



## **Avaya Solution & Interoperability Test Lab**

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# **Application Notes for IPC UnigyV2 with 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® 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 turrent 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 turrent 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, 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, the TCP protocol must be configured to be allowed on Avaya Session Manager as UnigyV2 switches over to use TCP for diversions.

## 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](mailto:systems.support@ipc.com)

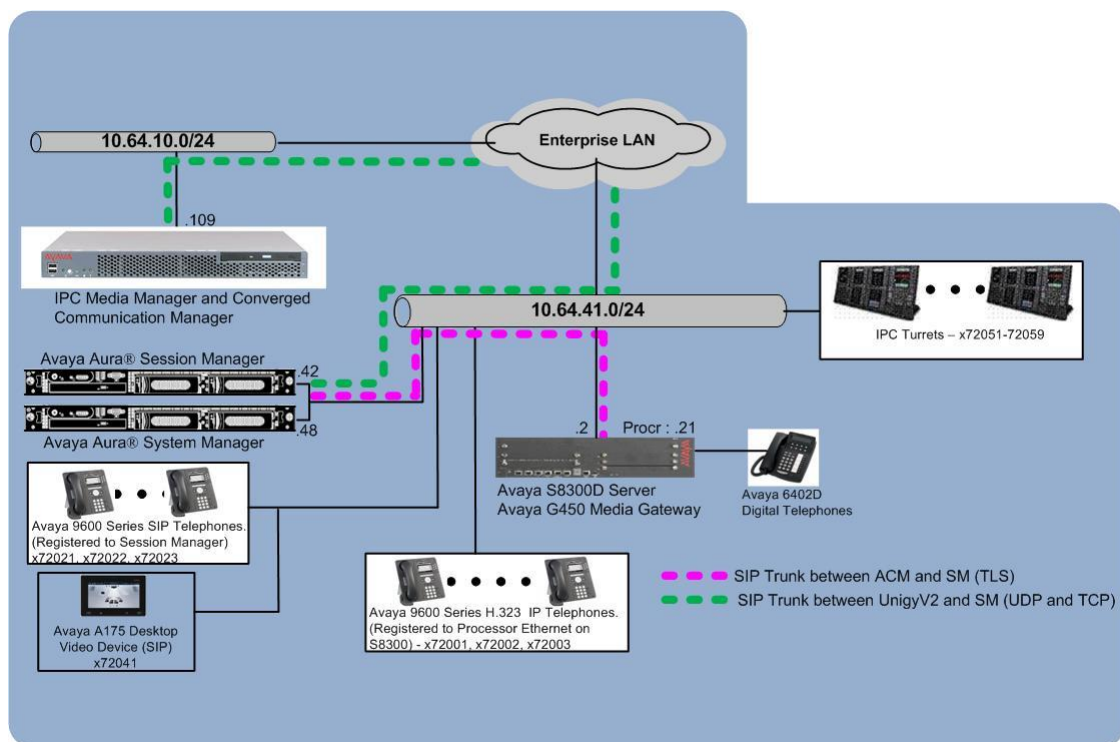
### 3. Reference Configuration

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.02.0.823.0-20001
Avaya G450 Media Gateway <ul style="list-style-type: none"><li>TN464HP DS1 Interface</li></ul>	HW02 FW024
Avaya Aura® Session Manager	6.2.2.0622005
Avaya Aura® System Manager	6.2.12.0
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 <ul style="list-style-type: none"><li>Media Manager</li><li>Converged Communication Manage</li><li>Turrets</li></ul>	02.00.00.00.1495 02.00.00.00.1495 02.00.00.00.1495

## 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.

change system-parameters customer-options		Page 2 of 11
OPTIONAL FEATURES		
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 Name: SM 41 42
      Direction: two-way
      Dial Access? n
      Queue Length: 0
      Service Type: tie
      Group Type: sip
      COR: 1
      Outgoing Display? y
      Auth Code? n
      CDR Reports: y
      TN: 1
      TAC: 1092
      Night Service:
      Member Assignment Method: auto
      Signaling Group: 92
      Number of Members: 10
```

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

```
display trunk-group 92                                     Page 3 of 21
TRUNK FEATURES
    ACA Assignment? n                                     Measured: none
                                                         Maintenance Tests? y

    Numbering Format: private
                                                         UII Treatment: service-provider
                                                         Replace Restricted Numbers? n
                                                         Replace Unavailable Numbers? n

    Modify Tandem Calling Number: no

Show ANSWERED BY on Display? y
```

Navigate to **Page 4**, and enter “101” for **Telephone Event Payload Type**.

```
display trunk-group 92                                     Page 4 of 21
                                                         PROTOCOL VARIATIONS

    Mark Users as Phone? y
    Prepend '+' to Calling Number? n
    Send Transferring Party Information? y
    Network Call Redirection? n
    Send Diversion Header? n
    Support Request History? y
    Telephone Event Payload Type:101

    Convert 180 to 183 for Early Media? n
    Always Use re-INVITE for Display Updates? n
    Identity for Calling Party Display: P-Asserted-Identity
    Block Sending Calling Party Location in INVITE? n
    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:** “sip”
- **Transport Method:** “tls”
- **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.

```
change signaling-group 92                                     Page 1 of 2
                                SIGNALING GROUP

Group Number: 92
IMS Enabled? n
Q-SIP? n
IP Video? y
Peer Detection Enabled? y
Peer Server: SM
Group Type: sip
Transport Method: tls
Priority Video? n
Enforce SIPS URI for SRTP? y

Near-end Node Name: procr
Near-end Listen Port: 5061
Far-end Node Name: SM-1
Far-end Listen Port: 5061
Far-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**, leave the field blank. Enter a descriptive **Name**. Enter “no” 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
                                                                IP NETWORK REGION
    Region: 1
    Location: 1      Authoritative Domain:
    Name:
MEDIA PARAMETERS      Intra-region IP-IP Direct Audio: no
    Codec Set: 1      Inter-region IP-IP Direct Audio: no
    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. The codec order shown below matched the default order on IPC UnigyV2.

change ip-codec-set 1

Page 1 of 2

IP Codec Set

Codec Set: 1

Audio Codec	Silence Suppression	Frames Per Pkt	Packet Size (ms)
1: G.711MU	n	2	20
2: G.729AB	n	2	20
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 0**.
- **FRL:** A level that allows access to this trunk, with 0 being least restrictive.

change route-pattern 92										Page 1 of 3		
Pattern Number: 92 Pattern Name: no IMS SIP trk												
SCCAN? n Secure SIP? n												
Grp	FRL	NPA	Pfx	Hop	Toll	No.	Inserted	DCS/ IXC				
No			Mrk	Lmt	List	Del	Digits	QSIG				
								Intw				
1:	92	0						n	user			
2:								n	user			
3:								n	user			
4:								n	user			
5:								n	user			
6:								n	user			
BCC VALUE		TSC	CA-TSC	ITC BCIE Service/Feature PARM				No. Numbering	LAR			
0	1	2	M	4	W	Request		Dgts Format				
								Subaddress				
1:	y	y	y	y	y	n	n	rest				none
2:	v	v	v	v	v	n	n	rest				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 72 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.

change private-numbering 0					Page 1 of 2
NUMBERING - PRIVATE FORMAT					
Ext Len	Ext Code	Trk Grp(s)	Private Prefix	Total Len	
5	72	92		5	Total Administered: 10
5	72	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-dialplan 0					Page 1 of 2
UNIFORM DIAL PLAN TABLE					
Percent Full: 0					
Matching Pattern	Len	Del	Insert Digits	Net Conv	Node Num
141044	11	0		ars	n
2	5	0		aar	n
20004	5	0		aar	n
33	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 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 “92” from **Section 0**.

change aar analysis 0							Page 1 of 2
AAR DIGIT ANALYSIS TABLE							
Location: all							Percent Full: 3
Dialed String	Total Min	Total Max	Route Pattern	Call Type	Node Num	ANI Reqd	
600	4	4	14	aar		n	
6000	5	5	92	unku		n	
7202	5	5	92	unku		n	
7204	5	5	92	unku		n	
7205	5	5	92	unku		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
TRUNK FEATURES		
ACA Assignment? n	Measured: none	Wideband Support? n
	Internal Alert? n	Maintenance Tests? y
	Data Restriction? n	NCA-TSC Trunk Member:
	Send Name: y	Send Calling Number: y
Used for DCS? n		Send EMU Visitor CPN? y
Suppress # Outpulsing? n	Format: natl-pub	
Outgoing Channel ID Encoding: preferred	UII IE Treatment: service-provider	
	Replace Restricted Numbers? n	
	Replace Unavailable Numbers? n	
	Send Connected Number: n	
Network Call Redirection: none	Hold/Unhold Notifications? n	
Send UII IE? y	Modify Tandem Calling Number: tandem-cpn-form	
Send UCID? n		
Send Codeset 6/7 LAI IE? y	Dsl Echo Cancellation? n	
Apply Local Ringback? n	US NI Delayed Calling Name Update? 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 7 and routed to trunk group 10 will result in a 10-digit calling number. For **Number Format**, use an applicable format, in this case “pub-unk”.

hange tandem-calling-party-num		Page 1 of 8			
CALLING PARTY NUMBER CONVERSION FOR TANDEM CALLS					
CPN	Incoming	Trk			Outgoing
Len Prefix	Number	Format	Delete	Insert	Number
		Grp(s)			Format
5	7205	80		3035383547	pub-unk

## 6. Configure Avaya Aura® Session Manager

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.

The screenshot shows the Avaya Aura System Manager 6.2 login interface. At the top left is the Avaya logo, and to its right is the text "Avaya Aura® System Manager 6.2". Below this is a red navigation bar with the text "Home / Log On". Underneath the bar is the heading "Log On". A horizontal line separates the header from the main content area. On the left side of the main area, there is a box containing the text "Recommended access to System Manager is via FQDN." followed by a blue link "Go to central login for Single Sign-On". Below this, it states "If IP address access is your only option, then note that authentication will fail in the following cases:" followed by a bulleted list: "• First time login with 'admin' account" and "• Expired/Reset passwords". To the right of this box are two input fields: "User ID:" and "Password:". Below these fields are two buttons: "Log On" and "Cancel". At the bottom right of the page, there is a link "Change Password".

## 6.2. Administer Locations

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

The screenshot displays the Avaya Aura System Manager 6.2 web interface. At the top, the Avaya logo is on the left, and the title 'Avaya Aura® System Manager 6.2' is in the center. On the right, it shows 'Last Logged on at September 19, 2012 2:14 PM' and links for 'Help', 'About', 'Change Password', and 'Log of admin'. Below the title bar, there is a breadcrumb trail 'Home / Elements / Routing' and a 'Routing' tab with a close button. The left sidebar contains a tree view with 'Routing' expanded, showing sub-items: Domains, Locations, Adaptations, SIP Entities, Entity Links, Time Ranges, Routing Policies, and Dial Patterns. The main content area is titled 'Introduction to Network Routing Policy' with a 'Help ?' link. The text explains that Network Routing Policy consists of several routing applications like 'Domains', 'Locations', 'SIP Entities', etc. It also provides a recommended order for configuration: Step 1: Create 'Domains' of type SIP (other routing applications are referring domains of type SIP), and Step 2: Create 'Locations'.

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** as shown below. Retain the default values in the remaining fields.

Avaya Aura® System Manager 6.2

Last Logged on at October 29, 2012 1:34 PM  
[Help](#) | [About](#) | [Change Password](#) | [Log off admin](#)

Routing

Domains

Locations

Adaptations

SIP Entities

Entity Links

Time Ranges

Routing Policies

Dial Patterns

Regular Expressions

Defaults

Home / Elements / Routing / Locations

Location Details

Commit

Cancel

Help ?

Call Admission Control has been set to ignore SDP. All calls will be counted using the Default Audio Bandwidth. Note: If this setting is disabled, you should return to this form to review settings for multimedia bandwidth. See Session Manager -> Session Manager Administration -> Global Settings

General

\* Name:

.10 subnet

Notes:

IPC system

Overall Managed Bandwidth

Managed Bandwidth Units:

Kbit/sec

Total Bandwidth:

Per-Call Bandwidth Parameters

\* Default Audio Bandwidth:

80

Kbit/sec

Alarm Threshold

Audio Alarm Threshold:

80

%

\* Latency before Audio Alarm Trigger:

5

Minutes

Location Pattern

Add

Remove

1 Item

Refresh

Filter: Enable

	IP Address Pattern	Notes
<input type="checkbox"/>	* 10.64.10.*	IPC system

### 6.3. Administer Adaptations

Select **Routing** → **Adaptations** from the left pane, and click **New** in the subsequent screen (not shown) to add a new adaptation for IPC.

The **Adaptation Details** screen is displayed. In the **General** sub-section, enter a descriptive **Adaptation name**. For **Module name**, select “DigitConversionAdapter”.

For **Module parameter**, enter “iodstd=avaya.com odst=ipc.com” where “avaya.com” and “ipc.com” are the applicable domain. This will set the source and destination domains for all incoming and outgoing calls for IPC.

AVAYA Avaya Aura® System Manager 6.2

Last Logged on at October 29, 2012 1:34 PM  
Help | About | Change Password | Log off admin

Routing \* Home

Home / Elements / Routing / Adaptations

Adaptation Details

General

\* Adaptation name: Unigy V2 Conversion

Module name: DigitConversionAdapter

Module parameter: fromto=true iodstd=avaya.com odst=ipc.com

Egress URI Parameters:

Notes:

Digit Conversion for Incoming Calls to SM

Add Remove

0 Items Refresh

Matching Pattern	Min	Max	Phone Context	Delete Digits	Insert Digits	Address to modify	Adaptation Data	Notes
------------------	-----	-----	---------------	---------------	---------------	-------------------	-----------------	-------

Digit Conversion for Outgoing Calls from SM

Add Remove

0 Items Refresh

Matching Pattern	Min	Max	Phone Context	Delete Digits	Insert Digits	Address to modify	Adaptation Data	Notes
------------------	-----	-----	---------------	---------------	---------------	-------------------	-----------------	-------

\* Input Required

Commit Cancel

## 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** → **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”
- **Adaptation:** Select the IPC adaptation name from **Section 6.3**.
- **Location:** Select the IPC location name from **Section 6.2**.
- **Time Zone:** Select the applicable time zone.

AVAYA Avaya Aura® System Manager 6.2

Last Logged on at October 29, 2012 1:34 PM  
[Help](#) | [About](#) | [Change Password](#) | [Log off admin](#)

**Routing** \* Home

Home / Elements / Routing / SIP Entities

**SIP Entity Details**

**General**

\* Name: IPC-Unigy V2

\* FQDN or IP Address: 10.64.10.109

Type: Other

Notes: Unigy System

Adaptation: Unigy V2-all

Location: .10 subnet

Time Zone: America/Fortaleza

Override Port & Transport with DNS SRV: ☐

\* 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 Configuration

### 6.4.2. Communication Manager SIP Entity

Select **Routing** → **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 Manager 6.2 Last Logged on at September 19, 2012 2:14 PM  
[Help](#) | [About](#) | [Change Password](#) | [Log off admin](#)

[Routing](#) \* [Home](#)

Home / Elements / Routing / SIP Entities

**SIP Entity Details** [Help ?](#)  
[Commit](#) [Cancel](#)

**General**

\* **Name:**

\* **FQDN or IP Address:**

**Type:**

**Notes:**

**Adaptation:**

**Location:**

**Time Zone:**

**Override Port & Transport with DNS SRV:** ☐

\* **SIP Timer B/F (in seconds):**

**Credential name:**

**Call Detail Recording:**

**SIP Link Monitoring**

**SIP Link Monitoring:**

## 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** → **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 “BR110-SM”.
- **Protocol:** “UDP”
- **Port:** “5060”
- **SIP Entity 2:** The IPC entity name from **Section 6.4.1**.
- **Port:** “5060”
- **Trusted:** Retain the check.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left navigation pane has 'Entity Links' selected under the 'Routing' section. The main content area shows the 'Entity Links' screen with a table containing one item. The table has columns: Name, SIP Entity 1, Protocol, Port, SIP Entity 2, Port, Connection Policy, and Notes. The item in the table is 'SM-IPC-UDP', 'SessionManager', 'UDP', '5060', 'IPC-Unigy V2', '5060', 'Trusted'. There are 'Commit' and 'Cancel' buttons at the bottom right. A message '\* Input Required' is displayed at the bottom left.

Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy	Notes
* SM-IPC-UDP	* SessionManager	UDP	* 5060	* IPC-Unigy V2	* 5060	Trusted	

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

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left navigation pane has 'Entity Links' selected under the 'Routing' section. The main content area shows the 'Entity Links' screen with a table containing one item. The table has columns: Name, SIP Entity 1, Protocol, Port, SIP Entity 2, Port, Connection Policy, and Notes. The item in the table is 'SM-IPC-TCP', 'SessionManager', 'TCP', '5060', 'IPC-Unigy V2', '5060', 'Trusted'. There are 'Commit' and 'Cancel' buttons at the bottom right. A message '\* Input Required' is displayed at the bottom left.

Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy	Notes
* SM-IPC-TCP	* SessionManager	TCP	* 5060	* IPC-Unigy V2	* 5060	Trusted	

## 6.5.2. Communication Manager Entity Links

Select **Routing** → **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 “BR110-SM”.
- **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**.
- **Trusted:** Retain the check.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left navigation pane is expanded to 'Routing', and 'Entity Links' is selected. The main content area shows the 'Entity Links' configuration page. At the top, there is a breadcrumb trail: 'Home / Elements / Routing / Entity Links'. Below this, there is a 'Help ?' link and 'Commit' and 'Cancel' buttons. The main table displays a list of entity links. The first row is highlighted and contains the following data: Name: SM-S8300D-TLS, SIP Entity 1: SessionManager, Protocol: TLS, Port: 5061, SIP Entity 2: S8300D, Port: 5061, Connection Policy: Trusted, and Notes: (empty). Below the table, there is a '\* Input Required' message and 'Commit' and 'Cancel' buttons.

Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy	Notes
* SM-S8300D-TLS	* SessionManager	TLS	* 5061	* S8300D	* 5061	Trusted	

## 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** → **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 Aura® System Manager 6.2

Last Logged on at September 19, 2012 2:14 PM  
Help | About | Change Password | Log off admin

Routing \* Home

Home / Elements / Routing / Routing Policies

Routing Policy Details

Help ?  
Commit Cancel

General

\* Name: To IPC Turrets

Disabled: ☐

\* Retries: 0

Notes:

SIP Entity as Destination

Select

Name	FQDN or IP Address	Type	Notes
IPC-Unigy V2	10.64.10.109	Other	Unigy System

Time of Day

Add Remove View Gaps/Overlaps

1 Item Refresh Filter: Enable

Ranking	Name	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start Time	End Time	Notes
0	24/7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	00:00	23:59	

Select : All, None

## 6.6.2. Communication Manager Routing Policy

Select **Routing** → **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 Aura® System Manager 6.2

Last Logged on at September 19, 2012 2:14 PM  
Help | About | Change Password | Log off admin

Routing \* Home

Home / Elements / Routing / Routing Policies

Routing Policy Details

General

\* Name:

Disabled: ☐

\* Retries:

Notes:

SIP Entity as Destination

Select

Name	FQDN or IP Address	Type	Notes
S8300D	10.64.41.21	CM	

Time of Day

Add Remove View Gaps/Overlaps

1 Item Refresh Filter: Enable

<input type="checkbox"/>	Ranking 1 ▲	Name 2 ▲	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start Time	End Time	Notes
<input type="checkbox"/>	0	24/7	✓	✓	✓	✓	✓	✓	✓	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** → **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:** The Communication Manager domain name from **Section 3**.
- **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 Aura® System Manager 6.2

Last Logged on at September 19, 2012 2:14 PM  
Help | About | Change Password | Log off admin

Routing \* Home

Home / Elements / Routing / Dial Patterns

Dial Pattern Details

General

\* Pattern: 7205

\* Min: 5

\* Max: 5

Emergency Call: ☐

Emergency Priority: 1

Emergency Type:

SIP Domain: avaya.com

Notes: IPC Unigie-Phones

Originating Locations and Routing Policies

Add Remove

1 Item Refresh

<input type="checkbox"/>	Originating Location Name 1	Originating Location Notes	Routing Policy Name	Rank 2	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes
<input type="checkbox"/>	-ALL-	Any Locations	To IPC Turrets	0	<input type="checkbox"/>	IPC-Unigie V2	

Select : All, None

## 6.7.2. Communication Manager Dial Pattern

Select **Routing** → **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 “7202” (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 Manager 6.2 Last Logged on at September 19, 2012 2:14 PM  
[Help](#) | [About](#) | [Change Password](#) | [Log off admin](#)

**Routing** \* **Home**

Home / Elements / Routing / Dial Patterns

**Dial Pattern Details** [Help ?](#)  
[Commit](#) [Cancel](#)

**General**

\* Pattern: 7202

\* Min: 5

\* Max: 5

Emergency Call: ☐

Emergency Priority: 1

Emergency Type:

SIP Domain: -ALL-

Notes:

**Originating Locations and Routing Policies**

[Add](#) [Remove](#)

1 Item [Refresh](#) Filter: [Enable](#)

<input type="checkbox"/>	Originating Location Name <sup>1</sup> ▲	Originating Location Notes	Routing Policy Name	Rank <sup>2</sup> ▲	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes
<input type="checkbox"/>	-ALL-	Any Locations	To S8300D	0	<input type="checkbox"/>	S8300D	Route to S8300D

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**.

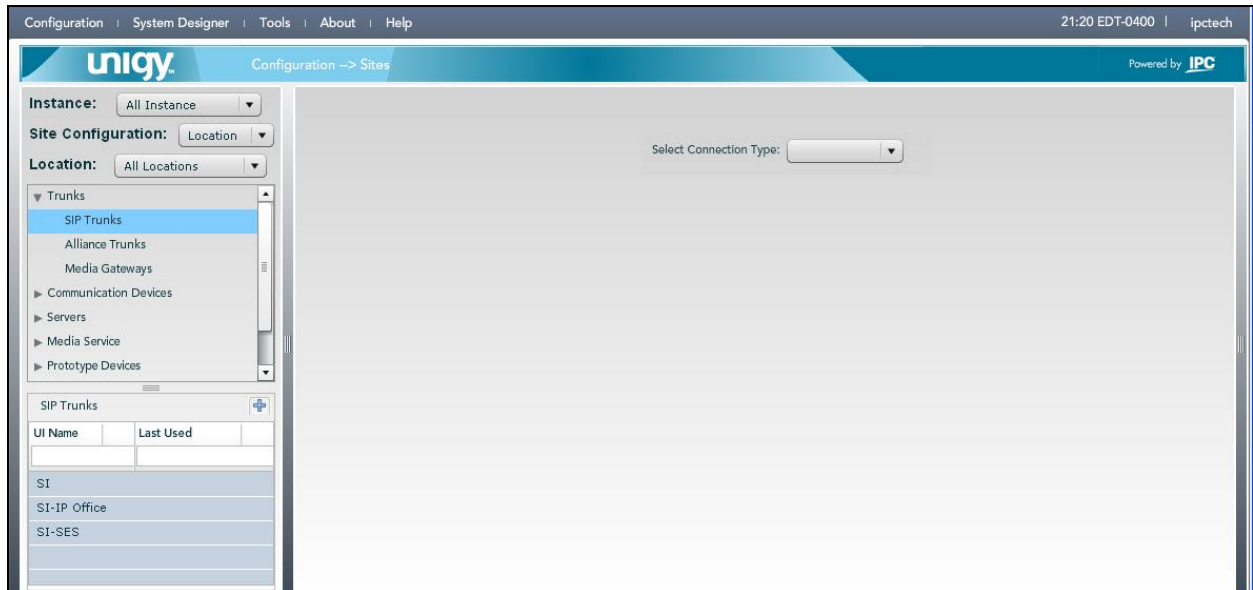
In the subsequent screen (not shown), click **Continue**.



The screenshot shows the login interface for the IPC Unigy Management System. It features the IPC logo on the left. To the right of the logo are two input fields: 'User Name:' and 'Password:'. Below these fields is a checkbox labeled 'I agree with the' followed by a link to 'Terms of Use'. A 'Login' button is positioned to the right of the checkbox. At the bottom of the form, the following text is displayed: 'IPC Unigy™ Management System', 'Unigy™ Version 02.00.00.00.1495', and '© Copyright 2012 IPC Systems, Inc.'

## 7.2. Administer SIP Trunks

Select **Trunks** → **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.



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**.
- **Zone:** An available zone, in this case “Default Zone 1”.
- **Channels:** The number of SIP trunk group members from **Section 0**.
- **Reason Protocol:** “SIP”
- **PBX Provider:** “Avaya”
- **Connected Party Update:** “UPDATE”

The screenshot shows the UniQy Configuration interface. The top navigation bar includes 'Configuration', 'System Designer', 'Tools', 'About', and 'Help'. The main header displays 'uniqy Configuration -> Sites' and 'Powered by JPC'. The interface is divided into two main sections: 'Instance' and 'Trunk'.

**Instance Section:**

- Instance:** All Instance
- Site Configuration:** Location
- Location:** All Locations
- Trunks:**
  - SIP Trunks
  - Alliance Trunks
  - Media Gateways
  - Communication Devices
  - Servers
  - Media Service
  - Prototype Devices
- SIP Trunks Table:**


UI Name	Last Used
SI-IP Office	
SI-SES	

**Trunk Section:**

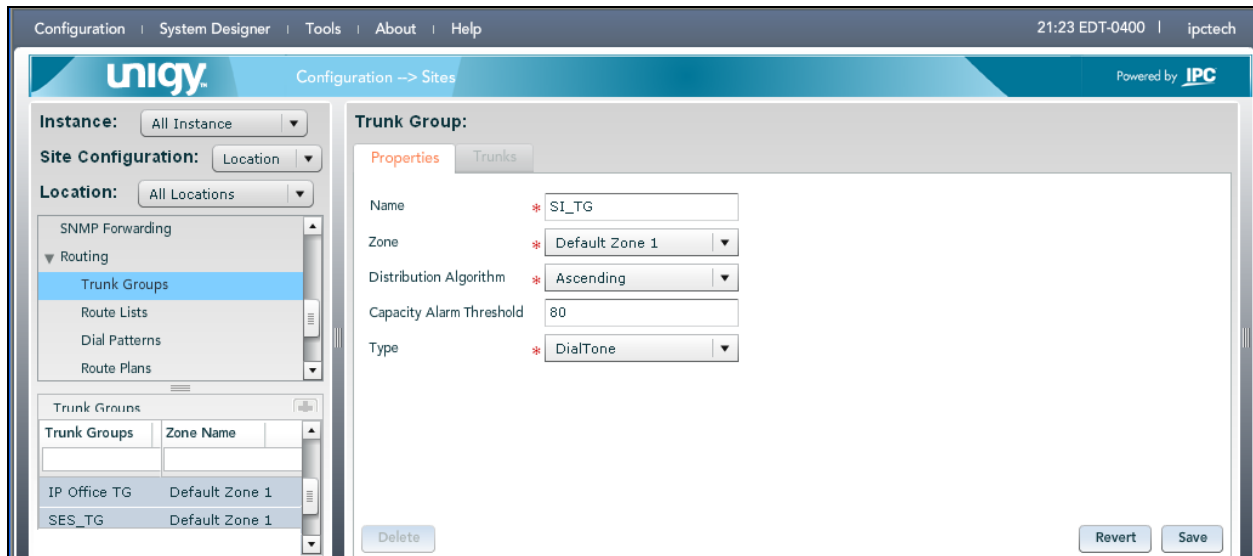
- Trunk:** Basic | Advanced
- DialTone Trunk Configuration:**
  - Trunk Name: SI
  - Connection Type: Dial Tone
  - Destination Address: 10.64.41.42
  - Destination Port: 5060
  - Media Manager Profile: Safe
  - Zone: Default Zone 1
  - Channels: 30
  - Reason Protocol: SIP
  - PBX Provider: Avaya
  - Connected Party Update: UPDATE
  - Subscribe to MWI: ☐
  - MWI Subscription Time: 0
  - Vendor:

Buttons at the bottom right: Delete, Revert, Save.

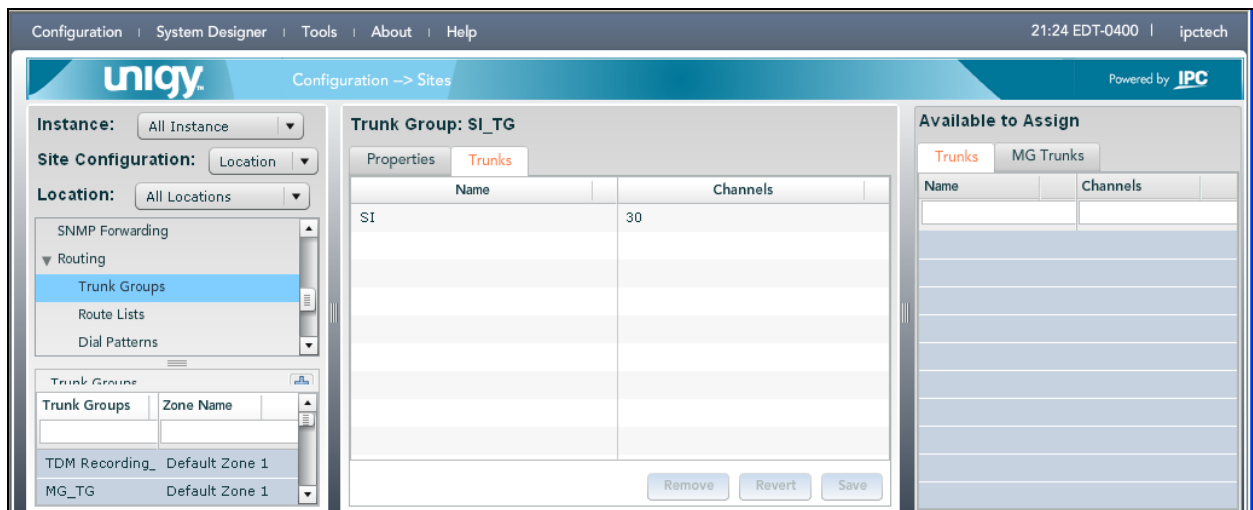
### 7.3. Administer Trunk Groups

Select **Routing** → **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.



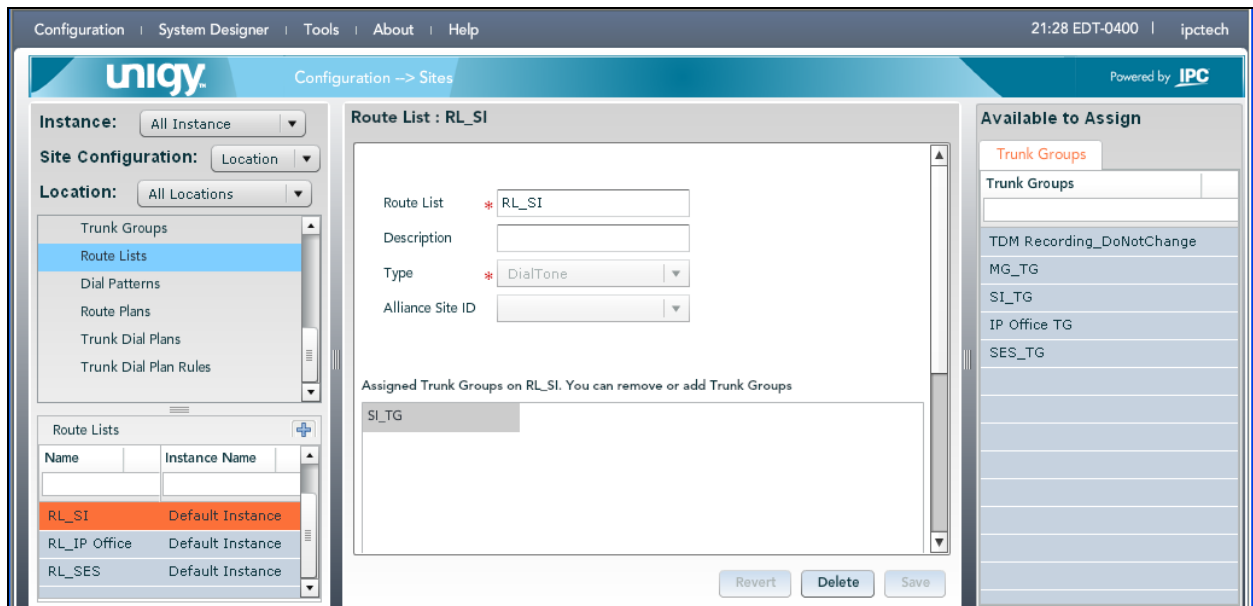
The screen is updated with three panes. In the rightmost pane, select the **Trunks** tab to display a list of trunks. Select the SIP trunk from **Section 7.2** in the rightmost pane and drag to the middle pane as shown below. Click **Save**.



## 7.4. Administer Route Lists

Select **Routing** → **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**.



The screenshot shows the UniV2 configuration interface. The top navigation bar includes 'Configuration', 'System Designer', 'Tools', 'About', and 'Help'. The main header displays 'unigy' and 'Configuration -> Sites'. The left pane shows a tree view with 'Route Lists' selected. The middle pane is titled 'Route List : RL\_SI' and contains the following fields:

- Route List: \* RL\_SI
- Description:
- Type: \* DialTone
- Alliance Site ID:

Below these fields is a section titled 'Assigned Trunk Groups on RL\_SI. You can remove or add Trunk Groups' with a list containing 'SI\_TG'. At the bottom of the middle pane are 'Revert', 'Delete', and 'Save' buttons.

The right pane is titled 'Available to Assign' and shows a list of trunk groups under the 'Trunk Groups' tab:

- TDM Recording\_DoNotChange
- MG\_TG
- SI\_TG
- IP Office TG
- SES\_TG

## 7.5. Administer Dial Patterns

Select **Routing** → **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**.

The screenshot shows the UniGY Configuration interface. The top navigation bar includes 'Configuration', 'System Designer', 'Tools', 'About', and 'Help'. The right side of the top bar shows the time '21:29 EDT-0400' and the user 'ipctech'. The main header area displays the 'unigy' logo, 'Configuration --> Sites', and 'Powered by IPC'. On the left, a sidebar menu lists various configuration categories: Trunks (SIP Trunks, Alliance Trunks, Media Gateways), Communication Devices, Servers, Media Service, Prototype Devices, SNMP Forwarding, and Routing (Trunk Groups, Route Lists, **Dial Patterns**, Route Plans, Trunk Dial Plans, Trunk Dial Plan Rules). The 'Dial Patterns' option is highlighted. The main content area is divided into two sections. The top section, 'Dial Patterns', contains a table with columns 'Name', 'Pattern String', 'Description', and 'Zone Name'. Below the table are 'Add New' and 'Delete' buttons. The bottom section, 'Dial pattern Details', has a 'Properties' tab. It contains four input fields: 'Name' (value: 'all'), 'Zone' (value: 'Default Zone 1'), 'Description' (value: 'all'), and 'Pattern String' (value: '\*'). Each field has a red asterisk icon. At the bottom right of the details section are 'Revert' and 'Save' buttons.

Name	Pattern String	Description	Zone Name

**Dial pattern Details**

**Properties**

Name \* all

Zone \* Default Zone 1

Description \* all

Pattern String \* \*

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

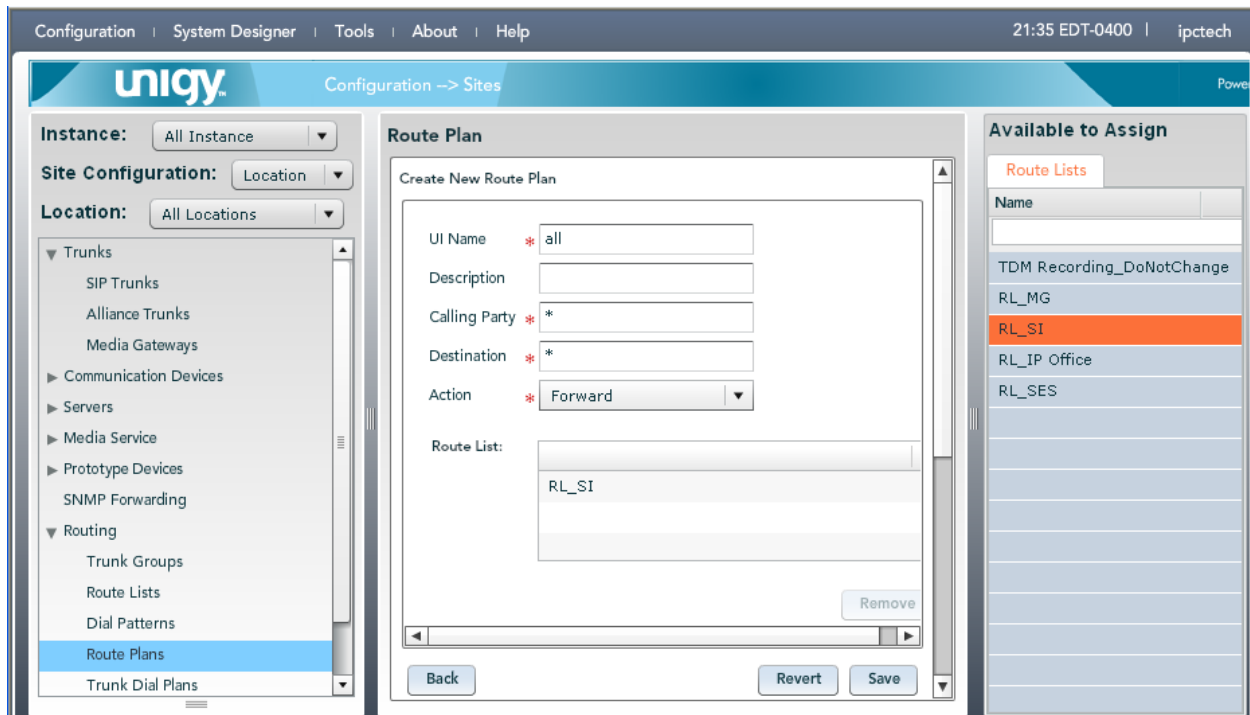
The screen is updated with three panes, as shown below. In the **Route Plan** middle pane, enter a descriptive **UI Name** and optional **Description**. For **Calling Party**, enter “\*” to denote any calling party from UnigyV2. For **Called Party**, select the dial pattern for Avaya endpoints from **Section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

The screenshot shows the Unigy Configuration -> Sites interface. The left pane shows a tree view with 'Route Plans' selected. The middle pane is titled 'Route Plan' and contains a 'Create New Route Plan' form. The form fields are: UI Name (all), Description (empty), Calling Party (\*), Destination (\*), Action (Forward), and Instance (Default Instance). There is a 'Route List' table below the form with one row and a 'Remove' button. The right pane is titled 'Available to Assign' and shows a list of route lists: TDM Recording\_DoNotChange, RL\_MG, RL\_SI, RL\_IP Office, and RL\_SES. The top of the interface shows the Unigy logo, navigation tabs (Configuration, System Designer, Tools, About, Help), and the time (21:31 EDT-0400) and user (ipctech).

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).

The screenshot shows the Unigy Configuration -> Sites interface. The left pane shows a tree view with 'Route Plans' selected. The middle pane is titled 'Route Plan' and contains a 'List of Route Plans' table. The table has columns: UI Name, Calling Party, Destination, Action, and Instance Name. The table contains one row: all, \*, \*, FORWARD, Default Instance. Below the table are buttons: Delete, Add New, Revert, and Save Sequence Change. The right pane is titled 'Available to Assign' and shows a list of route lists: TDM Recording\_DoNotChange, RL\_MG, RL\_SI, RL\_IP Office, and RL\_SES. The top of the interface shows the Unigy logo, navigation tabs (Configuration, System Designer, Tools, About, Help), and the time (21:34 EDT-0400) and user (ipctech).

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**.



## 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 trunk 92
```

TRUNK GROUP STATUS			
Member	Port	Service State	Mtce Connected Ports Busy
0092/001	T00135	in-service/idle	no
0092/002	T00136	in-service/idle	no
0092/003	T00137	in-service/idle	no
0092/004	T00138	in-service/idle	no
0092/005	T00139	in-service/idle	no
0092/006	T00140	in-service/idle	no
0092/007	T00141	in-service/idle	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 0**. 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
<b>Group State:</b>	<b>in-service</b>

## 8.2. Verify Avaya Aura® Session Manager

From the System Manager home page (not shown), select **Elements** → **Session Manager** to display the **Session Manager Dashboard** screen (not shown). Select **Session Manager** → **System Status** → **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**.

The screenshot displays the Avaya Aura System Manager 6.2 web interface. The top header shows the Avaya logo, the product name 'Avaya Aura® System Manager 6.2', and user information: 'Last Logged on at October 29, 2012 1:39 PM' with links for 'Help | About | Change Password | Log off admin'. A breadcrumb trail reads 'Home / Elements / Session Manager / System Status / SIP Entity Monitoring'. The left sidebar contains a navigation menu with categories like Session Manager, Network Configuration, Device and Location Configuration, Application Configuration, System Status, Managed Bandwidth Usage, Security Module Status, Registration Summary, User Registrations, System Tools, and Performance. The 'SIP Entity Monitoring' option is selected. The main content area is titled 'SIP Entity Link Monitoring Status Summary' and includes a description: 'This page provides a summary of Session Manager SIP entity link monitoring status.' Below this is a section 'Entity Link Status for All Session Manager Instances' with a 'Run Monitor' button. A table shows monitoring data for the 'SessionManager' instance, indicating 2 out of 5 entity links are down. Below the table is a section 'All Monitored SIP Entities' with another 'Run Monitor' button and a list of five monitored entities: Biamp, IPC-Unigy V2, MM52, R610, and S8300D. Each entity has a checkbox for selection.

**AVAYA** Avaya Aura® System Manager 6.2 Last Logged on at October 29, 2012 1:39 PM  
Help | About | Change Password | Log off admin

Session Manager \* Home

Home / Elements / Session Manager / System Status / SIP Entity Monitoring

**SIP Entity Link Monitoring Status Summary**  
This page provides a summary of Session Manager SIP entity link monitoring status.

**Entity Link Status for All Session Manager Instances**  
[Run Monitor](#)

1 Item Refresh

<input type="checkbox"/>	Session Manager Name	Entity Links Down/Total	Entity Links Partially Down	SIP Entities - Monitoring Not Started	SIP Entities - Not Monitored
<input type="checkbox"/>	<a href="#">SessionManager</a>	2/5	0	0	0

Select : All, None

**All Monitored SIP Entities**  
[Run Monitor](#)

5 Items Refresh Show ALL Filter: Enable

<input type="checkbox"/>	SIP Entity Name
<input type="checkbox"/>	<a href="#">Biamp</a>
<input type="checkbox"/>	<a href="#">IPC-Unigy V2</a>
<input type="checkbox"/>	<a href="#">MM52</a>
<input type="checkbox"/>	<a href="#">R610</a>
<input type="checkbox"/>	<a href="#">S8300D</a>

Select : All, None

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 6.2 Last Logged on at October 29, 2012 1:39 PM  
[Help](#) | [About](#) | [Change Password](#) | [Log off admin](#)

[Session Manager](#) x [Home](#)

**SIP Entity, Entity Link Connection Status** [Help ?](#)

This page displays detailed connection status for all entity links from all Session Manager instances to a single SIP entity.

**All Entity Links to SIP Entity: IPC-Unigy V2**

[Summary View](#)

2 Items [Refresh](#) Filter: [Enable](#)

Details	Session Manager Name	SIP Entity Resolved IP	Port	Proto.	Conn. Status	Reason Code	Link Status
► Show	<a href="#">SessionManager</a>	10.64.10.109	5060	UDP	Up	200 OK	Up
► Show	<a href="#">SessionManager</a>	10.64.10.109	5060	TCP	Up	200 OK	Up

### 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 6.2→→ using Avaya Aura® Session Manager. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

## 10. Additional References

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

1. *Administering Avaya Aura® Communication Manager*, Document 03-300509, Issue 7.0, Release 6.2, July 2012, available at <http://support.avaya.com>.
2. *Administering Avaya Aura® Session Manager*, Document Number 03-603324, Release 6.2, July 2012, 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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