

Avaya Solution & Interoperability Test Lab

# Application Notes for Amtelco 1Call Web Agent Release 5.5 with Avaya Aura® Session Manager Release 8.1.3 – Issue 1.0

## Abstract

These Application Notes describe the configuration steps required for Amtelco 1Call Web agent to interoperate with Avaya Aura® Session Manager and Avaya Aura® Communication Manager using SIP trunks. Amtelco 1Call Web agent is a SIP-based solution that provides operator users with phone and call controls.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as any observations noted in **Section 2.2**, to ensure that their own use cases are adequately covered by this scope and results.

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

# 1. Introduction

These Application Notes describe the configuration steps required for Amtelco 1Call Web Agent (Web Agent) to interoperate with Avaya Aura® Session Manager and Avaya Aura® Communication Manager using SIP trunks. Amtelco 1Call Web Agent is a SIP-based solution that provides operator users with phone and call controls.

The 1Call Web solution consists of the Genesis Telephony Server, Intelligent Series Server, 1Call Web server, and 1Call Web Agent. Operators have desktops running the 1Call Web Agent in the internet browser application, with dedicated audio connections via SIP with the Genesis Telephony Server.

For compliance testing, calls from internal and external callers were routed over SIP trunks via Session Manager to 1Call Web Agent for operator functions. Genesis tracked the operator states and routed calls to available operators, and populated answering operator desktops with pertinent call information such as calling and called numbers. All call controls were performed from the operator desktops.

# 2. General Test Approach and Test Results

The feature test cases were performed manually. Calls were placed manually with necessary operator actions such as hold and transfer, performed from the operator desktops.

The serviceability test cases were performed manually by disconnecting/reconnecting the Ethernet connection to the Genesis servers and/or clients.

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.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in these DevConnect Application Notes included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Notes, the interface between the Avaya system and Amtelco Genesis did not use secure encryption feature as requested by Amtelco.

## 2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing included inbound, outbound, internal, external, G.711MU, outbound DTMF, hold/resume, drop, display, transfer, supervised conference, multiple calls, and multiple operators.

The serviceability testing focused on verifying the ability of 1Call Web Agent to recover from adverse conditions, such as disconnecting/reconnecting the Ethernet connection to the Genesis servers and/or clients.

## 2.2. Test Results

All test cases were executed and verified. There is one observation below.

• The unsupervised transfer feature was accomplished by 1Call Web Agent via use of SIP REFER, and the supervised transfer and supervised conference features were accomplished by 1Call Web Agent via merge/unmerge of respective audio connections.

## 2.3. Support

Technical support on Amtelco 1Call Web Agent can be obtained through the following:

- **Phone:** +1 (800) 553-7679
- Email: service@amtelco.com
- Web: <u>https://www.amtelco.com/customer-support</u>

# 3. Reference Configuration

As shown in **Figure 1**, operators have desktops running the Intelligent Series Soft Agent application, and dedicated SIP connections with the Genesis Server as part of log in. The Intelligent Series Supervisor was running on the supervisor desktop.

SIP trunks were used between the 1Call Web Telephony Server and Session Manager. A 4 digit Uniform Dial Plan was used to facilitate dialing with the 1Call Web. Calls to extensions 52xx were routed over the SIP trunks to Genesis. In particular, internal users on Communication Manager will dial 5200 to reach Genesis.

The detailed administration of connectivity between Communication Manager and Session Manager are not the focus of these Application Notes and will not be described.

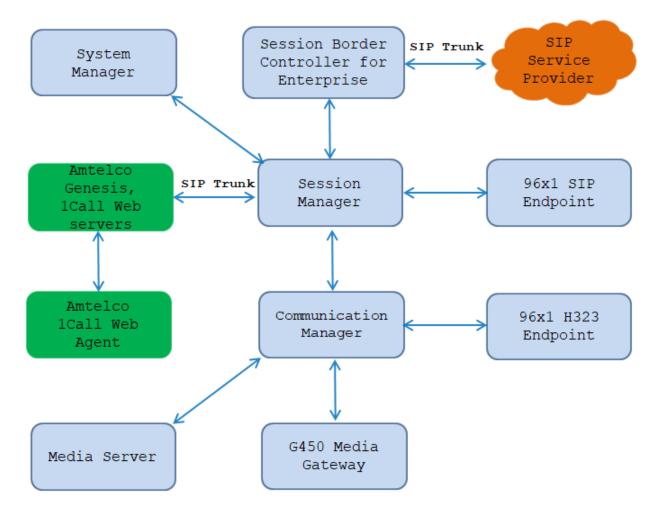


Figure 1: Compliance Testing Configuration

# 4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® Communication Manager	8.1.3
running on Virtual Environment	8.1.3.2.0.890.26989
Avaya G450 Media Gateway	41.34.0
Avaya Aura® Media Server running on	8.0
Virtual Environment	8.0.2.163
Avaya Aura® System Manager running on Virtualized Environment	8.1.3 8.1.3.0.1011784
Avaya Aura® Session Manager running on Virtualized Environment	8.1.3 8.1.3.0.813014
Avaya Session Border Controller for Enterprise	8.1.2 8.1.2.0-37-21065
Avaya 9611G IP Deskphone (SIP)	7.1.9.0.8
Avaya 9641G IP Deskphone (H.323)	6.8304
Amtelco Genesis Telephony Server running	
on Linux Ubuntu	Asterisk PBX 16.23.0
Amtelco Web Server running on Linux	Web Agent 5.5.7605.26
Ubuntu	
Amtelco IS Server running on Windows 2016	

# 5. Configure Avaya Aura® Communication Manager

This section provides the procedures for configuring Communication Manager. The procedures include the following areas:

- Verify license
- Administer system parameters features
- Administer SIP trunk group
- Administer SIP signaling group
- Administer SIP trunk group members
- Administer IP network region
- Administer IP codec set
- Administer route pattern
- Administer private numbering
- Administer uniform dial plan
- Administer AAR analysis

For compliance testing, a separate set of codec set, network region, trunk group, and signaling group were used for integration with Genesis.

## 5.1. Verify License

Log into the System Access Terminal (SAT) to verify that the Communication Manager license has appropriate permissions for features illustrated in these Application Notes. Use the "display system-parameters customer-options" command. Navigate to **Page 2**, and verify that there is sufficient remaining capacity for SIP trunks by comparing the **Maximum Administered SIP Trunks** field value with the corresponding value in the **USED** column.

The license file installed on the system controls the maximum permitted. If there is insufficient capacity, contact an authorized Avaya sales representative to make the appropriate changes.

display system-parameters customer-options		Page	<b>2</b> of	12	2
OPTIONAL FEATURES					
IP PORT CAPACITIES		USED			
Maximum Administered H.323 Trunks:	12000	10			
Maximum Concurrently Registered IP Stations:	18000	4			
Maximum Administered Remote Office Trunks:	12000	0			
Maximum Concurrently Registered Remote Office Stations:	18000	0			
Maximum Concurrently Registered IP eCons:	414	0			
Max Concur Registered Unauthenticated H.323 Stations:	100	0			
Maximum Video Capable Stations:	41000	0			
Maximum Video Capable IP Softphones:	18000	0			
Maximum Administered SIP Trunks:	24000	30			
Maximum Administered Ad-hoc Video Conferencing Ports:	24000	0			

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## 5.2. Administer System Parameters Features

Use the "change system-parameters features" command to allow for trunk-to-trunk transfers.

For ease of interoperability testing, the **Trunk-to-Trunk Transfer** field was set to "all" to enable all trunk-to-trunk transfers on a system wide basis. Note that this feature poses significant security risk and must be used with caution. For alternatives, the trunk-to-trunk feature can be implemented on the Class of Restriction or Class of Service levels. Refer to [1] for more details.

19 change system-parameters features Page 1 of FEATURE-RELATED SYSTEM PARAMETERS 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? y Music/Tone on Hold: music Type: ext 1104 Music (or Silence) on Transferred Trunk Calls? no DID/Tie/ISDN/SIP Intercept Treatment: attendant Internal Auto-Answer of Attd-Extended/Transferred Calls: transferred Automatic Circuit Assurance (ACA) Enabled? n Abbreviated Dial Programming by Assigned Lists? n Auto Abbreviated/Delayed Transition Interval (rings): 2 Protocol for Caller ID Analog Terminals: Bellcore Display Calling Number for Room to Room Caller ID Calls? n

#### 5.3. Administer SIP Trunk Group

Use the "add trunk-group n" command, where "n" is an available trunk group number, in this case "1". Enter the following values for the specified fields and retain the default values for the remaining fields.

- Group Type: "sip"
- Group Name: A descriptive name.
- TAC: An available trunk access code.
- Service Type: "tie"

add trunk-group 1		Page 1 of 22
	TRUNK GROUP	
Group Number: 1	Group Type: sip	CDR Reports: y
Group Name: Private Trunk	COR: 1	TN: 1 <b>TAC: #01</b>
Direction: two-way	Outgoing Display? n	
Dial Access? n	Night S	Service:
Queue Length: 0		
Service Type: tie	Auth Code? n	
	Member Assi	ignment Method: auto
	Si	ignaling Group: 1
	Numk	per of Members: 14

Navigate to Page 3 and enter "private" for Numbering Format.

```
change trunk-group 1
                                                                Page
                                                                       3 of 22
TRUNK FEATURES
         ACA Assignment? n
                                     Measured: none
                                                         Maintenance Tests? y
  Suppress # Outpulsing? n Numbering Format: private
                                               UUI Treatment: shared
                                             Maximum Size of UUI Contents: 128
                                                Replace Restricted Numbers? y
                                               Replace Unavailable Numbers? y
                                                 Hold/Unhold Notifications? y
                               Modify Tandem Calling Number: no
               Send UCID? y
Show ANSWERED BY on Display? y
```

#### 5.4. Administer SIP Signaling Group

Use the "add signaling-group n" command, where "n" is an available signaling group number, in this case "1". Enter the following values for the specified fields and retain the default values for the remaining fields.

- Group Type:
- Transport Method: "tls"
- Near-end Node Name: An existing C-LAN node name or "procr" in this case.
- Far-end Node Name: The existing Session Manager node name.

"sip"

- Near-end Listen Port: An available port for integration with Genesis.
- Far-end Listen Port: The same port number as in Near-end Listen Port.
- Far-end Network Region: An existing network region to use with Genesis.
- **Far-end Domain:** The applicable domain name for the network.
- Direct IP-IP Audio Connections: enter "y".

add signaling-group 1 1 of 2 Page SIGNALING GROUP Group Number: 1 Group Type: sip IMS Enabled? n Transport Method: tls Q-SIP? n IP Video? n Enforce SIPS URI for SRTP? n Peer Detection Enabled? n Peer Server: SM Prepend '+' to Outgoing Calling/Alerting/Diverting/Connected Public Numbers? y Remove '+' from Incoming Called/Calling/Alerting/Diverting/Connected Numbers? n Alert Incoming SIP Crisis Calls? n Near-end Node Name: procr Far-end Node Name: interopASM Near-end Listen Port: 5061 Far-end Listen Port: 5061 Far-end Network Region: 1 Far-end Domain: bvwdev.com 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

### 5.6. Administer IP Network Region

Use the "change ip-network-region n" command, where "n" is the existing far-end network region number used by the SIP signaling group from **Section 5.4**.

For Authoritative Domain, enter the applicable domain for the network. Enter a descriptive Name. Enter "yes" for Intra-region IP-IP Direct Audio and Inter-region IP-IP Direct Audio, as shown below. For Codec Set, enter an available codec set number for integration with Genesis.

```
change ip-network-region 1
                                                                 Page 1 of 20
                               IP NETWORK REGION
Region: 1 NR Group: 1
Location: 1 Authoritative Domain: bvwdev.com
     ame: Loc-1
PARAMETERS
Codec Set: 1
P. Port Min: 2048
   Name: Loc-1
                                Stub Network Region: n
MEDIA PARAMETERS
                                Intra-region IP-IP Direct Audio: yes
                               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/Q PARAMETERS
Call Control 802.1p Priority: 6
       Audio 802.1p Priority: 6
       Video 802.1p Priority: 5 AUDIO RESOURCE RESERVATION PARAMETERS
H.323 IP ENDPOINTS
                                                    RSVP Enabled? n
```

Navigate to **Page 4**, and specify this codec set to be used for calls with the network region used by the Avaya endpoints and with the PSTN. In the compliance testing, network region "1" was used by the Avaya endpoints and trunk to the PSTN.

```
change ip-network-region 1
                                                                       Page 4 of
                                                                                     20
Source Region: 1 Inter Network Region Connection Management I
                                                                                 SΜ
                                                                          G A y t
dst codec direct WAN-BW-limits Video Intervening Dyn A G n c
rgn set WAN Units Total Norm Prio Shr Regions CAC R L c e
                                                                             all
 1
      1
     2 y NoLimit
1 y NoLimit
 2
                                                                               y t
                                                                            n
 3
                                                                            n
                                                                                  уt
 4
 5
      6 y NoLimit
7 y NoLimit
 6
                                                                                   y t
                                                                            n
 7
                                                                            n
                                                                                   y t
 8
```

### 5.7. Administer IP Codec Set

Use the "change ip-codec-set n" command, where "n" is the codec set number from **Section 5.6**. Update the audio codec types in the **Audio Codec** fields as necessary. Note that Genesis supports the G.711 and G.729 codec variants, with G.729 requiring special license on Genesis. The compliance testing only covered the G.711 codec.

```
change ip-codec-set 1

IP MEDIA PARAMETERS

Codec Set: 1

Audio Silence Frames Packet

Codec Suppression Per Pkt Size(ms)

1: G.711MU n 2 20

2: G.729 n 2 20

3: G.722-64K 2 20

4:

5:

6:

7:
```

## 5.8. Administer Route Pattern

Use the "change route-pattern n" command, where "n" is an available route pattern number to be used to reach Genesis, in this case "1". Enter the following values for the specified fields and retain the default values for the remaining fields.

- **Pattern Name:** A descriptive name.
- **Grp No:** The SIP trunk group number from **Section 5.3**.
- **FRL:** A level that allows access to this trunk, with 0 being least restrictive.

```
change route-pattern 1
                                                         Page
                                                                1 of
                                                                      3
                 Pattern Number: 1
                                      Pattern Name: SIP-TLS-To-SM
   SCCAN? n Secure SIP? n Used for SIP stations? n
   Grp FRL NPA Pfx Hop Toll No. Inserted
                                                                DCS/ IXC
   No Mrk Lmt List Del Digits
                                                                QSIG
                        Dgts
                                                                Tntw
1: 1
       0
                                                                 n user
2:
                                                                 n user
3:
                                                                 n user
4:
                                                                 n user
5:
                                                                 n user
6:
                                                                 n user
    BCC VALUE TSC CA-TSC
                          ITC BCIE Service/Feature PARM Sub Numbering LAR
   0 1 2 M 4 W Request
                                                      Dgts Format
1: ууууул п
                          rest
                                                          lev0-pvt next
2: ууууул п
                          rest
                                                                   none
3: ууууул п
                           rest
                                                                   none
```

1 of

2

Page

## 5.9. Administer Private Numbering

Use the "change private-numbering 0" command, to define the calling party number to send to Genesis. Add an entry for the trunk group defined in **Section 5.3**. In the example shown below, all calls originating from a 4-digit extension beginning with 33 and 34 routed to trunk group 1 will result in a 4-digit calling number. The calling party number will be in the SIP "From" header.

char	nge private-numb	pering 0				Page	1 of	2
		N	JMBERING -	PRIVATE	FORMAT			
Ext	Ext	Trk	Private		Total			
Len	Code	Grp(s)	Prefix		Len			
4	33	1			4			
4	34	1			4			

## 5.10. Administer Uniform Dial Plan

This section provides a sample AAR routing used for routing calls with dialed digits 52xx to Genesis. Note that other routing methods may be used. Use the "change uniform-dialplan 0" command and add an entry to specify the use of AAR for routing of digits 52xx, as shown below.

```
change uniform-dialplan 5
                                                                    1 of
                                                                           2
                                                             Page
                     UNIFORM DIAL PLAN TABLE
                                                           Percent Full: 0
 Matching
                           Insert
                                              Node
              Len Del
 Pattern
                          Digits
                                    Net Conv Num
 52
                4 0
                                      aar n
```

## 5.11. Administer AAR Analysis

Use the "change aar analysis 0" command and add an entry to specify how to route calls to 52xx. In the example shown below, calls with digits 51xx will be routed as an AAR call using route pattern "52" from **Section 5.8**.

change aar analysis 5					Page	1 of	2
	AAR D	IGIT ANALY Location:		LE	Percent	Full: 2	
Dialed String <b>52</b>	Total Min Max <b>4 4</b>	Route Pattern <b>1</b>	Call Type <b>aar</b>	Node Num	ANI Reqd <b>n</b>		

## 6. Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Session Manager. The procedures include the following areas:

- Launch System Manager
- Administer locations
- Administer SIP entities
- Administer routing policies
- Administer dial patterns

### 6.1. Launch System Manager

Access the System Manager web interface by using the URL "https://ip-address" in an Internet browser window, where "ip-address" is the IP address of System Manager. Log in using the appropriate credentials.

Recommended access to System Manager is via FQDN.	*	
Go to central login for Single Sign-On		User ID: admin
If IP address access is your only option, then note that authentication will fail in the following cases:		Password: •••••
<ul> <li>First time login with "admin" account</li> <li>Expired/Reset passwords</li> </ul>		Log On Cancel
Use the "Change Password" hyperlink on this page to change the password manually, and then login.		Change Password
Also note that single sign-on between servers in the same security domain is not supported when accessing via IP address.		• Supported Browsers: Internet Explorer 11.x or Firefox 48.0, 49.0 and 50.0.
This system is restricted solely to authorized users for legitimate business purposes only. The actual or attempted unauthorized access, use, or modification of this system is strictly prohibited.		

## 6.2. Administer Locations

In the subsequent screen (not shown), select **Elements**  $\rightarrow$  **Routing** to display the **Introduction** to Network Routing Policy screen below. Select Routing  $\rightarrow$  Locations from the left pane and click New in the subsequent screen (not shown) to add a new location for Genesis.



KP; Reviewed:
SPOC 7/13/2022

Solution & Interoperability Test Lab Application Notes ©2022 Avaya Inc. All Rights Reserved. The Location Details screen is displayed. In the General sub-section, enter a descriptive Name and optional Notes. Retain the default values in the remaining fields.

Aura® Syste	em Manager 8.1	Users 🗸 🎤 Elements 🗸 🏘 Services 🗸	Widgets v Shortcuts v	Search	admin
Home	Session Manager	Routing			
Routing	^	Location Details		Commit	Help ?
Dom	ains	General			
Loca	tions	* Name:	Genesis	]	
Cond	ditions	Notes:	Genesis Location	]	
Adap	otations ~	Dial Plan Transparency in Surviva	able Mode		
SIP E	intities	Enabled:			
Entit	y Links	Listed Directory Number:			
Time	Ranges	Associated CM SIP Entity:			
Rout	ing Policies	Overall Managed Bandwidth			
Dial	Patterns 🗸 _	Managed Bandwidth Units:	Kbit/sec 🗸		
	<	Total Bandwidth:			

Scroll down to the **Location Pattern** sub-section, click **Add** and enter the IP address of the Genesis Telephony Server in **IP Address Pattern**, as shown below. Retain the default values in the remaining fields.

Home	Session Man	ager	Routing			
Routing		Â	Alarm Threshold			
Dom	nains		Overall Alarm Threshold: 80 V	6		
Loca	ations		Multimedia Alarm Threshold: 80 🗸 9	6		
Cond	ditions		* Latency before Overall Alarm5	linutes		
Adap	ptations		* Latency before Multimedia Alarm 5 Trigger: 5	linutes		
SIP E	Entities		Location Pattern			
Entit	ty Links		Add Remove			
Time	e Ranges		1 Item 2 IP Address Pattern	<b>A</b>	Notes	Filter: Enable
Rout	ting Policies		* 10.33.100.50		IP address of Genesis server	
Dial	Patterns ~	-	Select : All, None			
	<					Commit Cancel

#### 6.3. Administer SIP Entities

Add two new SIP entities, one for Genesis and one for the new SIP trunks with Communication Manager.

#### 6.3.1. SIP Entity for Genesis

Select **Routing**  $\rightarrow$  **SIP Entities** from the left pane and click **New** in the subsequent screen (not shown) to add a new SIP entity for Genesis.

The **SIP Entity Details** screen is displayed. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Name: A descriptive name.
- FQDN or IP Address: The IP address of the Genesis Telephony Server.
- Type: "Other"
- Notes: Any desired notes.
- Location: Select the Genesis location name from Section 6.2.
- **Time Zone:** Select the applicable time zone.

Home	Session Manager	Routing	
Routing	^	SIP Entity Details	Help ?
Dom	nains	General	
Loca	ations	* Name:	Genesis
		* FQDN or IP Address:	10.33.100.50
Cond	ditions	Туре:	Other 🗸
Adap	ptations Y	Notes:	Amtelco Genesis
SIP E	Entities	Adaptation:	<b>~</b>
Entit	ty Links	Location:	Genesis 🗸
Time	e Ranges		America/Denver V
Time	e nanges	* SIP Timer B/F (in seconds):	4
Rout	ting Policies	Minimum TLS Version:	Use Global Setting 🗸
Dial	Patterns 🗸	Credential name:	
		Securable:	
Regu	ular Expressions	Call Detail Recording:	none 🗸
Defa	aults	CommProfile Type Preference:	<b>~</b>
		Loop Detection	

Scroll down to the **Entity Links** sub-section and click **Add** to add an entity link. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Name: A descriptive name.
- SIP Entity 1: The Session Manager entity name, in this case "ASM70A".
- **Protocol:** "UDP"
- **Port:** "5060"
- **SIP Entity 2:** The Genesis entity name from this section.

"5060"

- Port:
- Connection Policy: "trusted"

Note that Genesis can support UDP and TCP. For compliance testing, the UDP protocol was used.

Entit	Entity Links Override Port & Transport with DNS SRV:							
Add	Remove							
1 Iter	m   🥹						F	ilter: Enable
	Name 🔺	SIP Entity 1	Protocol	Port	SIP Entity 2		Port	Connection Policy
	* ASM_Genesis	SASM70A	UDP 🗸	* 5060	Genesis		* 5060	trusted 🔹
4								• •
Selec	t : All, None							
SIP	Responses to an OP <sup>.</sup>	TIONS Request						
Add	Remove							
							_	
0 Iter	ms 🖓						-	ilter: Enable
	Response Code & Reason Phrase     Mark       Dup/Down     Notes       Up/Down     Up/Down							
					Commit			

#### 6.3.2. SIP Entity for Communication Manager

Select **Routing**  $\rightarrow$  **SIP Entities** from the left pane and click **New** in the subsequent screen (not shown) to add a new SIP entity for Communication Manager. Note that this SIP entity is used for integration with Genesis.

The **SIP Entity Details** screen is displayed. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Name: A descriptive name.
- FQDN or IP Address: The IP address of an existing CLAN or the processor interface.
- Type:
- Notes: Any desired notes.
- Location: Select the applicable location for Communication Manager.
- **Time Zone:** Select the applicable time zone.

"CM"

Aura® System	m Manager 8.1	sers 🗸 🌶 Elements 🗸 🔅 Servic	es v Widgets v Shortcuts v Search	📕 🐥 🗮 🛛 admin
Home	Session Manager	Routing		
Routing	^	SIP Entity Details	Commi	Help ?
Doma	ains	General		
Locat	tions	* 1	ame: ACM-Trunk1-Private	
Cond	litions		Iress: 10.33.1.6	
			.,,,	
Adap	tations Y	ľ	Iotes: Private SIP trunk	
SIP EI	ntities	Adapt	ation: 🗸	
Entity	/ Links	Loc	ation: InteropCM 🗸	
		Time	Zone: America/Toronto	
Time	Ranges	* SIP Timer B/F (in seco	onds): 4	
Routi	ing Policies	Minimum TLS Ve	rsion: Use Global Setting ✓	
		Credential I	name:	
Dial F	Patterns V	Secu	rable: 🗌	
		Call Detail Reco	rding: both 🗸	•

Scroll down to the **Entity Links** sub-section and click **Add** to add an entity link. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Name: A descriptive name.
- SIP Entity 1: The Session Manager entity name, in this case "ASM70"
- **Protocol:** The signaling group transport method from **Section 5.4**.
- **Port:** The signaling group far-end listen port number from **Section 5.4**.
- **SIP Entity 2:** The Communication Manager entity name from this section.
- **Port:** The signaling group near-end listen port number from **Section 5.4**.
- Connection Policy: "trusted"

Entit	y Links Override Port & Transp	port with DNS SRV:						
Add	Remove							
1 Iter	m   🥲							Filter: Enable
	Name 🔺	SIP Entity 1	Protocol	Port	SIP Entity 2		Port	Connection Policy
	* ASM70_ACM_Trunk1_5	SASM70A	TLS 🗸	* 5061	ACM-Trunk1-Private		* 5061	trusted '
								- F
Selec	t : All, None							
SIP	Responses to an OP	FIONS Request						
Add	Remove							
0 Iter	ms I							Filter: Enable
	Response Code & Reason Pl	ırase				Mark Entity Up/Dowr	Notes	
					Commit			

## 6.4. Administer Routing Policies

Add two new routing policies, one for Genesis and one for the new SIP trunks with Communication Manager.

#### 6.4.1. Routing Policy for Genesis

Select **Routing**  $\rightarrow$  **Routing Policies** from the left pane and click **New** in the subsequent screen (not shown) to add a new routing policy for Genesis.

The **Routing Policy Details** screen is displayed. In the **General** sub-section, enter a descriptive **Name**. Enter optional **Notes** and retain the default values in the remaining fields.

In the **SIP Entity as Destination** sub-section, click **Select** and select the Genesis entity name from **Section 6.3.1**. The screen below shows the result of the selection.

Aura® System	m Manager 8.1	lsers 🗸 🎤 El	lements v	🔅 Serv	ices ~	י	Widget	s∽	Shortc	uts v		Search	] ♣ ≡	admi	in
Home	Session Manager	Routing													
Routing	^	Routing	Policy De	etails	;							Commit	icel	Help ?	*
Dom	ains	General													l
Locat	ions			×	Name	: To-0	Genesis								I
Cond	litions				isabled										I
Adap	tations 🗸 🗸			*	Retries Notes										l
SIP EI	ntities	SIP Entity	as Destinat	ion											
Entity	/ Links	Select													
Time	Ranges	Name Genesis	-	l or IP A	ddress					Type		Notes Amtelco Genesis			
Routi	ng Policies	Time of Da		3.100.50						Other		Anteico Genesis			
Dial F	Patterns ~	Add Remo	ve View Gap	os/Overla	aps										
D		1 Item 🛛 🍣											Filter:	Enable	
Reau	lar Expressions	Ranking		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start Time		Notes		
		0	24/7	1	~	~	<b>~</b>	$\checkmark$	$\checkmark$	$\checkmark$	00:00	23:59	Time Range 24	/7	•

#### 6.4.2. Routing Policy for Communication Manager

Select **Routing**  $\rightarrow$  **Routing Policies** from the left pane and click **New** in the subsequent screen (not shown) to add a new routing policy for Communication Manager.

The **Routing Policy Details** screen is displayed. In the **General** sub-section, enter a descriptive **Name**. Enter optional **Notes** and retain the default values in the remaining fields.

In the **SIP Entity as Destination** sub-section, click **Select** and select the Communication Manager entity name from **Section 6.3.2**. The screen below shows the result of the selection.

Avra® Syster	n Manager 8.1	Users 🗸 🎤 Elements 🗸 🏟 Ser	rvices ∨	Widge	ts ∨	Shortc	uts v		Search	] ♣ ≡	admin
Home	Session Manager	Routing									
Routing		Routing Policy Detail	S						Commit	cel	Help ?
Doma	ains	General									
Locati	ions		* Name:	To-CM-Tru	nk1						
Condi	itions		Disabled:								
Adapt	tations 🗸	k (	* Retries: Notes:	0							
SIP Er	ntities	SIP Entity as Destination									
Entity	Links	Select									
Time	Ranges	Name	FQDN	or IP Addre	55			Туре	Notes		
		ACM-Trunk1-Private	10.33.	1.6				CM	Private SIP	trunk	
Routi	ng Policies	Time of Day									_
Dial P	atterns v	Add Remove View Gaps/Over	rlaps								
		1 Item								Filter: E	nable
Regul	ar Expressions	🗌 Ranking 🔺 Name Mon	Tue W	ed Thu	Fri	Sat	Sun	Start Time	End Time	Notes	
		0 24/7			$\sim$	1	~	00:00	23:59	Time Range 24/	7

## 6.5. Administer Dial Patterns

Add a new dial pattern for Genesis and update existing dial patterns for Communication Manager.

#### 6.5.1. Dial Pattern for Genesis

Select **Routing**  $\rightarrow$  **Dial Patterns** from the left pane and click **New** in the subsequent screen (not shown) to add a new dial pattern to reach Genesis. The **Dial Pattern Details** screen is displayed. In the **General** sub-section, enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Pattern:** A dial pattern to match, in this case "52".
- Min: The minimum number of digits to match.
- Max: The maximum number of digits to match.
- SIP Domain: Select the applicable domain, in this case "bvwdev.com".

In the **Originating Locations and Routing Policies** sub-section, click **Add** and create an entry for reaching Genesis. For compliance testing, the entry allowed for call originations from Communication Manager endpoints in locations "All". The Genesis routing policy from **Section 6.4.1** was selected as shown below.

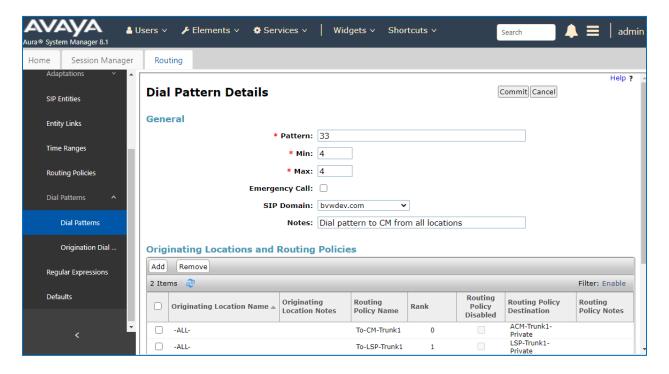
AVA Aura® System		Users 🗸 🌙	🗜 Elements 🗸 🔅 Ser	vices ~	Widge	ets ~ Shor	rtcuts ∨	3	iearch	🕽 🗮   admin
Home	Session Manager	Routing								
Adapt SIP En		Dial Pa	ttern Details					C	ommit Cancel	Help ?
Entity	Links	General								
Time F	Ranges		*	Pattern: 5 * Min: 4						
Routir	g Policies			* Max: 4	ļ					
Dial Pa	atterns ^		_	ncy Call: 🗌 Domain: b		om 🗸	•			
D	ial Patterns			Notes:						
o	rigination Dial	Originat	ing Locations and I	Routing P	olicies	3				
Regula	ar Expressions		move							
		1 Item 🧃								Filter: Enable
Defau	lts	Orig	inating Location Name 🔺	Originating Location No		Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes
	<	-ALI				To-Genesis	0		Genesis	
		Select : Al	, None							

#### 6.5.2. Dial Pattern for Communication Manager

Select **Routing**  $\rightarrow$  **Dial Patterns** from the left pane and click on the first existing dial pattern for Communication Manager in the subsequent screen, in this case dial pattern "33". The **Dial Pattern Details** screen is displayed.

In the **Originating Locations and Routing Policies** sub-section, click **Add** and create a new policy as necessary for calls from Genesis. In the compliance testing, the new policy allowed for call origination from the Genesis location from **Section 6.2**, and the Communication Manager routing policy from **Section 6.4.2** was selected as shown below. Retain the default values in the remaining fields.

Follow the procedures in this section to make similar changes to the applicable Communication Manager dial pattern to reach the PSTN. In the compliance testing, operators on Genesis manually added the prefix "9" for outbound calls to the PSTN, and therefore the existing dial pattern for "9" was also changed (not shown below).



# 7. Configure Amtelco Genesis Intelligent Series

This section provides the procedures for configuring Genesis. The procedures include the following areas:

- Launch web interface
- Obtain application name
- Administer trunks
- Administer routes
- Administer agents
- Administer access control lists
- Launch Intelligent Series Supervisor
- Administer IS system
- Administer IS client
- Administer IS agent
- Restart IS service
- Launch Intelligent Series Soft Agent
- Administer setup

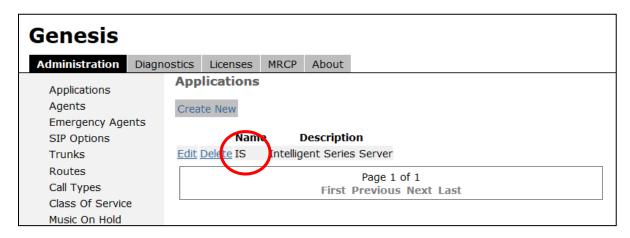
The configuration of Genesis is typically performed by Amtelco technicians. The procedural steps are presented in these Application Notes for informational purposes.

## 7.1. Launch Web Interface

From a PC, launch an Internet browser window and access the Genesis web-based interface by using the URL "http://<ip-address:5080>/Admin/Application/Index", where "ip-address" is the IP address of the Genesis Telephony Server.

## 7.2. Obtain Application Name

The **Applications** screen below is displayed in the right pane. Make a note of the application **Name**, in this case "IS", which is created as part of installation. The name will be used in later sections.



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#### 7.3. Administer Trunks

Select **Trunks** in the left pane, followed by **Create New SIP Trunk** (not shown) in the updated right pane, to display the **Trunk Information** screen below. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Name: A descriptive name.
- Application: Select the application name from Section 7.2.
- Maximum Channels: Enter desired number of trunk members.
- Extension: The routing extension digits from Section 3 for calls from PSTN.
- Host: IP address of the Session Manager signaling interface.
- **Port:** The Genesis SIP entity port number from **Section 6.3.1**.
- UserName: The routing extension digits from Section 3 for calls from PSTN.
- **Destination IP:** IP address of the Session Manager signaling interface.

Genesis		
Administration Diagn	ostics Licenses MRCP About	
Applications Agents	Trunk Information Name Avaya	
Emergency Agents SIP Options Trunks	Application Maximum Inbound Channels	
Routes Call Types	Maximum Outbound Channels	
Class Of Service Music On Hold	SIP Service Provider Settings	
	Extension	10.33.1.12
	Direction	In/Out 🝷
	10.33.1.12 Host	
	Port	5060
	Register	
	UserName	5000
	Secret	
	DtmfMode Nat	
		—
	Qualify CustomSettings	
	deny=0.0.0.0/0.0.0.0 permit=135.10.97.0/24 permit=10.33.1.0/24	
	Transfer	
	Destination IP	10.33.1.12
	Hangup After Blind Transfer	
	Hangup After Blind Transfer Delay (Seconds)	0
		Save Cancel

### 7.4. Administer Routes

Select **Routes** in the left pane, followed by **Create New Route** (not shown) in the updated right pane, to display the **Route Information** screen below. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Number: An available route number.
- Name: A descriptive name.

In the **Route Trunks** sub-section, select the trunk from **Section 7.3** under **Available** and move to **Selected**, as shown below.

Genesis							
Administration Diagn	ostics Lic	enses M	IRCP Ab	out			
Administration Diagn Applications Agents Emergency Agents SIP Options Trunks Routes Call Types Class Of Service Music On Hold	ostics Lic Route In Number Name Hunt Route Tr	oformati 0 Avaya	on	out	7	Selected	* T
		Save	Cancel				

#### 7.5. Administer Agents

Select **Agents** in the left pane, to display the **Agents** screen. One agent is needed for each operator user, and by default the first agent is automatically created, as shown below. To create additional agents, select **Create New**.

Genesis			
Administration	Diagnostics	Licenses	About
Applications	Age	nts	
Agents	Creat	te New Mo	odify Range
Emergency Ager SIP Options	nts	App	lication Age
Trunks	Edit J	Delete IS	1
Routes			
Call Types			
Class Of Service			
Music On Hold			

The **Create a new agent** screen is displayed. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Agent Number: An available agent number.
- **Password:** A desired password.
- **Application:** Select the application name from **Section 7.2**.
- Transport: "udp"

Genesis							
Administration	Diagnostics	Licenses	MRCP Abou	t			
Applications	Crea	te a new a	agent				
Agents		gent Numbe	er 2				
Emergency Age SIP Options	nts	Passwor	d •••				
Trunks		Applicatio	n IS 👻				
Routes Call Types Class Of Service		tom Setting	5				
Music On Hold	3						
		Transpo	rt udp	•			
	Acce	ss Control	Lists				
			Available				Selected
					*	+ +	Primary
					-		
			Save	icel			

## 7.6. Administer Access Control Lists

Select **SIP Options** in the left pane, followed by **Access Control Lists** in the updated right pane, to display the screen below. Make certain **SIP Type** is set to "SIP", as shown below.

Select Access Control Lists.

Genesis				
Administration [	Diagnostics	Licenses	MRCP	About
Applications Agents Emergency Agent SIP Options Trunks Routes Call Types Class Of Service Music On Hold		Settings Seneral Access Cont P Settings Address of F Authentications Stobal Registrations System Transports	s Record Lis ion Record ies	List
	ſ	e SIP Typ SIP SIP VPe Save	Cha	anging type requires a restart cel

The Access Control List Information screen is displayed. Enter a desired Name and create a **permit** entry for each network subnet from Section 3, and create a generic deny entry as shown below.

Genesis					
Administration Dia	gnostics	Licenses	MRCP	About	
Applications Agents Emergency Agents SIP Options Trunks Routes Call Types Class Of Service Music On Hold		ss Contro Nam	Prima JS deny perm	=0.0.0.0, it=135.10 it=10.33	/0.0.0.0 0.97.0/24 .1.0/24 

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## 7.7. Launch Intelligent Series Supervisor

From the supervisor PC, double-click on the Intelligent Series Supervisor shortcut icon shown below, which was created as part of Intelligent Series Supervisor installation.

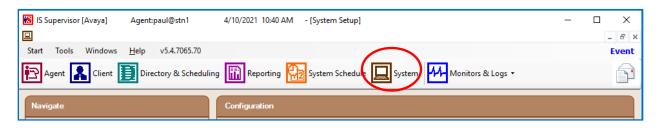


The **Supervisor Login** screen is displayed. Log in using the appropriate credentials.

🔝 Supervisor Login	
Connection Help	
Login Name: Password:	
	Login E <u>x</u> it

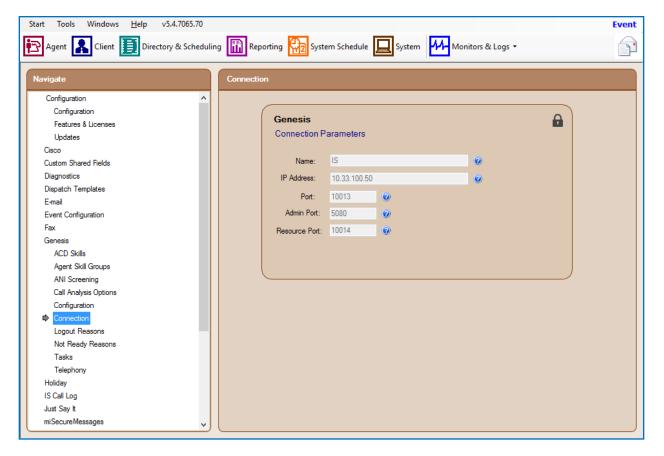
## 7.8. Administer IS System

The IS Supervisor screen is displayed. Select System from the top of the screen.



The screen is updated with **System Setup** displayed in the lower pane. Select **Genesis**  $\rightarrow$  **Connection** from the left pane, to display the **Connection** screen in the right pane. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Name: Enter the application name from Section 7.2.
- **IP Address:** IP address of the Genesis Telephony Server.
- **Port:** "10013"
- Admin Port: "5080"
- Resource Port: "10014"



Select **Genesis**  $\rightarrow$  **Telephony** from the left pane, to display the **Telephony** screen in the right pane. Enter the following values for the specified fields and retain the default values for the remaining fields.

- **Caller ID:** The desired calling party extension to use for outbound calls.
- **Caller Name:** The desired calling party name to use for outbound calls.

Agent  Cient  Directory & Scheduling  Reporting  System Schedule  System Monitors & Logs  Mavigate  Configuration  Configuration  Features & Licenses  Updates  Cisco  Custom Shared Fields  Diagnostics  Dispatch Templates
Configuration Configuration Features & Licenses Updates Cisco Custom Shared Fields Diagnostics Calls for ATTA: 0
Configuration     Features & Licenses       Updates     Telephony Settings       Cisco     Custom Shared Fields       Diagnostics     Calls for ATTA:
Features & Licenses     Genesis       Updates     Telephony Settings       Cisco     Auto Answer Repeat Interval: 0 seconds @       Diagnostics     Calls for ATTA: 0 @
Updates     Telephony Settings       Cisco     Auto Answer Repeat Interval:       Diagnostics     Calls for ATTA:
Cisco Custom Shared Fields Diagnostics Calls for ATTA: 0 Q
Custom Shared Fields     Auto Answer Repeat Interval:     0     seconds @       Diagnostics     Calls for ATTA:     0     @
Diagnostics Calls for ATTA: 0
Calistor ATTA. 0
Dispatch Templates
E-mail Waits List Refresh Rate: 0 seconds (0 -100)
Event Configuration Caller ID: 9999999999 0
Fax
Genesis Caller Name: Amtelco
ACD Skills Patch Time: 99 minutes @
Agent Skill Groups Patch Time: 99 minutes @
ANI Screening Hangup Patch After Patch Time Elapses 🥹
Call Analysis Options Blind Transfer Timeout: 20 seconds 🖗
Configuration
Connection Comma Time: 2 seconds @
Logout Reasons Initial Digit Timeout: 3 seconds
Not Ready Reasons Time Between Digits Timeout: 3 seconds
Tasks
Telephony Telephony Set Invalid Source Client 1000 - Home Account Clear
Holiday Play Busy When No Ops On Duty
IS Call Log Single Call Hold Park @
Just Say It
miSecure Messages

## 7.9. Administer IS Client

Select **Client** from the top of the screen. The screen is updated with **Client Setup** displayed in the lower pane.

Follow reference [3] to create desired client entries to associate with called numbers for the customer network. In the compliance testing, calls from the PSTN will be routed with digits 52000 to Genesis, and calls from internal users on Communication Manager will be routed with digits 52222 to Genesis. Therefore, two clients were created, as shown below.

Start	Tools V	Vindows	<u>H</u> elp v5.4	.7065.70				Ever	nt
<b>i P</b>	ger <b>t</b>	Client	Directory	& Scheduling 🔝 Reportin	•	2 Sy	stem Schedule 🔲 System Monitors & Logs	•	Ì
<b>₽</b> 🛛	X 🗈		Client List	6000 - Amtelco Ope	ato	or			$\sim$
Naviga	ate	١	Select Client						
Ge	eneral Info								
Ag	ent Settings		Search:			unt'e d	aller options and check-in options for the Voice Mail feature.		
Dir	rectory Setting	gs				untst	and options and chock in options for the voice Mainfeature.		
E-n	mail Accounts	s	Client#	Client Name		$\overline{}$			
Ge	enesis		1	TAS Template Client					
	Behaviors		2	Web Messages			seconds (Minimum 15)		
	Call Handlin	g	5			$\sim$			
	Greetings	_	1000						
	- Navigation	Menu	2000	TAS Account		~			
6	Voice Mail		2001	TAS - Clinic TAS - Service					
	lidavs		5050						
	o Pages			International SMS Account					
	o rages elligent Messi			Client 5200		saved			
	-	ages	6000						
	ergeComm		9999	Hospital Emergency Line					
	essage Filters		99999	INVALID ACCOUNT					
	ared Fields		L						
Sp	ecials			Select Cancel					

## 7.10. Administer IS Agent

Select **Agent** from the top of the screen. The screen is updated with **Agent Setup** displayed in the lower pane. Click on the **New Agent** icon in the left pane to create a new agent entry.

The **General Info** tab is displayed. For **Login Name**, **Password**, and **Confirm**, enter desired values. Retain the default values in the remaining fields.

One agent is needed for each operator user, and two agents were created for compliance testing.

Start Tools W	Vindows <u>H</u> elp v5.4.7065.70	Event
Agent 👗	Client 🗾 Directory & Scheduling 🔝 Reporting 🙀 System Schedule 💻 System VM Monitors & Logs 🗸	F
16 Agents	Setting up an Agent consists of assigning a login name and password and choosing various features related to call handling.       Settings         Login Name:       Paul       Enter the name used to login and display on the operator screen.         Initials:       PLH       Enter operator initials used as operator identification on message time stamps, reports, and statistics.         Password       Options         Reset Password       Fassword	
DEV Khanh New Agent Operator Paul Suprsvr SYSTEM TRAINER Wade Web	Record Calls       Indicate if this Agent is allowed to record calls.         Auto Connect       Image: Clear         Default Client       Clear         Default Directory       Select Default Directory         Subject:       Not Assigned         View:       Not Assigned	

### 7.11. Restart IS Service

From the Intelligent Series Server, select Start  $\rightarrow$  Control Panel  $\rightarrow$  Administrative Tools  $\rightarrow$  Services to display the Services screen. Locate and restart the Amtelco Intelligent Series service, as shown below.

File Action View	Help G 😖 📝 📷 🕨 🔳 II 🕪				
🔍 Services (Local)	🔕 Services (Local)				
	Amtelco Intelligent Series	Name 🔺	Description	Status	Startup Type
		Amtelco Intelligent Series	Amtelco In	Started	Automatic
	Stop the service	Application Experience	Processes		Manual
	Restart the service	🤹 Application Host Helper Service	Provides a	Started	Automatic
	1	Application Identity	Determines		Manual
	Description:	Application Information	Facilitates		Manual
	Amtelco Intelligent Series Server	🎑 Application Layer Gateway Serv	Provides s		Manual
	1	Application Management	Processes i	Started	Manual
		ASP.NET State Service	Provides s		Manual

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# 8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Communication Manager, Session Manager, and Amtelco Web Agent.

## 8.1. Verify Avaya Aura® Communication Manager

From the SAT interface, verify the status of the SIP trunk groups by using the "status trunk n" command, where "n" is the trunk group number administered in **Section 5.3**. Verify that all trunks are in the "in-service/idle" state as shown below.

```
status trunk 1
                           TRUNK GROUP STATUS
Member Port Service State
                                 Mtce Connected Ports
                                   Busy
0001/001 T00001 in-service/idle
                                   no
0001/002 T00002 in-service/idle
                                   no
0001/003 T00003 in-service/idle
                                   no
0001/004 T00004 in-service/idle
                                   no
0001/005 T00005 in-service/idle
                                   no
0001/006 T00006 in-service/idle
                                   no
0001/007 T00007 in-service/idle no
0001/008 T00008 in-service/idle no
0001/009 T00009 in-service/idle no
0001/010 T00010 in-service/idle no
0001/011 T00011 in-service/idle no
0001/012 T00012 in-service/idle
                                   no
0001/013 T00013 in-service/idle
0001/014 T00014 in-service/idle
                                   no
                                   no
```

Verify the status of the SIP signaling groups by using the "status signaling-group n" command, where "n" is the signaling group number administered in **Section 5.4**. Verify that the **Group State** is "in-service", as shown below.

```
status signaling-group 1
STATUS SIGNALING GROUP
Group ID: 1
Group Type: sip
Group State: in-service
```

## 8.2. Verify Avaya Aura® Session Manager

From the System Manager home page (not shown), select **Elements**  $\rightarrow$  **Session Manager** to display the **Session Manager Dashboard** screen (not shown).

Select Session Manager  $\rightarrow$  System Status  $\rightarrow$  SIP Entity Monitoring from the left pane to display the SIP Entity Link Monitoring Status Summary screen. Click the Genesis entity name from Section 6.3.1.

The **SIP Entity, Entity Link Connection Status** screen is displayed. Verify that the **Conn Status** and **Link Status** are "UP", as shown below.

Aura® Syste	AVAYA 🛔 Users v 🌶 Elements v 🌣 Services v   Widgets v Shortcuts v Search 🔔 🚍   admin											
Home	Session Manager	Routing										
Sess	ion Manager Ad	This page dis		ty Link Connection nection status for all entity links fror SIP entity.								
Communication Prof								ed Sessio	d Session Manager:			
Netv	vork Configur 🗡		ary View	IP Entity: Genesis								
Devi	ice and Locati \vee	1 Item	5							Filte	r: Enable	
Appl	lication Config Y	Ses Nar	sion Manager 1e	Session Manager IP Address Family	SIP Entity Resolved IP	Port	Proto.	Deny	Conn. Status	Reason Code	Link Status	
Syste	em Status 🔷	O AS	<u>M70A</u>	IPv4	10.33.100.50	5060	UDP	FALSE	UP	200 OK	UP	
	SIP Entity Monit	Select : No	ліе									

## 8.3. Verify Amtelco Web Agent

From the operator PC, launch the web agent page by entering the URL link <u>https://web.amtelco.com/webagent/</u> in the internet browser. Enter the username and password and click on the **Sign In** button.

$\leftarrow$	$\rightarrow$	С	Ô	https://	web.amtelco.com/we	ebagent/	Ŷ	ᄃ		۲œ	ť≡	Ē		
					2									
_						Chang	e Sta	tion						
					agent2									
					Password									
						Sign In								
© 20	)22 - A	mtelco	Web	Agent	(5.5.7605.26)	Au	dio: S	IP Dis	sconr	nected			Logged	out

In the top right portion of the page, click on **Not Ready** and select **Ready**.

<b>d</b> Station 2		¢	🛑 Not Ready 🔻	ag	ent2 🔻
F1	F2	F3	Not Ready Ready	Waits - 0 Ilient State Du	^ ration
5200 - Test Acct 5200 Search	Show Sandbox			Messenger	* *
				Client List	* *
© 2022 - Amtelco Web Agent (5.5	.7605.26)	Audio: SIP Registered		Connect	ed 🔳

Solution & Interoperability Test Lab Application Notes ©2022 Avaya Inc. All Rights Reserved. Make an incoming call from the PSTN to reach the Web Agent. Verify that the call is ringing at the available web agent, and that the web agent screen is updated to reflect a ringing call along with the calling party number and the called client name, as shown below. In this case, the calling party number is **6139675189**, and the called client name is **Test Acct 5200**. Press the **F1** key or click in the applicable call line area highlighted below to answer the call.

Verify that the web agent is connected to the PSTN with two-way talk paths. Also verify that the web agent is updated to reflect the **Talk** state, as shown below.

$\leftarrow$ $ ightarrow$ $ m C$ $ m c$ https://web.amtelco.com/webagent/	0 co	# Ġ ¢ @	
C Station 2		Ready	
Test Acct 5200       Talk       F2       F3         Pham, Khanh       6139675189       00.19       F3         Image: State Stat		O Waits - 0       Client State Duration Client       ✓       ✓       ✓       ✓       ✓       ✓	nt f
Search Show Sandbox		🖀 Client List 🗸 🗸	
		🔺 Dispatch List 🗸 🗸	
© 2022 - Amtelco Web Agent (5.5.7605.26) Audio: 5	SIP Registered	Connected	

# 9. Conclusion

These Application Notes describe the configuration steps required for Amtelco 1Call Web Agent to successfully interoperate with Avaya Aura® Session Manager and Avaya Aura® Communication Manager. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

# 10. Additional References

This section references the product documentation relevant to these Application Notes.

- [1] Administering Avaya Aura® Communication Manager (Release 8.1.3, Issue 5, February 2020)
- [2] Administering Network Connectivity on Avaya Aura® Communication Manager (Release 8.1.3, Issue 4, August 2020), 555-233-504
- [3] Avaya Aura® Communication Manager Feature Description and Implementation (Release 8.1.3, Issue 4, October 2020)
- [4] Administering Avaya Aura® Session Manager (Release 8.1.3, Issue 5, December 2020)
- [5] Soft Agent User Reference Guide, May 2020, available at https://service.amtelco.com/doclib/library.htm.

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