

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Avaya Aura® Communication Manager R6.3 and Avaya Aura® Session Manager R6.3 to interoperate with Presence Technology OpenGate R10.0 – Issue 1.0

Abstract

These Application Notes describe the configuration steps for provisioning Presence Technology OpenGate to successfully interoperate with Avaya Aura® Communication Manager and Avaya Aura® Session Manager. Presence Technology OpenGate provides ACD and CTI capabilities to companies that do not have any existing CTI or ACD capabilities on their PBX. Presence Technology OpenGate integrates with the Avaya solution using SIP trunks and digit manipulation.

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 used to verify Presence Technology OpenGate R10.0 can successfully interoperate with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Session Manager R6.3. Presence Technology OpenGate can be used as an external Automatic Call Distribution (ACD) routing engine and IVR as well as a trunk gateway between the PSTN and an existing PBX, such as Avaya Aura® Communication Manager.

2. General Test Approach and Test Results

Testing was performed manually by dialing numbers that were configured to route to OpenGate and receive ACD treatment. Testing included validation of correct operation of typical contact center functions including, inbound voice calls being delivered on an agent skill level basis and call queuing. Functionality testing included basic telephony operations such as answer, hold/retrieve, transfer, and conference. The serviceability test cases were performed manually by busying out and releasing the SIP trunk and by disconnecting and reconnecting the LAN cables. Link Failure\Recovery was tested to ensure successful reconnection on link failure.

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 focus of the interoperability test is the ACD functionality offered by OpenGate. OpenGate replaces the Avaya Aura® Application Enablement Services requirement for a CTI connection to Communication Manager by utilizing a SIP connection to Session Manager routing calls to the Communication Manager handsets. For the sample configuration discussed in this document, all calls are received from the PSTN by Communication Manager and routed via a SIP Trunk to Session Manager. Session Manager is then responsible for routing the call to OpenGate to receive ACD treatment. OpenGate can route calls to Presence agents served by Avaya endpoints.

Presence Suite is required to test the connection of Presence OpenGate to Session Manager. The Presence Suite includes the Presence Server, Presence Mail Interactions Server, Presence Web Interactions Server, Presence Administrator, Presence Supervisor, and Presence Agent. The setup of Presence Suite is outside the scope of these Application Notes; please refer to **Section 10** in order to find information for the configuration of Presence Server.

In the sample configuration described by these Application Notes, calls will be accepted from the PSTN and routed to OpenGate on digits 43xxxx, OpenGate will then map these digits to an internal number which represents the ACD service queue within OpenGate. OpenGate then routes the call to an available Avaya extension by dialing that extension number.

PG; Reviewed: SPOC 5/19/2014 The interoperability compliance test included both feature functionality and serviceability testing. The feature functionality testing focused on verifying OpenGate was capable of receiving calls from Communication Manager and providing ACD treatment to route those calls to available extensions. The serviceability testing focused on verifying the ability of OpenGate to recover from adverse conditions, such as disconnecting the Ethernet cable from the server.

2.2 Test Results

All test cases passed successfully.

2.3 Support

Technical support can be obtained for Presence Technology OpenGate as follows:

- Email: <u>support@presenceco.com</u>
- Website: *www.presenceco.com*
- Phone: +34 93 10 10 300

3. Reference Configuration

Figure 1 shows the network topology in place during compliance testing. An Avaya S8800 Server running Communication Manager and an Avaya G430 Media Gateway were used as the hosting PBX. SIP trunks are configured between Communication Manager, Session Manager and OpenGate to transport calls between them. Presence Suite, including Presence Agent PC's, were connected to the LAN to provide Agent desktop application connectivity.

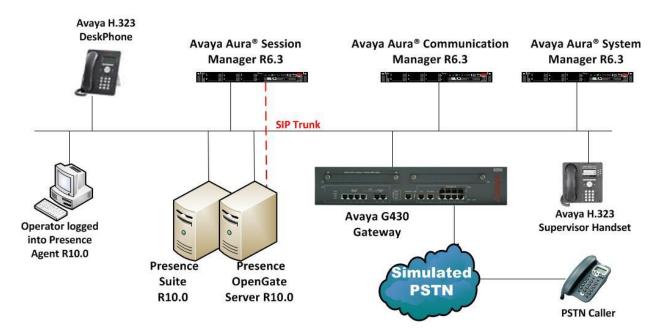


Figure 1: Network Topology used to test Presence Technology Presence OpenGate R10 with Avaya Aura® Session Manager R6.3

4. Equipment and Software Validated

All the hardware and associated software used in the compliance testing is listed below.

Equipment/Software	Release/Version
Avaya Aura® System Manager running on Avaya S8800 Server	System Manager 6.3.0 - FP2 Build No 6.3.0.8.5682-6.3.8.1814 Software Update Revision No: 6.3.3.5.1719
Avaya Aura® Communication Manager running on Avaya S8800 Server	R6.3 SP1 R016x.03.0.124.0
Avaya Aura® Session Manager running on Avaya S8800 Server	Session Manager R6.3 (SP3) SM 6.3.3.0.633004
Avaya G430 Gateway	R6.3
Avaya 96xx Series Deskphone	96xx H.323 Release 3.1 SP2
Presence Suite running on Windows Server 2008 SP2	R10.0
Presence OpenGate Server running on Windows Server 2008 SP2	R10.0

Table 1: Hardware and Software Version Numbers

5. Configure Avaya Aura® Communication Manager

The configuration and verification operations illustrated in this section were all performed using Communication Manager System Administration Terminal (SAT). The information provided in this section describes the configuration of Communication Manager for this solution. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 10**. The configuration operations described in this section can be summarized as follows:

- Verify System Parameters Customer Options.
- System Features and Access Codes.
- Administer Dial Plan.
- Administer Route Selection for OpenGate calls.
- Configure SIP Trunk.

Note: The configuration of the PRI interface to the PSTN is outside the scope of these Application Notes.

5.1 Verify System Parameters Customer Options

The license file installed on the system controls these attributes. If a required feature is not enabled or there is insufficient capacity, contact an authorized Avaya sales representative. Use the **display system-parameters customer-options** command to determine these values. On **Page 2**, verify that **Maximum Administered SIP Trunks** has sufficient capacity. Each call that receives ACD treatment from OpenGate uses a minimum of one SIP trunk. Calls that are routed back to stations commissioned on Communication Manager, or calls that are routed back to Communication Manager to access the PSTN, use 2 SIP trunks.

display system-parameters customer-options	P	age 2	of	11
OPTIONAL FEATURES				
IP PORT CAPACITIES	US	FD		
Maximum Administered H.323 Trunks:				
Maximum Concurrently Registered IP Stations:	18000 2			
Maximum Administered Remote Office Trunks:	12000 0			
Maximum Concurrently Registered Remote Office Stations:	18000 0			
Maximum Concurrently Registered IP eCons:				
Max Concur Registered Unauthenticated H.323 Stations:	100 0			
Maximum Video Capable Stations:	18000 0			
Maximum Video Capable IP Softphones:	18000 0			
Maximum Administered SIP Trunks:	24000 31	9		
Maximum Administered Ad-hoc Video Conferencing Ports:	24000 0			

On Page 3, ensure that both ARS and ARS/AAR Partitioning are set to y.

display system-parameters customer-option	s Page 3 of 11
OPTIONAL	FEATURES
Abbreviated Dialing Enhanced List? y	Audible Message Waiting? y
Access Security Gateway (ASG)? n	Authorization Codes? y
Analog Trunk Incoming Call ID? y	CAS Branch? n
A/D Grp/Sys List Dialing Start at 01? y	CAS Main? n
Answer Supervision by Call Classifier? y	Change COR by FAC? n
ARS? y	Computer Telephony Adjunct Links? y
ARS/AAR Partitioning? y	Cvg Of Calls Redirected Off-net? y
ARS/AAR Dialing without FAC? y	DCS (Basic)? y

On Page 5, ensure that Uniform Dialing Plan is set to y.

s Page 5 of 11
FEATURES
n Station and Trunk MSP? y
n Station as Virtual Extension? y
n
System Management Data Transfer? n
y Tenant Partitioning? y
n Terminal Trans. Init. (TTI)? y
y Time of Day Routing? y
y TN2501 VAL Maximum Capacity? y
Uniform Dialing Plan? y
y Usage Allocation Enhancements? y

5.2 System Features and Access Codes

For the testing, **Trunk-to Trunk Transfer** was set to **all** on **page 1** of the **system-parameters features** page. This is a system wide setting that allows calls to be routed from one trunk to another and is usually turned off to help prevent toll fraud. An alternative to enabling this feature on a system wide basis is to control it using COR (Class of Restriction). See **Section 10** for supporting documentation.

display system-parameters features	Page	1 of	19
FEATURE-RELATED SYSTEM PARAMETER	S		
Self Station Display Enabled?	n		
Trunk-to-Trunk Transfer:	all		
Automatic Callback with Called Party Queuing?	n		
Automatic Callback - No Answer Timeout Interval (rings):	3		
Call Park Timeout Interval (minutes):	10		
Off-Premises Tone Detect Timeout Interval (seconds):	20		
AAR/ARS Dial Tone Required?	У		
Music (or Silence) on Transferred Trunk Calls?	no		
DID/Tie/ISDN/SIP Intercept Treatment:	attd		
Internal Auto-Answer of Attd-Extended/Transferred Calls:	transfe	rred	
Automatic Circuit Assurance (ACA) Enabled?	n		
Abbreviated Dial Programming by Assigned Lists?	n		
Auto Abbreviated/Delayed Transition Interval (rings):			
Protocol for Caller ID Analog Terminals:	Bellcore	Э	
Display Calling Number for Room to Room Caller ID Calls?	n		

Use the **display feature-access-codes** command to verify that a FAC (feature access code) has been defined for both AAR and ARS. Note that **8** is used for AAR and **9** for ARS routing.

display feature-access-codes Page 1 of 10 FEATURE ACCESS CODE (FAC) Abbreviated Dialing List1 Access Code: Abbreviated Dialing List2 Access Code: Abbreviated Dial - Prgm Group List Access Code: Announcement Access Code: Answer Back Access Code: Attendant Access Code: Auto Alternate Routing (AAR) Access Code: 8 Auto Route Selection (ARS) - Access Code 1: 9 Access Code 2: Automatic Callback Activation: *25 Deactivation: #25

5.3 Administer Dial Plan

It was decided for compliance testing that all calls beginning with 43 with a total length of 6 digits were to be sent across the SIP trunk to Session Manager and therefore to OpenGate. In order to achieve this automatic alternate routing (aar) would be used to route the calls. The dial plan and aar routing analysis need to be changed to allow this.

Type **change dialplan analysis** in order to make changes to the dial plan. Ensure that **43** is added with a **Total Length** of **6** and a **Call Type** of **udp**.

change dialplan analysis DIAL PLAN ANALYSIS TABLE Location: all						Page : rcent Fi	1 of 12 ull: 2	
Dialed String 2 3 43 5 6 7 8 9 *	4 4 4 3 1 1		Dialed String	Total Length		Dialed String	Total Length	

5.4 Administer Route Selection for OpenGate Calls

As digits **43**xxxx were defined in the dial plan as udp (**Section 5.3**) use the **change uniformdialplan** command to configure the routing of the dialed digits. In the example below calls to numbers beginning with **43** that are **6** digits in length will be matched. No further digits are deleted or inserted. Calls are sent to **aar** for further processing.

change unifor	rm-dialplan 8	Page 1 of 2		
	UNIF			
				Percent Full: 0
Matching		Insert	Node	e
Pattern	Len Del	Digits	Net Conv Num	
43	60		aar n	
			n	

Use the **change aar analysis** command to further configure the routing of the dialed digits. Calls to OpenGate begin with **43** and are matched with the AAR entry shown below. Calls are sent to **Route Pattern 1**, which contains the outbound SIP Trunk Group.

change aar analysis 85					Page 1 of	2			
AAR DIGIT ANALYSIS TABLE									
		Location:	all	Percent Full: 1					
Dialed	Total	Route	Call	Node	ANI				
String	Min Max	Pattern	Туре	Num	Reqd				
43	6 6	1	unku		n				

PG; Reviewed: SPOC 5/19/2014 Solution & Interoperability Test Lab Application Notes ©2014 Avaya Inc. All Rights Reserved. 9 of 40 PrOG10SM63CM63 Use the **change route-pattern** *n* command to add the SIP trunk group to the route pattern that AAR selects. In this configuration, **Route Pattern Number 1** is used to route calls to trunk group (**Grp No) 1**, this is the SIP Trunk configured in **Section 5.5**.

cha	nge i	coute	e-pat	tter	n 1							Page	1 of	E 3	
					Pattern N	Number	: 1	Patte	rn Name:	SIPTR	K				
						SCCAN	l?n	Sec	ure SIP?	n					
	Grp	FRL	NPA	Pfx	Hop Toll	No.	Inser	ted					DCS	/ IXC	
	No			Mrk	Lmt List	Del	Digit	S					QSIC	G	
						Dgts							Intv	N	
1:	1	0											n	user	
2:													n	user	
3:													n	user	
4:													n	user	
5:													n	user	
6:													n	user	
				TSC	CA-TSC	ITC	BCIE	Servic	e/Featur	e PARM	No.	Numb	ering	LAR	
	0 1	2 M	4 W		Request						-	Form	at		
										Su	baddr	ess			
1:	УУ	У У	y n	n		unre								none	
2:	УУ	У У	y n	n		rest								none	
3:	УУ	У У	y n	n		rest								none	
4:	УУ	У У	y n	n		rest								none	
5:	У У	У У	y n	n		rest								none	
6:	У У	У У	y n	n		rest								none	
6:	У У	УУ	y n	n		rest								none	

5.5 Configure SIP Trunk

In the Node Names IP form, note the IP Address of the **procr** and the Session Manager (**SM63vmpg**). The host names will be used throughout the other configuration screens of Communication Manager and Session Manager. Type **display node-names ip** to show all the necessary node names.

display node-names	ip		Page	1 of	2
		IP NODE NAMES			
Name	IP Address				
AES63VMPG	10.10.40.30				
PGDECT	10.10.40.50				
SM63vmpg	10.10.40.34				
default	0.0.0				
procr	10.10.40.31				
procr6	::				

In the **IP Network Region** form, the **Authoritative Domain** field is configured to match the domain name configured on Session Manager in **Section 6.2**. In this configuration, the domain name is **devconnect.local**. The **IP Network Region** form also specifies the **IP Codec Set** to be used. This codec set will be used for calls routed over the SIP trunk to Session manager as **ip-network region 1** is specified in the SIP signaling group.

```
display ip-network-region 1
                                                                Page
                                                                      1 of 20
                               IP NETWORK REGION
 Region: 1
                Authoritative Domain: devconnect.local
Location: 1
   Name: Default region
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
DIFFSERV/TOS PARAMETERS
Call Control PHB Value: 46
       Audio PHB Value: 46
       Video PHB Value: 26
802.1P/O 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
```

In the **IP Codec Set** form, select the audio codec's supported for calls routed over the SIP trunk to OpenGate. The form is accessed via the **change ip-codec-set n** command. Note that IP codec set 1 was specified in IP Network Region 1 shown above. Multiple codecs may be specified in the **IP Codec Set** form in order of preference; the example below includes **G.729**, **G.711MU** (mu-law) and **G.711A** (a-law), which are supported by OpenGate.

cha	nge ip-codec-	set 1			Page	1 of	2
		IP	Codec Set				
	Codec Set: 1						
	Audio	Silence	Frames	Packet			
	Codec	Suppression	Per Pkt	Size(ms)			
1:	G.729	n	2	20			
2:	G.711MU	n	2	20			
3:	G.711A	n	2	20			
4:							
5:							

Prior to configuring a SIP trunk group for communication with Session Manager, a SIP signaling group must be configured. Configure the Signaling Group form shown below as follows:

- Set the **Group Type** field to **sip**.
- Set the **Transport Method** to the desired transport method; **tcp** (transport control protocol) or **tls** (Transport Layer Security) Note, for compliance testing this was set to tls.
- The **Peer Detection Enabled** field should be set to **y** allowing the Communication Manager to automatically detect if the peer server is a Session Manager.
- Specify the node names for the procr and the Session Manager node name as the two ends of the signaling group in the **Near-end Node Name** field and the **Far-end Node Name** field, respectively. These values are taken from the **IP Node Names** form shown above.
- Set the Near-end Node Name to procr. This value is taken from the IP Node Names form shown above.
- Set the **Far-end Node Name** to the node name defined for the Session Manager (node name **SM63vmpg**), as per **Section 5.5**.
- Ensure that the recommended TLS port value of **5061** is configured in the **Near-end** Listen Port and the **Far-end Listen Port** fields.
- In the **Far-end Network Region** field, enter the IP Network Region configured above. This field logically establishes the **far-end** for calls using this signaling group as network region 1.
- Leave the **Far-end Domain** field blank to allow Communication Manager to accept any domain.
- The **DTMF over IP** field should remain set to the default value of **rtp-payload**. This value enables Communication Manager to send DTMF transmissions using RFC 2833.
- The **Direct IP-IP Audio Connections** field is set to **y**.
- The default values for the other fields may be used.

```
change signaling-group 1
                                                                          2
                                                             Page 1 of
                              SIGNALING GROUP
Group Number: 1
IMS Enabled? n
                            Group Type: sip
                      Transport Method: tls
       Q-SIP? n
    IP Video? n
                                                 Enforce SIPS URI for SRTP? y
 Peer Detection Enabled? y Peer Server: SM
  Near-end Node Name: procr
                                          Far-end Node Name: SM63vmpg
Near-end Listen Port: 5061
                                        Far-end Listen Port: 5061
                                     Far-end Network Region: 1
Far-end Domain:
                                           Bypass If IP Threshold Exceeded? n
Incoming Dialog Loopbacks: eliminate
                                           RFC 3389 Comfort Noise? n
       DTMF over IP: rtp-payload
                                           Direct IP-IP Audio Connections? y
Session Establishment Timer(min): 3
                                                    IP Audio Hairpinning? n
       Enable Layer 3 Test? y
                                               Initial IP-IP Direct Media? n
H.323 Station Outgoing Direct Media? n Alternate Route Timer(sec): 6
```

PG; Reviewed: SPOC 5/19/2014 Solution & Interoperability Test Lab Application Notes ©2014 Avaya Inc. All Rights Reserved. 13 of 40 PrOG10SM63CM63 Configure the **Trunk Group** form as shown below. This trunk group is used for calls to and from OpenGate. Enter a descriptive name in the **Group Name** field. Set the **Group Type** field to **sip**. Enter a **TAC** code compatible with the Communication Manager dial plan. Set the **Service Type** field to **tie**. Specify the signaling group associated with this trunk group in the **Signaling Group** field, and specify the **Number of Members** supported by this SIP trunk group. Accept the default values for the remaining fields.

change trunk-group 1	Page 1 of 21	
J I		
	TRUNK GROUP	
Group Number: 1	Group Type: sip CDR Reports: y	
Group Name: SIP TRK	COR: 1 TN: 1 TAC: *11	
-		
Direction: two-way	Outgoing Display? y	
Dial Access? n	Night Service:	
Queue Length: 0	-	
Service Type: tie	Auth Code? n	
	Member Assignment Method: auto	
	Signaling Group: 1	
	Number of Members: 10	

On **Page 2** of the trunk-group form the **Preferred Minimum Session Refresh Interval (sec)** field should be set to a value mutually agreed with Presence to prevent unnecessary SIP messages during call setup. Session refresh is used throughout the duration of the call, to check the other side has not gone away, for the compliance test a value of **600** was used.

```
change trunk-group 1

Group Type: sip

TRUNK PARAMETERS

Unicode Name: auto

Redirect On OPTIM Failure: 5000

SCCAN? n

Digital Loss Group: 18

Preferred Minimum Session Refresh Interval(sec): 600

Disconnect Supervision - In? y Out? y

XOIP Treatment: auto Delay Call Setup When Accessed Via IGAR? N
```

Settings on **Page 3** can be left as default.

change trunk-group 1 TRUNK FEATURES	Page 3 of 21
ACA Assignment? n	Measured: none Maintenance Tests? y
Numbering Format:	: private UUI Treatment: service-provider
	Replace Restricted Numbers? n Replace Unavailable Numbers? n
Modify	y Tandem Calling Number: no
Show ANSWERED BY on Display? v	

Settings on **Page 4** are as follows.

	D
change trunk-group 1	Page 4 of 21
PROTOCOL VARIATIONS	
Mark Users as Phone?	n
Prepend '+' to Calling/Alerting/Diverting/Connected Number?	n
Send Transferring Party Information?	
Network Call Redirection?	-
Network Call Redirection?	11
Send Diversion Header?	n
Support Request History?	V
Telephone Event Payload Type:	101
	101
Convert 180 to 183 for Early Media?	n
Always Use re-INVITE for Display Updates?	n
Identity for Calling Party Display:	P-Asserted-Identity
Block Sending Calling Party Location in INVITE?	-
5 5 1	
Accept Redirect to Blank User Destination?	-
Enable Q-SIP?	n

6. Configuring Avaya Aura® Session Manager

This section provides the procedures for configuring Session Manager. Session Manager is configured via System Manager. The procedures include the following areas:

- Log in to Avaya Aura® Session Manager.
- Administer SIP Domain.
- Administer Location.
- Administer SIP Entities.
- Administer Routing Policies.
- Administer Dial Patterns.

6.1 Log in to Avaya Aura® System Manager

Access the System Manager using a Web Browser by entering http://<FQDN >/SMGR, where <FQDN> is the fully qualified domain name of System Manager or http://<IP Adddress >/SMGR. Log in using appropriate credentials.

AVAYA	Avaya Aura ®	System Manager 6.3	
Home / Log On			
Log On			
Recommended access to Syste FQDN. Go to central login for Single S If IP address access is your or that authentication will fail in t • First time login with "ad • Expired/Reset password" F to change the password "h to change the password manu Also note that single sign-on t same security domain is not si accessing via IP address.	itan-On Ny option, then note the following cases: Imin" account ds nyperlink on this page Lally, and then login. between servers in the	User ID: admin Password:	Log On Cancel Change Password

6.2 Administer SIP Domain

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

Αναγα	Avaya Aura® System N	1anager 6.3		Last Logged or Help About Change	at October 1, 20 Password Log
					Routing *
Routing	Home / Elements / Routing / Domains				
Domains Locations	Domain Management				
Adaptations	New Edit Delete Duplicate More Actions -	l			
SIP Entities					
Entity Links	2 Items Refresh				Filter
Time Ranges	Name	Туре	Notes		
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 5.5**. Once the domain name is entered click on **Commit** to save this.

AVAYA	Avaya Aura® Syster	m Manager 6.3	Last Logged o Help About Change	n at October 1, 20 Password Log
				Routing *
Routing	Home / Elements / Routing / Domains			
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 concel	

6.3 Administer Location

Session Manager uses the origination location to determine which dial patterns to look at when routing a call. In this example, one Location has been created which will reference both the Session Manager location and the OpenGate location. Navigate to Home \rightarrow Elements \rightarrow Routing \rightarrow Locations \rightarrow New enter an identifying Name, as shown below.

Αναγα	Avaya Aura® System Manager 6.3	Last Logged on at November 13, 20 Help About Change Password Log
-		Routing *
Routing	Home / Elements / Routing / Locations	
Domains Locations	Location Details	Commit) Cancel
Adaptations SIP Entities	General	
Entity Links	* Name: DevConnectPG63 Notes:	
Time Ranges Routing Policies	Dial Plan Transparency in Survivable Mode	
Dial Patterns Regular Expressions	Enabled:	
Defaults	Listed Directory Number:	
	Associated CM SIP Entity:	

At the bottom of the same page the **Location Pattern** is defined. Click **Add** and enter the IP address range used to logically identify the location. In this case the **IP Address Pattern** is **10.10.40.*** as shown below. Click **Commit** when done.

Alarm Threshold		
Overall Alarm Threshold: Multimedia Alarm Threshold: * Latency before Overall Alarm Trigger:	80 V % 80 V %	
* Latency before Multimedia Alarm Trigger:	5 Minutes	
Location Pattern Add Remove		
IP Address Pattern		Notes
* 10.10.40.*]	
Select : All, None		

6.4 Administer SIP Entities

Each SIP device (other than Avaya SIP Phones) that communicates with Session Manager requires a SIP Entity configuration. This section details the steps to create SIP Entities for Session Manager SIP Signaling Interface, Communication Manager and OpenGate Solution respectively.

6.4.1 Configure Session Manager SIP Signaling Interface Entity

Click Home \rightarrow Elements \rightarrow Routing \rightarrow SIP Entities \rightarrow New assign an identifying Name, the FQDN or IP Address for Session Manager SIP Signaling Interface, set the Type to Session Manager and the Location to the Location configured in Section 6.3 and click on Commit.

Αναγα	Avaya	Aura® System	Manager 6.3	Last Logged on at November 13, 20 Help About Change Password Lo
▼ Routing	Home / Elements / Rout	ting / SIP Entities		Routing
Domains	SIP Entity Details			Commit Cancel
Adaptations SIP Entities Entity Links	General	* Name: * FQDN or IP Address:	SM63vmpg 10.10.40.34]
Time Ranges Routing Policies		Type: Notes:	Session Manager 💌	_
Dial Patterns Regular Expressions Defaults		Location: Outbound Proxy:	DevConnectPG63 V]
Defaults			Europe/Dublin	
	SIP Link Monitoring	SIP Link Monitoring:	Use Session Manager Configuration	V

A signaling configuration is created for Session Manager allowing third party devices to connect using permitted protocols. Tick the box next to the entity that was just created and click **Edit** (not shown). Scroll down the page until the **Port** section is displayed, click **Add** and configure the **Port** as **5060** the **Protocol TCP** and the **Default Domain** as the domain configured in **Section 6.2** this corresponds with the signaling group configured in **Section 5.3**. Repeat this for the **UDP** connection which will be established to the OpenGate server, as shown below **TLS** is shown below but was not used in the connection to the OpenGate server. Click **Commit** when done.

TCP Failover port:				
TLS Failover port:				
Add Remove				
3 Items Refresh				
Port	Protocol	Default Domain	Notes	
5060	TCP 🗸	devconnect.local 💌		
5060	UDP 💌	devconnect.local 💌		
5061	TLS 🗸	devconnect.local 💌		
Select : All, None SIP Responses to Add Remove D Items Refresh	an OPTIONS Req & Reason Phrase	uest		Mark Entity Notes

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6.4.2 Configure Avaya Aura® Communication Manager Entity

Click Home \rightarrow Elements \rightarrow Routing \rightarrow SIP Entities \rightarrow New assign an identifying Name, the FQDN or IP Address for the procr, set the Type to CM and the Location to the Location configured in Section 6.3 and click on Commit.

AVAYA	Avay	ya Aura® System I	Manager 6.3	Last Logged on at November 13, 20 Help About Change Password Log
				Routing ×
Routing	Home / Elements /	Routing / SIP Entities		
Domains				
Locations	SIP Entity Details			Commit
Adaptations	General			
SIP Entities		* Name:	CM63VMPG	
Entity Links		* FQDN or IP Address:	10.10.40.31	
Time Ranges		Type:	CM	
Routing Policies		Notes:		
Dial Patterns				
Regular Expressions		Adaptation:	V	1
Defaults		Location:	DevConnectPG63 🕶	
		Time Zone:	Europe/Dublin	
	Override Po	rt & Transport with DNS SRV:		
		SIP Timer B/F (in seconds):	4	
		Credential name:		
		Call Detail Recording:	none 💌	

6.4.3 Configure Presence Technology OpenGate Entity

Click Home \rightarrow Elements \rightarrow Routing \rightarrow SIP Entities \rightarrow New assign an identifying Name, the FQDN or IP Address for the OpenGate server, set the Type to SIP Trunk, leave all other settings default and click Commit.

AVAYA	Avaya A	Aura® System I	Manager 6.3	He	Last Logged on at November 13, 20 lp About Change Password Log
					Routing ×
[™] Routing	Home / Elements / Routi	ng / SIP Entities			
Domains				Commit Commet	
Locations	SIP Entity Details			Commit Cancel	
Adaptations	General				
SIP Entities		* Name:	Presence		
Entity Links		* FQDN or IP Address:	10.10.40.84]	
Time Ranges		Туре:	SIP Trunk		
Routing Policies		Notes:			
Dial Patterns					
Regular Expressions		Adaptation:	~		
Defaults		Location:	DevConnectPG63 💌		
		Time Zone:	Europe/Dublin	~	
	Override Port & T	ransport with DNS SRV:			
	* SIP	Timer B/F (in seconds):	4		
		Credential name:			
		Call Detail Recording:	egress 💌		

6.5 Administer SIP Entity Link

A SIP Trunk between a Session Manager and a telephony system is described by an Entity Link. An entity link needs to be created between Session Manager and both Communication Manager and OpenGate.

6.5.1 Administer SIP Entity Link from Avaya Aura® Session Manager to Avaya Aura® Communication Manager

Click on Home \rightarrow Elements \rightarrow Routing \rightarrow Entity Links \rightarrow New assign an identifying Name choose the entity assigned to the Session Manager SIP Signaling Interface as SIP Entity 1, set the Protocol as TLS, enter 5061 for the Port, choose the Communication Manager entity as SIP Entity 2 and set the Port to 5061, place an arrow in the Trusted box. Click Commit when done.

AVAYA		Avaya A	ura® Syste	m Man	ager 6	5.3			Last Lo Help About	ogged on at Change	November 13, 2 Password Le
-											Routing
Routing	 Hon	ne / Elements / Routir	ng / Entity Links								
Domains											
Locations	Entil	ty Links						Commit C	ancel		
Adaptations											
SIP Entities	1 Ite	em Refresh									Filt
Entity Links			SIP Entity 1	Protocol	Port	SIP Entity 2		Port	Connection	Deny New	Notes
Time Ranges		Hame	SIF Entry I	FIOLOCOT	Port	SIF Entity 2		POR	Policy	Service	Notes
Routing Policies		* SM63vmpg_CM63VM	* SM63vmpg 💙	TLS 💌	* 5061	* CM63VMPG	*	* 5061	trusted 💌		
Dial Patterns	Sele	ect : All, None									
Regular Expressions	Dere										
Defaults											
								Commit C	ancel		

6.5.2 Administer SIP Entity Link from Avaya Aura® Session Manager to OpenGate

Click on Home \rightarrow Elements \rightarrow Routing \rightarrow Entity Links \rightarrow New assign an identifying Name choose the entity assigned to the Session Manager SIP Signaling Interface as SIP Entity 1, set the Protocol as UDP, enter 5060 for the Port, choose the OpenGate entity as SIP Entity 2 and set the Port to 5060, select Trusted from the Connection Policy drop-down list. Click Commit when done. This establishes the Session Manager end of the SIP Trunk to OpenGate.

AVAYA	Avaya	Aura® Syste	m Man	ager 6	5.3		Last Lo Help About	gged on at	November 13, 2 Password Le
									Routing
Routing	Home / Elements / Rou	ting / Entity Links							
Domains									
Locations	Entity Links					Commit Ca	ancel		
Adaptations									
SIP Entities	1 Item Refresh								Fil
Entity Links	Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection	Deny	Notes
Time Ranges		SIF Chury I	FIOLOCOI	Port	SIF Linky 2	Port	Policy	Service	Notes
Routing Policies	Presence_UDP	* SM63vmpg 💙	UDP 💌	* 5060	* Presence 🗸	* 5060	trusted 💌		
Dial Patterns	Select : All, None								
Regular Expressions	Select Mi, None								
Defaults									
						Commit Ca	ancel		

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6.6 Administer Routing Policies

To complete the routing configuration, a Routing Policy is created. Routing policies direct how calls will be routed to an attached system. Two routing policies must be created, one for the Communications Manager and the second for OpenGate. These will be associated with the Dial Patterns created in **Section 6.7**.

6.6.1 Create Routing Policy to Avaya Aura® Communication Manager

Click Home \rightarrow Elements \rightarrow Routing \rightarrow Routing Polices \rightarrow New assign an identifying Name for the route. Under the SIP Entity as Destination section, click on Select and choose the Communication Manager SIP Entity and click Select (not shown). Click Commit when done.

AVAYA	Avaya Au	ura® System Manager 6.3	I	Last Logged or Help About Chan	ge Password Log
-					Routing *
 Routing Domains Locations Adaptations SIP Entities Entity Links Time Ranges Routing Policies Dial Patterns Regular Expressions Defaults 	Home / Elements / Routing Routing Policy Details General SIP Entity as Destination Select	* Name: ToCM63VMPG Disabled: * Retries: 0 Notes:	Commit Cancel]	
	Name	FQDN or IP Address		Туре	Notes
	CM63VMPG	10.10.40.31		CM	

6.6.2 Create Routing Policy to Presence Technology OpenGate

Click Home \rightarrow Elements \rightarrow Routing \rightarrow Routing Polices \rightarrow New assign an identifying Name for the route. Under the SIP Entity as Destination section, click on Select and choose the OpenGate SIP Entity and click Select (not shown). Click Commit when done.

AVAYA	Avaya	a Aura® System Manager 6.3	Last Help Abo	Logged on at November 13, 20 out Change Password Log
				Routing *
Routing	Home / Elements / Register / R	outing / Routing Policies		
Domains				
Locations	Routing Policy Details		Commit Cancel	
Adaptations	General			
SIP Entities		* Name: ToPresence		
Entity Links		Disabled:		
Time Ranges				
Routing Policies		* Retries: 0		
Dial Patterns		Notes:		
Regular Expressions				
Defaults	SIP Entity as Desti	ination		
	Select			
	Name	FQDN or IP Address	Туре	Notes
	Presence	10.10.40.84	SIP Trunk	

PG; Reviewed: SPOC 5/19/2014

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6.7 Administer Dial Patterns

As one of its main functions, Session Manager routes SIP traffic between connected devices. Dial Patterns are created as part of the configuration to manage SIP traffic routing, which will direct calls based on the number dialed to the appropriate system.

6.7.1 Create Dial Pattern to Avaya Aura® Communication Manager

An additional Dial Pattern must be created on Session Manager to route incoming calls from OpenGate to Communication Manager stations. For compliance testing Communication Manager phones were in the range 2000- 2999 so a dial pattern of 2 with a min and max of 4 was added to route calls 2xxx to Communication Manager. Click **Home** \rightarrow **Elements** \rightarrow **Routing** \rightarrow **Dial Patterns** \rightarrow **New.** Under **Pattern** enter the numbers presented to Session Manager by OpenGate destined for Communication Manager, in the **Patterns** box. Set **Min** and **Max** digit string length, and set **SIP Domain** to that which was created in **Section 6.2**. In the **Originating Locations and Routing Policies** section of the web page, click **Add.** In the **Origination Section**, click **All**, in the **Routing Policies** section click the routing policy created for Communication Manager. Click **Select** when done (not shown). Click **Commit** once finished.

Routing	Home / Elements / Routing / Dial Patterns
Domains	
Locations	Dial Pattern Details Commit Cancel
Adaptations	General
SIP Entities	* Pattern: 2
Entity Links	* Min: 4
Time Ranges	
Routing Policies	* Max: 4
Dial Patterns	Emergency Call:
Regular Expressions	Emergency Priority: 1
Defaults	Emergency Type:
	SIP Domain: devconnect.local 💌
	Notes:
	Originating Locations and Routing Policies
	Add Remove
	1 Item Refresh
	Originating Location Name Originating Location Notes Routing Policy Name Rank Routing Policy Disabled Routing Policy Destination
	DevConnectPG63 ToCM63VMPG 0 CM63VMPG

6.7.2 Create Dial Pattern to OpenGate

In Section 5.5 Communication Manager is configured to route the dialed numbers beginning 43xxxx to Session Manager. To create a Dial Pattern to route 43xxxx from Session Manager to OpenGate click Home \rightarrow Elements \rightarrow Routing \rightarrow Dial Patterns \rightarrow New. Under Pattern enter the numbers presented to Session Manager by Communication Manager destined for OpenGate, in the Patterns box. Set Min and Max digit string length, and set SIP Domain to that created in Section 6.2. In the Originating Locations and Routing Policies section of the web page, click Add. In the Origination Location section click All, in the Routing Policies section click the routing policy created for OpenGate. Click Select when done (not shown). Click Commit when complete.

Routing	Home / Elements / Routing / Dial Patterns			
Domains	Dial Pattern Details			
Locations	Dial Pattern Details Commit Cancel			
Adaptations	General			
SIP Entities	* Pattern: 43			
Entity Links	* Min: 6			
Time Ranges	* Max: 6			
Routing Policies				
Dial Patterns	Emergency Call:			
Regular Expressions	Emergency Priority: 1			
Defaults	Emergency Type:			
	SIP Domain: devconnect.local 💌			
	Notes:			
	Originating Locations and Routing Policies			
	1 Item Refresh			
	Originating Location Name Originating Location Notes Routing Policy Name Rank Routing Policy Disabled Routing Policy Destination			
	DevConnectPG63 ToPresence 0 Presence			
	Select : All, None			

7. Configure Presence Technology OpenGate

OpenGate is part of Presence Suite and is administered via Presence Administrator which resides on the Presence Server. A number of items are set up within Presence Administrator to configure the OpenGate ACD.

This section will cover the following areas:

- Login to Presence Administrator.
- Administer SIP trunk to Avaya Aura® Session Manager.
- OpenGate Skill Configuration.
- OpenGate Agent Login Configuration.
- OpenGate Station Configuration.
- OpenGate Service Configuration.
- Outbound Routes.
- Inbound Routes.
- Logging in to OpenGate.

Note: The following configuration details for Agent Login and Skillsets are all a part of the Presence OpenGate internal Call Centre and are not referenced anywhere else in these Application Notes.

7.1 Login to Presence Administrator

Having logged into the Windows Server, launch the Presence Administrator application by double clicking the **pcoadmin.exe** icon located in the Presence folder (not shown). The username and password that appear in the **User** and **Password** fields are created during the Presence Server installation.



7.2 Administer SIP Trunk to Avaya Aura® Session Manager

In the left window navigate to **PBX→Trunks**. Click on the **New** icon at the top left of the page.

🔜 Presence Adm	inistrat	or						
Object Utilities S	iystem	Help						
New Edit								
Services		Trunks						
ACD	- 25-							
Extensions	Node		Channel	Туре	Name	N	lode	
PBX								
Outbound Routes								
Inbound Routes								
- Z								
Trunks								
12								
Nodes								
 System								
Trunks: 3				Server: PCOSERV	ER_OPENGATE			

Fill in the information as shown below. Please note that the **Node ogmaster** has already been established during the install of Presence OpenGate. Select **SIP Peer** as the **Channel** and **Advanced** as the **Mode**. Enter a suitable name for the **User**. Note the following in the main window. Click on OK once finished.

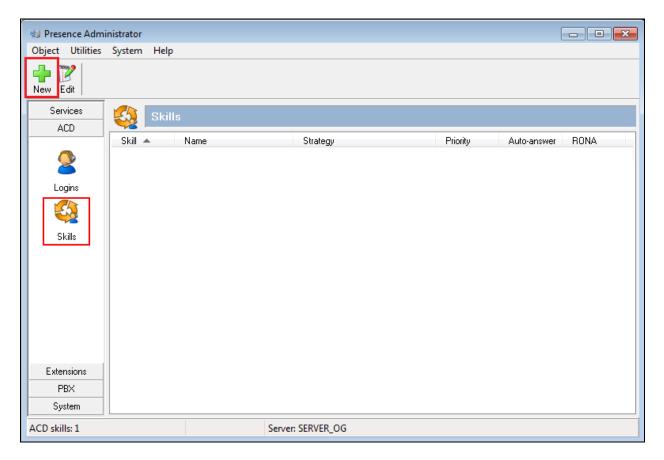
- **Fromdomain** = the domain that is referenced in **Sections 6.2** and **5.5**.
- **Host** = IP address of Session Manager.

New trunk				×
Node:	ogmaster 💌			
Channel: 🛛	SIP Peer 💌			
Mode:	Advanced 💌			
User:	avaya2013			
type=peer fromdomain=devcor host=10.10.40.34 disallow=all allow=all dtmfmode=rfc2833	inect.local			
		<u> </u>	<u>C</u> ancel	Apply

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7.3 OpenGate Skill Configuration

To configure a skill, from the left hand side select $ACD \rightarrow Skills$ from the Presence Administrator main menu. Click the New button.

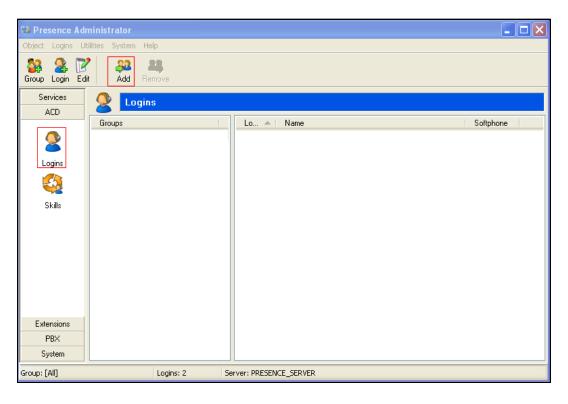


In the resulting screen define a **Skill** number and enter a **Name** to identify the skill. In the **Strategy** field use the two drop down menus to define the selection strategy that will be used by the skill. Set a **Priority** for the skill. All remaining fields can be left with default values. Click **OK** to save the configuration.

Add skill		×
General	General General	
	Skill: 3330	
	Name: 3330	
	Strategy: Skill Level measurement 💌 Agent Available the Longest 💌	
	Priority: 10	
	RONA: 0 seconds	
	Answer calls automatically (auto-answer)	
	<u>O</u> K <u>C</u> ancel <u>Apply</u>	

7.4 OpenGate Agent Login Configuration

The login configured here will be used by the agent to login to OpenGate. The Agents will connect to OpenGate via the Presence Suite Agent application. To configure an ACD agent login, from the left hand side select $ACD \rightarrow Logins$ from the Presence Administrator main menu. Click the Add button.



Solution & Interoperability Test Lab Application Notes ©2014 Avaya Inc. All Rights Reserved. From the menu on the left side of the screen select **General**, enter a numerical ID in the **Logins** field. Define a **Password** for the agent login and repeat in the **Confirm Password** field.

調 Insert log	jins		×
Insert log General Skills Groups Softpho		General Logins: 4400 Password: **** Confirm password: **** Confirm password: **** Confirm password: **** Confirm password: **** Password: ****	×
		Store outgoing calls of agent	
		Answer calls automatically (auto-answer)	
		OK Cancel	

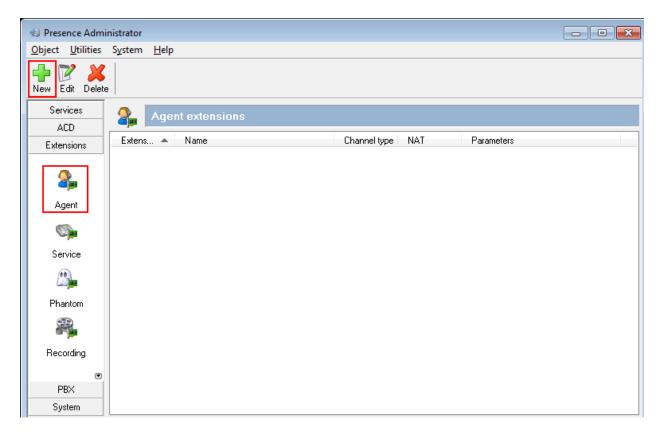
From the menu on the left side of the screen select **Skills**, use the drop down menu to select the **Skill** configured in **Section 7.3** and specify a **Level** for the skill to be applied against this agent login. Click the **Add** button and the skill should appear under **Assigned skills** (not shown here). Click **OK** to save the login configuration.

🔛 Insert logins		×
General Skills Softphone Softphone	Skills Skills Skill: 3330 - 3330 Level: Assigned skills Name Level	Add
		Remove
	ОК	Cancel

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7.5 Presence Technology OpenGate Station Configuration

Each telephone/endpoint that OpenGate could route calls to must be defined within Presence Administrator as an Agent extension. To define an Agent extension from the left hand side navigate to **Extensions** \rightarrow **Agents** and click the **New** button.

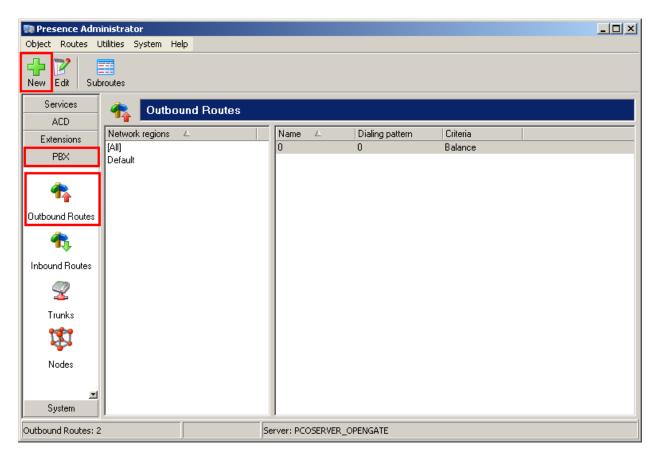


In the resulting screen specify an **Extension** number that will be used by the Presence Agent application (Section 7.9.1). Note can be any existing extension number on Communication Manager. Set a **Name** that the Agent extension will be known as. The password is not required in this case. In the **Channel** field use the drop down arrow to select **SIP**. In the following field define the number that will be dialled and the route used to reach the station, which should be expressed in the form of a URI. The user part is set to the number to be dialled and the host part is set to the name of the sip trunk defined **Section 7.2**. In this example **\${EXTEN}@avaya2013** is configured which means any number that is dialled will use trunk "avaya2013", note **avaya 2013** is the SIP Trunk configured in Section 7.2 above, so the URI is formatted as **\${EXTEN}@avaya2013**.

A	dd agent extensions		x
	Extension: 2000		
	Name: 2000		
	Password:	Use extension as password	
	Channel: SIP	▼ \${EXTEN}@avaya2013	
	NAT: never	×	
Г	Network regions		
		Add	
	Region		
		Remove	
	·		
		<u>D</u> K <u>C</u> ancel <u>Apply</u>	

7.6 Outbound Routes

To define an outbound route, from the left hand side navigate to $PBX \rightarrow Outbound$ Routes and click the New button.



In the resulting screen enter a descriptive name in the **Route** field (note the same name as the patterns was used below) and in the **Pattern** field define any prefix required by outbound calls. This setup is only used for internal working of OpenGate and is not related to routing on Communication Manager. For **Criteria** use the drop-down menu to select the method that will be used to distribute calls among the subroutes configured in the next step. **Balance** allows an even distribution of calls across the subroutes. Click **OK** to save the **outbound route**.

Edit outbound route				
Route: 0				
Pattern: 0				
Criteria: Balance	•			
<u>o</u> ĸ	<u>C</u> ancel	Apply		

To add an outbound subroute, from the outbound routes main page shown above, highlight the outbound route that was added in the previous step and click the subroutes button at the top of the screen (not shown). The **Outbound subroutes** window is then displayed as shown below, Click **New**.

an Cut	Outbound subroutes								
New	📝 Edit	X Delete		D own					
Node				Channel type	Channel parameters	Dialing type	Dialing parameters	Weight	Criteria
ogmast	er			SIP		Custom	avaya2013/\${EXTEN:1}	0	Balance

In the resulting window select the relevant **Node** (this was created during the OpenGate install), and under **Channel** select **SIP**. For **Dialing string** use the drop down menu to select **Custom** and in the secondary field enter a matching pattern using a regular expression. In the example below the expression used is **\${EXTEN:1}@avaya2013**. The expression performs the following:

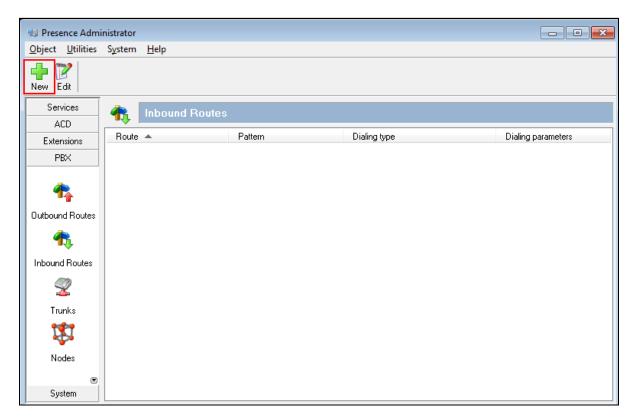
- **EXTEN** is an internal variable which represents the called number, therefore this pattern will match any called number beginning with a 0(2000).
- Remove the leading character (leaving 2000).
- Route it via the **avaya2013** trunk defined in **Section 7.2**.

This is done in order to use the same numbers that may be used on the Avaya PBX. Using 0 to make outgoing calls and then stripping the 0 before the call reaches the Session Manager and Communication Manager. For more information on the routing of call in OpenGate please refer to the following document referenced in Section 10 of these Application Notes. *ACD Sys Presence Administrator Manual Presence Suite*, V10.0

Add outbo	ound subroute		×
	Node:	ogmaster 💽	
	Channel:	SIP 💌	
	Dialing string:	Custom	▼ \${EXTEN}@avaya2013
	Weight:	0	
	Billing code:		
Outg	oing calls identifi	cation	
	Enable outgoing	calls identification	
	Phone no:		Description:
			<u>OK</u> ancel <u>A</u> pply

7.7 Inbound Routes

Inbound routes are used to map dialed numbers received to internal extensions within OpenGate. To define an inbound route, from the left hand side navigate to **PBX** \rightarrow **Inbound Routes** and click the **New** button.



In the resulting window enter a descriptive name for **Route**. In the **Input pattern** field enter a numerical pattern that the inbound route will use to match incoming digits. Use the drop down menu in the **Dialing string** field to specify the digit manipulation to be performed. In the example below, incoming digits **43** will be replaced with **\${EXTEN:2**}. This will remove two digits from the incoming call i.e., the 43 from the incoming call leaving 3300, which is the internal Service Extension used within OpenGate. Note 3300 was configured in Section 7.4 as an OpenGate skill.

Add inbound route	×
Route: ToVDNs	
Input pattern: 43	
Dialing string: Custom StEXTEN:2	
<u>O</u> K <u>Cancel</u> <u>Apply</u>	

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7.8 Logging into OpenGate

In order to receive calls from Open Gate, users must log in to the system via the Presence Agent application. This section describes the steps required to connect to OpenGate as an agent to receive ACD calls.

7.8.1 Presence Agent Configuration

The following steps are carried out on the Presence Agent PC. Prior to installing the Presence agent, ensure that the DBExpress driver (dpexpoda.dll) is located in the C:\Windows\System32 directory, if not contact Presence Technology support outlined in **Section 2.3** of these Applciation Notes. The DBExpress driver allows the agent application to communicate with the Presence Suite/OpenGate database.

Launch the **Presence Agent Configuration** application by double clicking the **pcoagentcfg.exe** located in the C: \Presence folder (not shown). Enter the **Presence Server IP address** as **10.10.40.83**. The **Presence Server port** can be left as the default value of **6100**. Enter the extension of the station that will be used with this workstation in the **Agent station** field. Check the **Hang up calls before logging in** check box. In the field **Use configuration for** choose **Machine** from the drop down menu. Click **OK**. This step is needed for each agent configured; only the agent station field will vary.

Ρ	resence Agent Configu	ration	×
	General	General	
	General Backup servers Advanced Tracing	General Presence Server IP address: 10.10.40.83 Station configuration Agent station: 2000 Image: Hang up calls before logging in Image: Ask agent station at login window Use configuration for: Machine	
		OK Cancel	

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7.8.2 Logging in Presence Agent

Launch the Presence agent configuration application by double clicking the pcoagent.exe located in the Presence folder. Enter the agent **Login** and **Password** configured in **Section 7.4** and click on **OK**.



A task bar is present at the top of the Agent PC. Click on the green arrow to put the agent into an available state.

🕨 📹 🔊 🎯 🔛 🛹	-79146 22222 0	Presence
Stopped 00	1:00:29	Uwaiting for user action

The information status on the task bar goes to available indicating the agent is ready to receive calls.

📕 📲 × 📵 🖄 🔣 📽 🗣 😨	9116 2222 0	presence
00:00:10 Available 00:00:10		Uwaiting for user action

8. Verification Steps

This section provides steps that may be performed to verify that the solution is configured correctly.

 From System Manager Home Tab click on Session Manager and navigate to Session Manager → System Status → SIP Entity Monitoring. Select the relevant SIP Entity from the list and observe if the Conn Status and Link Status are showing as up.

Editor	All	Entity Links for Session	Manager: SM63vmpg						
Network Configuration		,							
Device and Location				Sta	tus Details fo	r the select	ed Session Ma	nager:	
Configuration		Summary View							
Application									
Configuration	81	Items Refresh							Filter: Enabl
▼ System Status		SIP Entity Name	SIP Entity Resolved IP	Port	Proto.	Denv	Conn.	Reason Code	Link Status
SIP Entity Monitoring		Sir Endy Hume	Sir Endy Resolved in	For	11000.	Deny	Status	Neuson coue	Link Status
Managed Bandwidth	\circ	ASCOMDECT1	10.10.40.181	5060	TCP	FALSE	DOWN	500 Server Internal Error:	DOWN
Usage								Destination	
Security Module		_						Unreachable	
Status	0	Presence	10.10.40.84	5060	TCP	FALSE	UP	200 OK	UP
Registration	0	СМ62	192.168.50.13	5061	TLS	FALSE	DOWN	500 Server	DOWN
Summary	-							Internal Error:	
User Registrations								Destination Unreachable	
Session Counts	\circ	CM63VMPG	10.10.40.31	5061	TLS	FALSE	UP	200 OK	UP
System Tools	\circ	CS1KPG2	192.168.50.99	5060	TCP	FALSE	UP	200 OK	UP
Performance	$^{\circ}$	CS1KPG1	10.10.40.111	5060	TCP	FALSE	UP	200 OK	UP
	\circ	NRS76	10.10.40.101	5060	TCP	FALSE	UP	200 OK	UP
	\circ	AAMessaging	192.168.50.60	5060	TCP	FALSE	UP	200 OK	UP

2. From the Communication Manager SAT interface run the command status trunk *n* where *n* is a previously configured SIP trunk. Observe if all channels on the trunk group display in service/ idle.

status t	runk 1		
		TRUNK	GROUP STATUS
Member Busy	Port	Service State	Mtce Connected Ports
0005/001 0005/002 0005/003 0005/004 0005/005	T00007 T00008 T00009	<pre>in-service/idle in-service/idle in-service/idle in-service/idle in-service/idle</pre>	no no no no

3. Manually verify that calls can be placed to OpenGate and routed to Agents. Make a call from any Communication Manager phone to a number associated with an OpenGate skill. Note for compliance testing 433300 was used as an example. This call will then get routed to an Agent logged into a Communication Manager phoneset associated with this OpenGate skill.

9. Conclusion

These Application Notes describe the configuration steps required for Presence Technology OpenGate R10.0 to successfully interoperate with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Session Manager R6.3. All functionality and serviceability test cases were completed successfully.

10. Additional References

This section references the Avaya and Presence Suite product documentation that are relevant to these Application Notes.

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

- [1] Administering Avaya Aura® Communication Manager Release 6.3.
- [2] Administering Avaya Aura® Session Manager Release 6.3.

The following documentation is available on request from Presenceat http://www.presenceco.com.

- [1] ACD Sys Presence Administrator Manual Presence Suite, V10.0.
- [2] Presence Installation Guides Presence Software, V10.0.
- [3] PBX/ACD Requirements Presence Software, V10.0.

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