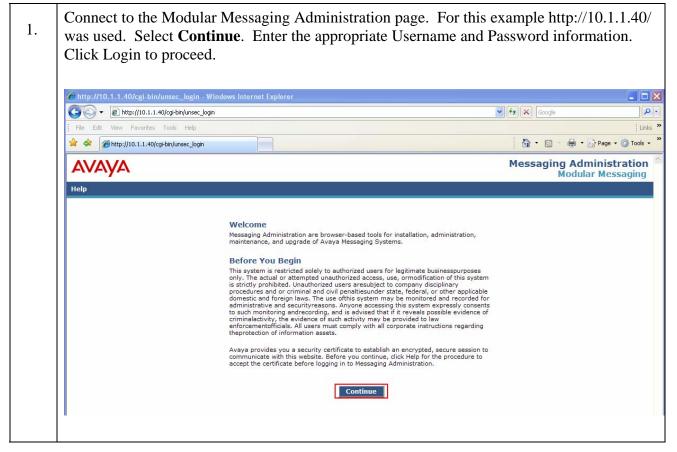
 Enterprise N Check PBX-S Check Client 	umber to 51005 Number to (obtain information from Agito) Side Security to None t-Side Security (WiFi) to None t-Side Security (Cellular) to None e to continue.
	Configuration Monitor Maintenance Troubleshoot
Groups and Users	→ <u>Users</u> > 51005
	General Line Mobile Device Calling Rules Home Locations Options
	Directory Number 51005 Enterprise Number This field is required PBX-Side Security Oligest
	Client-Side Security (WiFi) One
	Client-Side Security (Cellular) 💽 None

5.4. Voice Mail Configuration

This section describes the steps for configuring voicemail for extensions in the Avaya telephony infrastructure. For informational purposes, steps for both Avaya Modular Messaging and Avaya IA770 INTUITY AUDIX are included in this document. Use the setup information appropriate for the environment being configured.

Note: It is recommended that at least four rings be used to route a call to voice mail.

5.5. Configure Subscriber on Avaya Modular Messaging



Step	Description							
2.	Select Subscribe	r Management.						
۷.								
	C Messaging Administration - Wir	ndows Internet Explorer						
	Attps://10.1.1.40/cgi- Attps://10.1.	bin/do_login			💙 😵 Certificate E	rror 🐓 🗙 G	oogle	
	File Edit View Favorites Tools	Help				•		• • •
	😤 🏟 🍘 Messaging Administration					<u></u>		Page 🔹 🎯 Tools 👻
	AVAYA						Messagin	ular Messaging g Administration
	Help Log Off Messaging Administration							This server: 10.1.1.40
	Subscriber Management Activity Log Configuration			Messaging Admi	inistration			
	Messaging Attributes Classes-of-Service Enhanced-Lists	The Web Interface allows you to	o maintain, trouble			Select a link fron	n the left-sid	le menu to display the
	Sending Restrictions System Administration Request Remote Update			corresponding	page.			
	Networked Machines Trusted Servers							
	▼ Server Administration TCP/IP Network Configura [®] External Hosts							
	MAS Host Setup MAS Host Send							
	Windows Domain Setup Console Reboot Option Date/Time/NTP Server							
	Syslog Server Modem/Terminal Display Modem/Terminal Configur							
	Modem/Terminal Configuration Default Router Ping							
	 IMAP/SMTP Administration SMTP Options Moli Options 							
	Calast Managa a	lional with Lag	l Cubaa					
3.	Select Manage a	ligned with Loca	ai Subsci	iders.				
	Hessaging Administration - Win	WINS TO						
	C C + M https://10.1.1.40/cgi-l				💙 😵 Certificate E	irror 47 🗙 G	oogle	
	File Edit View Favorites Tools	Help				۸.	R - A -	₹ Page + Tools +
	Messaging Administration					<u> </u>		ular Messaging
							Messagin	g Administration
	Help Log Off Messaging Administration	Manago Subseribo	re					This server: 10.1.1.40
	Activity Log Configuration	Manage Subscribe	15					
	Messaging Attributes Classes-of-Service Enhanced-Lists							
	Sending Restrictions System Administration Request Remote Update	Local Subscriber Mailb	ox Number	Add or Edit				
	Networked Machines Trusted Servers		Machine Name	Subscriber Licenses Used	Total Subscribers	Filter	ed Subscribe	ers
	 Server Administration TCP/IP Network Configura E External Hosts 	 Local Subscribers 	devmss	6 of 100	7	Filter	7	Manage
	MAS Host Setup MAS Host Send	Remote Subscribers						
	Windows Domain Setup Console Reboot Option Date/Time/NTP Server		internet		0	Filter	0	Manage
	Syslog Server Modem/Terminal Display	Help						
	Modem/Terminal Configur Modem/Terminal Removal Default Router Ping ▼IMAP/SMTP Administration							
	SMTP Options							
	Mail Options IMAP/SMTP Status Server Information	Page Status						
	Server Status Alarm Summary							
	Disk Information Server Notes CMOS Settings							
	RAID Status Rebuild PAID Status							

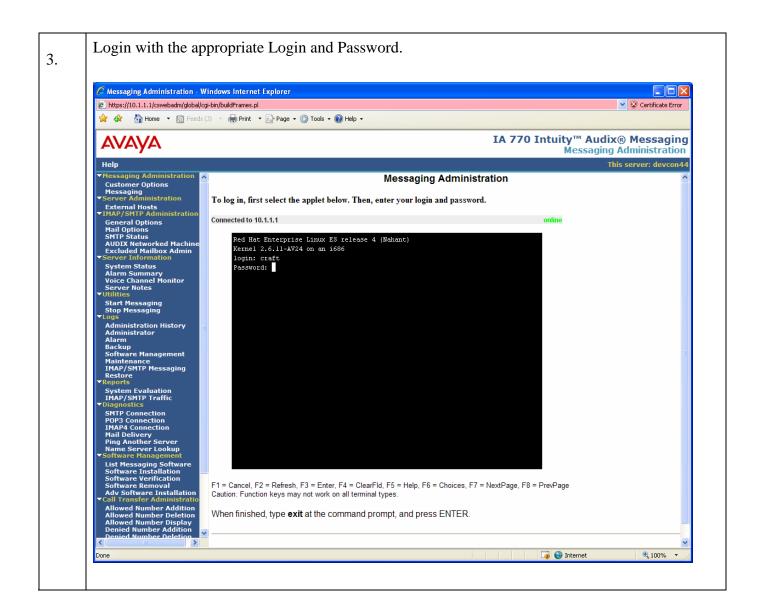
Mode Help Log Off Manage Local Subscribers * Messaging Administration Activity Log Configuration Activity Log Configuration Activity Log Configuration Activity Log Configuration Subscriber Licenses Used: 6 of 100 Total Subscribers: 7 Severe Administration System Mailboxes: 1 Filtered Subscribers: 7 System Administration Subscriber Licenses Used: 6 of 100 Total Subscribers: 7 State Administration Subscriber Name Mailbox Number Networked Machines States States Trusted Servers States Stand States MAS Host Setup Master: postmaster States MAS Host Setup States States Modem/Terminal Display States States Modem/Terminal Remover Modem/Terminal Remover Modem/Terminal Remover Default Router Ping HMA/SHTP Status 40003 40003 0 MAY SHTP Administration Server Status Manual States Master Ping MAS Host Status Server Status Master Ping Modem/Terminal Remover Server Status Server Status Manuscons Manus	
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Messaging Administration Help Log Off Help Log Off Help Log Off Help Log Off Messaging Administration Subscriber Managemut Activity Log Configuration Messaging Administration Subscriber Managemut Subscriber Managemut Messaging Administration Server Administration TcryLed Servers Name Mailboxes: 1 Subscriber Name Mailboxes: 1 Subscriber Name Mailboxes: 1 Subscriber Name Mailbox Number Numeric Address COS CID Name Mailbox Stup Mathematication TcryLed Server Modem/Terminal Display Modem/Terminal Removal Default Router Ping Numders Subscriber Status Numders Modem/Terminal Removal Default Router Ping Subscriber Status Numders Number Numeric Address Cost Configuration Modem/Terminal Removal Default Router Ping Server Status Alarm Summary	P -
Mode Help Log Off * Messaging Administration Activity Log Configuration Activity Log Configuration Activity Log Configuration Ressaging Administration Request Remote Update Trusted Servers Subscriber Values Vindows Domain Setup MAS Host Setup MASH Host Setup MASH Host Setup Modem/ Terminal Pender Functional Prophons IMAP/SHIP Setups Manual Prophons MAP/SHIP Status Server Status Marker Status Marker Status Marker Status Marker Status Marker Status Server Status Nummary	📆 -
Messagi Help Log Off * Messaging Administration Subscriber Management Activity Log Configuration Messaging Attributes Classes-of-Service Enhanced-Lists Senders Administration Request Remote Update Networke Machines Server Administration TCP/IP Network Configures MAS Host Setup Master, postmaster Server Status Modenn/Terminal Display Modenn/Terminal Configure Server Status MAP/SHIP Status Server Status Man Summary	🚽 🔹 🔂 Page 🔹 🍈 Tools 🔹 🎽
 Hassaging Administration Subscriber Management Activity Log Configuration Messaging Attributes Classes - 45-bits Extending Restrictions System Administration Request Remote Update Trusted Servers Subscriber Licenses Used: 6 of 100 Request Remote Update Networked Machines Trusted Servers Subscriber Name Manage Local Subscribers: 7 Filtered Subscribers: 7 Subscriber Licenses Used: 6 of 100 Request Remote Update Networked Machines Trusted Servers Subscriber Name Manage Local Subscribers: 7 Filtered Subscribers: 7 Subscriber Name Mailbox Number Numeric Address COS CID (N) Local Subscribers: 7 Subscriber Name Mailbox Sumbary Subscriber Name Mailbox Sumbary Subscriber Name Subscriber Name Subscriber Sites Subscriber Name Subscriber Name Subscriber Name Subscriber Name Subscriber Sites Subscriber Name Subscriber Naministration Server Status Name Nam	odular Messaging ging Administration
Subscriber Management Activity Log Configuration Resussing Attributes Classes-of-Service Enhanced-Lists Sending Restrictions System Administration Request Remote Update Hetworked Machines Trusted Servers Trusted Servers Trusted Servers Trusted Servers Trusted Servers Trusted Servers Trusted Servers Trusted Servers Trusted Servers Trusted Servers MAS Host Setup MAS Host Setup MAS Host Setup Modem/Terminal Configura Hodem/Terminal Configura Hodem/Terminal Configura Notes Tophions HMAP/SHTP Status Server Information Server Status Alarm Summary Wanage Local Subscribers Subscriber Licenses Used: 6 of 100 Total Subscribers: 7 System Mailboxes: 1 Total Subscribers: 7 Filtered Subscribers: 7 System Mailboxes: 1 Subscriber Name Mailbox Number Numeric Address COS CID Top/IP Network Configura Master, postmaster 99998 51002 0 1 Subscriber Name Mailbox Number Numeric Address COS CID MAS Host Setup Console Reboot Options IMAP/SHTP Status Alarm Summary Subscriber Name Mailbox Number Numeric Address COS CID	This server: 10.1.1.40
Alarm Summary	
Disk Information Sort and Filter Subscribers Launch Subscriber Options Server Notes CMOS Settings Display Report of Subscribers Delete the Selected Subscriber	
Rebuild RAID Status Rebuild RAID Status Reboot Interval Vilities	
Rebuild RAID 1 Array	

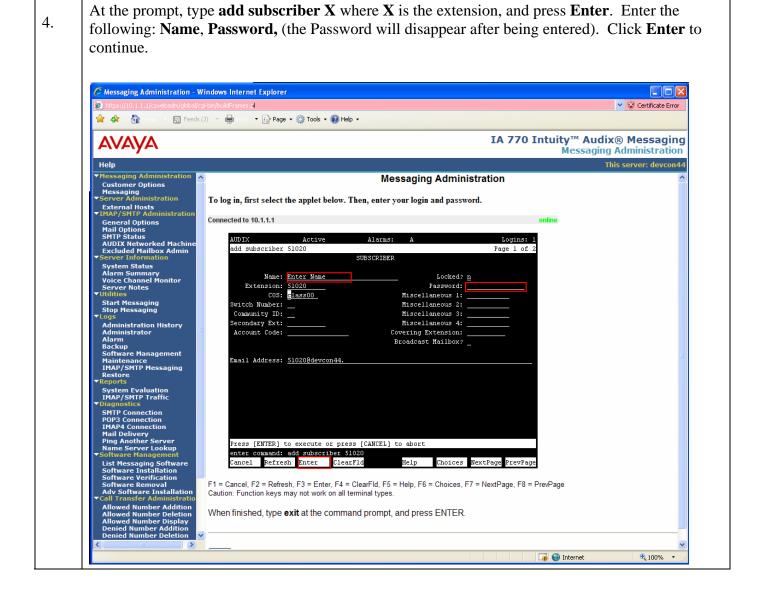
ep	Description				
	Enter the Fo	llow User Informat	ion:		
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	Last Mane,	1 455 001 4 10141100	A i (unit)er, i (unit)	The Mull Cost. Delec	
		ation - Windows Internet Explorer			
				👻 😵 Certificate Error	Google
	😤 🍄 🏀 Messaging Ad	ministration			🔄 🔹 🔝 🔹 🖶 🔹 📴 Page 🔹 🎯 Tools •
	AVAYA				Modular Messagi Messaging Administrat
	Help Log Off Messaging Administration	Add Local Subscriber			This server: 10.1.
	Subscriber Management Activity Log Configuration Messaging Attributes Classes-of-Service				
	Enhanced-Lists Sending Restrictions System Administration	BASIC INFORMATION			
	Request Remote Update Networked Machines Trusted Servers Server Administration	* (Required Fields)		First Name	
	TCP/IP Network Configuration	Password		Mailbox Number	
	MAS Host Setup	<u>*Numeric Address</u>		PBX Extension	
	MAS host Send Windows Domain Setup Console Reboot Option Date/Time/NTP Server Syslog Server Modem/Terminal Display Modem/Terminal Configuratio	*Class Of Service	0 - class00 👻	*Community ID	1 💌
	Modem/Terminal Display Modem/Terminal Configuratio Modem/Terminal Removal Default Router Ping TIMAP/SMTP Administration				
	SMTP Options	SUBSCRIBER DIRECTORY			
	Mail Options IMAP/SMTP Status - Server Information	Email Handle	@devmss.dev4.com	Telephone Number	
	Server Status Alarm Summary Disk Information	Common Name		ASCII Version of Name	
	Server Notes CMOS Settings RAID Status Rebuild RAID Status Reboot Interval	SUBSCRIBER SECURITY			
	Reboot Interval Utilities Rebuild RAID 1 Array CD/DVD Mount	Immediately Expire Password?	no 💌	Is Mailbox Locked?	no 💌
	CD/DVD Mount CD/DVD Unmount CD/DVD Eject	<u></u>			
	CD/DVD Unmount CD/DVD Unmount CD/DVD 5ject Messaging DB Audits Start Messaging Stop Messaging Shutdown Server	MAILBOX FEATURES			
	Reboot Server	Personal Operator Mailbox		Personal Operator Schedule	Always Active
	Administration History Alarm Backup Command Line History ELA Delivery Failures IMAP/SMTP Ministration	TUI Message Order	urgent first then oldest	Intercom Paging	paging is off
	ELA Delivery Failures IMAP/SMTP Maintenance	VoiceMail Enabled	ves 🗙		
	IMAP/SMIP Maintenance Messaging Start-up Restore Server Events Software Management Subscriber Activity Wook Secon	SECONDARY EXTENSIONS			
	Software Management Subscriber Activity Web Server	No Secondary Extension	.s	- Secondary Ext	ension
	MAP/SMTP Traffic Messaging Measurements System Evaluation TCP/JP Packet Statistics	NO SECONDARY EXCENSION	Delete		ication (none)
	Alarm Origination LDAP Connection SMTP Connection DOP2 Connection	MISCELLANEOUS			
				Miscellaneous2	
	POP3 Connection IMAP4 Connection Mail Delivery Ping Another Server Name Server Lookup	Miscellaneous1			

5.6. Configure Subscriber on Avaya IA770 INTUITY AUDIX

Connect to Avaya Communication Manager; for this example http://10.1.1.1/ was used. Select 1. Continue. Enter the appropriate Logon ID and Password information and click Login. Click Launch Maintenance Web Interface to continue. 🖉 Standard Management Solutions - Windows Internet Explorer Carlos - 🖉 https://10.1.1.1/cgi-bin/unified 💙 😵 Certificate Error 😽 🗙 Google 2. File Edit View Favorites Tools Help 😭 🔅 Standard Management Solutions 🚰 Home 🔹 🔝 Feeds (J) 🔹 🖶 Print 🔹 🔂 Page 🔹 🎯 Tools 🔹 **Integrated Management** avaya Standard Management Solutions Help Log Off Installation Launch Avava Installation Wizard Launch Avaya Installation Wizard The Avaya Network Region Wizard allows you to quickly administer network regions. Launch Avaya Network Region Wizard The Native Configuration Manager allows you to administer this system using a graphically enhanced SAT applet. Launch Native Configuration Manager СМ Administration The Maintenance Web Interface allows you to maintain, troubleshoot, and configure the media server. Maintenance Launch Maintenance Web Interface The Upgrade Tool allows you to upgrade all servers, Survivable Processors, G700 Media Gateways, and G350 Media Gateways. Upgrade Launch Upgrade Tool

(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	
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devcon44	
AVAYA	Integrated Managemen Maintenance Web Pages
Help Exit	This Server: [1] devcon
Agent Status	Notice
SNMP Agents SNMP Traps Filters © 2001-2007 Avaya Inc. All Rights Reserved.	
SMMP Test Copyright	
	is protected by copyright and other laws respecting proprietary rights.
Ping Traceroute Unauthorized reproduction, transfer, and or use can be	a criminal, as well as a civil, offense under the applicable law.
Netstat Modem Test Network Time Curry	
Status Summary Components"), which may contain terms that expand of	l in the Product may contain software distributed under third party agreements ("Third Party r limit rights to use certain portions of the Product ("Third Party Terms"). Information identifying Third y to them are available on Avaya's web site at: <u>http://suport.ava.com/ThirdPartyLeense/</u>
Server Date/Time <u>Trademarks</u>	
erver Configuration Configure Server Avaya is a trademark of Avaya Inc.	
Restore Defaults Eject CD-ROM MultiVantage is a trademark of Avaya Inc.	
All non-Avaya trademarks are the property of their resp	ective owners.
Make Upgrade Permanent Boot Partition Manane Undates	
Manage Updates BIOS Upgrade ata Backup/Restore	
Backup Now Backup History	
Schedule Backup Backup Logs View/Restore Data	
Restore History Format CompactFlash	
ecurity Administrator Accounts	
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ledia Gateways Configuration liscellaneous	
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Tftpboot Directory	





6. Interoperability Compliance Testing

Testing was conducted via the *DevConnect* Program at the Avaya Solution and Interoperability Test Lab. Compliance testing verified the integration between an Avaya telephony infrastructure and Agito Networks RoamAnywhere Mobility Router and the ability for an enterprise user to be accessible via one business number whether the user is in the office or mobile.

6.1. General Test Approach

The general test approach was to make mobile originating and mobile terminating calls route through the Avaya telephony infrastructure. All feature functionality test cases were performed manually. In addition, testing entailed verifying different types of Avaya telephones and system features interacting with the Agito solution. Tests were performed focusing on the following calling patterns:

- mobile originated calls routed through the Avaya telephony infrastructure terminating to a [desk phone, mobile device or PSTN]
- mobile terminated calls routed through the Avaya telephony infrastructure
- desktop originated calls routed to mobile devices
- DTMF digit support for voicemail, conference and IVR calls
- Abbreviated Dialing
- Call Forward All
- Call Forward Cancel
- Call Hold / Unhold
- Send All Calls
- Send All Calls Cancel
- Shared Line Appearance
- Transfer
- Transfer To Desk
- Transfer On Hang-Up

6.2. Test Results

The test objectives of section 6.1 were verified. The Agito Networks RoamAnywhere Mobility Router successfully completed all test cases for the features identified in section 6.1. The Agito Networks RoamAnywhere Mobility Router is able to route inbound/outbound calls to/from Avaya Communication Manager with all services tested.

7. Support

Use the following contacts for technical support of Agito Networks RoamAnywhere Mobility products:

- Web site: <u>http://www.agitonetworks.com/</u>
- Email: support@agitonetworks.com
- Telephone: (408) 919-8000

8. Conclusion

These Application Notes describe the configuration steps required for integrating the Agito Networks RoamAnywhere Mobility Router into an Avaya telephony infrastructure. For the configuration described in these Application Notes, the Agito Networks RoamAnywhere Mobility Router was responsible for bridging landline connectivity to an Avaya telephony infrastructure with the wireless connectivity to the GSM network. The functionality of the combined Avaya and Agito Networks solution was validated via the *DevConnect* Program at the Avaya Solution and Interoperability Test Lab. All feature functionality test cases passed.

9. Additional References

Product documentation for Avaya products may be found at http://support.avaya.com.

- [1] Administrator Guide for Avaya Communication Manager, February 2007, Issue 3.1, Document Number 03-300509
- [2] *Installing and Administering SIP Enablement Services*, March 2007, Issue 2.1, Document Number 03-600768
- [3] Messaging Application Server (MAS) Administration Guide Release 3.1, February 2007
- [4] Avaya one-X Deskphone Edition for 9600 Series IP Telephones Administrator Guide

The Agito Networks product documentation can be found at: <u>http://www.agitonetworks.com</u>.

- [5] RoamAnywhere Mobility Router Administrator's Guide, Version 1.0, February 2008
- [6] 2000 Series and 4000 Series RoamAnywhere Mobility Router Quick Start, Version 2.0, September 2008.
- [7] RoamAnywhere User's Guide, Version 2.0, September 2008.
- [8] RoamAnywhere Release Notes, Version 2.0, October 2008.

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Please e-mail any questions or comments pertaining to these Application Notes along with the full title name and filename, located in the lower right corner, directly to the Avaya DevConnect Program at <u>devconnect@avaya.com</u>.