

Avaya Solution & Interoperability Test Lab

Application Notes for IPC UnigyV2 with Avaya Aura® Communication Manager 6.01 and Avaya Aura® Session Manager 6.2 using SIP Trunks – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for IPC UnigyV2 to interoperate with Avaya Aura® Communication Manager 6.0.1 and Avaya Aura® Session Manager 6.2 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 calls, display, G.711MU/ G.729, codec negotiation, 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, TCP protocol must be configured on Avaya Session Manager as UnigyV2 switches over to use TCP for diversions.
- During the compliance test, Network Call Redirection (REFER) was disabled on the SIP trunk between Communication Manager6.0.1 and Session Manager 6.2.

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. For compliance testing, a single 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 for dialing between Central and Remote sites. Unique extension ranges were associated with Avaya Aura® Communication Manager users at the Central site (4200x and 4202x), and IPC turret users at the Remote site (7205x).

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

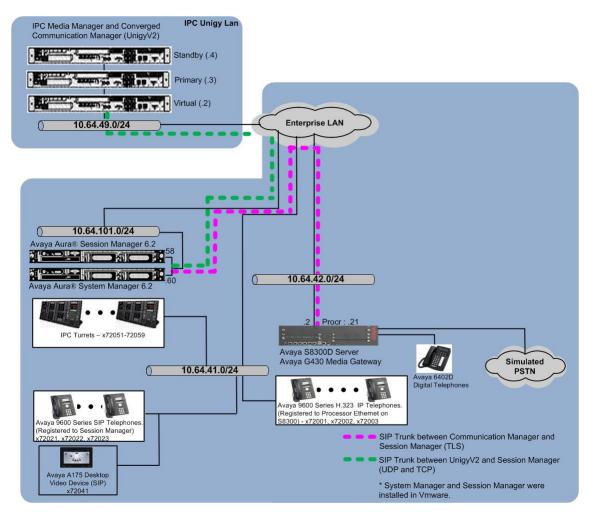


Figure 1: Test Configuration of IPC UnigyV2

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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.00.1.510.1-19940			
Avaya G430 Media Gateway	31.26			
Avaya Aura® Session Manager	6.2.3.0.623006			
Avaya Aura® System Manager	6.2.12.9			
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 Converged Communication Manager 	02.00.00.00.1888 02.00.00.00.1888			

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 configuration 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					
IP PORT CAPACITIES		USED			
Maximum Administered H.323 Trunks:	12000	0			
Maximum Concurrently Registered IP Stations:	18000	2			
Maximum Administered Remote Office Trunks:	12000	0			
Maximum Concurrently Registered Remote Office Stations:	18000	0			
Maximum Concurrently Registered IP eCons:	414	0			
Max Concur Registered Unauthenticated H.323 Stations:	100	0			
Maximum Video Capable Stations:	18000	0			
Maximum Video Capable IP Softphones:	18000	0			
Maximum Administered SIP Trunks:	24000	20			
Maximum Administered Ad-hoc Video Conferencing Ports:	24000	0			
Maximum Number of DS1 Boards with Echo Cancellation:	522	0			

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5.2. Administer System Parameters Features

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

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.

```
1 of 19
change system-parameters features
                                                               Page
                           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: attd
    Internal Auto-Answer of Attd-Extended/Transferred Calls: transferred
                 Automatic Circuit Assurance (ACA) Enabled? n
   Display Calling Number for Room to Room Caller ID Calls? n
```

5.3. Administer SIP Trunk Group

Use the "add trunk-group n" command, where "n" is an available trunk group number, in this case "60". 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 60		Page 1 of 21	
	TRUNK GROUP		
Group Number: 60	Group Type: sip	CDR Reports: y	
Group Name: To SM62	COR: 1	TN: 1 TAC: 1060	
Direction: two-way	Outgoing Display? n		
Dial Access? n	Nigh	t Service:	
Queue Length: 0			
Service Type: tie	Auth Code? n		
	Member A	ssignment Method: auto	
		Signaling Group: 60	
	N	lumber of Members: 10	
			_

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

add trunk-group 60 Page 3 of 21 TRUNK FEATURES	
ACA Assignment? n Measured: none	
Maintenance Tests? y	
Numbering Format: private	
UUI Treatment: service-provider	
Replace Restricted Numbers? n	
Replace Unavailable Numbers? n	
Modify Tandem Calling Number: no	
Show ANSWERED BY on Display? v	

Navigate to **Page 4**, and set **Network Call Redirection** "n", since REFER doesn't work with IPC.

add trunk-group 60		Page	4 of	21
PROTOCOL VARI	ATIONS			
Mark Users as Phone?	У			
Prepend '+' to Calling Number?	n			
Send Transferring Party Information?	У			
Network Call Redirection?	n			
Send Diversion Header?	n			
Support Request History?	У			
Telephone Event Payload Type:				
Convert 180 to 183 for Early Media?	n			
Always Use re-INVITE for Display Updates?	n			
Identity for Calling Party Display:	P-Asserted-Identity			
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 "60". Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Group Type:
- "sip" "tls"
- Transport Method:
- Near-end Node Name: An existing C-LAN node name or procr.
- 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: An existing network region for integration with IPC UnigyV2.

add signaling-group 60	Page 1 of 1
SIGNALING	GROUP
Group Number: 60 IMS Enabled? n Q-SIP? n IP Video? n Peer Detection Enabled? y Peer Server:	tls SIP Enabled LSP? n Enforce SIPS URI for SRTP? y
Near-end Node Name: procr Near-end Listen Port: 5061 Fa	Far-end Node Name: SM62 Far-end Listen Port: 5061 ar-end Network Region: 1
Far-end Domain:	
Incoming Dialog Loopbacks: eliminate DTMF over IP: rtp-payload Session Establishment Timer(min): 3 Enable Layer 3 Test? y H.323 Station Outgoing Direct Media? n	Bypass If IP Threshold Exceeded? n RFC 3389 Comfort Noise? n Direct IP-IP Audio Connections? y IP Audio Hairpinning? n Initial IP-IP Direct Media? n 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 0**.

For **Authoritative Domain**, enter "avaya.com". Enter a descriptive **Name**. For **Codec Set**, enter an available codec set number for integration with IPC UnigyV2.

```
change ip-network-region 1
                                                                     Page 1 of 20
                                 IP NETWORK REGION
 Region: 1
Location:
                   Authoritative Domain: avaya.com
     FARAMETERSIntra-region IP-IP Direct Audio: yesCodec Set: 1Inter-region IP-IP Direct Audio: yes
   Name:
MEDIA PARAMETERS
   UDP Port Min: 2048
                                             IP Audio Hairpinning? n
   UDP Port Max: 3329
DIFFSERV/TOS PARAMETERS
Call Control PHB Value: 46
        Audio PHB Value: 46
        Video PHB Value: 26
```

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 the G.711 and G.729 codec variants, and requires the codec order on Avaya to match the codec order specified on IPC UnigyV2.

```
change ip-codec-set 1

IP Codec Set

Codec Set: 1

Audio Silence Frames Packet

Codec Suppression Per Pkt Size(ms)

1: G.711MU n 2 20

2: G.729B n 2 20

3:

4:
```

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 "60". 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 0**.
- FRL:
- A level that allows access to this trunk, with 0 being least restrictive.

chai	nge route-pat	ter	n 60					I	Page	1 of	3	
			Pattern 1	Number	r: 60	Pattern Name:	To SM	62				
				SCCAI	N? n	Secure SIP?	n					
	Grp FRL NPA	Pfx	Hop Toll	No.	Insei	rted				DCS/	IXC	
	No	Mrk	Lmt List	Del	Digit	ts				QSIG	, J	
				Dqts	2					Intw	T	
1:	60 0									n	user	
2:										n	user	
3:										n	user	
4:										n	user	
5:										n	user	
6:										n	user	
Ŭ.											aber	
	BCC VALUE	TSC	CA-TSC	TTC	BCIE	Service/Feature	- PARM	No.	Numbe	ring	LAR	
	0 1 2 M 4 W	100	Request		2012	001 (100) 104041			Forma	2		
	0 1 2 11 1 1		nequebe				Sul	baddre		0		
1.	yyyyyn	n		rest	+		Ju	Gadar			none	
		n		rest							none	
	y y y y y n											
	уууууп	n		rest							none	
	y y y y y n	n		rest							none	
	уууууп	n		rest							none	
6:	yyyyyn	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 0**. In the example shown below, all calls originating from a 5-digit extension beginning with 4200 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.

. 1		1 '			D 1		0
cna	nge private-num	2			2	of	Z
		NU	MBERING - PRIVATE	FORMAI			
Ext	Ext	Trk	Private	Total			
-	Code	Grp(s)	Prefix	Len			
цеп		Grb(s)	FIELTY				
5	4200	60		5	Total Administered:	2	
5	4200	92		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 unifor	rm-dialplan O			Page 1 of 2
	UNI	FORM DIAL PL	AN TABLE	
				Percent Full: 0
Matching		Insert	Node	
Pattern	Len Del	Digits	Net Conv Num	
1303	11 0		ars n	
7200	5 0		aar n	
7202	5 0		aar n	
7204	5 0		aar n	
7205	5 0		aar n	
			n	

5.10. Administer AAR Analysis

Use the "change aar analysis 0" 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 "60" from **Section 0**.

change aar analysis O						Page 1 of 2
	P	AR DI	GIT ANALYS	SIS TABI		
			Location:	all		Percent Full: 1
		_				
Dialed	Tot	al	Route	Call	Node	ANI
String	Min	Max	Pattern	Type	Num	Reqd
2	7	7	999	aar		n
3	7	7	999	aar		n
4	7	7	999	aar		n
5	7	7	999	aar		n
6	7	7	999	aar		n
7200	5	5	92	aar		n
7202	5	5	60	aar		n
7204	5	5	92	aar		n
7205	5	5	60	aar		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 ACA Assignment? n Measured: none Internal Alert? n Maintenance Tests. , Data Restriction? n NCA-TSC Trunk Member: y Send Name: y Send Calling Number: y Send EMU Visitor CPN? y TRUNK FEATURES 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: n 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-calli	Page 1 of	8				
		Outgoing				
CPN	Number	Trk			Number	
Len Prefix	Format	Grp(s)	Delete	Insert	Format	
5 7205		80		3035383547	pub-unk	

6. Configure Avaya Aura® Session Manager

For the compliance test, Session Manager and System manager were installed and configured using VMware. The installation steps of the VMware, System manager, and Session Manager are not part of Application Notes and will not be discussed. An assumption is made that basic configurations in System Manager are already completed.

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

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

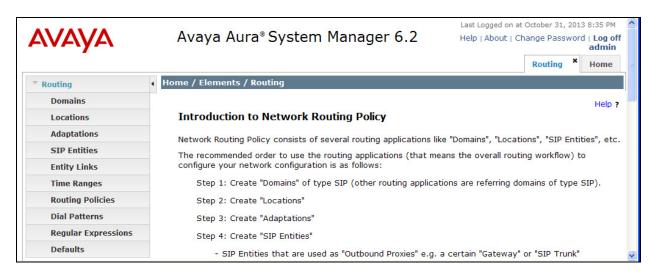
6.1. Launch System Manager

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

AVAYA	Avaya Aura [®] System Manager 6.2
Home / Log On	
Log On	
Recommended access to Sys Manager is via FQDN. <u>Go to central login for Single</u> <u>On</u> If IP address access is your o option, then note that authentication will fail in the	Sign- User ID: Password:
following cases:	Log On Cancel
 First time login with "a account Expired/Reset passwo 	Change Password

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.



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. The following shows the location for Communication Manager 6.01.

After the changes, click the **Commit** button.

Repeat these steps to add other locations.

AVAYA	Avaya Aura® System	Manager 6.2	Last Logged on at December 24, 2013 10:39 AM Help About Change Password Log of admin				
				Routing * Home			
Routing	Home / Elements / Routing / Location	ns					
Domains				Help ?			
Locations	Location Details			Commit Cancel			
Adaptations							
SIP Entities	General						
Entity Links	* Name:	UnigyV2					
Time Ranges	Notes:	Uigy V2 system					
Routing Policies							
Dial Patterns	Overall Managed Bandwidth						
Regular Expressions	Managed Bandwidth Units:	Kbit/sec 💙					
Defaults	Total Bandwidth:						
	Multimedia Bandwidth:						
	Audio Calls Can Take Multimedia Bandwidth:	V					

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6.3. Administer Adaptations

For this compliance test, no adaptation was utilized.

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:
- Location: Select the IPC location name from Section 6.2.
- **Time Zone:** Select the applicable time zone.

"Other"

A\ /A\ /A	Avera Aura® Evetera	Managar 6 2		at October 31, 201	
AVAYA	Avaya Aura® System	Manager 6.2	Help About 0	Change Passwor	d Log off admin
				Routing *	Home
v Routing	Home / Elements / Routing / SIP Ent	ities			
Domains					Help ?
Locations	SIP Entity Details			Comm	it Cancel
Adaptations	General				
SIP Entities	* Name:	UnigyV2-HA			
Entity Links	* FQDN or IP Address:				
Time Ranges		Other			
Routing Policies		ourier			
Dial Patterns	Notes:				
Regular Expressions	Adaptation:	×			
Defaults	Location:				
	Time Zone:	America/Denver	*		
	Override Port & Transport with DNS SRV:	5			
	* SIP Timer B/F (in seconds):	4			
	Credential name:				
	Call Detail Recording:	none 💌			
	CommProfile Type Preference:	~			
	SIP Link Monitoring				
	SIP Link Monitoring:	Use Session Manager Config	juration 💌		

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

AVAYA	Avaya Aura® System M		Last Logged on at Help About Ch		
				Routing *	Home
Routing	Home / Elements / Routing / SIP Entitie	25			
Domains					Help ?
Locations	SIP Entity Details			Com	mit Cancel
Adaptations	General				
SIP Entities	* Name: C	M601-TLS			
Entity Links	* FQDN or IP Address: 1	0.64.42.21			
Time Ranges	Туре:				
Routing Policies	Notes:				
Dial Patterns					
Regular Expressions	Adaptation:	*			
Defaults	Location:	04H26 💌			
	Time Zone: A	America/Denver	*		
	Override Port & Transport with DNS SRV:				
	* SIP Timer B/F (in seconds): 4				
	Credential name:				
	Call Detail Recording: n	ione 💌			
	SIP Link Monitoring SIP Link Monitoring: U	Jse Session Manager Configurat	ion 💌		

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, in this case "sm-10160".
Protocol: "UDP"
Port: "5060"
SIP Entity 2: The IPC entity name from Section 6.4.1.
Port: "5060"
Connection Policy Retain the default setting (trusted).

AVAYA	Avaya Aura	Avaya Aura [®] System Manager 6.2						
							Routing *	Home
* Routing	Home / Elements / R	outing / Entity L	inks					
Domains								Help ?
Locations	Entity Links						Comm	it Cancel
Adaptations								
SIP Entities								
Entity Links	1 Item Refresh		-		1	1		er: Enable
Time Ranges	Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connecti Policy	on Note
Routing Policies	* SM62-Unigy-UDP	* sm10160 💌	UDP 💌	* 5060	* UnigyV2-HA 💌	* 5060	Trusted	×
Dial Patterns	<u> </u>							>
Regular Expressions								
Defaults	* Input Required						Comm	it Cancel

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

AVAYA	Avaya Aura	Avaya Aura® System Manager 6.2						Last Logged on at October 31, 2013 8:35 PM Help About Change Password Log off admin			
• Routing	Home / Elements / Ro	uting / Entity Lin	ks				1	Routing ×	Home		
Domains	Entity Links	,,,,,,,,,,,,,,,						Commit	Help ?		
Adaptations SIP Entities											
Entity Links	1 Item Refresh							Filte	er: Enable		
Time Ranges	Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy	Notes			
Routing Policies	* SM62-Unigy-TCP	* sm10160 💌	TCP ⊻	* 5060	* UnigyV2-HA 🔽	* 5060	Trusted 💌				
Dial Patterns											
Regular Expressions	* Input Required							Commit	t Cancel		
Defaults								·			

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 "sm10160".
- **Protocol:** The signaling group transport method from **Section 0**.
- **Port:** The signaling group listen port number from **Section 0**.
- **SIP Entity 2:** The Communication Manager entity name from **Section 6.4.2**.
- **Port:** The signaling group listen port number from **Section 0**.
- **Connection Policy** Retain the default setting (trusted).

AVAYA	Avaya Aura	° System M	anager	6.2		Last Logged on at October 31, 2013 8:35 PM Help About Change Password Log off admin			
Routing	Home / Elements / Ro	utina / Entity Lini	(5				i	Routing ×	Home
Domains Locations Adaptations	Entity Links	,,						Com	Help ? mit) Cancel)
SIP Entities Entity Links	1 Item Refresh							Fi	lter: Enable
Time Ranges	Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy	Notes	
Routing Policies	* SM-CM601-TLS	* sm10160 💙	TLS 🔽	* 5061	* CM601-TLS 💌	* 5061	Trusted 💌		
Dial Patterns									
Regular Expressions Defaults	* Input Required							Com	mit 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.

AVAYA	Avaya Aura® System	Manager 6	.2		Help	-	-	ober 31, 2013 8:35 PM ord Log off admin
-							Ro	uting × Home
▼ Routing	Home / Elements / Routing / Routing	g Policies						
Domains								Help ?
Locations	Routing Policy Details							Commit Cancel
Adaptations								
SIP Entities	General							
Entity Links		* Name: Route2Uni	gyV2					
Time Ranges	E	Disabled:						
Routing Policies	*	Retries: 0						
Dial Patterns		Notes:						
Regular Expressions								
Defaults	SIP Entity as Destination							
	Select							
	Name	QDN or IP Address				Туре		Notes
		- 0.64.49.2				Other		
	Time of Day							
	Add Remove View Gaps/Overlaps							
	1 Item Refresh							Filter: Enable
	Ranking 1 Name 2	Mon Tue Wed	Thu Fi			Start Time	End Time	Notes
	0 24/7		V	/	V	00:00	23:59	Time Range 24/7
	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® Syst	em Man	ager 6.	2			He			ober 31, 2013 8:35 PM rd Log off admin
-									Ro	uting * Home
Routing	Home / Elements / Routing / R	outing Policie	s							
Domains										Help ?
Locations	Routing Policy Details									Commit Cancel
Adaptations										
SIP Entities	General									
Entity Links		* Name:	Route2CM6	501-TLS	5					
Time Ranges		Disabled:								
Routing Policies		* Retries:	0							
Dial Patterns		Notes:								
Regular Expressions										
Defaults	SIP Entity as Destination									
	Select									
	Name	FQDN or IP	Address					Туре	1	lotes
	CM601-TLS	10.64.42.21						СМ		
	Time of Day									
	Add Remove View Gaps/Ov	erlaps								
	1 Item Refresh								-	Filter: Enable
	Ranking 1 Name		ue Wed	Thu	Fri	Sat	Sun	Start Time	End Time	Notes
	0 24/7	×	× ×	V	1	×	V	00:00	23:59	Time Range 24/7
	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 (5).
- Max: The maximum number of digits to be matched (5).
- •
- 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® System Manager	6.2	Help	Last Logged on at October 31, 2013 8:35 PM b About Change Password Log off admin		
					Routing	* Home
Routing	Home / Elements / Routing / Dial Patterns					
Domains						Help ?
Locations	Dial Pattern Details				C	Commit Cancel
Adaptations						
SIP Entities	General					
Entity Links	* Pattern: 7205					
Time Ranges	* Min: 5					
Routing Policies	* Max: 5					
Dial Patterns	Emergency Call:					
Regular Expressions	Emergency Priority: 1					
Defaults	Emergency Type:					
	SIP Domain: -ALL-	*				
				_		
	Notes:					
	Originating Locations and Routing Policies					
	Add Remove					
	1 Item Refresh					Filter: Enable
	Originating Location Name 1 Originating Location Notes	Routing Policy Name	Rank 2 🛓	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes
	-ALL- Any Locations	Route2UnigyV2	0		UnigyV2-HA	
	Select : All, None					

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 "4200 (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® System Ma	nager (5.2	Help		Last Logged on at October 31, 2013 8:35 PM o About Change Password Log off admin		
-						Routing	× Home	
Routing	Home / Elements / Routing / Dial Pattern	5						
Domains							Help ?	
Locations	Dial Pattern Details					(Commit Cancel	
Adaptations								
SIP Entities	General							
Entity Links	* Patte	n: 4200						
Time Ranges	* M	in: 5						
Routing Policies	* Ma	ix: 5						
Dial Patterns	Emergency Ca	u:						
Regular Expressions	Emergency Priori							
Defaults								
	Emergency Ty							
	SIP Doma	in: -ALL-	~					
	Note	25:						
	Originating Locations and Routing F	olicies						
	Add Remove							
	1 Item Refresh				Dautiaa		Filter: Enable	
		inating ation Notes	Routing Policy Name	Rank 2 🔔	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes	
	ALL- Any	Locations	Route2CM601- TLS	0		CM601-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**.

uniqu	User Name: Password:		
	I agree with the	Terms of Use	
			Login
IPC Unigy™ Mar Unigy™ Version COP Version 02.0 © Copyright 201	02.00.00.05.0031	Inc. All rights re	served

7.2. Administer SIP Trunks

Navigate to **Configuration** \rightarrow **Site** (not shown) from the main menu at the top.

Select **Trunks** \rightarrow **SIP Trunks** in the left pane, and click the **Add** icon (P) 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 Alerts	∣ Tools ⊨ About ⊨ Help	22:55 EDT-0400	ipctech
Config	ation> Sites		
Instance: All Instance Site Configuration: Location Location: All Locations	Select Connection Type:		
Unigy-SIP-TRK 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.

A descriptive name.

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

"SIP"

"Avaya"

- An available zone, in this case "Default Zone 1".
- The number of SIP trunk group members from **Section 0**.
- Reason Protocol
- PBX Provider:

• Zone:

• Channels:

- Connected Party Update:
- Subscribe to MWI
- "UPDATE" Check the check box

Configuration System Designer Alerts	1 Tools 1 About 1 Help		22:58 EDT-0400 ipctech
LIGY. Configur	ation> Sites		
Instance: All Instance	frunk: Unigy-SIP-TRK-SM6	2	Basic Advanced
Site Configuration:	DialTone Trunk Configu	ration	A
Location: All Locations	Trunk Name	Unigy-SIP-TRK-SM62	
SIP Trunks	Connection Type	Dial Tone 🛛 🗸 🔻	
Alliance Trunks	Destination Address	* 10.64.101.60	
Media Gateways	Destination Port	* 5060	
Communication Devices Servers	Media Manager Profile	* Safe 🔍	
▶ Media Service	Zone	Befault Zone 1	
▶ Prototype Devices	Channels	30	
SNMP Forwarding	Reason Protocol	* SIP 🗸 🔻	
► Routing	PBX Provider	* Avaya 🔍	
	Connected Party Update	* UPDATE 🛛 🔻	
=	Subscribe to MWI	\checkmark	
SIP Trunks	MWI Subscription Time	0	
UI Name Last Used	Vendor		
	A/B Side		
Unigy-SIP-TRK	Distant End Name		
Unigy-IPO-TRK	PBX Trunk Group Reference		
Unigy-SIP-TRK-SM62	Trunk Info		

Select the **Advanced** tab on the upper right, and enter the following values for the specified fields:

- Diversion Header: "History Info"
- Outgoing Transport Type: "UDP"

Click Save.

Configuration System Designer Alerts	i i Tools i About i Help	22:58 EDT-0400 ipctech
UIGY. Config	uration> Sites	
Instance: All Instance	Trunk: Unigy-SIP-TRK-SM62	Basic Advanced
Site Configuration: Location	DialTone Trunk Configuration	
Location: All Locations		
▼ Trunks	Trunk Name * Unigy-SIP-TRK-SM62	
SIP Trunks	Connection Type Dial Tone	
Alliance Trunks	Destination Address * 10.64.101.60	
Media Gateways	Destination Port * 5060	
Communication Devices Servers	Media Manager Profile 🔹 Safe 🔍 👻	
Media Service	Zone * Default Zone 1 V	
▶ Prototype Devices	Channels 30	
SNMP Forwarding	Reason Protocol * SIP V	
► Routing		
	Connected Party Update * UPDATE Subscribe to MWI	
SIP Trunks	MWI Subscription Time 0	
	Vendor	
UI Name Last Used	A/B Side	
	Distant End Name	
Unigy-SIP-TRK	PBX Trunk Group Reference	
Unigy-IPO-TRK Unigy-SIP-TRK-SM62	Trunk Info	
Unigy-StP-TKK-SM02	Diversion Header 🔹 History-Info 🔍 🔻	
	Indicate PRACK Support	
	Outgoing Transport Type 🔹 UDP 🔍	
	ReINVITE For Media Update	
	Options Supported	v
		Delete Revert Save

7.3. Administer Trunk Groups

Select **Routing** \rightarrow **Trunk Groups** in the left pane, and click the **Add** icon () 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**. Select the **Trunks** tab in the right pane.

Configuration I System Designer I Alert	s Tools About Help	23:00 EDT-0400 ipctech
LIGY. Config	guration> Sites	
Instance: All Instance	Trunk Group:	
Site Configuration: Location	Properties Trunks	
Location: All Locations	Name * SIP-SM62-TG	
Prototype Devices SNMP Forwarding Routing	Zone * Default Zone 1 Distribution Algorithm * Ascending	
Trunk Groups	Capacity Alarm Threshold 80	
Route Lists Dial Patterns Poute Plans	Type * DialTone ▼	II.
Trunk Groups		
Trunk Groups Zone Name TDM Recording_ Default Zone 1		
SIP-IPO-TG Default Zone 1	Delete	Revert Save

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 I System Designer I Alerts	s i Tools i About i Help		2	3:03 EDT-0400 ipctech	
Config	uration> Sites				
Instance: All Instance	Trunk Group: SIP-SM62-TG		Available to As	ssign	
Site Configuration: Location	Properties Trunks		Trunks MG Trunks		
Location: All Locations	Name	Channels	Name	Channels	
Prototype Devices	Unigy-SIP-TRK-SM62	30			
SNMP Forwarding					
▼ Routing					
Trunk Groups					
Route Lists			II (
Dial Patterns					
Trunk Groups					
Trunk Groups Zone Name					
TDM Recording_ Default Zone 1					
SIP-SM-TG Default Zone 1					
SIP-IPO-TG Default Zone 1 👻	Remove	Revert 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 Aler	ts Tools About Help	23:07 EDT-0400 ipctech
	guration> Sites	
Instance: All Instance	Route List : Route List	Available to Assign
Site Configuration: Location		Trunk Groups
Location: All Locations	Route List * SIP-SM62-RL	Trunk Groups
▼ Routing Trunk Groups	Description	TDM Recording_DoNotChange SIP-SM-TG
Route Lists	Instance * Default Instance *	SIP-IPO-TG
Dial Patterns	Type * DialTone 🔻	SIP-SM62-TG
Route Plans	Alliance Site Id	
Trunk Dial Plans		III
Route Lists	Assigned Trunk Groups on Route List. You can remove or add Truni	
Name Instance Name	SIP-SM62-TG	
SIP-SM-RL Default Instance		
SIP-IPO-RL Default Instance	V	
	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**.

Configuration System Designer Alerts	I Tools I Ab	out I Help			23:08 EDT-0400 ipctech
	uration> Sites				
Instance: All Instance	Dial Patterns				
Site Configuration: Location	Name	Pattern String	Description	Zone Name	
Location: All Locations					
 Trunks Communication Devices Servers Media Service Prototype Devices SNMP Forwarding Routing Trunk Groups Route Lists Dial Patterns 	Dial pattern	Details			Add New Delete
Route Plans	Properties				
Trunk Dial Plans Trunk Dial Plan Rules	Name Zone Description Pattern String	* All Dial Patter * Default Zone * all 9 * *			
					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 Create New **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 Al	s Tools About Help	23:14 EDT-0400 ipctech
	guration> Sites	
Instance: All Instance	Route Plan	Available to Assign
Site Configuration: Location Location: All Locations	Create New Route Plan	Route Lists Name
 Trunks Communication Devices Servers Media Service Prototype Devices SNMP Forwarding Routing Trunk Groups Route Lists Dial Patterns Route Plans Trunk Dial Plan Rules 	UI Name * Route2SM62 Description Calling Party * * Destination * * Action * Forward Instance * Default Instance Route List: Route List: Route List: Save Back Revert Save	TDM Recording_DoNotChange SIP-SM-RL SIP-IPO-RL SIP-SM62-RL
=	Assign Trunk Groups	

The screen is updated with the newly created route plan. Select the route plan, and click Edit toward the bottom of the screen (not shown).

Configuration System Designer Alert	ts i Tools i Abo	out I Help			23:15 EDT-0400 ipctech
Confi	guration> Sites				
Instance: All Instance	Route Plan				
Site Configuration: Location	List of Route Plans				
Location: All Locations	UI Name	Calling Party	Destination	Action	Instance Name
Routing	Route2SM62	*	*	FORWARD	Default Instance
Route Lists Dial Patterns					
Route Plans					
Trunk Dial Plans					
Trunk Dial Plan Rules			Delete	Add New Re	Save Sequence Change

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 I System Designer I Alert	s I Tools I About I Help	23:17 EDT-0400 ipctech
	juration> Sites	
Instance: All Instance	Route Plan	Available to Assign
Site Configuration: Location	Create New Route Plan	Route Lists
Location: All Locations	UI Name * Route2SM62 Description Calling Party * * Destination * * Action * Forward • Route List: SIP-SM62-RL Revert Save •	Name TDM Recording_DoNotChange SIP-SM-RL SIP-IPO-RL SIP-SM62-RL
=		

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 0**. Verify that all trunks are in the "in-service/idle" state as shown below.

status ti	runk 60		
		TRUNK G	ROUP STATUS
Member	Port	Service State	Mtce Connected Ports Busy
0060/001 0060/002 0060/003 0060/004 0060/005 0060/006 0060/007 0060/008 0060/009 0060/010	T00065 T00066 T00067 T00068 T00069 T00070 T00071 T00072	<pre>in-service/idle in-service/idle in-service/idle in-service/idle in-service/idle in-service/idle in-service/idle in-service/idle in-service/idle</pre>	no no no no no no no no

Verify the status of the SIP signaling groups by using the "status signaling-group n" command, where "n" is the signaling group number administered in **Section 0**. Verify that the signaling group is "in-service" as indicated in the **Group State** field shown below.

```
status signaling-group 60
STATUS SIGNALING GROUP
Group ID: 60
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	A	vaya Aura® s	System Mar	nager 6.2	-	ged on at October 31, 2 ange Password Log (
-						Session Manager *	Home
Session Manager	Home	/ Elements / Sess	ion Manager / Sys	tem Status / SIP Entity M	Ionitoring		
Dashboard							Help ?
Session Manager Administration		-	_	tatus Summary			
Communication Profile Editor		ity Link Status fo	-				
Network Configuration	Run	Monitor					
 Device and Location Configuration 	1 Item	Refresh Session Manager Name	Entity Links Down/Total	Entity Links Partially Down	SIP Entities - Monitoring Started	Not SIP Entities - Monitored	Not
Application		<u>sm10160</u>	0/4	0	0	0	
Configuration	Select	: All, None					
System Status							
SIP Entity Monitoring	All I	Monitored SIP En	tities				
Managed Bandwidth	Run	Monitor					
Usage	4 Itor	ns Refresh Show ALI		Filter: Enable			
Security Module		SIP Entity Name	- <u> </u>	Filter. Enable			
Status		СМ601-ТСР					
Registration		CM601-TLS					
Summary		<u>MM52</u>					
User Registrations		UnigyV2-HA					
> System Tools	Select	: All, None					
Performance							

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

Session Manager Home / Elements / Session Manager / System Status / SIP Entity Monitoring Dashboard Session Manager Session Manager Administration Communication Profile This page displays detailed connection status for all entity links from all Session Manager instances to a single SIP entity. Network Configuration Summary View Device and Location 2 Items Refresh	og off adm	ogged on at October 31, nange Password Lo g				n Manager 6.2	ya Aura® Syster	Ava	AVAYA
Dashboard Session Manager Administration Communication Profile Editor Network Configuration Device and Location	× Hom	Session Manager							•
Session Manager SIP Entity, Entity Link Connection Status Administration This page displays detailed connection status for all entity links from all Session Manager instances to a single SIP entity. Communication Profile All Entity Links to SIP Entity: UnigyV2-HA Image: Summary View Summary View Device and Location 2 Items Refresh			ng	Monitori	P Entity	er / System Status / SIF	lements / Session Manag	∢ Home / E	Session Manager
Administration STF Entity, Entity Entity Connection Status Communication Profile Editor This page displays detailed connection status for all entity links from all Session Manager instances to a single SIP entity. Network Configuration Summary View Device and Location 2 Items Refresh	Help								Dashboard
Editor All Entity Links to SIP Entity: UnigyV2-HA Network Configuration Summary View Device and Location 2 Items Refresh		° entity.	nces to a single SIF	nager instar					Administration
Device and Location 2 Items Refresh						UnigyV2-HA	ty Links to SIP Entity:	All Enti	Editor
							nary View	Sumn	Network Configuration
Configuration Details Session Manager Name SIP Entity Resolved IP Port Proto. Conn. Status Reason Code I	Filter: Enab	F					efresh	2 Items R	Device and Location
	Link Status	Reason Code Li	Conn. Status	Proto.	Port	SIP Entity Resolved IP	Session Manager Name	Details	Configuration
▶ Application ▶ Show sm10160 10.64.49.2 5060 TCP Up 200 OK U	Jp	200 OK Up	Up	TCP	5060	10.64.49.2	<u>sm10160</u>	► Show	Application
	In		Up	UDP	5060	10.64.49.2	<u>sm10160</u>	► Show	
[™] System Status	op	200 ОК Up	•						

8.3. Verify IPC UnigyV2

Make a call from/to an IPC turret user to/from 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 6.01 using Avaya Aura® Session Manager 6.2. 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, Issue 6.0, Release 6.0, June 2010, available at <u>http://support.avaya.com</u>.
- **2.** *Administering Avaya Aura*® *Session Manager*, Document Number 03-603324, Release 6.2, July2012, available at <u>http://support.avaya.com</u>.
- **3.** *UnigyV2 1.1 System Configuration*, Part Number B02200187, Release 00, upon request to IPC Support.

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