

Avaya Solution & Interoperability Test Lab

Application Notes for configuring Parlance Operator Assistant with Avaya Aura® Session Manager and Avaya Communication Server 1000 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Parlance Operator Assistant to interoperate with Avaya Aura® Session Manager 7.0 and Avaya Communication Server 1000 7.6 using SIP trunks. Parlance Operator Assistant automates call routing by asking callers to speak the name or dial the extension of a destination.

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 Parlance Operator Assistant (hereafter referred to as Operator Assistant) to interoperate with Avaya Aura® Session Manager 7.0 (hereafter referred to as Session Manager) and Avaya Communication Server 1000 7.6 (hereafter referred to as Communication Server 1000) using SIP trunks. Parlance Operator Assistant automates call routing by asking callers to speak the name or dial the extension of a destination.

In the compliance testing, calls from internal and external callers were routed over SIP trunks to Parlance Operator Assistant. Parlance Operator Assistant played different greeting announcements based on ANI and/or DNIS, used speech recognition and/or DTMF digits to determine the route destination, and used SIP REFER to transfer calls to destinations on Avaya Communication Server 1000 or on the PSTN.

2. General Test Approach and Test Results

The feature test cases were performed manually. Calls were placed manually from users on the PSTN and on Communication Server 1000 to Operator Assistant. Speech and DTMF input were used from the callers for requesting transfer to internal user and group destinations on Communication Server 1000, and to external destinations on the PSTN.

The serviceability test cases were performed manually by disconnecting and reconnecting the Ethernet connection to Operator Assistant.

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 interoperability compliance test included feature and serviceability testing.

The feature testing included G.711MU, session refresh, ANI, DNIS, speech recognition, DTMF, speaking ahead (barge-in), dialing ahead, call forwarding, invalid number, blind transfer, supervised transfer and incoming simultaneous calls.

The serviceability testing focused on verifying the ability of Operator Assistant to recover from adverse conditions, such as disconnecting/reconnecting the Ethernet connection to Operator Assistant.

2.2. Test Results

All test cases were executed, and the following were observations on Operator Assistant:

- The application only supports the G.711MU codec.
- For Supervised transfer, changes needs to be done in the **PhoneConfig_Overrides.ini** file in the Operator Assistant as shown below, where **10.10.97.228** is the IP address of the Session Manager.

```
[Generic]
;managed_transfer_template = None
basic_transfer_template = sip:%s@10.10.97.228
;sip_2_sip_transfertype = conditional
```

2.3. Support

Technical support on Operator Assistant can be obtained through the following:

- **Phone:** (888) 700-6263
- Email: <u>customerservice@parlancecorp.com</u>
- Web: www.parlancecorp.com

3. Reference Configuration

As shown in Figure 1, SIP trunks were used between Session Manager and Operator Assistant.

A five digit Uniform Dial Plan (UDP) was used to facilitate routing with Operator Assistant. Unique extension ranges were assigned to users on Communication Server 1000 (54xxx), and to Operator Assistant (30xxx).

The configuration of Session Manager is performed via the web interface of System Manager. The detailed administration of basic connectivity between Communication Server 1000, System Manager and Session Manager is 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 Communication Server 1000	7.65.16 SP7	
Avaya Aura® Session Manager in Virtual Environment	7.0.0.2.700201	
Avaya Aura® System Manager in Virtual Environment	7.0.0.2	
Avaya IP Deskphones:		
• 1120 (UNIStim)	C8Q	
• 1140 (SIP)	4.03.09	
Avaya Digital Deskphone	N/A	
Avaya Analog Deskphone	N/A	
Parlance Operator Assistant running on Microsoft Windows Server 2012 R2	N/A	

5. Configure Avaya Communication Server 1000

This section describes the Communication Server 1000 configuration necessary to interoperate with Session Manager and Responder. It provides the procedures for configuring Avaya Communication Server 1000 system. The procedures include the following areas:

- Logging into the Element Manager via Unified Communication Manager
- Configuring the SIP Signaling Gateway.
- Configuring a D-Channel.
- Configuring Route and Trunks.
- Configuring Digit Manipulation Block.
- Configuring Route List Block.
- Configuring Distant Steering Code.

For detail configuration details of the Communication Server 1000 refer to Section 10.

5.1. Logging into Element Manager via Avaya Aura® System Manager

User can login to the Element Manager via System Manager or Unified Communication Manager. During this compliance testing System Manager was used to login to the Element 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.

4	VAVA		
Au	ra ^w System Manager 7.0		
	Recommended access to System Manager is via FQDN.		
	Go to central login for Single Sign-On	User ID:	
	If IP address access is your only option, then note that authentication will fail in the following cases:	Password:]
	 First time login with "admin" account Expired/Reset passwords 	Log On Cancel	
	Use the "Change Password" hyperlink on this page to change the password manually, and then login.		<u>Change Password</u>

From the main dashboard, select **Communication Server 1000** that is seen under the **Elements** column as shown below.

System Manager 7.0 CSNMPv3 Uver		Gdue.
🍇 Users	Elements	O ₆ Services
Administrators Directory Synchronization Groups & Roles User Management User Provisioning Rule	Communication Manager Communication Server 1000 Conferencing Engagement Development Plotform IP Office Media Server Meeting Exchange Messaging Presence Routing Session Manager Work Assignment	Backup and Restore Bulk Import and Export Configurations Events Geographic Redundancy Inventory Licenses Replication Reports Scheduler Security Shutdown Solution Deployment Manager Templates

From the **Elements** page of System Manager as shown in screen below, click on the Element **EM on cppm3**. This is the element which is configured to access the Element Manager (EM) for the Communication Server 1000 Call Server.

me Communication Serve	- 1000 ×		0		
Home / Elements / Communi-	cation Server 1000				
— Network	Host Name: dewmsmgr.bvwdev.cr	m User Name: adm	in		He
CS 1000 Services Corporate Directory IPSec Numbering Groups Patches SNMP Profiles	Elements New elements are registered into management service. You can opti I	he security framework, onally filter the list by er Search Rese	or may be added as s dering a search term. t	imple hyperlinks. Click an elem	ent name to launch its
	Add Ette Deneta	5			1 H A
Software Deployment	Tines at Lines	Element Tune a	Delegen	Eddapter	Decision a
Sector PTP Toten Software Deployment User Services Administrative Users Edemoi & theefaction	Element Name	Element Type • Base OS	Release 7.6	Address	Description - Base OS element.
Software Deployment User Services Administrative Users Eldemal Authentication SAML Configuration	Element Name Generation Number Com Contrary EM on copm3	Element Type • Base OS CS1000	Release 7.6 7.6	Address 10.10.97.78	Description * Base OS element, New element,
Software Deployment User Services Administrative Users Eldemai Authentication SAML Configuration Password Security	Element Name dewinsmit bwdexcom domari EM on copm3 EM on copm3 Copm3.twwdexcom (member)	Element Type + Base OS CS1000 Linux Base	Release 7.6 7.6 7.6	Address 10.10.97.70	Description - Base OS element. New element. Base OS element.

5.2. Configuring the SIP Signaling Gateway

This section describes the configuration required on the SIP Signaling Gateway so that the Communication Server 1000 can communicate with the Session Manager via SIP Trunks.

To add a Node, from the EM left navigator screen, navigate to System \rightarrow IP Network \rightarrow Nodes: Servers, Media Cards as shown below.



Assumption is made here that the IP Telephony node is already added.

During compliance testing Node **510** was added. Click on this Node as shown in screen below to view the configured values.

CS1000 Element Manager					Help Logor		
UCM Network Services	Menaging: System	Username: a P Network > IP Tel	edmin ephony Nodes				
Links - Virtual Terminats - System + Alarms - Maintenance - Cors Environment	IP Telephony Click the Node ID Add	Nodes to view or edit its ;	Delete				Print i Refresh
- Peripheral Equipment	Node ID +	Components	Ensbled Applications	ELAN IP	Node/TLAN IPv4	Node/TLAN IPV6	Status
 IP Network Nodes Servers Media Cardi 	<u>510</u>	1	SIP Line, LTPS, PD, Gateway (SIPGw)	÷			Synchronized
Maintenance and Reports Media Galeways Zones	Show. V Nodes	Compone	int servers and cards 👘 🖓	IPv6 address			

Open the SIP Signaling Gateway configuration by clicking on **Gateway** (SIPGw) as shown below from the Node Details page.



The following values were configured during compliance testing as shown in the screen below.

- Vtrk gateway application: Check the *Enable gateway service on this node* box.
- Vtrk gateway application: Select *SIP Gateway (SIPGw)* from the drop down menu.
- **SIP domain name**: *bvwdev.com*. This will be the same domain name that will be configured on the Session Manager.
- Local SIP port: 5060.
- Gateway endpoint name: cppm3.
- Application node ID: 510.

Retain default values for other fields.

AVAYA	CS1000 Element	t Manager		
- UCM Network Services - Home - Links - Virtual Terminals	Managing: Username: System » IP Network » IP Node ID: 510 - Virtual Tru	edmin Teleshom Nodes » Node Detaits » unk Gateway Configurat	Virtual Trunk Gateway Configuration	
- System	General SIP Gateway Settings	SIP Gateway Services		
- Maintenance + Core Equipment	VI	rk gateway application: 🛒 Enable	e gateway service on this node	~
Peripheral Equipment IP Network -Nodes: Servers, Media Carc	General		Virtual Trunk Network Health Monitor	
Maintenance and Reports Media Gateways Zones Host and Route Tables Network Address Translatio QoS Thresholds Personal Directories Unicode Name Directory Interfaces Engineered Values Emergency Services Geographic Redundancy Software Cuscomers	Vtrk gateway application: SIP domain name Local SIP port Gateway endpoint name Gateway password Application node ID:	SIP Gateway (SIPGw) brwdev.com * 5060 * (1 - 65535) cppm3 * 510 * (0-899)	Monitor IP addresses (listed bek Information will be captured for t below. Monitor IP: Monitor addresses.	ow) the IP addresses listed Auto
Routes and Trunks Routes and Trunks Dichannels Digital Trunk Interface Dialing and Numbering Plans Electronic Switched Network Flexible Code Restriction Incoming Digit Translation	Enable failsafe NRS Note FailSale NRS will b the node where NRS app OID AMAY * Required Value.	e enabled only on those servers in fication is not deployed 10-1 Note: Changes made transmitted unli th	on this page will NOT be e Node is also saved.	Save Cancel

Scroll down to the **Proxy or Redirect Server** section. The following values were configured during compliance testing.

- **Primary TLAN IP address**: *10.10.97.228*. This is the IP address of the Session Manager.
- **Port**: 5060
- **Transport protocol**: Select *UDP* from the drop down menu.

Retain default values for other fields.

AVAYA	CS1000 Element Manager	
- UCM Network Services - Home - Links - Virtual Terminals - System	Managing: Username: admin System s IP Network s I <u>P Telephony Nodes > Node Details</u> > Virtual Trunk Gateway Configuration Node ID: 510 - Virtual Trunk Gateway Configuration Details	
Alarms Alarms Maintenance Core Equipment Peripheral Equipment IP Network	General SIP Gateway Settings SIP Gateway Services anareu Dartumun Management Proxy Or Redirect Server: Proxy Server Route 1:	^
- Notes: Servers, Aroba Lan - Maintenance and Reports - Media Gateways - Zones - Host and Route Tables - Network Address Translatio - QoS Thresholds - Personal Directories - Unicode Name Directory Interfaces - Engineered Values - Emgineered Values - Emgineered Values	Primary TLAN IP address: 10, 10, 97, 228 The IP address can have either IPv4 or IPv5 format based on the value of "TLAN address type" Port: 5060 (1 - 66535) Transport protocol: UDP V Options: Support registration Primary CDS proxy	
Bolynamic Necuritaricy Software Customers Routes and Trunks Routes and Trunks Dichannels Digital Trunk Interface Digital Trunk Interface Digital Trunk Interface Dialing and Numbering Plans Electronic Switched Network	Secondary TLAN IP address: 0.0.0.0 The IP address can have either IPv4 or IPv6 format based on the value of "TLAN address type" Port: 5060 (1 - 65335) Transport protocol: UDP V	*
- Flexible Code Restriction - Incoming Digit Translation	* Required Value Note Changes made on this page will NOT be transmitted until the Node is also saved.	Cancel

Save and transmit (not shown) these Node properties to complete the SIPGw configuration.

5.3. Configuring D-Channel

This section explains the configuration of a D-Channel for a SIP Trunk. From the EM navigation screen, navigate to **Routes and Trunks** \rightarrow **D-Channels** as shown below.



Choose an available D-Channel number to add as shown in the screen below. During compliance testing D-Channel number **5** was configured. Click on **Edit** to view its configuration.

AVAYA	CS1000 Element Manag	ler			Help Logout
- UCM Network Services - Home - Links - Virtual Terminals - System - Alarms - Maintenance - Core Equipment - Peripheral Equipment - IP Network - Interfaces - Engineered Values - Engineered - Enginee	Managing Username: a Routes and Trunks + D-Chan D-Channels Maintenance D-Channel Diagnostics Network and Peripheral MSDL Diagnostics (LD 9 D-Channel Expansion D D-Channel Expansion D Configuration	Inn rels. <u>Equipment</u> (LD 32, Virt 36) <u>Equipment</u> (LD 32, Virt 6) <u>iagnostics</u> (LD 48) <u>0 v</u> and type: DC	ual D-Channels) CH V 10 Add		
- Electronic Switched Network	- Channel: 2	Type: DCH	Card Type: TMDI	Description: ToCM	Edit
- Incoming Digit Translation - Phones	- Channel: 5	Type: DCH	Card Type: DCIP	Description Vtrk_SIP_SIPL	Edit

The following values were configured in **Basic Configuration** for the D-Channel as shown below.

- Action Device And Number (ADAN): DCH.
- D channel Card Type: DCIP.
- **Designator**: A descriptive name.
- **Inerface type for D-channel**: Select *Meridian Meridian1 (SL1)* from the drop down menu.
- Meridian 1 node type: Select *Salve to the controller (USR)* from the drop down menu.
- Release ID of the switch at the far end: Select 7 from the drop down menu.

Retain default values for all other fields.

Αναγα	CS1000 Element Manager	Help Logout
 UCM Network Services Home Links 	Managing:Username: admin Routes and Trunks » <u>D-Channels</u> » D-Channels 5 Property Configura	ation
- Virtual Terminals - System + Alarms	D-Channels 5 Property Configuration	
 Maintenance Core Equipment 	Pasic Configuration	
- Peripheral Equipment		Innut Valuo
- IP Network	Action Device And Number (ADAN):	
 Modes: Servers, Media Cards Maintenance and Reports 	D channel Card Type :	DCIR
 Media Gateways Zones 	Designator	
- Host and Route Tables	Deserve to Britana	
 Network Address Translation 	Recovery to Primary.	
- Qos Inresnoids - Personal Directories	PRI loop number for Backup D-channel:	
- Unicode Name Directory	User:	Integrated Services Signaling Link Dedicated (ISLD) 🖃 *
+ Interfaces	Interface type for D-channel:	Meridian Meridian1 (SL1) 👻
 Engineered values Emergency Services 	Country:	ETS 300 =102 basic protocol (ETSI)
+ Geographic Redundancy	D-Channel PRI loop number:	. , , ,
+ Software	Briman Bata Interface:	
- Customers Boutos and Trunks	Primary Rate Interface.	more PRI
- Routes and Trunks	Secondary PRI2 loops:	
- D-Channels	Meridian 1 node type:	Slave to the controller (USR)
 Digital Trunk Interface 	Release ID of the switch at the far and:	7
- Dialing and Numbering Plans	Release ID of the switch at the failend.	
 Electronic Switched NetWork Elexible Code Restriction 	Central Office switch type:	100% compatible with Bellcore standard (STD) 🔻

Scroll down to edit the **Remote Capabilities** of the D-Channel that is seen under the **Basic options (BSCOPT)** section. Click on **Edit** button as shown in the screen below.

- Basic options (BSCOPT)	
Primary D-channel for a backup DCH:	Range: 0 - 254
- PINX customer number:	▼
- Progress signal:	▼
- Calling Line Identification :	
- Output request Buffers:	32 💌
- D-channel transmission Rate:	56 kb/s when LCMT is AMI (56K)
- Channel Negotiation option:	No alternative acceptable, exclusive. (1) 🔹
- Remote Capabilities:	Edit

Enable the **Network name display method 2 (ND2)** option. Now click on **Return - Remote Capabilities** button (not shown) to return back to the main screen.

- Remote Capabilities Configuration	
Input Description	Input Value
	Basic rate interface (BRI)
Call comple	etion on busy using integer value (CCBI) 🗌
Call completion	n on busy using object identifier (CCBO) 🗌
Call completion on t	ousy for QSIG and EuroISDN BRI (CCBS)
Call completion on	no response using integer value (CCNI)
Call completion on no	response using object identifier (CCNO)
Call completion to no r	eply for QSIG and EuroISDN BRI (CCNR)
	Network call park (CPK)
Connecte	d line identification presentation (COLP)
	Call transfer integer (CTI)
	Call transfer object (CTO)
Diversio	n info. is sent using integer value (DV1I) 🗌
Diversion in	fo. is sent using object identifier (DV10)
Rerouting reque	sts processed using integer value (DV2I)
Rerouting requests	processed using object identifier (DV2O)
Diversion info. se	ent. rerouting requests processed (DV3I)
EurolSDN - div. int	fo sent. rerouting req. processed (DV3O)
Call transfer notifica	tion and invocation to EuroISDN (ECTO)
	Malicious call identification (MCID)
	MCDN QSIG conversion (MQC)
Ren	note D-channel is on a MSDL card (MSL)
Message v	vaiting interworking with DMS-100 (MWI)
	Network access data (NAC)
	Network call trace supported (NCT)
	Network name display method 1 (ND1)
	Network name display method 2 (ND2)

Now click on the **Submit** button (not shown) to complete the D-channel configuration.

5.4. Configuring Route and Trunks

This section explains the configuration of the SIP route and trunks which will be used by Communication Server 1000 to communicate with the Session Manager. To add a new route, navigate to **Routes and Trunks** \rightarrow **Routes and Trunks** from the EM left hand navigator window as shown in screen below.



Now from the **Routes and Trunks** screen as shown below click on **Add route** button to start configuring a new route.

Αναγα	CS1000 Element N	Aanager			Help Logout
- UCM Network Services - Home - Links	Managing States and Trunks » R	ame: admin outes and Trunks			
- Virtual Terminals - System * Alarms Maintenance	Routes and Trunks				
Virtual Terminals System Alarms Alarms Maintenance Core Equipment Peripheral Equipment IP Network Nodes: Servers, Media Card Maintenance and Reports Media Gateways Zones Host and Route Tables Network Address Translator GoS Thresholds Personal Directories Unicode Name Directory Interfaces Engineered Values Emergency Services Geographic Redundancy Software Customers Routes and Trunks Routes and Trunks	+ Customer: 0	Total routes 10	Total trunks: 158	Add. route	

During compliance testing route 6 was added. The next three screens below shows the configuration for route 1 used during compliance testing.

- Route data block (RDB) (TYPE): RDB
- Customer number (CUST): 00
- Route number (ROUT): 6
- **Designator field for trunk (DES)**: A descriptive name.
- **Trunk type (TKTP)**: *TIE*
- **Incoming and outgoing trunk (ICOG)**: Select *Incoming and Outgoing (IAO)* from the drop down menu.
- Access code for the trunk route (ACOD): An available Directory number from the system.
- The route is for a virtual trunk route (VTRK): Enable the box.
- Zone for codec selection and bandwidth management (ZONE): A number configured in the system.
- Node ID of signaling server of this route (NODE): *510*; this is the same node added in Section 5.2.
- **Protocol ID for the route (PCID)**: Select *SIP (SIP)* from the drop down menu.
- Integrated services digital network option (ISDN): Enable the box.
- **D** channel number (DCH): 5; this is the same D channel added in Section 5.3.
- Interface type for route (IFC): Select *Meridian M1 (SL1)* from the drop down menu.
- **Private network identifier (PNI)**: A value configured in the system.
- Call type for outgoing direct dialed TIE route (CTYP): Select *Unknown Call Type* (*UKWN*) from the drop down menu.
- Calling number dialing plan (CNDP): Select *Unknown (UKWN)* from the drop down menu.
- Signaling arrangement (SIGO): Select *Standard (STD)* from the drop down menu.
- Route class (RCLS): Select *Route Class marked as external (EXT)* from the drop down menu.

Retain default values for other fields.

Now click on the **Submit** button (not shown) to complete the configuration.

aging: Username: admin Routes and Trunks » <u>Routes and Trunks</u> » Customer 0, Route 6 Property Co	nfiguration	
stomer 0, Route 6 Property Configuration		
- Basic Configuration		
Route data block (RDB) (TYPE) :	RDB]
Customer number (CUST) :	00]
Route number (ROUT) :	6]
Designator field for trunk (DES) :	SIP_N510]
Trunk type (TKTP) :	TIE	
Incoming and outgoing trunk (ICOG) :	Incoming and Outgo	ing (IAO) 🔻
Access code for the trunk route (ACOD) :	8006	×
Trunk type M911P (M911P) :		
The route is for a virtual trunk route (VTRK) :	\checkmark	
- Zone for codec selection and bandwidth management (ZONE) :	00002	(0 - 8000)
- Node ID of signaling server of this route (NODE) :	510	(0 - 9999)
- Protocol ID for the route (PCID) :	SIP (SIP) 👻	
- Print correlation ID in CDR for the route (CRID) :		
- Enable Shared Bandwidth Management for the route (SBWM) :		
Integrated services digital network option (ISDN) :	\checkmark	
- Mode of operation (MODE) :	Route uses ISDN Si	gnaling Link (ISLD) 🛛 👻
- D channel number (DCH) :	5	(0 - 254)
- Interface type for route (IFC) :	Meridian M1 (SL1)	
- Private network identifier (PNI) :	00001	(0 - 32700)
- Call type for outgoing direct dialed TIE route (CTYP) -	Unknown Call type (UKWN) 🔻
- Insert ESN access code (INAC) :	V	
- Integrated service access route (ISAR) :		
- Display of access prefix on CLID (DAPC) :		
- Mobile extension route (MBXR) :		
- Mobile extension outgoing type (MBXOT) :	National number (N	PA) 🔻
- Mobile extension timer (MBXT) :	0	(0 - 8000 milliseconds)
Calling number dialing plan (CNDP) :	Unknown (UKWN)	▼
- Network Options		
Electronic switched network pad control (ESN) : 📃		
Signaling arrangement (SIGO) : Standard (STD)		-
Route class (RCLS) : Route Class marke	ed as external (EXT)	•

After the route has been configured, trunks can be added that belongs to this route. The two screens below shows the configuration of the trunks that was used during compliance testing.

- Auto increment member number: Enable this box.
- Trunk data block: *IPTI*
- Terminal number: An available terminal number from the system.
- **Designator field for trunk**: A descriptive name.
- Extended trunk: VTRK
- **Member number**: *1*; this is the starting member number of the trunk.
- Start arrangement Incoming: Select *Immediate (IMM)* from the drop down menu.
- Start arrangement Outgoing: Select *Immediate (IMM)* from the drop down menu.
- **Class of Service**: Click on the **Edit** button.
- **Restriction level**: Select *Unrestricted* (*UNR*) from the drop down menu.

Retain default values for other fields.

Now click on **Return Class of Service** button (not shown) to return to the main page of trunks configuration. Click on **Save** button (not shown) to complete the trunks configuration.

Customer 0, Route 6, Trunk 1 Property Config	uration
- Basic Configuration	
Auto increment member number:	
Trunk data block:	IPTI
Terminal number:	100 0 03 00
Designator field for trunk:	SIP_N510
Extended trunk:	VTRK
Member number:	1 *
Level 3 Signaling:	▼
Card density:	8D
Start arrangement Incoming :	Immediate (IMM)
Start arrangement Outgoing:	Immediate (IMM)
Trunk group access restriction:	1
Channel ID for this trunk:	65
Class of Service:	Edit
- Class of Service	
Input Description	Input Value
- Priority: Low Prio	rity (LPR) 🔻
- Restriction level: Unrestric	ted (UNR) -

5.5. Configuring Digit Manipulation Block

This section explains the digit manipulation block that is to be configured in the Communication Server 1000 dialing plan for its users to communicate with the Responder via the Session Manager. From the EM navigator pane, navigate to **Dialing and Numbering Plans** \rightarrow **Electronic Switched Network** as shown below.



Click on **Digit Manipulation Block** (**DGT**) option as shown below.

Electronic Switched Network (ESN)
- Customer 00
- Network Control & Services
 Network Control Parameters (NCTL)
 ESN Access Codes and Parameters (ESN)
 Digit Manipulation Block (DGT)
- Home Area Code (HNPA)
 Flexible CLID Manipulation Block (CMDB)
 Free Calling Area Screening (FCAS)
 Free Special Number Screening (FSNS)
 Route List Block (RLB)
 Incoming Trunk Group Exclusion (ITGE)
 Network Attendant Services (NAS)

Screen below shows the **Digit Manipulation Block List** page where users can add a digit manipulation block index by selecting an available one from the drop down menu. During compliance testing **Digit Manipulation Block Index -- 1** was used.

AVAYA	CS1000 Element Manager
- UCM Network Services - Home	Managing Usermame: admin Dialing and Numbering Plans » Electronic Switched Network (ESN) » Customer 00 » Network Control & Services » Digit Manipulation Block List
- Virtual Terminals - Virtual Terminals - System - Alarms - Maintenance - Core Equipment - Peripheral Equipment	Please choose the vite Add

Screen below show the values configured for the digit manipulation block 1 added during compliance testing.

- Number of leading digits to be deleted: Enter 0.
- **Insert**: Keep this value blank.

Retain default values for other fields.

Click on **Submit** to complete the configuration.

Digit Manipulation Block		
Digit Manipulation Index numbers: Number of leading digits to be deleted:	1 (0 - 19)	
Insert:		
IP Special Number :		
Call Type to be used by the manipulated digits :	Call type will not be changed (NCHG)	•
	Submit	esh Delete Cancel

5.6. Configuring Route List Block

This section explains the route list block that is to be configured in the Communication Server 1000 dialing plan for its users to communicate with the Responder via Session Manager. From the EM navigator pane, navigate to **Dialing and Numbering Plans** \rightarrow **Electronic Switched Network** as shown in **Section 5.5**. Click on **Route List Block (RLB)** option as shown below.

To add a route list index, enter a valid number in the **Please enter a route list index** box and click on **to Add** button as shown in the screen below. During compliance testing a route list block index of **6** was added.

AVAYA	CS1000 Element Manager Help] Lo	gout
Core Equipment Peripheral Equipment Peripheral Equipment Pretwork Interfaces Engineered Values Emergency Services Geographic Redundancy Software Customers Routes and Trunks Pochatinels Digital Trunk (interface Dialing and Numbering Plans Electronic Switched Network Flexible Code Restriction Incoming Digit Translation Phones Templates Reports Views Lists Properties Micration	Managing Usemanne admin Dialing and Numbering Plans > Electronic Switched Network (ESN) > Customer 00 > Network Control & Services > Route List Blocks Route List Blocks Please enter a route list index (0 - 1999) 10 Add - Route List Block Index - 1 Edit - Route List Block Index - 2 Edit - Route List Block Index - 3 Edit - Route List Block Index - 5 Edit - Route List Block Index - 5 Edit - Route List Block Index - 5 Edit - Route List Block Index - 6 Edit - Route List Block Index - 7 Edit	-

Screen below show the values configured for the route list index block 6 added during compliance testing.

- **Digit Manipulation Index**: Select *1* from the drop down menu. This was configured in **Section 5.5**.
- Route Number: Select 6 from the drop down menu. This was configured in Section 5.4.

Retain default values for other fields.

Click on **Submit** to complete the configuration.

Data Entry of a Route List Block	
Route List Block Index: 6	
General Properties Entry Number for the Route List:	0
Indexes Time of Day Schedule: Facility Restriction Level: Digit Manipulation Index: ISL D-Channel Down Digit Manipulation Index: Free Calling Area Screening Index: Free Special Number Screening Index: Business Network Extension Route: Incoming CLID Table:	0 • 0 (0-7) 1 • 0 (0-1999) 0 • 0 • 0 • 0 • 0 • 0 •
Options Local Termination entry: Route Number:	6 -

5.7. Configuring Distant Steering Code

This section explains the distant steering code that is to be configured in the Communication Server 1000 dialing plan for its users to communicate with the Responder via Session Manager. From the EM navigator pane, navigate to **Dialing and Numbering Plans** \rightarrow **Electronic Switched Network** as shown in **Section 5.5**. Click on **Distant Steering Code (DSC)** option as shown below.



To add a distant steering code, select **Add** from the drop down menu and enter an available distant steering code in the **Please enter a distant steering code** box and click on **to Add** button to finish adding one as shown in the screen below. During compliance testing a code of **30** was added since the number assigned to reach Operator Assistant was 30xxx.

AVAYA	CS1000 Element Manager
- UCM Network Services - Home - Links - Virtual Terminals - System - Alarms - Maintenance - Core Equipment - Perpheral Equipment - IP Network - Nodes: Servers, Media Cant - Maintenance and Reports - Media Oateways	Menoping: <u>Edited and Numbering Plans s Electronic Switched Network (ESN)</u> + Customer 00 + Coordinated Dailing Plan (CDP) + Distant Steering Code List Distant Steering Code List Add V Please enter a distant steering code 30 to Add

Screen below show the values configured for the distant steering code of 30 added during compliance testing.

Enter the values as shown in screen below.

- Flexible Length number of digits: 5; since 30xxx the number to dial Operator Assistant is a 5 digit number.
- **Route List to be accessed for trunk steering code**: Select *6* from the drop down menu. This was configured in **Section 5.6**.

Retain default values for other fields.

Click on **Submit** to complete the configuration.

Distant Steering Code	
Distant Steering Code: Flexible Length number of digits:	30 5 (0 - 10)
Display:	Local Steering Code (LSC) 🗸
Remote Radio Paging Access:	
Route List to be accessed for trunk steering code:	6 🔻
Collect Call Blocking:	
Maximum 7 digit NPA code allowed:	
Maximum 7 digit NXX code allowed:	
	Submit Refresh Delete Cancel

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 domains
- Administer locations
- Administer adaptations
- 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.

Aura [®] System Manager 7.0	
Recommended access to System Manager is via FQDN.	
Go to central login for Single Sign-On	User ID:
If IP address access is your only option, then note that authentication will fail in the following cases:	Password:
 First time login with "admin" account Expired/Reset passwords 	Log On Cancel
Use the "Change Password" hyperlink on this page to change the password manually, and then login.	Change Password

6.2. Adminsiter Domains

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

The **Domain Management** screen is displayed. In the **Name** field enter the domain name, select *sip* from the **Type** drop down menu and provide any optional **Notes**.

Home Routing *				
* Routing	+ Home / Elements / Routing / Domains			
Domains	100 2000 BC	protocol and a second		
Locations Domain Management		Commit Cancel	Commt Cancel	
Adaptations				
S1P Entities	the second se			
Entity Links	1 Rem 🥃			
Time Ranges	Rame	Туре	Notes	
Routing Policies	* bywdev.com	sip (iii	Primary Domai	
Dial Patterns				
Regular Expression	3			
Defaults		Course Course		

6.3. 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 Operator Assistant.



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.

AvrayA Aura [®] System Manager 7.0			Last Logged on at Ma	rds 11, 2016 11:51 AM
Home Routing *			1.000	
* Routing	Home / Elements / Routing / Locations			0
Domains	M-2			Help Y
Locations	Location Details		Commit Cancel	
Adaptations	General			
SIP Entities	* Name:	Belleville		
Entity Links	Name.	Belle die Bereitense kale		
Time Ranges	Notes:	Believite DevConnect Lab		
Routing Policies	Di 100 - Terrera in Considerati			
Dial Patterns	Dial Plan Transparency in Survivable	Mode		
Regular Expressions	Enabled:	13		
Defaults	Listed Directory Number:			
	Associated CM SIP Entity:	[

Scroll down to the **Location Pattern** sub-section, click **Add** and enter the IP address of all devices involved in the compliance testing in **IP Address Pattern**, as shown below. Retain the default values in the remaining fields.

Overall Alarm Threshold:	80 . %		
Multimedia Alarm Threshold:	80 🔳 %		
* Latency before Overall Alarm Trigger:	5 Minutes	A.	
* Latency before Multimedia Alarm	5 Minutes	ð:	
Location Pattern			
Add Remove			Filter: Enoble
Add Remove 3 Items 2 IP Address Fattern		Notes	Filter; Enable
Add Remove 3 Items 2 It P Address Pattern 10.10.96.0		Notes	Filter: Enable
Add Remove 3 Items 2 IF Address Pattern 10.10.98.0 10.10.97.0		Notes	Filter: Enable

6.4. Administer Adaptations

Select **Routing** \rightarrow **Adaptations** from the left pane, and click **New** in the subsequent screen (not shown) to add a new Adaptation module

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

- Adaptation Name: A descriptive name.
- Module Name: Seelct "CS1000Adapter" from the drop down menu.
- **Module Parameter Type:** Select "Name-Value Parameter" from the drop down menu and then a rule, "fromto=true".
- Notes: Any desired notes.

AVAVA Aura [®] System Manager 7.0						
Home Routing *						
* Rosting	Home / Elements / Houting / Adaptation	5.				
Domains Locations	Adaptation Details			Commit Cance	đ	
SIP Entities	General	* Adaptation Name:	C5100	00Adapter-		
Time Ranges		* Module Name: Module Parameter Type:	CS10	00Adapter		
Dial Patterns			Add	Remove		
Bofaults				Name		Value
				fronto		true
			Select	t : All, None		
		Egress URI Parameters: Notes:	CS10	00 adapter for Phone Co	ntevi	
		Heres.	2.3100	to adapter for Prione Co	ITCEN.	

6.5. Administer SIP Entities

Add two new SIP entities, one for Operator Assistant and one for the new SIP trunks with Communication Server 1000.

6.5.1. SIP Entity for Operator Assistant

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 Operator Assistant.

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 Operator Assistant server.
- Type: "Other"
- Notes: Any desired notes.
- Location: Select the Operator Assistant location name from Section 6.2.

Select the applicable time zone.

• Time Zone:

AVAVA Aura" System Manager 7.0				Last Logged on at	March 11, 2016 11:51 AM
Home Routing *				60 ₄₀	Calenie:
- Routing	Home / Elements / Routing / SIP Entities				0
Domains					Help 7
Locations	SIP Entity Details			Commit Cancel	
Adaptations	General				
SIP Entities	* Name:	Parlance_OperatorAssistant			
Entity Links	* FQDN or IP Address:	10.10.98.157			
Time Ranges	Type:	Other	+		
Routing Policies	Notes:	SIP entity for a partner testing			
Dial Patterns					
Regular Expressions	Adaptation:				
Defaults	Location:	Belleville 💌			
	Time Zone:	America/Fortaleza	-		
	* SIP Timer B/F (in seconds):	4			
	Credential name:	1			
	Securable:	E			
	Call Detail Recording:	none .			
	CommProfile Type Preference:				
	Loop Detection				
	Loop Detection Mode:	On 💌			
	Loop Count Threshold:	5			
	Loop Detection Interval (in msec):	200			
	SIP Link Monitoring				
	SIP Link Monitoring:	Use Session Manager Configuration	on 💌		

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.
- The Session Manager entity name, in this case "DevvmSM". • SIP Entity 1:
- "UDP" • Protocol:
- Port: "5060"
- The Operator Assistant entity name from this section. • SIP Entity 2: "5060"
- Port:
- Connection Policy: "trusted"

Note that Operator Assistant can only support UDP protocol.

Ad	d Remove							
1.0	am 🤤						Fiber:	Ειταξεία
0	Name •	SIP Entity 1	Protocol	Port	SIF Entity 2	Port	Connection Policy	Deny New Service
13	· DevymSM_Parlance_0	DevvmSM 💌	VDP .	* 5060	Parlance_OperatorAssistant	* 5060	trusted 💌	10
•								
Sela	adt : All, None .							
SIP	Responses to an O	PTIONS Requ	est					
Ad	d Remove							
0 13	ams 🤰						Filter:	Enable
D	Response Code & Reaso	n Phrase				Mark Entity Un/Down	Notes	

6.5.2. SIP Entity for Communication Server 1000

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 Server 1000. Note that this SIP entity is used for integration with Operator Assistant.

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 SIP Signaling Gateway interface.
- Type: "Other"
- Notes: Any desired notes.
- Adaptation: Select the applicable adaptation for Communication Server 1000 if any. During compliance testing "CS1000Adapter" was used to manipulate phone-context in SIP messages which was configured in Section 6.4.
- Location: Select the applicable location for Communication Server 1000.
- **Time Zone:** Select the applicable time zone.

System Manager 7.0	Shimeva User _#		60.	FLog off as
e Reating *		5940		
outing	, Hume / Elements / Routing / SIP Entitles			Links
Domains	SIP Entity Details		Commit Cancel	help
Locations	Sar Energy Decans		(resource) (watersel)	
Adaptations	General	1		
SIP Entities	* Name:	CS1K_Bottom		
Entity Links	* FQDN or IP Address:	10.10.97.149		
Time Ranges	Type;	Other +		
Routing Policies	Notes:	SIP connection to CS1K		
Dial Patterns				
Regular Expressions	Adaptation:	CS1000Adapter +		
Defaults	Location:	Belevile +		
	Time Zone:	America/Toronto		
	* SIP Timer B/F (in seconds):	4		
	Credential name:	I		
	Securable:			
	Call Detail Recording	0000		
	Com Decin Recording.			
	Commercine type Preference.			
	Loop Detection			
	Loop Detection Mode:	On 💌		
	Loop Count Threshold:	5		
	Loop Detection Interval (in msec):	200		
	SIP Link Monitoring			
	SIP Link Monitoring:	Use Session Manager Configuration	1	

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 "DevvmSM".
- **Protocol:** The signaling transport method from **Section 5.2**.
- **Port:** The signaling listen port number from **Section** Error! Reference source not found.**2**.
- SIP Entity 2: The Communication Server 1000 entity name from this section.
 Port: The signaling group listen port number from Section Error! Reference
- **Port:** source not found.2.
- Connection Policy: "trusted"

Add	Remove							
1 Dbe	am 🥭						Filter:	Enable
11	Name +	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy	Dent New Servi
問	* LinktoCS1K_Bottom	DevvmSM 💌	UCP +	* 5060	CS1K_Bottom	• \$060	trusted 💌	Ð
9.5								1
Sele	ct : All, None							
SIP	Responses to an O	PTIONS Requ	est					
Add	Remove							
O Ite	ems 🙋						Filter:	Enable
-	Response Code & Reaso	n Phrase				Mark Entity	Notes	

6.6. Administer Routing Policies

Add two new routing policies, one for Operator Assistant and one for the new SIP trunks with Communication Server 1000.

6.6.1. Routing Policy for Operator Assistant

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 Operator Assistant.

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

In the **SIP Entity as Destination** sub-section, click **Select** and select the Operator Assistant entity name from **Section 6.5.1**. The screen below shows the result of the selection.

ura [®] System Manager 7.0				Last Logged on at March 11. 111 Go	20
Home Routing * Routing Domains Locations Adaptations SIP Entities Entity Links Time Ranges Routing Policies Dial Patterns Regular Expressions	Home / Elements / Routing / Ro Routing Policy Det General	Name: Route_To_Parlanc Disabled: Retries: 0 Notes: Route to a partne	e_OperatorAss r testing server	Help Commit Cancel	7
Deraults	Select		-	-	
	Name Parlance_OperatorAssistant	FQDN or IP Address 10.10.98.157	Type Other	Notes SIP entity for a partner testing	

6.6.2. Routing Policy for Communication Server 1000

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 Server 1000.

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

In the **SIP Entity as Destination** sub-section, click **Select** and select the Communication Server 1000 entity name from **Section 6.5.2**. The screen below shows the result of the selection.

AVAVA Aura System Manager 7.0	SNMP+3 User*				Last Looped on a Go	4 March 23, 2016 6:24 AM
Home Routing #						
* Routing	. Home / Elements / Bor	rting / Routing Policies				0
Domains Locations Adoptations SIP Entitles Entity Lioks Time Ranges Routing Policies	Routing Police	y Details * Name: Disabled: * Retries:	Route_to_CS1K_	Bottom	[Commit] Canosi	Help ?
Dial Patterns		TYPES.				
Regular Expressions	SIP Entity as Des	tination				
Defaults	Select					
	Name	FQDN or IP Addr	ess	Type	Notes	
	CS1K_Battern	10.10.97.149		Other	SIP connection to CS1K	

6.7. Administer Dial Patterns

Add a new dial pattern for Operator Assistant, and update existing dial patterns for Communication Server 1000.

6.7.1. Dial Pattern for Operator Assistant

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 Operator Assistant. 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 "30".
- **Min:** The minimum number of digits to match.
- Max: The maximum number of digits to match.
- **SIP Domain:** The signaling domain name from **Section 5.2**.

In the **Originating Locations and Routing Policies** sub-section, click **Add** and create an entry for reaching Operator Assistant. In the compliance testing, the entry allowed for call originations from all Communication Server 1000 endpoints in locations "Belleville". The Operator Assistant routing policy from **Section 6.6.1** was selected as shown below.

AVAVA Aura [®] System Manager 7.0						Last Lopped or at North 11.	2016 12:01 AN og off ædmin
Hume Routing *							
* Routing	Home / Elements / Routing / Dial P	atterns					0
Domains					and a production of	-1	Help 7
Lecetions	Dial Pattern Details			Com	mit Cance	4	
Adaptations	General						
SIP Entities	Dennis di	+ Dattaget	20		-12		
Entity Links		Pattern.	50				
Timu Ranges		Mun:	<u>b</u>				
Routing Policies		* Max:	15				
Diel Patterns	Em	ergency Call:					
Regular Expressions	Emarga	ency Priority:	1				
Defaults.	Eme	rgency Type:					
		SIP Domain:	bywder.com +				
		Notes:	Dial pattern to reach Parlance Offi	ice Assist	an		
	Originating Locations and Re	uting Polic	ies				
	Add Remove						
	1 Item 🔁					Fiter	Ersabia
	😨 Originating Location Name +	Originating Location Notes	Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination	Routing Palicy Notes
	2 Delleville	Selleville DevConnect Lob	Route_To_Parlance_OperatorAssistant	0		Parlance_OperatorAssistant	Route to a partner testing server
	Select : All, Nune						or other and

6.7.2. Dial Pattern for Communication Server 1000

Select **Routing** \rightarrow **Dial Patterns** from the left pane, and click on the first existing dial pattern for Communication Server 1000 in the subsequent screen, in this case dial pattern "54" (not shown). 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 Operator Assistant. In the compliance testing, the new policy allowed for call origination from the Operator Assistant location from **Section 6.2**, and the Communication Server 1000 routing policy from **Section 6.6.2** 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 Server 1000 dial pattern to reach the PSTN. In the compliance testing, Operator Assistant will add the prefix "9" for outbound calls to the PSTN, and therefore the existing dial pattern for "9" was also changed (not shown below).

AVAYA Aura System Manager 7.0	SNMPYS Liser					ant Logged on at Mu 30.1.	nch 28, 2016 6:24 AN
Home Routing #				0			
- Routing	Home / Elements / Routing / Dial Pa	tterns					0
Domains Locations	Dial Pattern Details			Co	mmt Canc	el	Help 7
Adaptations SIP Entities Entity Links Time Ranges Routing Policies Dial Patterns	General	* Pattern: 5- * Min: 5 * Max: 30	4 5 [.]				
Regular Expressions Defaults	Emergen	cy Priority: 1 pency Type:					
	S Originating Locations and Ro	IP Domain: b Notes:	vwdev.com 💌				
	Add Remove						
	1 ltem 🥥						Fiter: Enable
	Originating Location Name +	Originating Location Notes	Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes
	🔲 Belleville	Belleville DevConnect Lal	Boute_ta_CS1K_Bottom	0	12	CS1K_Bottom	
	Select 1.48, None						

7. Configure Parlance Operator Assistant

The Parlance Operator Assistant will be provisioned completely by Parlance engineers based on site requirements and therefore no configuration details will be provided in these application notes.

To obtain information on Operator Assistant configuration, refer to Section 2.3.

8. Verification Steps

This section provides tests that can be performed to verify proper configuration of Communication Server 1000 and Session Manager.

8.1. Verify Avaya Aura® Communication Server 1000

From the CLI interface, verify the status of the SIP trunks by using the "stat" command followed by the Terminal Number in LD 32. During compliance testing it is, "stat 100 0 3". Verify that all trunk units are in the "IDLE" state and the D-CH is in "EST ACTV" state as shown below.

```
>ld 32
NPR000
.stat 100 0 3
00 = UNIT 00 = IDLE (ISL TRK)(TIE IP IMM /IMM)
D-CH 5 EST ACTV
01 = UNIT 01 = IDLE (ISL TRK)(TIE IP IMM /IMM)
D-CH 5 EST ACTV
02 = UNIT 02 = IDLE (ISL TRK)(TIE IP IMM /IMM)
D-CH 5 EST ACTV
03 = UNIT 03 = IDLE (ISL TRK)(TIE IP IMM /IMM)
D-CH 5 EST ACTV
```

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 Operator Assistant entity name from Section 6.5.1.

AVAVA Aus Symm Nanapr 10							į.	Col.
Horse Service Transport								
T Gestien Makeger	. Hanse / Dements / Service Planage	/ System Shimes / SIV	Eatily meadoring					
Dathheard								
Secular Planager Administration	SIP Entity Link Monito	oring Status Si on Matagor IIP antity in	ummary					
Constantiation Postile Editor	menitoring status,		and and the Party of the					
 Satissark. Configuration 	(he Better)	intering econor and	and the second					
 Desitor and Location Configuration 	Litere Beben							Ritar: End
 Application Configuration 	C Seemen Manager	tare	Bana	Partially bir		anterer faillen Bet Photorel	lev	Total
· System Matur	Deventation	COR				I	D	10
S3P Eatity Monitoring								
Managed Resolution Usage								
Security Hostole Staties								
SIP Orenal State	Seluct: R0, fdpre							
Registration Gammary	All Munitored SIP Entities							
Dae Registrations	(Jul Rostin)							
Secolar Cevets	TT TAYS Infratt							films from
Uner Data Starage								00000
* System Teells	C Parlance Presenter Scientist	1		Sec. 1984	These .			
Performance:	La Prosente, Operatorio solitati							

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

AVAVA Aura System Manager 7.0								rt Looged on at Ha Dig	nt 18, 2014 11:45 AN
Home Seaston Nanager	н								
* Session Manager	e 10	ime / Elements / Sessia	m Manager / Syst	em Status /	51P Entity Monitori	DÆ			0
Dashboard Session Manager Administration Communication Profile Editor	SJ Thii Sei	(P Entity, Entit s page displays detailed i ision Manager instances	t y Link Con connection status to a single SIP ent	for all entity in for all entity in) Status				Help ?
 Network Configuration Device and Location Configuration 		All Entity Links to SI	P Entity: Parla	nce_Opera	EorAssisEant Status Details fi	or the selected S	iession Manager:		
Application	ΓT	1 Jtems Refush Filter: Ends							Filter: Enable
Configuration * System Status		Session Manager Name	SIP Entity Resolved IP	Port	Proto.	Deny	Conn. Status	Reason Code	Link Status
STP Entity Monitoring	0	DexxmSM	10.16,98.157	5060	UDP	FALSE	ŲΡ	200 OK	UP

Solution & Interoperability Test Lab Application Notes ©2016 Avaya Inc. All Rights Reserved.

9. Conclusion

These Application Notes describe the configuration steps required for Parlance Operator Assistant to successfully interoperate with Avaya Aura® Session Manager 7.0 and Avaya Communication Server 1000 7.0 using SIP trunks. 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.

- Communication Server 1000E Installation and Commissioning, Release 7.6, NN43041-310
- 2. Element Manager System Reference Administration Avaya Communication Server 1000, Release 7.6, NN43001-632.
- 3. Avaya Communication Server 1000 Co-resident Call Server and Signaling Server Fundamentals Release 7.6, NN43001-509.
- 4. Avaya Communication Server 1000 Unified Communications Management Common Services Fundamentals -, Release 7.6, NN43001-116.
- 5. Avaya Communication Server 1000 Software Input Output Reference Administration Release 7.6, NN43001-611.
- 6. Avaya Communication Server 1000 ISDN Primary Rate Interface Installation and Commissioning, Release 7.6, NN43001-301.
- 7. Implementing Avaya Aura® Session Manager Document ID 03-603473.
- 8. Administering Avaya Aura® Session Manager, Doc ID 03-603324.
- 9. Deploying Avaya Aura® System Manager, Release 7.0.
- 10. Administering Avaya Aura® System Manager for Release 7.0, Release 7.0.

To obtain information on documents related to Parlance Operator Assistant, refer to Section 2.3.

©2016 Avaya Inc. All Rights Reserved.

Avaya and the Avaya Logo are trademarks of Avaya Inc. All trademarks identified by \mathbb{R} and TM are registered trademarks or trademarks, respectively, of Avaya Inc. All other trademarks are the property of their respective owners. The information provided in these Application Notes is subject to change without notice. The configurations, technical data, and recommendations provided in these Application Notes are believed to be accurate and dependable, but are presented without express or implied warranty. Users are responsible for their application of any products specified in these Application Notes.

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