

Avaya Solution & Interoperability Test Lab

Application Notes for IPC UnigyV2 with Avaya Aura® Session Manager 6.3 using SIP Trunks – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for IPC UnigyV2 to interoperate with Avaya Aura® Session Manager 6.3 using SIP trunks.

IPC UnigyV2 is a trading communication solution. In the compliance testing, IPC UnigyV2 used SIP trunks to Avaya Aura® Session Manager, for turret users on IPC to reach users on Avaya Aura® Communication Manager and on the PSTN.

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 IPC UnigyV2 to interoperate with Avaya Aura® Communication Manager via Avaya Aura® Session Manager.

The Unigy Platform is a unified trading communications system designed specifically to make the entire trading ecosystem more productive, intelligent and efficient. Based on an SIP-enabled, open and distributed architecture, Unigy utilizes the latest, standards-based technology to create a groundbreaking, innovative Unified Trading Communications (UTC) solution.

Unigy offers a portfolio of devices and applications that serve the entire trading workflow, across the front, middle and back offices.

2. General Test Approach and Test Results

The feature test cases were performed manually. Calls were manually established among IPC turret users with Avaya SIP, Avaya H.323, and/or PSTN users. Call controls were performed from various users to verify the call scenarios.

The serviceability test cases were performed manually by disconnecting and reconnecting the Ethernet cable to IPC UnigyV2.

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 basic call, display, G.711MU, hold/reconnect, DTMF, call forwarding unconditional/ring-no-answer/busy, blind/attended transfer, and attended conference.

The serviceability testing focused on verifying the ability of IPC UnigyV2 to recover from adverse conditions, such as disconnecting/reconnecting the Ethernet connection to IPC UnigyV2.

2.2. Test Results

All test cases were executed and verified. The following were the observations on IPC UnigyV2 from the compliance testing:

- Even when IPC UnigyV2 is configured with UDP, the TCP protocol must be configured to be allowed on Avaya Session Manager as UnigyV2 switches over to use TCP for diversions.
- During the compliance test, shuffling was disabled, as shown in Section 5.4.
- During the compliance test, Network Call Redirection (shuffling) was disabled, as shown in **Section 5.3**. (IPC requested)

2.3. Support

Technical support on IPC UnigyV2 can be obtained through the following:

- **Phone:** (800) NEEDIPC, (203) 339-7800
- Email: systems.support@ipc.com

3. Reference Configuration

As shown in the test configuration below, IPC UnigyV2 at the Remote Site consists of the Media Manager, Converged Communication Manager, and Turrets. The Media Manager and Converged Communication Manager are typically deployed on separate servers. In the compliance testing, the same server hosted the Media Manager and Converged Communication Manager.

SIP trunks are used from IPC UnigyV2 to Avaya Aura® Session Manager, to reach users on Avaya Aura® Communication Manager and on the PSTN.

A five digit Uniform Dial Plan (UDP) was used to facilitate dialing between the Central and Remote sites. Unique extension ranges were associated with Avaya Aura® Communication Manager users at the Central site (7200x and 7202x), and IPC turret users at the Remote site (7205x).

The detailed administration of basic connectivity between Avaya Aura® Communication Manager and Avaya Aura® Session Manager is not the focus of these Application Notes and will not be described.

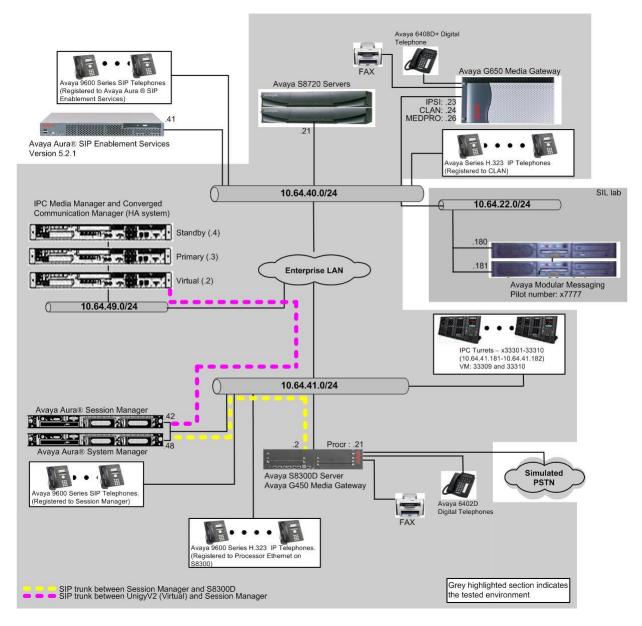


Figure 1: Test Configuration of IPC UnigyV2

4. Equipment and Software Validated

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

Equipment	Software			
Avaya Aura® Communication Manager on Avaya S8300D Server	R016x.03.0.124.0-20553			
Avaya G450 Media Gateway • TN464HP DS1 Interface	HW02 FW024			
Avaya Aura® Session Manager	6.3.2.0.632023			
Avaya Aura® System Manager	6.3.2.4.1529			
Avaya 96xx IP Telephone (H.323)	3.1			
Avaya 96xx IP Telephone (SIP)	2.6.4			
Avaya A175 Desktop Video Device (SIP)	1.0.2			
IPC UnigyV2				
Media Manager	02.00.00.05.0031			
Converged Communication Manage	02.00.00.05.0031			
• Turret	02.00.00.05.0031			

5. Configure Avaya Aura® Communication Manager

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

- Verify Communication Manager license
- Administer system parameters features
- Administer SIP trunk group
- Administer SIP signaling group
- Administer IP network region
- Administer IP codec set
- Administer route pattern
- Administer private numbering
- Administer uniform dial plan
- Administer AAR analysis
- Administer ISDN trunk group
- Administer tandem calling party number

In the compliance testing, a separate set of codec set, network region, trunk group, and signaling group were used for the IPC turret users.

5.1. Verify Communication Manager License

Log into the System Access Terminal (SAT) to verify that the Communication Manager license has proper 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	2 of	11	
OPTIONAL FEATURES					
		HOED			
IP PORT CAPACITIES		USED			
Maximum Administered H.323 Trunks:	4000	27			
Maximum Concurrently Registered IP Stations:	2400	3			
Maximum Administered Remote Office Trunks:	4000	0			
Maximum Concurrently Registered Remote Office Stations:	2400	0			
Maximum Concurrently Registered IP eCons:	68	0			
Max Concur Registered Unauthenticated H.323 Stations:	100	0			
Maximum Video Capable Stations:	2400	2			
Maximum Video Capable IP Softphones:	2400	2			
Maximum Administered SIP Trunks:	4000	70			
Maximum Administered Ad-hoc Video Conferencing Ports:	4000	0			
Maximum Number of DS1 Boards with Echo Cancellation:	80	0			

5.2. Administer System Parameters Features

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

This feature is needed to be able to transfer an incoming call from IPC back out to IPC (incoming trunk to outgoing trunk), and to transfer an outgoing call to IPC to another outgoing call to IPC (outgoing trunk to outgoing trunk). 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.

```
change system-parameters features Page 1 of 19

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 (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
```

5.3. Administer SIP Trunk Group

Use the "add trunk-group n" command, where "n" is an available trunk group number, in this case "92". 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 92	Page 1 of 21
	TRUNK GROUP
Group Number: 92	Group Type: sip CDR Reports: y
Group Name: SM_41_42	COR: 1 TN: 1 TAC: 1092
Direction: two-way	Outgoing Display? y
Dial Access? n	Night Service:
Queue Length: 0	
Service Type: tie	Auth Code? n
	Member Assignment Method: auto
	Signaling Group: 92
	Number of Members: 10

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

add trunk-group 92	Page 3 of 21
TRUNK FEATURES	
ACA Assignment? n	Measured: none
ACA ASSIGNMENT: N	Measured: none
	Maintenance Tests? y
	±
Numbering Format:	private
	UUI Treatment: service-provider
	Replace Restricted Numbers? n
	Replace Unavailable Numbers? n
	Replace onavailable Numbers: II
Madd Ga	The law Calling Markey and
MOdliy	Tandem Calling Number: no
Charle ANGMEDED DV on Disclary?	
Show ANSWERED BY on Display? y	

Navigate to **Page 4**, and disable **Network Call Redirection** (REFER) since REFER did not work with Unigy V2. Enter "101" for **Telephone Event Payload Type**.

add trupt group 00	Dago (of 21
add trunk-group 92	Page 4 of 21
PROTOCOL VARIATIONS	
Mark Users as Phone?	У
repend '+' to Calling/Alerting/Diverting/Connected Number?	n
Send Transferring Party Information?	V
Network Call Redirection?	-
network carr neurrection.	11
Send Diversion Header?	
Support Request History?	У
Telephone Event Payload Type:	101
Convert 180 to 183 for Early Media?	n
Always Use re-INVITE for Display Updates?	
Identity for Calling Party Display:	
Block Sending Calling Party Location in INVITE?	
Accept Redirect to Blank User Destination?	
Enable Q-SIP?	n

5.4. Administer SIP Signaling Group

Use the "add signaling-group n" command, where "n" is an available signaling group number, in this case "92". 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.

"sip"

- Far-end Node Name: The existing Session Manager node name.
- Near-end Listen Port: An available port for integration on Communication Manager.
- Far-end Listen Port: The same port number as in Near-end Listen Port.
- Far-end Network Region: Set to "1".
- **Direct IP-IP Audio Connection:** Disable the field by entering "n" (Unigy V2 does not fully support shuffling.

add signaling-group 92	Page 1 of 2
SIGNALING	GROUP
Group Number: 92 Group Type:	sip
IMS Enabled? n Transport Method:	tls
Q-SIP? n	
IP Video? y Priority Video?	y Enforce SIPS URI for SRTP? y
Peer Detection Enabled? y Peer Server:	SM
Prepend '+' to Outgoing Calling/Alerting	-
Remove '+' from Incoming Called/Calling/A	lerting/Diverting/Connected Numbers? n
Near-end Node Name: procr	Far-end Node Name: SM-1
Near-end Listen Port: 5061	Far-end Listen Port: 5061
F	ar-end Network Region: 1
Far-en	d Secondary Node Name:
Far-end Domain:	
	Bypass If IP Threshold Exceeded? n
Incoming Dialog Loopbacks: eliminate	RFC 3389 Comfort Noise? n
DTMF over IP: rtp-payload	Direct IP-IP Audio Connections? n
Session Establishment Timer(min): 3	IP Audio Hairpinning? n
Enable Layer 3 Test? y	
	Alternate Route Timer(sec): 6

5.5. 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, set to "avaya.com". 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 IPC UnigyV2.

change ip-network-region 1		Page	1 of	20
I	P NETWORK REGION			
Region: 1				
Location: 1 Authoritative	Domain: avaya.com			
Name:	Stub Network Region: n			
MEDIA PARAMETERS	Intra-region IP-IP Direct Audio	: yes		
Codec Set: 1	Inter-region IP-IP Direct Audic	: yes		
UDP Port Min: 16390	IP Audio Hairpinning	? n		
UDP Port Max: 16999				
DIFFSERV/TOS PARAMETERS				
Call Control PHB Value: 46				
Audio PHB Value: 46				
Video PHB Value: 26				

5.6. Administer IP Codec Set

Use the "change ip-codec-set n" command, where "n" is the codec set number from **Section 5.5**. Update the audio codec types in the **Audio Codec** fields as necessary. Note that IPC UnigyV2 supports G.711.

```
change ip-codec-set 1
                                                    Page 1 of
                                                               2
                    IP Codec Set
   Codec Set: 1
  Audio
         Silence Frames Packet
  Codec Suppression Per Pkt Size(ms)
1: G.711MU
                n
                        2
                               20
2:
3:
4:
5:
6:
7:
```

5.7. Administer Route Pattern

Use the "change route-pattern n" command, where "n" is an existing route pattern number to be used to reach IPC, in this case "92". 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.

cha	ange	route-pa	atter	rn 92								Page	1 0	f 3	
				Pattern N	Jumbei SCCAI			ern Name cure SIP		IMS	SIP	trk			
	Crn	FDT NDA	Dfv	Hop Toll				Cuic Dii	• ••				DCG/	IXC	
	-			-											
	No		Mrk	Lmt List	Del	Digit	S						QSIG		
					Dgts								Intw		
1:	92	0											n	user	
2:													n	user	
3:													n	user	
4:													n	user	
5:													n	user	
6:													n	user	
				CA-TSC	ITC	BCIE	Servi	ce/Featu	re Pž				-	LAR	
	0 1	2 M 4 W		Request]	Dgts	Format			
										Suba	addre	ess			
1:	УУ	уууп	n		rest	t								none	
2:	УУ	уууп	n		rest	t								none	

5.8. Administer Private Numbering

Use the "change private-numbering 0" command, to define the calling party number to send to IPC. Add an entry for the trunk group defined in **Section 5.3**. In the example shown below, all calls originating from a 5-digit extension beginning with 720 and routed to trunk group 92 will result in a 5-digit calling number. The calling party number will be in the SIP "From" header.

ch	ange priv	ate-numbering 0				Page 1	of	2
		NU	MBERING -	PRIVATE	FORMAI	1		
Ex	t Ext	Trk	Private		Total			
Le	n Code	Grp(s)	Prefix		Len			
5	720	92			5	Total Administered	: 10	
5	720	93			5	Maximum Entries:	: 540	

5.9. Administer Uniform Dial Plan

This section provides a sample AAR routing used for routing calls with dialed digits 7205x to IPC. Note that other methods of routing may be used. Use the "change uniform-dialplan 0" command, and add an entry to specify the use of AAR for routing digits 7205x, as shown below.

change uniform-d	ialp	olan O				Page 1 of 2	
-		UN	IFORM DIAL PI	AT.E			
		010					
							Percent Full: 0
Matching			Insert			Node	
2	_						
Pattern	Len	Del	Digits	Net	Conv	Num	
141044	11	0		ars	n		
2	5	0		aar	n		
20004	5	0		aar	n		
50000	5	0		aar	n		
53005	5	0		aar	n		
7050	4	0		aar	n		
7202	5	0		aar	n		
		-					
7203	5	0		aar	n		
7204	5	0		aar	n		
7205	5	0		aar	n		

5.10. Administer AAR Analysis

Use the "change aar analysis 7" command, and add an entry to specify how to route calls to 7205x. In the highlighted example shown below, calls with digits 7205x will be routed using route pattern "92" from **Section 5.7**.

change aar analysis 7						Page 1 of 2
change aar anarysis ,	AAR DIGIT ANALYSIS TABLE					rage i or 2
	1					
			Location:	all		Percent Full: 3
		_				
Dialed	Tot	al	Route	Call	Node	ANI
String	Min	Max	Pattern	Туре	Num	Reqd
7202	5	5	92	unku		n
7203	5	5	92	unku		n
7204	5	5	92	unku		n
7205	5	5	92	unku		n
7206	5	5	92	unku		n
7301	5	5	92	unku		n
770	5	5	26	aar		n
7777	4	4	92	unku		n
780	5	5	92	unku		n
79000	5	5	99	aar		n
						n
						n
						n
						n

5.11. Administer ISDN Trunk Group

Use the "change trunk-group n" command, where "n" is the existing ISDN trunk group number used to reach the PSTN, in this case "80".

Navigate to **Page 3**. For **Modify Tandem Calling Number**, enter "tandem-cpn-form" to allow for the calling party number from IPC to be modified.

change trunk-group 80 Page 3 of 21 TURES ACA Assignment? n Measured: none Internal Alert? n Data Restriction? n Send Name: y Send EMU Visitor CPN? y TRUNK FEATURES Used for DCS? n Suppress # Outpulsing? n Format: natl-pub Outgoing Channel ID Encoding: preferred UUI IE Treatment: service-provider Replace Restricted Numbers? n Replace Unavailable Numbers? n Send Connected Number: y Network Call Redirection: none Hold/Unhold Notifications? n Modify Tandem Calling Number: tandem-cpn-form Send UUI IE? y Send UCID? n Send Codeset 6/7 LAI IE? y Ds1 Echo Cancellation? n US NI Delayed Calling Name Update? n Apply Local Ringback? n Show ANSWERED BY on Display? y Network (Japan) Needs Connect Before Disconnect? n

5.12. Administer Tandem Calling Party Number

Use the "change tandem-calling-party-num" command to define the calling party number to send to the PSTN for tandem calls from IPC turret users.

In the example shown below, all calls originating from a 5-digit extension beginning with 7205 and routed to trunk group 80 will result in a 10-digit calling number. For **Number Format**, use an applicable format, in this case "pub-unk".

change tandem-o	Page 1 of	8				
	CALLI	NG PARTY	NUMBER CON	VERSION		
		FOR TA	ANDEM CALLS			
	Incoming				Outgoing	
CPN	Number	Trk			Number	
Len Prefix	Format	Grp(s)	Delete	Insert	Format	
5 33		80		3035383547	pub-unk	
5 7205		80		3035383547	pub-unk	

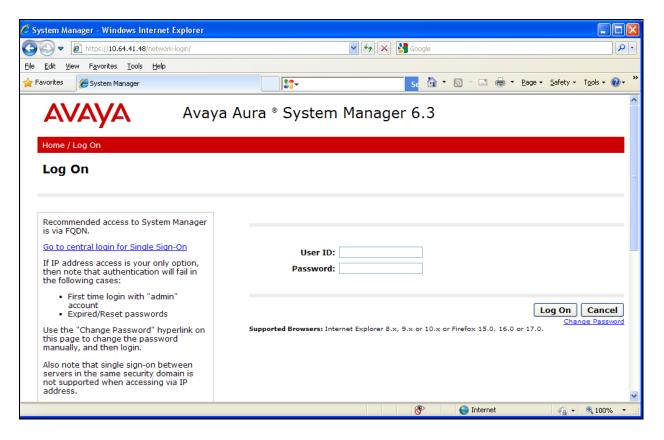
6. Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Avaya Aura® Session Manager. It is assumed that the basic configuration is already in place. This Section discusses the following area:

- Administer locations
- Administer adaptations
- Administer SIP entities
- Administer entity links
- Administer routing policies
- Administer dial patterns

6.1. Launch System Manager

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



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 IPC.

Αναγα	Avaya Aura® System Manager 6.3	
	Routing * H	ome
Routing	Home / Elements / Routing	
Domains		elp ?
Locations	Introduction to Network Routing Policy	
Adaptations	Network Routing Policy consists of several routing applications like "Domains", "Locations", "SIP Entities", o	etc.
SIP Entities	The recommended order to use the routing applications (that means the overall routing workflow) to configure your network configuration is as follows:	
Entity Links	Step 1: Create "Domains" of type SIP (other routing applications are referring domains of type SIP).	
Time Ranges		
Routing Policies	Step 2: Create "Locations"	
Dial Patterns	Step 3: Create "Adaptations"	
Regular Expressions	Step 4: Create "SIP Entities"	
Defaults	- SIP Entities that are used as "Outbound Proxies" e.g. a certain "Gateway" or "SIP Trunk"	

The Location Details screen is displayed. In the General sub-section, enter a descriptive Name and optional Notes. In the Location Pattern sub-section, click Add and enter the applicable IP Address Pattern (not shown). Retain the default values in the remaining fields.

AVAYA	Avaya Aura® Syster	m Manager 6.3	Last Logged on at October 18, 2013 2:40 PM Help About Change Password Log off admin
			Routing * Home
Routing	Home / Elements / Routing / Location	ons	
Domains	· · ·		Help ?
Locations	Location Details		Commit Cancel
Adaptations	General		
SIP Entities	* Name:	49-subnet	
Entity Links	Notes:	Unigy/Alliance	
Time Ranges	HULES.	Onigy/Amarice	
Routing Policies	Dial Plan Transparency in Surviv	rahle Mode	
Dial Patterns	Enabled:		
Regular Expressions	Enableu.		
Defaults	Listed Directory Number:		
	Associated CM SIP Entity:	×	

6.3. Administer Adaptations

During the compliance test, the adaption was not administered. Instead, in **Section 5.4** of the signal group form, the Far-end Domain field was set to blank, which means "catch all".

6.4. Administer SIP Entities

Add two new SIP entities, one for IPC, and another for the new SIP trunks for Communication Manager.

6.4.1. IPC SIP Entity

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 IPC.

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 IPC Media Manager server.
- Type: "Other"
- Location: Select the IPC location name from Section 6.2.
- **Time Zone:** Select the applicable time zone.

Αναγα	Avaya Aura® Syste	m Manager 6.3	Last Logged on at October 18, 2013 2:40 PM Help About Change Password Log off admin
▼ Routing	Home / Elements / Routing / SIP Elements / Routing / SIP Elements	ntities	Routing * Home
Domains	SIP Entity Details		Help ? Commit Cancel
Locations Adaptations	General		1
SIP Entities	* Name:	IPC Unigy HA	
Entity Links	* FQDN or IP Address:	10.64.49.2]
Time Ranges	Туре:	Other 🗸	
Routing Policies	Notes:	IPC Unigy HA system	
Dial Patterns			-
Regular Expressions	Adaptation:	×	
Defaults	Location:	49-subnet 💙	
	Time Zone:	America/Denver	~
	Override Port & Transport with DNS SRV:		
	* SIP Timer B/F (in seconds):	4	
	Credential name:		
	Call Detail Recording:	none 💌	
	CommProfile Type Preference:	~	
	Loop Detection Loop Detection Mode:	Off	
	SIP Link Monitoring SIP Link Monitoring:	Use Session Manager Configuration	

6.4.2. Communication Manager SIP Entity

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 IPC.

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 procr. "CM"
Notes: Any descriptive notes.
Location: Select the applicable location for Communication Manager.
Time Zone: Select the applicable time zone.

AVAYA	Avaya Aura® Syste	m Manager 6.3	Last Logged on at October 18, 2013 2:40 PM Help About Change Password Log off admin
			Routing * Home
[™] Routing	Home / Elements / Routing / SIP Er	ntities	
Domains			Help ?
Locations	SIP Entity Details		Commit Cancel
Adaptations	General		
SIP Entities	* Name:	S8300D-G450-TLS	
Entity Links	* FQDN or IP Address:	10.64.41.21	
Time Ranges	Туре:	CM	
Routing Policies	Notes:	CM in D4H26 lab	
Dial Patterns			
Regular Expressions	Adaptation:	*	
Defaults	Location:	41-subnet 🚩	
	Time Zone:	America/Denver	×
	Override Port & Transport with DNS SRV:		
	* SIP Timer B/F (in seconds):	4	
	Credential name:		
	Call Detail Recording:	both 💌	
	Loop Detection		
	Loop Detection Mode:	Off 💌	
	SIP Link Monitoring		
	SIP Link Monitoring:	Use Session Manager Configuration	

6.5. Administer Entity Links

Add three new entity links, two for IPC, and another for Communication Manager.

6.5.1. IPC Entity Links

Select **Routing** \rightarrow **Entity Links** from the left pane, and click **New** in the subsequent screen (not shown) to add a new entity link for IPC. The **Entity Links** screen is displayed. 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
Protocol: "UDP"
Port: "5060"
SIP Entity 2: The IPC entity name from Section 6.4.1.
Port: "5060"
Connection Policy: "Trusted"

AVAYA		Avaya Aura®	System	n Mana	iger 6.	3 Last L Help			r 18, 2013 2:40 PM Password Log off admin
								Routi	ng × Home
Routing	↓ Home	e / Elements / Routin	ng / Entity L	inks					
Domains	_							(-)	Help ?
Locations	Entity	Links						Commit	Cancel
Adaptations									
SIP Entities	1 Iten	n Refresh							Filter: Enable
Entity Links		Name	SIP Entity	Protocol	Port	SIP Entity 2		Port	Connection
Time Ranges		Name	1	FIOLOCOI	POIL	SIF Linky 2		POIL	Policy
Routing Policies		* SM63_IPC Unigy HA_	* SM63 💌	UDP 🔽	* 5060	* IPC Unigy HA	*	* 5060	trusted 💌
Dial Patterns	<								>
Regular Expressions	Select	t : All, None							
Defaults									
								Commit	Cancel

Repeat and add another entity link for IPC with "TCP" as Protocol, as shown below.

AVAYA	Avaya Aura [®] System Manager 6.3
	Routing × Home
Routing	Home / Elements / Routing / Entity Links
Domains	Help ?
Locations	Entity Links Commit Cancel
Adaptations	
SIP Entities	1 Item Refresh Filter: Enable
Entity Links	Name SIP Entity Protocol Part STP Entity 2 Part Connection
Time Ranges	1 Policy Policy Policy
Routing Policies	*SM63_IPC Unigy HA *SM63 V TCP V *5060 * IPC Unigy HA V *5060 trusted V
Dial Patterns	
Regular Expressions	Select : All, None
Defaults	
	Commit Cancel

6.5.2. Communication Manager Entity Links

Select **Routing** \rightarrow **Entity Links** from the left pane, and click **New** in the subsequent screen (not shown) to add a new entity link for Communication Manager. The **Entity Links** screen is displayed. 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 "SM63".
- **Protocol:** The signaling group transport method from **Section 5.4**.
- **Port:** The signaling group listen port number from **Section 5.4**.
- **SIP Entity 2:** The Communication Manager entity name from **Section 6.4.2**.
- **Port:** The signaling group listen port number from **Section 5.4**.
- Connection Policy: Trusted

AVAYA	Avaya Aura	[®] System Mana	ager 6.	3 Last Logged Help Abour		er 19, 2013 9:06 PM Password Log of l admin
				Routing * Ses	sion Manag	
Routing	◀ Home / Elements / Routi	ing / Entity Links				
Domains					(-)	Help ?
Locations	Entity Links				Commit	Cancel
Adaptations						
SIP Entities	1 Item Refresh					Filter: Enable
Entity Links	Name	SIP Entity Protocol	Port	SIP Entity 2	Port	Connection
Time Ranges		1	TOIL	SIT LIKITY 2	TON	Policy
Routing Policies	* 00D-G450-TLS_5061	* SM63 🗸 TLS 🗸	* 5061	* S8300D-G450-TLS 💌	* 5061	trusted 💌
Dial Patterns	<					>
Regular Expressions	Select : All, None					
Defaults						
					Commit	Cancel

6.6. Administer Routing Policies

Add two new routing policies, one for IPC, and another for Communication Manager.

6.6.1. IPC Routing Policy

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 IPC.

The **Routing Policy Details** screen is displayed. In the **General** sub-section, enter a descriptive **Name**.

In the **SIP Entity as Destination** sub-section, click **Select** and select the IPC entity name from **Section 6.4.1** in the listing (not shown).

Retain the default values in the remaining fields.

Αναγα	Avaya Au	ra® Syst	em Ma	nage	r 6.	3	L H	ast Logged on at Ielp About C	t October 18, 20 hange Passw	o13 2:40 PM ord Log off admin Home
• Routing	Home / Elements / R	outing / Rou	ting Polici	25					Kouting	Trome
Domains Locations	Routing Policy Details							C	Commit Cance	Help ?
Adaptations SIP Entities Entity Links Time Ranges Routing Policies Dial Patterns Regular Expressions Defaults	General SIP Entity as Dest Select	Disable * Retrie Note	s: 0	Jnigy-HA						
	Name	FQDN or IP	Address		Т	уре		Notes		
	IPC Unigy HA	10.64.49.2			0	ther		IPC Unigy HA	system	
		Gaps/Overlaps	3							
	1 Item Refresh	me Mon	Tue We	d Thu	Fri	Sat	Sun	Start Time	Filte End Time	Notes
					Fn ⊻		Sun ⊘	00:00	23:59	Notes
	Select : All, None									

6.6.2. Communication Manager Routing Policy

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**.

In the **SIP Entity as Destination** sub-section, click **Select** and select the Communication Manager entity name from **Section 6.4.2** in the listing (not shown).

Retain the default values in the remaining fields.

AVAYA	Avaya Aura® S	Syste	n Mar	age	r 6.	3	L	.ast Logged on a Help About (it October 18, 2 Change Passw	013 2:40 PM ord Log off admin
									Routing *	Home
Routing	Home / Elements / Routing	/ Routin	g Policies	;						
Domains								r		Help ?
Locations	Routing Policy Details							l	Commit Canc	el
Adaptations	General									
SIP Entities		* Name:	Route2G4	50 via T	15					
Entity Links)isabled:								
Time Ranges		Retries:								
Routing Policies			U							
Dial Patterns		Notes:								
Regular Expressions	ore rate and state									
Defaults	SIP Entity as Destination	n								
	Select									
	Name	FQDN o	r IP Addre	55			Туре	Note	25	
	S8300D-G450-TLS	10.64.41	.21				СМ	CM i	n D4H26 lab	
	Time of Day									
	Add Remove View Gaps/C	Overlaps								
	1 Item Refresh								Filte	r: Enable
	Ranking 🔺 Name	Mon Tu		Thu	Fri	Sat	Sun	Start Time	End Time	Notes
	0 24/7	× .		V	\checkmark	1	1	00:00	23:59	
	Select : All, None									

6.7. Administer Dial Patterns

Add a new dial pattern for IPC, and update the existing dial pattern for Communication Manager.

6.7.1. IPC Dial Pattern

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 IPC turret users. 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.
- Min: The minimum number of digits to be matched.
- Max: The maximum number of digits to be matched.
- SIP Domain: Select "ALL".
- Notes: Any desired description.

In the **Originating Locations and Routing Policies** sub-section, click **Add** and create a new policy for reaching IPC turret users. In the compliance testing, the policy allowed for call origination from all locations, and the IPC routing policy from **Section 6.6.1** was selected as shown below.

AVAYA	Avaya Aura® Syste	em <mark>M</mark> an	ager 6.3	;	Last Logged Help About	on at October 18, t Change Pass	2013 2:40 PM word Log off admin
						Routing	× Home
Routing	Home / Elements / Routing / Dial	Patterns					
Domains							Help ?
Locations	Dial Pattern Details					Commit Car	ncel
Adaptations	General						
SIP Entities	* Patter	1: 7205					
Entity Links	* Mi						
Time Ranges	* Ma						
Routing Policies							
Dial Patterns	Emergency Ca						
Regular Expressions	Emergency Priority	/: 1					
Defaults	Emergency Type	2:					
	SIP Domain	1: -ALL-	*				
	Note	5:					
	Originating Locations and Rou Add Remove	ting Policie	S				
	1 Item Refresh	Originating	Routing		Routing	Fi	Iter: Enable Routing
	Originating Location Name	Location Notes	Policy Name	Rank	Policy Disabled	Policy Destination	Policy Notes
	-ALL-		Route2Unigy -HA			IPC Unigy HA	
	Select : All, None						

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6.7.2. Communication Manager Dial Pattern

Select **Routing** \rightarrow **Dial Patterns** from the left pane, and click on the existing dial pattern for Communication Manager in the subsequent screen, in this case dial pattern "7200" (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 IPC turret users. In the compliance testing, the policy allowed for call origination from the IPC location from **Section 6.2**, and the Communication Manager routing policy from **Section 6.6.2** was selected as shown below. Retain the default values in the remaining fields.

avaya	Avaya Aura® Syst	em Man	ager 6.3	}	Last Logged Help Abou	on at October 18, It Change Pass	2013 2:40 PM sword Log off admin
						Routing	× Home
Routing	Home / Elements / Routing / Dial	Patterns					
Domains							Help ?
Locations	Dial Pattern Details					Commit Car	ncel
Adaptations	General						
SIP Entities	* Patter	7200					
Entity Links	* Mii						
Time Ranges							
Routing Policies	* Max						
Dial Patterns	Emergency Cal	I:					
Regular Expressions	Emergency Priority	1					
Defaults	Emergency Type	:					
	SIP Domain	avaya.com	*				
	Note	5:					
	Originating Locations and Rou Add Remove	ting Policies	5				
	1 Item Refresh	Originating	Douting		Douting		ter: Enable Routing
	Originating Location Name	Location Notes	Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination	Policy Notes
	-ALL-		Route2G450 via TLS			S8300D-G450 -TLS	
	Select : All, None						

7. Configure IPC Converged Communication Manager

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

- Launch Unigy Management System
- Administer SIP trunks
- Administer trunk groups
- Administer route lists
- Administer dial patterns
- Administer route plans

The configuration of Media Manager and/or Converged Communication Manager is typically performed by IPC installation technicians. The procedural steps are presented in these Application Notes for informational purposes.

7.1. Launch Unigy Management System

Access the UnigyV2 Management System web interface by using the URL "http://ip-address" in an Internet browser window, where "ip-address" is the IP address of the Media Manager. Log in using the appropriate credentials.

The screen below is displayed. Enter the appropriate credentials. Check **I agree with the Terms of Use**, and click **Login**.

In the subsequent screen (not shown), click **Continue**.

ungy	Password:		
	I agree with the	Terms of Use	
			Login

The following screen (Tools -> Monitoring) displays. Navigate to **Configuration** \rightarrow **Site** under the main menu.

iguration System Desi	signer Alerts Tool	s i About i	Help			23:2	4 EDT-0400	ipo
unigy.	Tools> Monito	oring						
ummary							Ś	
Instances				Locations				
Instance	Total Devices	Devices i	A	Location	Instance	Total	Devices in	1 🔻
Default Instance	6	0		Default Back Room	Default Instance	4	0	
				Default Front Roo	Default Instance	2	0	

7.2. Administer SIP Trunks

Select **Trunks** \rightarrow **SIP Trunks** in the left pane, and click the **Add** icon () in the lower left pane to add a new SIP trunk. Select "Dial Tone" from the **Select Connection Type** drop-down list.

Configuration System Designer Ale	rts Tools About Help	19:02 EDT-0400 ipctech
	figuration> Sites	
Instance: All Instance Site Configuration: Location Location: All Locations	Select Connection Type:	
▼ Trunks SIP Trunks Alliance Trunks Media Gateways Communication Devices ▼		
SIP Trunks UI Name Last Used		
Unigy-IPO-TRK		

The screen below is displayed next. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Trunk Name: A descriptive name.
- **Destination Address:** IP address of the Session Manager signaling interface.
- **Destination Port:** The port number from **Section 6.5.1**.

"SIP"

"Avaya"

- **Zone:** An available zone, in this case "Default Zone 1".
- Channels: The number of SIP trunk group members from Section 5.3.
- Reason Protocol
- PBX Provider:
- Connected Party Update: "UPDATE"

Retain the default values in the remaining fields.

	figuration> Sites	
Instance: All Instance	Trunk: Unigy-SIP-TRK	Basic Advanced
Site Configuration: Location	DialTone Trunk Configuration	
Location: All Locations	Trunk Name * Unigy-SIP-TRK Connection Type Dial Tone Destination Address * 10.64.41.42 Destination Port * 5060 Media Manager Profile * Safe Zone * Default Zone 1 Channels 30 Reason Protocol * SIP PBX Provider * Avaya	
SIP Trunks	Connected Party Update * UPDATE Subscribe to MWI MWI Subscription Time Vendor A/B Side Distant End Name	
Unigy-IPO-TRK	PBX Trunk Group Reference Trunk Info ReINVITE For Media Update Options Supported Equipped	▼ Delete Revert Save

Select the Advance tab in the upper right. .Enter the following values for the specified fields, and retain the default values for the remaining fields.

• Diversion Header:

"History-Info. "UDP".

• Outgoing Transport Type:

	guration> Sites	
Instance: All Instance	Trunk: Unigy-SIP-TRK	Basic Advanced
Site Configuration:	DialTone Trunk Configuration	
Location: All Locations		
▼ Trunks	Trunk Name 🔹 Unigy-SIP-TRK	
SIP Trunks	Connection Type Dial Tone	v
Alliance Trunks	Destination Address 🔹 10.64.41.42	
Media Gateways ▶ Communication Devices	Destination Port * 5060	
Servers	Media Manager Profile 🔹 😽 Safe	·
▶ Media Service	Zone * Default Zone 1	v
Prototype Devices	Channels 30	
SNMP Forwarding	Reason Protocol * SIP	•
▶ Routing	PBX Provider * Avaya	•
	Connected Party Update 🔹 UPDATE	·
	Subscribe to MWI	
=	MWI Subscription Time 0	
SIP Trunks 🖶	Vendor	
UI Name Last Used	A/B Side	
	Distant End Name	
Unigy-SIP-TRK	PBX Trunk Group Reference	
Unigy-IPO-TRK	Trunk Info	
	Diversion Header * History-Info	·
	Indicate PRACK Support	
	Outgoing Transport Type 🔹 UDP	·
	ReINVITE For Media Update 🗹	
	Options Supported	▼

7.3. Administer Trunk Groups

Select **Routing** \rightarrow **Trunk Groups** in the left pane, and click the **Add** icon (\square) in the lower left pane to add a new trunk group.

The **Trunk Group** screen is displayed in the right pane. In the **Properties** tab, enter a descriptive **Name**, select "Default Zone 1" for the **Zone** field, select "Ascending" for the **Distribution Algorithm** field, and click **Save** (not shown). Select the **Trunks** tab in the right pane.

	uration> Sites
Instance: All Instance	Trunk Group: SIP-SM-TG
Site Configuration:	Properties Trunks
Location: All Locations Trunks SIP Trunks Alliance Trunks Media Gateways Communication Devices Servers	Name * SIP-SM-TG Zone * Default Zone 1 Distribution Algorithm * Ascending Capacity Alarm Threshold 80 Type * DialTone
Media Service Prototype Devices SNMP Forwarding Routing Trunk Groups Trunk Groups Trunk Groups	
Trunk Groups Zone Name TDM Recording_ Default Zone 1 SIP-IPO-TG Default Zone 1	

The screen is updated with three panes. In the rightmost pane, select the Trunks tab to display a list of trunks. Select the SIP trunk from **Section 7.2** in the rightmost pane and drag to the middle pane as shown below. Click Save.

Configuration System Designer Alert	s Tools About Help			23:36 EDT-0400 ipctech
	juration> Sites			
Instance: All Instance	Trunk Group: SIP-SM-TG		Available to	Assign
Site Configuration: Location	Properties Trunks		Trunks M	IG Trunks
Location: All Locations	Name	Channels	Name	Channels
SNMP Forwarding	Unigy-SIP-TRK	30		
▼ Routing				
Trunk Groups				
Route Lists		III		
Dial Patterns				
Trunk Groups Zone Name				
TDM Recording_ Default Zone 1				
SIP-SM-TG Default Zone 1	Remove	vert Save		

7.4. Administer Route Lists

Select **Routing** \rightarrow **Route Lists** in the left pane, and click the **Add** icon () in the lower left pane to add a new route list.

The **Route List** screen is displayed in the middle pane. For **Route List**, enter a descriptive name. In the right pane, select the trunk group from **Section 7.3** and drag into the **Assigned Trunk Groups on Route List** sub-section in the middle pane, as shown below. Click **Save**.

Configuration System Designer Alert	s Tools About Help	19:15 EDT-0400 ipctech
	guration> Sites	
Instance: All Instance	Route List : Route List	Available to Assign
Site Configuration:		Trunk Groups
Location: All Locations	Route List * SIP-SM-RL	Trunk Groups
Routing Trunk Groups Route Lists Dial Patterns Route Plans Trunk Dial Plans Route Lists	Description Instance * Default Instance Type * DialTone Alliance Site Id Assigned Trunk Groups on Route List. You can remove or add Trunk G	TDM Recording_DoNotChange SIP-SM-TG SIP-IPO-TG
Name Instance Name SIP-IPO-RL Default Instance	SIP-SM-TG Revert Delete Save	

7.5. Administer Dial Patterns

Select **Routing** \rightarrow **Dial Patterns** in the left pane, to display the **Dial Patterns** screen in the right pane. Click **Add New** in the upper right pane.

In the **Dial pattern Details** sub-section in the lower right pane, enter the desired **Name** and **Description**. For **Pattern String**, enter the dial pattern to match for Avaya endpoints, in this case "*" meaning any digits will be sent to Session Manager. Click **Save**. Once the **Save** button is clicked, the newly created Dial pattern should be displayed under the Dial Patterns section.

Configuration System Designer Alerts	I Tools I Abo	out I Help			23:39 EDT-0400 ipctech
	uration> Sites				
Instance: All Instance	Dial Patterns				
Site Configuration: Location	Name	Pattern String	Description	Zone Name	
Location: All Locations					
Trunks					
SIP Trunks					
Alliance Trunks					
Media Gateways					
Communication Devices					Add New Delete
▶ Servers				=	
▶ Media Service	Dial pattern	Details			
▶ Prototype Devices					
SNMP Forwarding	Properties				
▼ Routing					
Trunk Groups	Name	* All Dial Patter	'n		
Route Lists	Zone	* Default Zone	• 1 🔍		
Dial Patterns	Description				
Route Plans	Description	* all			
Trunk Dial Plans	Pattern String	* *			
Trunk Dial Plan Rules					
					Revert Save

Repeat this section to add another dial pattern to reach the PSTN, and include any required prefix by Avaya Aura® Communication Manager.

7.6. Administer Route Plans

Select **Routing** \rightarrow **Route Plans** in the left pane, and click **Add New** (not shown) in the right pane to create a new route plan.

The screen is updated with three panes, as shown below. In the **Route Plan** middle pane, enter a descriptive **UI Name** and optional **Description**. For **Calling Party**, enter "*" to denote any calling party from UnigyV2. For **Destination** select the dial pattern for Avaya endpoints from **Section 7.5**. Select "Forward" for **Action**, and click **Save**.

Configuration System Designer Ale	rts Tools About Help	23:46 EDT-0400 ipctech
	iguration> Sites	
Instance: All Instance	Route Plan	Available to Assign
Site Configuration:	Create New Route Plan	Route Lists
Location: All Locations	UI Name * Route2SM Description Calling Party * Destination * Action * Forward Route List: Back Revert Save Assign Trunk Groups	Vame TDM Recording_DoNotChange SIP-SM-RL SIP-IPO-RL

The screen is updated with the newly created route plan. Select the route plan, and click **Edit** toward the bottom of the screen.

Configuration I System Designer I Alerts	I Tools I Ab	out I Help			23:56 EDT-0400 ipctech
LIIGY. Config	uration> Sites				
Instance: All Instance	Route Plan				
Site Configuration:	List of Route Plans	5			
Location: All Locations	UI Name	Calling Party	Destination	Action	Instance Name
▶ Trunks	Route2MM	*	*	FORWARD	Default Instance
Communication Devices	Route2IPO	*	*	FORWARD	Default Instance
▶ Servers	Route2SM	*	*	FORWARD	Default Instance
▶ Media Service					
Prototype Devices					
SNMP Forwarding					
▼ Routing					
Trunk Groups					
Route Lists					
Dial Patterns					
Route Plans					
Trunk Dial Plans			Delete	Add New R	Save Sequence Change
Trunk Dial Plan Rules	Route Plan De	etails			
	Calling Party :	*			
	Destination :	*			~
	Action :	FORWARD			
	RouteList:				
	Trunk Group:				
					Edit

The screen is updated with three panes again, as shown below. In the right pane, select the route list from **Section 7.4** and drag into the **Route List** sub-section in the middle pane, as shown below. Click **Save**.

Configuration System Designer Alert	s Tools About Help	23:53 EDT-0400 ipctech
	guration> Sites	
Instance: All Instance	Route Plan	Available to Assign
Site Configuration: Location	Create New Route Plan	Name
Location: All Locations ▼	UI Name * Route2SM	
Communication Devices	Description	TDM Recording_DoNotChange SIP-SM-RL
► Servers	Calling Party * *	SIP-IPO-RL
Media Service Prototype Devices	Destination * *	
SNMP Forwarding	Action * Forward V	
▼ Routing Trunk Groups	Route List:	
Route Lists	SIP-SM-RL	
Dial Patterns		
Route Plans Trunk Dial Plans		
Trunk Dial Plan Rules	Rem	
	Back Revert Save	
=		

8. Verification Steps

This section provides tests that can be performed to verify proper configuration of Avaya Aura® Communication Manager, Avaya Aura® Session Manager, and IPC UnigyV2.

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 92
                                          TRUNK GROUP STATUS
                                                  Mtce Connected Ports
Member Port Service State
                                                    Busv
0092/001 T00135 in-service/idle no
0092/002 T00136 in-service/idle
0092/003 T00137 in-service/idle
0092/004 T00138 in-service/idle
0092/005 T00139 in-service/idle
0092/006 T00140 in-service/idle
0092/007 T00141 in-service/idle
                                                    no
                                                    no
                                                     no
                                                     no
                                                     no
                                                     no
0092/008 T00142 in-service/idle
                                                     no
0092/009 T00143 in-service/idle
                                                     no
0092/010 T00144 in-service/idle
                                                     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 signaling group is "in-service" as indicated in the **Group State** field shown below.

```
status signaling-group 92
STATUS SIGNALING GROUP
Group ID: 92
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 on the IPC entity name from **Section 6.4.1**.

avaya		Avaya Aura	a® Syste	em Mar	nager 6.	3		gged on at October About Change P		
				Ses	sion Manager	× Rou	uting ×	Session Manage	r ×	Home
Session Manager	Hom	ie / Elements / Ses	sion Manag	ger / Syste	m Status / S	IP Entity	Monitori	ng		
Dashboard										Help
Session Manager	SIP	Entity Link	Monito	ring Sta	itus Sun	nmary	,			
Administration	This p	age provides a summa	ary of Sessio	n Manager S	IP entity link					
Communication Profile	monito	oring status.								
Editor	SI	P Entities Status f	or All Mon	itorina Ses	sion Manag	er Insta	inces			
Network Configuration	_									
Device and Location	F	Run Monitor								
Configuration	11	tems Refresh						F	Filter: B	Inable
Application						Phase 2	and Friday			
Configuration		Session Manager	Туре			Monite	ored Entities	5		
System Status		Session Manager	Type	Down	Partially Up	Up	Not Monito	red Deny	Т	tal
SIP Entity Monitoring		SM63	Core	3	2	6	0	0	11	
Managed Bandwidth	_									
Usage										
Security Module										
Status										
Registration										
Summary										
User Registrations	Se	lect: All, None								
Session Counts		Maniferral OTC T								
System Tools	All	Monitored SIP Er	itities							
Performance	F	Run Monitor								
									- 1.	
	11	Items Refresh						F	Filter: E	nable
					SIP Entity Nam	ie				
		S8300D-G450-TLS								
		S8300D-G450-TCP								
		IPC Unigy HA								

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

AVAYA	Avaya Aura [®] System Manager 6.3 Help About Change Password Log adm							
			5	Session Manag	jer [×] Rou	ting ×	Session Manage	r × Home
Session Manager	Home / Elements /	Session Man	ager / Sy	stem Status ,	/ SIP Entity	Monitori	ıg	
Dashboard								Help
Session Manager	SIP Entity, Ei	ntity Linl	(Conn	ection S	tatus			
Administration	This page displays deta	iled connection	status for	all entity links f	from all			
Communication Profile	Session Manager instances to a single SIP entity.							
Editor	All Entity Links to SIP Entity: IPC Unigy HA							
Network Configuration								
Device and Location	Status Details for the selected Session Manager:							
Configuration	Summary View							
Application								
Configuration	2 Items Refresh						F	ilter: Enable
System Status	Session Manager I	SIP Entity				Conn.	Reason	Link
SIP Entity Monitoring		Resolved IP	Port	Proto.	Deny	Status	Code	Status
Managed Bandwidth	◯ <u>SM63</u>	10.64.49.2	5060	ТСР	FALSE	UP	200 OK	UP
Usage	O <u>SM63</u>	10.64.49.2	5060	UDP	FALSE	UP	200 OK	UP
Security Module								
Status								
Registration								
Summary								
User Registrations								
Session Counts								
System Tools								
Performance								

8.3. Verify IPC UnigyV2

Make a call from an IPC turret user to an Avaya endpoint. Verify that the call can be connected with two-way talk paths.

9. Conclusion

These Application Notes describe the configuration steps required for IPC UnigyV2 to successfully interoperate with Avaya Aura® Communication Manager 6.3 using Avaya Aura® Session Manager 6.3. 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*, Document 03-300509, Release 6.3, May 2013, available at <u>http://support.avaya.com</u>.
- 2. Administering Avaya Aura® System Manager, Release 6.3, Issue 3, October 2013, available at http://support.avaya.com
- **3.** *UnigyV2 1.1 System Configuration*, Part Number B02200187, Release 00, upon request to IPC Support.

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