

Avaya Solution & Interoperability Test Lab

Application Notes for configuring IPC Unigy with Avaya Communication Server 1000 7.5 and Avaya Aura® Session Manager 6.1 using SIP Trunks – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for IPC Unigy to interoperate with Avaya Communication Server 1000 7.5 using SIP trunks.

IPC Unigy is a trading communication solution. In the compliance testing, IPC Unigy used SIP trunks to Avaya Communication Server 1000 via Avaya Aura® Session Manager, for turret users on IPC to reach users on Avaya Communication Server 1000 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 Unigy to interoperate with Avaya Communication Server 1000 7.5 using SIP trunks.

IPC Unigy (hereafter referred to as Unigy) is a trading communication solution. In the compliance testing, IPC Unigy used SIP trunks to Avaya Communication Server 1000 7.5 (hereafter referred to as CS1000) via Avaya Aura® Session Manager, for turret users on IPC Unigy to reach users on Avaya Communication Server 1000 and on the PSTN.

This solution covered CS1000 IP (UNIStim), Digital and/or PSTN users. SIP endpoints are currently not supported due to an issue with blind transfer.

2. General Test Approach and Test Results

The feature test cases were performed manually. Calls were manually established among Unigy turret users with CS1000 IP (UNIStim), Digital 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 network connection to Unigy.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing included basic calls, basic display, G.711, G.729, DTMF, hold/reconnect, call forwarding unconditional/ring-no-answer/busy, blind/attended transfer, and attended conference.

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

2.2. Test Results

The objectives outlined in Section 2.1 were verified and met. All tests were executed and passed with the following observations.

- Blind transfer of a call from Unigy to an Avaya SIP endpoint fails. For example, Set A (Avaya) calls Set B (Unigy). Set B does a blind transfer to Set C (Avaya SIP end point). When Set C answers the call, Set A gets disconnected. Issue is not seen if Set C is a non SIP endpoint.
- Set A (Unigy) calls Set B (Avaya) with name and number restricted. Set B does an unattended transfer to Set C (Unigy). Set C sees the Calling Line Identification (CLID) of Set B rather than Set A. This is because Avaya CS1000 design does not support CLID update while doing a transfer to a third party system.
- Set A (Avaya) calls Set B (Unigy) which is setup so that all calls forward to Set C (Avaya) which is setup so that all calls forward to a voice mail system. Set A is leaving a

voice mail to Set B mailbox and not to the mailbox for Set C. This is the CS1000 design intent since original call from Set A was made to Set B.

- Set A (Avaya) calls Set B (Unigy) which has calls forward if busy to Set C's (Avaya) voice mail. Set A hears the voice mail greeting right away with no ringing indication.
- Set A (Unigy) calls Set B (Unigy) which has calls forward if busy to an invalid extension on Avaya CS1000. As per design call fails however the line on Set A freezes and has to be force cleared. Unigy design is investigating this issue.
- Set A (Unigy) calls Set B (Avaya) which has calls forward on no answer to Set C (Unigy) which has all calls forward to a PSTN number. Even though Unigy documentation claims to use the UDP protocol only, during diversions like the example mentioned above, it changes the protocol to TCP. Therefore, for calls to be successful, Avaya Aura® Session Manager needs to be configured for both UDP and TCP protocols when integrating with the Unigy system. Details of the configuration are explained in **Section 6**.
- Set A (Unigy) calls Set B (Unigy). Set B does a blind transfer to Set C (Unigy) which has calls forward on no answer to a voice mail system. The call between Set A and the voice mail system is active however there is no speech path and Set A cannot hear any mail box greetings or commands. Issue has been raised with Avaya CS1000 design.
- Uncheck PRACK in Unigy system so that Unigy users can access the Avaya Call Pilot voice mail system that is hosted on the Avaya CS1000 system.
- G.722 codec is not supported and therefore should not be configured on Unigy.
- A packet rate of 20ms is to be used with G.711 and G.729 codecs.

2.3. Support

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

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

3. Reference Configuration

As shown in **Figure 1** below, the Unigy configuration 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.

Unigy, CS1000 and Avaya Aura® Session Manager are connected to each other through the lab network. SIP trunks are used from Unigy to Avaya CS1000 via the Avaya Aura® Session Manager, to reach users on CS1000 and on the PSTN.

A five digit Uniform Dial Plan (UDP) was used to facilitate dialing between Unigy and CS1000. During compliance testing, extension ranges 58xxx were associated with CS1000 users and 35xxx were associated with the Unigy turret users. Avaya Call Pilot DN is 58888 and the PSTN number is 96139655570.

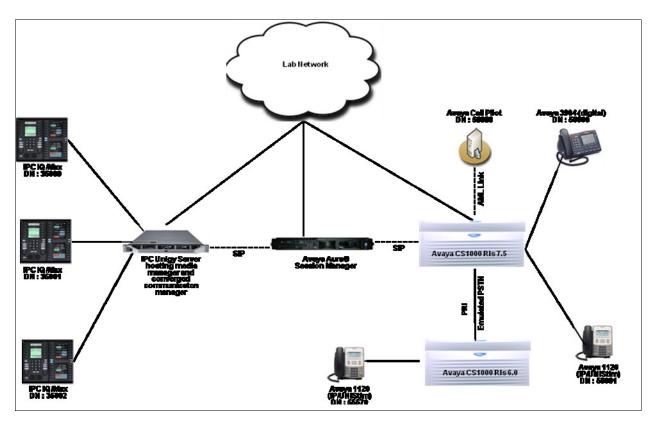


Figure 1: Compliance Test Setup in the lab

4. Equipment and Software Validated

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

Equipment	Software
Avaya Communication Server 1000	7.50.17
Avaya Communication Server 1000 (for emulated PSTN)	6.0
Avaya Call Pilot (600r)	5.00.41
Avaya Aura® Session Manager	6.1 SP2
Avaya Aura® System Manager	6.1 SP2
Avaya Digital user (3904)	NA
Avaya IP (UNIStim) user (1120)	0624C8A
 IPC Unigy Media Manager Converged Communication Manager Turrets (IQ/Max) 	01.00.00.04.0003 01.00.00.04.0003 01.00.00.04.0003

5. Configure Avaya CS1000

This section provides the procedures for configuring the Avaya CS1000 system. The procedures include the following areas:

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

Assumption is made here that the CS1000 users are already created and also the PRI Trunk between CS1000 7.5 and CS1000 6.0 is configured for emulated PSTN setup during compliance testing. For configuration details of the CS1000 refer to **Section 10[1]**.

5.1. Logging into Element Manager via Unified Communication Manager

To login to the Unified Communications Manager (UCM) open an IE browser and type in the IP address of the UCM in the URL (not shown). **Figure 2** below shows the login screen of the UCM. Enter the **User ID** and **Password** credentials and click on **Log In** to continue.

		Αναγα
This computer system and network is PRIVATE and PROPRIETARY of [company name] and may only be accessed by authorized users. Unauthorized use of this computer system or network is strictly prohibited and may be subject to criminal prosecution, employee discipline up to and including discharge, or the termination of the vendor/service contracts. The owner, or its agents, may monitor any activity or communication on the computer system or network. Copyright © 2002-2010 Avaya Inc. All rights reserved.	User ID: Password: Log In	

Figure 2: UCM Login Screen

From the UCM main screen as shown in **Figure 3** below, click on the Element **EM on cppm1**. This is the element which is configured to access the Element Manager (EM) for the CS1000 Call Server.

Αναγα	Avaya Unified Commu	inications Man	agement
— Network Elements	Host Name: ucm1.bvwdev.com So	oftware Version: 02.20-8	SNAPSHOT(0000)
— CS 1000 Services IPSec	Elements		
Patches SNMP Profiles Secure FTP Token	New elements are registered into the management service. You can option	, , ,	r .
Software Deployment — User Services Administrative Users		Search Reset	
External Authentication	Add Edit Delete		
Password	Element Name	Element Type +	<u>Release</u>
- Security Roles	1 🗖 EM on cppm1	CS1000	7.5
Policies Certificates	2 Cppm1.bwwdev.com (member)	Linux Base	7.5

Figure 3: UCM Main Screen

5.2. Configuring the SIP Signaling Gateway

This section describes the configuration required on the SIP Signaling Gateway present on the CS1000 so that CS1000 can communicate with the Avaya Aura® Session Manager via SIP Trunks. Assumption is made here that the IP Telephony node is already added.

To access the Node in the EM left navigator screen, navigate to **IP Network > Nodes: Servers, Media Cards** as shown in **Figure 4** below.

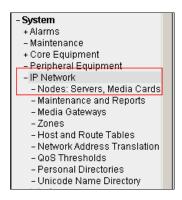


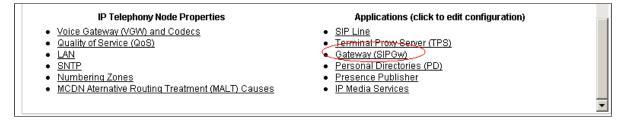
Figure 4: EM Screen showing navigation tree to Nodes

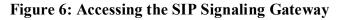
During compliance testing Node **551** was already created. Click on this Node as shown in **Figure 5** below.

IP Telephony	Nodes					
Click the Node ID	to view or edit its p	properties.				
		5.1.1				
Add Impo	ort Export	Delete				<u>Print Refresh</u>
☐ Node ID ▲	Components	Enabled Applications	ELAN IP	Node/TLAN IPv4	Node/TLAN IPv6	<u>Status</u>
<u>□ 550</u>	1	SIP Line	-	110.10.10.133		Synchronized
🗖 <u>551</u>	1	LTPS, PD, Gateway (SIPC	∋w)-	110.10.10.130		<u>Synchronized</u>
Show: 🔽 Nodes	Compone	ent servers and cards	✓ IPv6 address			

Figure 5: Accessing the Node

Open the SIP Signaling Gateway configuration by clicking on **Gateway (SIPGw)** as shown in **Figure 6** below.





RS; Reviewed: SPOC 4/23/2012 Solution & Interoperability Test Lab Application Notes ©2012 Avaya Inc. All Rights Reserved. 8 of 39 Unigy_CS1K_SIP In the **General** tab, select the values as shown in **Figure 7** below. A **SIP domain name** of **sip.ipc.com** was chosen since this is the domain name that will be configured on the Avaya Aura® Session Manager. Similarly, **cppm1** was configured as the **Gateway endpoint name**.

Node ID: 551 - Virtual T	runk Gateway Configurat	ion Details	
General SIP Gateway Setting	<u>s SIP Gateway Services</u>		
	Vtrk gateway application: 🔽 Enabl	e gateway service on this node	
General		Virtual Trunk Network Health Monitor	
Vtrk gateway application	n: SIP Gateway (SIPGw) 💌	Monitor IP addresses (listed below)	
SIP domain nam	e: sip.ipc.com *	Information will be captured for the IP addresses listed below.	
Local SIP por	t: 5060 * (1 - 65535)	Monitor IP: Add	
Gateway endpoint nam	e: cppm1 *	Monitor addresses:	
Gateway passwor	*	Remove	
Application node I): 551 * (0-9999)		
Enable failsafe NRS	S: 🗖	·	

Figure 7: SIPGw General tab Configuration

Under the **Proxy or Redirect Server** section, enter the IP address of the Avaya Aura® Session Manager and select **UDP** as the Transport protocol as shown in **Figure 8** below. Leave the remaining values at their default settings. During compliance testing **110.10.10.198** was the IP address of the Avaya Aura® Session Manager.

Node ID: 551 - Virtual Trunk Gateway Configuration Details	
General SIP Gateway Settings SIP Gateway Services	
Proxy Or Redirect Server:	
Proxy Server Route 1: Primary TLAN IP address: 110.10.10.198 The IP address can have either IPv4 or IPv6 format based on the value of "TLAN address type"	
Port: 5060 (1 - 65535)	
Transport protocol: UDP 💌	
Options: 🗖 Support registration	
Primary CDS proxy	

Figure 8: Proxy or Redirect Server Configuration

In the **SIP URI Map** section, enter the values as shown in **Figure 9** below. These values need to be matched if integration is to be successful between Unigy and CS1000, since Unigy is only able to understand the values below in its SIP messaging properties.

Node ID: 551 - Virtual Trunk Gateway Configurati	ion Details
General SIP Gateway Settings SIP Gateway Services	
SIP URI Map:	
Public E.164 domain names	Private domain names
National:	UDP: udp
Subscriber:	CDP:
Special number:	Special number: PrivateSpecial
Unknown:	Vacant number: PrivateUnknown
	Unknown:

Figure 9: SIP URI Map Configuration

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

5.3. Configuring D-Channel

This section explains the configuration of a D-Channel for SIP Trunking. From the EM navigation screen, navigate to **Routes and Trunks > D-Channels** as shown in **Figure 10** below.

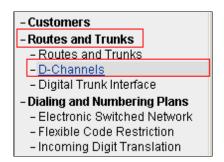


Figure 10: EM Screen showing navigation tree to D-Channels

Choose a D-Channel number to add as shown in **Figure 11** below. During compliance testing D-Channel number **10** was selected. Click on **to Add** to continue.

D-Channels
Maintenance
<u>D-Channel Diagnostics</u> (LD 96) <u>Network and Peripheral Equipment</u> (LD 32, Virtual D-Channels) <u>MSDL Diagnostics</u> (LD 96) <u>TMDI Diagnostics</u> (LD 96) <u>D-Channel Expansion Diagnostics</u> (LD 48)
Configuration
Choose a D-Channel Number: 10 💌 and type: DCH 💌 to Add

Figure 11: Adding D-Channel

Configure the **Basic Configuration** values for the D-Channel as shown in **Figure 12** below.

Input Description	Input Value	
Action Device And Number (ADAN):	DCH	
D channel Card Type :	DCIP	
Designator:	SIP	
Recovery to Primary:		
PRI loop number for Backup D-channel:		
User :	Integrated Services Signaling Link Dedicated (ISLD) 💌 🔹	
Interface type for D-channel:	Meridian Meridian1 (SL1)	
Country:	r. ETS 300 =102 basic protocol (ETSI)	
D-Channel PRI loop number:		
Primary Rate Interface:	more PRI	
Secondary PRI2 loops:		
Meridian 1 node type:	Slave to the controller (USR)	
Release ID of the switch at the far end:	25 💌	
Central Office switch type:	100% compatible with Bellcore standard (STD) 💌	
Integrated Services Signaling Link Maximum:	4000 Range: 1 - 4000	
Signalling server resource capacity:	3700 Range: 0 - 3700	

Figure 12: D-Channel Basic Configuration

To edit the **Remote Capabilities** of the D-Channel, click on the **Edit** button as shown in **Figure 13** below.

Signalling server resource capacity:	3700 Range: 0 - 3700
Basic options (BSCOPT)	
Primary D-channel for a backup DCH:	Range: 0 - 254
- PINX customer number:	V
- Progress signal:	
- Calling Line Identification :	
- Output request Buffers:	32 💌
- D-channel transmission Rate:	56 kb/s when LCMT is AMI (56K)
- Channel Negotiation option:	No alternative acceptable, exclusive. (1) 🔽
- Remote Capabilities:	Edit

Figure 13: Editing Remote Capabilities Screen

Select the boxes for the desired Remote Capabilities as shown in **Figures 14** below. Click on **Return - Remote Capabilities** button to return back to the main screen to complete the D-Channel configuration.

Remote D-channel is on a MSDL card (MSL)
Message waiting interworking with DMS-100 (MWI) 🔽
Network access data (NAC) 🗌
Network call trace supported (NCT) 🗌
Network name display method 1 (ND1)
Network name display method 2 (ND2) 🔽
Network name display method 3 (ND3) 🗌
Name display - integer ID coding (NDI) 🗌
Name display - object ID coding (NDO) 🗌
Path replacement uses integer values (PRI) 🔲
Path replacement uses object identifier (PRO) 🔲
Release Link Trunks over IP (RLTI) 🔲
Remote virtual queuing (RVQ) 🔲
Trunk anti-tromboning operation (TAT) 🔲
User to user service 1 (UUS1) 🔲
NI-2 name display option. (NDS) 🔲
Message waiting indication using integer values (QMWI) 🔲
Message waiting indication using object identifier (QMWO) 🔲
User to user signalling (UUI) 🔲
Return - Remote Capabilities

Figure 14: Remote Capabilities Values

5.4. Configuring Routes and Trunks

This section explains the configuration of the SIP routes and trunks which will be used by CS1000 and Unigy to communicate between them. To add a new route, navigate to **Routes and Trunks > Routes and Trunks** from the EM left hand navigator window as shown in **Figure 15** below.

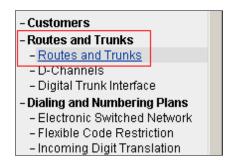


Figure 15: EM Screen showing navigation tree to Routes and Trunks

From the Routes and Trunks screen click on the **Add route** button to start configuring a new route as shown in **Figure 16** below.

Routes and 1	Frunks		
+ Customer: 0	Total routes: 6	Total trunks: 123	Add route

Figure 16: Adding a new Route

During compliance testing **Route number 10** was added. Select the values from the drop down menu and configure the values as shown in **Figures 17a**, 17**b** and **17c** below.

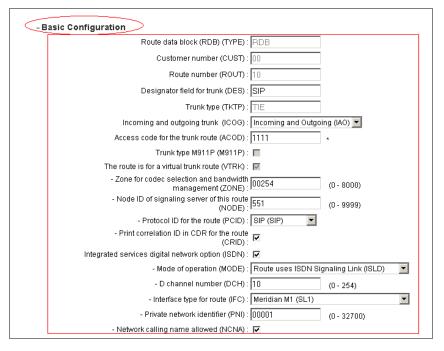


Figure 17a: Route Basic Configuration values

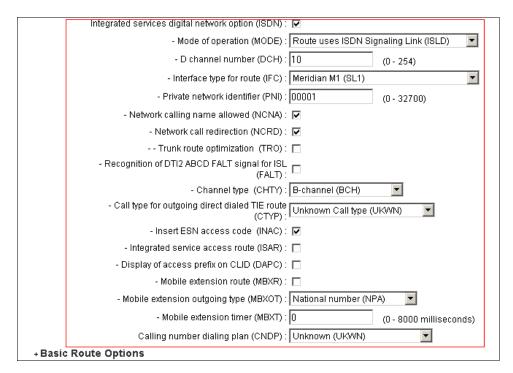


Figure 17b: Route Network Options values

Process notification r	networked calls (PNNC) : 🔲	
-Network Options		
Electronic switc	hed network pad control (ESN) :	
	Signaling arrangement (SIGO) :	Standard (STD)
	Route class (RCLS) :	Route Class marked as external (EXT)
	Off-hook queuing (OHQ) :	
Off-	hook queue threshold (OHQT) :	0
	Call back queuing (CBQ) :	
	Number of digits (NDIG) :	2 💌
	Authcode (AUTH) :	

Figure 17c: Route Network Options values

Configure the trunk values as shown in **Figure 18** below. During compliance testing the **Terminal number** used was **100 1 00 00** since it is a virtual trunk. Click on the **Edit** button to configure the required **Class of Service** for the trunks.

Customer 0, Route 1	0, Trunk 1 Property Configuration
-Basic Configuration	>
	Auto increment member number: 🔽
	Trunk data block: IPTI
	Terminal number: 100 1 00 00
	Designator field for trunk: SIP
	Extended trunk: VTRK
	Member number: 1 *
	Level 3 Signaling:
	Card density: 8⊡
	Start arrangement Incoming : Immediate (IMM)
	Start arrangement Outgoing: Immediate (IMM)
	Trunk group access restriction: 1
	Channel ID for this trunk: 1
	Class of Service: Edit
+ Advanced Trunk Co	nfigurations

Figure 18: Trunk Properties

Figure 19 shows the **Class of Service** values selected for the compliance testing from the drop down menu. Click on **Return Class of Service** button to complete the trunks configuration.

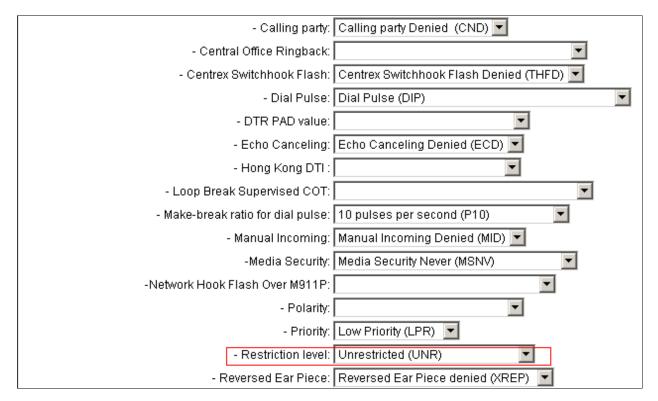


Figure 19: Trunk Class of Service

5.5. Configuring Digit Manipulation Block

This section explains the digit manipulation block that is to be configured in the CS1000 dialing plan for its users to communicate with the Unigy system. From the EM navigator pane, navigate to **Dialing and Numbering Plans > Electronic Switched Network** as shown in **Figure 20** below.

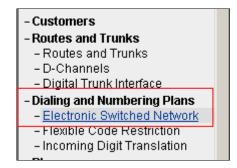


Figure 20: EM Screen showing navigation tree to Electronic Switched Network

Click on the Digit Manipulation Block (DGT) option as shown in Figure 21 below.

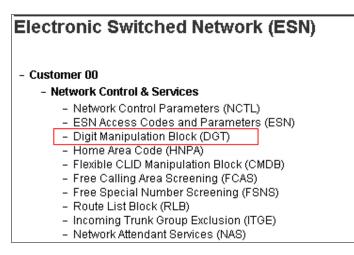


Figure 21: Accessing Digit Manipulation Block

Figure 22 below shows the Digit Manipulation Block Index users can add. However, during compliance testing **Digit Manipulation Block Index** of **0** was used which is already added in the CS1000 system by default.

Digit Manipulation Block List	
Please choose the Digit Manipulation Block Index 7	▼ to Add

Figure 22: Adding a Digit Manipulation Block Index

5.6. Configuring Route List Block

This section explains the route list block that is to be configured in the CS1000 dialing plan for its users to communicate with the Unigy system. From the EM navigator pane, navigate to **Dialing and Numbering Plans > Electronic Switched Network** as shown in **Figure 20** above. Click on **Route List Block (RLB)** option as shown in **Figure 23** below.

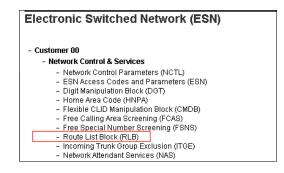


Figure 23: Accessing Route List Block

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Start adding a **route list index** as shown in **Figure 24** below. During compliance testing, list index 10 was added. Click on to Add to continue.

Route List Blocks	
Please enter a route list index 10 (0 - 1999) to Add	

Figure 24: Adding Route List Index

Click on Edit for Data Entry Index 0 as shown in Figure 25 below.

Please choose the Data Entry Index 1 💌 to Add
+ Data Entry Index 0 Edit

Figure 25: Adding Data Entry Index

Figure 26 below shows the values configured for the index block used during compliance testing. A **Route Number** of **10** and **Digit Manipulation Index** of **0** were selected as per the configuration explained in **Sections 5.4** and **5.5** respectively. Click **Submit** (not shown) to complete the configuration.

Route List Block Index: 10	
General Properties	
Entry Number for the Route List:	
Indexes	
Time of Day Schedule: 0	
Facility Restriction Level: 0 (0 - 7)	
Digit Manipulation Index: 0 💌	
ISL D-Channel Down Digit Manipulation Index: 0 (0 - 1992))
Free Calling Area Screening Index: 🛛 💌	
Free Special Number Screening Index: 🛛 💌	
Business Network Extension Route: 🔲	
Incoming CLID Table: 0 (0 - 100)	
Options	
Local Termination entry: 🔲	
Route Number: 10 💌	
Skip Conventional Signaling: 🗖	

Figure 26: Route List Block properties

5.7. Configuring Distant Steering Code

This section explains the distant steering code that is to be configured in the CS1000 dialing plan for its users to communicate with the Unigy system. From the EM navigator pane, navigate to **Dialing and Numbering Plans > Electronic Switched Network** as shown in **Figure 20** above. Click on the **Distant Steering Code (DSC)** option as shown in **Figure 27** below.

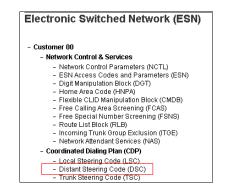


Figure 27: Accessing Distant Steering Code

From the drop down menu select **Add** and enter a distant steering code to add as shown in **Figure 28** below. During compliance testing a code of **350** was added since the Unigy extension range started with 350xx. Click on **to Add** to continue.

Distant Steering Code List				
Add				
Please enter a distant steering code	a 350 to Add			

Figure 28: Adding a Distant Steering Code

Enter the values as shown in **Figure 29** below. Note that the **Route List to be accessed for trunk steering code** value selected is **10** based on the configuration explained in **Section 5.6** above. Click on **Submit** to complete the configuration.

Distant S	Steering Code	
	Distant Steering Code: 350	
	Flexible Length number of digits: 5 (0 - 10) Display: Local Steering Code (LSC)	
	Remote Radio Paging Access:	
	Collect Call Blocking: 🗖 Maximum 7 digit NPA code allowed:	
	Maximum 7 digit Nb≪ code allowed:	
	Submit Refresh	Delete Cancel

Figure 29: Distant Steering Code properties

6. Configure Routing using Avaya Aura® System Manager

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

- Logging into the Avaya Aura® System Manager.
- Adding a Domain.
- Adding a Location.
- Adding SIP entities.
- Adding Routing Policies.
- Adding Dial Patterns.

6.1. Logging into the Avaya Aura® System Manager

This section explains the steps to launch the login screen of System Manager, and then access the Network Routing Policy.

To launch the System Manager Login screen, start an IE browser and type the IP address of System Manager in the URL (not shown). **Figure 30** below shows the Log On Screen. Type the required **User ID** and **Password** credentials and click **Log On** to continue.

AVAYA	Avaya Aura® System Manager 6.1
Home / Log On	
Log On	
This system is restricted solel authorized users for legitimati purposes only. The actual or unauthorized access, use, or of this system is strictly prohit Unauthorized users are subje company disciplinary procedu criminal and civil penalties un federal, or other applicable du foreign laws.	e business attempted modification bited. User ID: t to ures and or der state,

Figure 30: Avaya Aura® System Manager Login Screen

From the main screen of System Manager access the Network Routing Policy by selecting **Routing** as shown **in Figure 31** below.

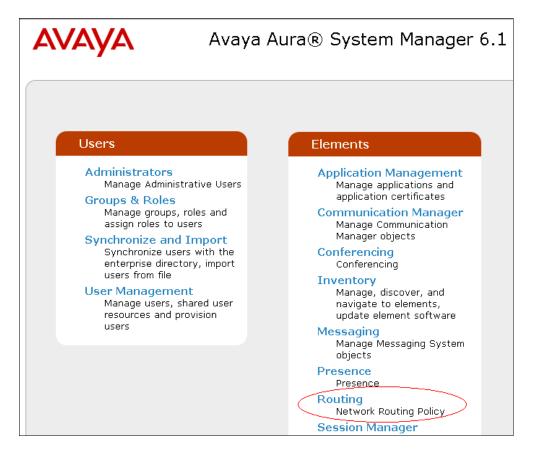


Figure 31: Avaya Aura® System Manager Main Screen

6.2. Adding a Domain

To add a domain, select **Domains** from the left hand window of the Routing screen and click on **New** (not shown). Configure the Domain in the **Name** field as shown in **Figure 32** below and click on **Commit** to complete adding a domain. During compliance testing a domain name of **sip.ipc.com** was used. Additional domains can be added in a similar fashion.

Routing	Home / Elements / Routing / D	oomains - Domain Ma	anagement		
Domains Locations	Domain Management				Help ? Commit Cancel
Adaptations					
SIP Entities					
Entity Links	1 Item Refresh				Filter: Enable
Time Ranges	Name	Туре	Default	Notes	
Routing Policies	* sip.ipc.com	sip 🔽		IPC Testing domain	
Dial Patterns					

Figure 32: Domain Management

6.3. Adding a Location

To add a location, select **Locations** from the left hand window of the Routing screen and click on **New** (not shown). Configure the Location **Name** as shown in **Figure 33** below and click on **Commit** to add the Location. During compliance testing a location name of **Belleville,Ont,Ca** was used. Click on **Commit** to complete adding a location. Additional locations can be added in a similar fashion.

Domains Locations	Location Details
Adaptations	Call Admission Control has been set to ignore SDP. All calls will be counted using the Default Audio Bandwidth.
SIP Entities	See Session Manager -> Session Manager Administration -> Global Setting
Entity Links	General
Time Ranges	
Routing Policies	* Name: Belleville,Ont,Ca
Dial Patterns	Notes:

Figure 33: Location Details

6.4. Adding SIP Entities

This section explains the adding of SIP entities to Session Manager, Unigy System and the CS1000 system routing. To add SIP Entities, select SIP Entities from the left hand window of the Routing screen and click on New (not shown).

Figures 34a and 34b show the SIP Entity Details for the Session Manager routing. The FQDN or IP Address of 110.10.10.198 is the IP address of the Session Manager. Also note that both TCP and UDP protocols need to be selected for the Entity Links and Ports to IPC and sip.ipc.com respectively, since Unigy System changes protocols for various diversions. If only the UDP protocol is selected then the integration will fail. Click on Commit to complete adding the SIP Entity.

Routing	I Home / El	ements / Routing / SIP E	ntities - SIP Entity Details	
Domains	SIP Entity D	otailc		Commit Cancel
Locations		etans		Comme Cancer
Adaptations	General			
SIP Entities		* Name:	DevASM	
Entity Links		* FQDN or IP Address:	110.10.10.198	
Time Ranges		Type:	Session Manager 🔄	
Routing Policies		Notes:	For Session Manager	
Dial Patterns			· · · · · · · · · · · · · · · · · · ·	
Regular Expressions		Location:	Belleville,Ont,Ca 💌	
Defaults		Outbound Proxy:		
		Time Zone:	America/Toronto	
		Credential name:		
	SIP Link M	Aonitoring SIP Link Monitoring:	Use Session Manager Configuration 💌	
		-]

Figure 34a: SIP Entity Details for Session Manager

	DevASM	•	UDP 💌	* 5060	DevCM	•	* 5060	V			
	DevASM	-	ТСР 🗾	* 5060	IPC	•	* 5060				
	DevASM	•	UDP 💌	* 5060	IPC	•	* 5060				
Selec	Select : All, None < Previous Page 4 of 6 Next >										
Port Add Remove											
4 Ite	ms Refresh							Filter: Enable			
	Port		Protocol	Default Domain		Notes					
	5060		UDP 💌	sip.ipc.com	-						
	5060		ТСР 👤	sip.ipc.com	•						
	5061		TLS 👤	bvwdev.com	•						

Figure 34b: SIP Entity Details for Session Manager (cont'd)

Figures 35a and **35b** show the SIP Entity Details for the Unigy System routing. The **FQDN or IP Address** of **110.10.10.226** is the IP address of the Unigy System. Also note that both **TCP** and **UDP** protocols need to be selected in the Entity Links section for **IPC** since Unigy System changes protocols for various diversions. If only **UDP** protocol is selected then the integration will fail. Click on **Commit** to complete adding the SIP Entity.

Domains	SIP Entity Details	
Locations		
Adaptations	General	
SIP Entities	* Name: IPC	
Entity Links	* FQDN or IP Address: 110.10.10.226	
Time Ranges	Type: Other	
Routing Policies	Notes: For IPC Testing	
Dial Patterns	in the resulting	
Regular Expressions	Adaptation:	1
Defaults	Location: Belleville,Ont,Ca	'
	Time Zone: America/New_York	T
	Override Port & Transport with DNS □ SRV: □	
	* SIP Timer B/F (in seconds): 4	
	Credential name:	
	Call Detail Recording: none 💌	
	SIP Link Monitoring	
	SIP Link Monitoring: Link Monitoring Disabled	
	* Proactive Monitoring Interval (in 900 seconds):	

Figure 35a: SIP Entity Details for Unigy System

2 Ite	ms Refresh					Filter: Ena
	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Truste
	DevASM 💽	ТСР 🔽	* 5060	IPC 💌	* 5060	
	DevASM 💽	UDP 🗾	* 5060	IPC 🔹	* 5060	V

Figure 35b: SIP Entity Details for Unigy System (cont'd)

Figures 36a and **36b** show the SIP Entity Details for the CS1000 System routing. The **FQDN or IP Address** of **110.10.10.130** is the Node IP address of the SIP Signaling Gateway of the CS1000 System. Also note that both **TCP** and **UDP** protocols need to be selected in the Entity Links secton for **cppm1** since Unigy System changes protocols for various diversions. If only **UDP** protocol is selected then the integration will fail. Click on **Commit** to complete adding the SIP Entity.

Domains	SIP Entity Details
Locations	
Adaptations	General
SIP Entities	* Name: cppm1
Entity Links	* FQDN or IP Address: 110.10.10.130
Time Ranges	Type: Other 🔽
Routing Policies	Notes: Connectivity to CS1K 7.5 Enterpri
Dial Patterns	
Regular Expressions	Adaptation:
Defaults	Location: Belleville,Ont,Ca
	Time Zone: America/Toronto
	Override Port & Transport with DNS SRV:
	* SIP Timer B/F (in seconds): 4
	Credential name:
	Call Detail Recording: none 🔽
	SIP Link Monitoring
	SIP Link Monitoring: Link Monitoring Disabled
	* Proactive Monitoring Interval (in seconds):

Figure 36a: SIP Entity Details for CS1000 System

RS; Reviewed: SPOC 4/23/2012

2 Items Refresh Filter: Enabl								
P Entity 1	Protocol	Port	SIP Entity 2	Port	Trusted			
VASM 💌	ТСР	* 5060	cppm1 🔹	* 5060	~			
VASM 💌	UDP 💌	* 5060	cppm1 💌	* 5060				
v	ASM 👤	ASM TCP -	ASM TCP * 5060	ASM • TCP • * 5060 cppm1 •	ASM • TCP • * 5060 cppm1 • * 5060			

Figure 36b: SIP Entity Details for CS1000 System (cont'd)

6.5. Adding Routing Policies

This section explains the Routing Policy configuration for the Unigy and CS1000 Systems. To add a routing policy, select **Routing Policies** from the left hand window of the Routing screen and click on **New** (not shown).

Figures 37a and **37b** show the Routing Policy Details for the Unigy System. Select the Unigy System as the SIP Entity Destination and add the dial pattern associated with the Unigy System. A dial pattern can be added once it has been configured as explained in **Section 6.6** below. Click on **Commit** to complete adding a routing policy.

▼ Routing	∢ Home / Eleme	ents / Routing / Routing Policies - Routin	g Policy Details	
Domains	Routing Policy D	otaile		Help ? Commit Cancel
Locations	Koucing Policy L	Jetans		Commity Canter
Adaptations	General			
SIP Entities		* Name: IPC_routing		
Entity Links				
Time Ranges		Disabled:		
Routing Policies		Notes: Routing for IPC Serv	/er	
Dial Patterns				
Regular Expressions	SIP Entity as	Destination		
Defaults	Select			
	Name	FQDN or IP Address	Туре	Notes
	IPC	110.10.10.226	Other	For IPC Testing

Figure 37a: Routing Policy Details for Unigy System

Add	Remove								
1 Item Refresh Filter: Enabl									
	Pattern 🔺	Min	Мах	Emergency Call	SIP Domain	Originating Location	Notes		
	350	5	5		sip.ipc.com	Belleville,Ont,Ca	Routing for IPC serve		

Figure 37b: Routing Policy Details for Unigy System (cont'd)

RS; Reviewed:	
SPOC 4/23/2012	

Figures 38a and **38b** show the Routing Policy Details for the CS1000 System. Select the CS1000 System as the SIP Entity Destination and add the dial pattern associated with the CS1000 System. A dial pattern can be added once it has been configured as explained in **Section 6.6** below. Click on **Commit** to complete adding a routing policy.

Additional	routing	nolicias	can ba	configured	20	romirad	ina	similar	fachion
Auunionai	Touing	poneres		configured	as	requireu	III a	Siiiiiai	lasinon.

 Routing 	Home / Elements / Routing / Routing Policies - Routing Policy Details							
Domains	Routing Policy Details Commit Cancel							
Locations								
Adaptations	General							
SIP Entities	* Name: Routing_2_CS1K							
Entity Links								
Time Ranges	Disabled:							
Routing Policies	Notes: Routing to CS1000 cppm1							
Dial Patterns								
Regular Expressions	SIP Entity as Destination							
Defaults	Select							
	Name FQDN or IP Address Type Notes							
	cppm1 135.10.97.130 Other Connectivity to CS1K 7.5 Enterprise 1 system for Skype Testing							

Figure 38a: Routing Policy Details for CS1000

Dial I	Patterns								
Add	Remove								
5 Ite	5 Items Refresh Filter: Enable								
	Pattern 🔺	Min	Max	Emergency Call	SIP Domain	Originating Location	Notes		
	58	5	5		sip.ipc.com	Belleville,Ont,Ca			
	961396	11	36		sip.ipc.com	Belleville,Ont,Ca	Call from IPC to CS1000 via tandem		
Sele	ct : All, None								

Figure 38b: Routing Policy Details for CS1000 (cont'd)

6.6. Adding Dial Patterns

This section explains the steps to add a dial pattern for the Unigy and CS1000 systems. To add a dial pattern, select **Dial Patterns** from the left hand window of the Routing screen and click on **New** (not shown).

Figure 39 shows the Dial Pattern Details for the Unigy System. During compliance testing, the extension range on the Unigy System started with 350xx and therefore **350** is used in the **Pattern** field. The minimum and maximum size of the extension is defined as **5**. Add the **IPC routing** policy as configured in **Section 6.5** above. Click on **Commit** to complete adding the dial pattern. Additional dial patterns can be configured as required in a similar fashion.

Domains	— Dial Pattern Details						Commit	Help ? Cancel
Locations	Dial Pattern Details						Commu	Cancer
Adaptations	General							
SIP Entities		* Pattern:	350					
Entity Links								
Time Ranges		* Min:	5					
Routing Policies		* Max:	5					
Dial Patterns		Emergency Call:						
Regular Expressions		SIP Domain:	sip.ipc.com	•				
Defaults		Notes:	Routing for IP	C server				
	Originating Location	ons and Routir	ng Policies				Filter: Er	nable
	C Originating Lo	cation Name 1 🔺	Originating Location Notes	Routing Policy Name	Rank 2 🔺	Routing Policy Disabled	Routing Policy Destination	Routii Policy Notes
	Belleville,Ont,Ca			IPC routing	0	Π	IPC	Routin(for IPC Server
	•							Þ

Figure 39: Dial Pattern Details

7. Configure IPC Media Manager

This section provides the procedures for configuring IPC Media 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.
- Administer Codecs.

The configuration of Media Manager is typically performed by IPC installation technicians. The procedural steps are presented in these Application Notes for informational purposes. For detailed administration and configuration information for the Unigy system refer to **Section 10** [2].

7.1. Launch Unigy Management System

Access the Unigy 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 as shown in **Figure 40** 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**.



Figure 40: Unigy Management System Login Screen

7.2. Administer SIP Trunks

The screen as shown in **Figure 41** below is displayed next. Select **Configuration > Site Configuration** from the top menu.

Configuration System Designer	Alarms Tools About Help	12:11	EDT-0400 mgr1
unigy.			Powered by IPC

Figure 41: Unigy Management System Login Screen

Figures 42a and **42b** below show the **Site Configuration** information displayed in the left pane. Select **Trunks > SIP Trunks** and click the "+" icon in the lower left pane to add a new SIP trunk group. Click on the **Advanced** tab to configure the trunk. During compliance testing a SIP trunk by the name **SIP-Trunk-SM** was added with the required values as shown below. The IP address **110.10.10.198** is the IP address of the Avaya Aura® Session Manager. Values shown in the red box were used during compliance testing. Click on **Save** (not shown) to complete the configuration.

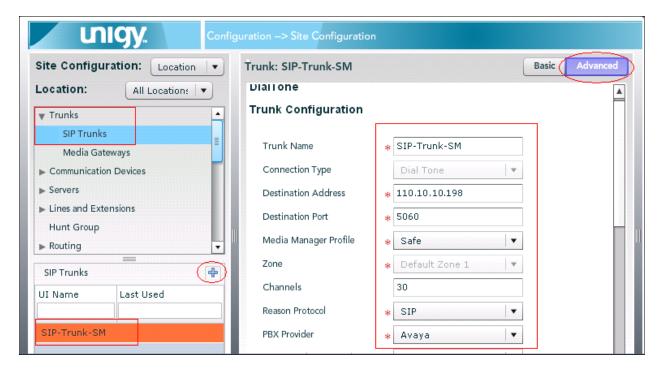


Figure 42a: Adding a SIP Trunk

Configur	ration> Site Configuration	
Site Configuration:	Trunk: SIP-Trunk-SM	Basic Advanced
Location: All Location:	Connected Party Update * UPDATE *	
Trunks	Subscribe to MWI	
SIP Trunks	MWI Subscription Time 0	
Media Gateways	Vendor	
Servers	A/B Side	
Lines and Extensions	Distant End Name	
Hunt Group	PBX Trunk Group Reference	
► Routing	Trunk Info	
SIP Trunks	Diversion Header 🔹 🔹 History-Info	
UI Name Last Used	Indicate PRACK Support	
	Outgoing Transport Type 🔹 UDP 🛛 🔻	
SIP-Trunk-SM	ReINVITE For Media Update	

Figure 42b: Adding a SIP Trunk (cont'd)

7.3. Administer Trunk Groups

Select **Routing > Trunk Groups** in the left pane, and click the "+" icon in the lower left pane to add a new trunk group as shown in **Figure 43** below.

The **Trunk Group** screen is displayed in the right pane. In the **Properties** tab, enter a descriptive **Name**, leave the remaining values as default and click **Save** (not shown).

Configuration System Designer Alarm	s Tools About Help
Config	uration> Site Configuration
Site Configuration: Location V Location: All Locations V	Trunk Group: SIP-Trunk Properties Trunks
Communication Devices Servers Lines and Extensions Hunt Group	Name * SIP-Trunk Zone * Default Zone 1 Distribution Algorithm * TopDown
✓ Routing Trunk Groups Route Lists Dial Patterns Route Plans Codecs Trunk Groups	Capacity Alarm Threshold 80

Figure 43: Adding Trunk Group

Select the **Trunks** tab in the right pane as shown in **Figure 44** below. The screen is updated with three panes. In the right pane, select the **Trunks** tab. In the listing, select and expand the applicable trunk (not shown) from **Section 7.2**, and drag the selection to the **Name** column in the middle pane as shown below. Click on **Save** (not shown) to complete the configuration.

Configuration System Designer Alarm	ns Tools About Help		11:5	1 EDT-0400 mgr1
Config	uration> Site Configuration			Powered by IPC
Site Configuration: Location	Trunk Group: SIP-Trunk		Available to Assign	n
Location: All Location:	Properties Trunks		Trunks MG Trunk	ks
► Communication Devices	Name	Channels	Name	Channels
▶ Servers	SIP-Trunk-SM	30		
▶ Lines and Extensions				
Hunt Group				
▼ Routing				
Trunk Groups				

Figure 44: Adding Trunk Group (cont'd)

7.4. Administer Route Lists

Select **Routing > Route Lists** in the left pane, and click the "+" icon in the lower left pane to add a new route list as shown in **Figure 45** below.

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 on **Save** to complete the configuration.

Configuration System Designer Alarr	ns I Tools I About I Help	11:52	2 EDT-0400 mgr1
	juration> Site Configuration		Powered by IPC
Site Configuration: Location	Route List : RL-SIP-Trunk	Available to	Assign
Location: All Locations		Trunk Group)S
Communication Devices Servers Lines and Extensions Hunt Group Routing Trunk Groups Route Plans Codecs Route Lists Route Plans Codecs Route Lists Rule Plans Rul	Route List * RL-SIP-Trunk Description Assigned Trunk Groups on RL-SIP-Trunk. You can remove or add Trunk Groups SIP-Trunk Remove Trunks	Name	ng_DoNotChange
	Revert Delete Save		

Figure 45: Adding Route List

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 as shown in **Figure 46** below.

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 CS1000 extensions, in this case **58\$\$\$** with "\$" matching to any digit. For **Call Classification**, select **External**. Click on **Save** to complete adding a dial pattern.

Configuration System Designer Alarm	i Tools i About i Help 1	2:28 EDT-0400 mgr1
Configu	ration -> Site Configuration	Powered by IPC
Site Configuration: Location	Dial Patterns	
Location: All Locations	Name Pattern String Outbound CLI Call Classification Prefix Digits Description	
► Trunks		Add New Delete
 Communication Devices Servers 	Dial pattern Details	
▶ Lines and Extensions Hunt Group	Properties	
Routing Trunk Groups	Name * 58xxx	
Route Lists Dial Patterns	Description * 58xxx Pattern String * 58\$\$\$	
Route Plans	Outbound CLI	
Voice Recording License Manager	Call Classification * External Prefix Digits	
▶ System		
▶ Directories		
System Features SNMP Profiles		
SMTP Prototype Devices		Revert Save

Figure 46: Adding a Dial Pattern

Repeat this section to add another dial pattern to reach the PSTN, and include any required prefix by Avaya CS1000. In the compliance testing, two dial patterns were created as shown in **Figure 47** below.

Configuration I System Designer I Alarm	is i Tools i Ab	out I Help				12	:30 EDT-0400 mgr
	uration> Site Co	nfiguration					Powered by IPC
Site Configuration: Location	Dial Patterns						
Location: All Location:	Name	Pattern String	Outbound CLI	Call Classificatio	Prefix Digits	Description	
Trunks Communication Devices	58xxx	58\$\$\$		External		58xxx	
	0	0		External		0	
Servers Lines and Extensions Hunt Group	961396xxxxx	961396\$\$\$\$		External		961396××××	<

Figure 47: Extension and PSTN Dial Patterns

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 as shown in **Figure 48** below.

The screen is updated with three panes, as shown below. In the **Route Plan** middle pane, enter a descriptive **UI Name** and an optional **Description**. For **Calling Party**, enter * to denote any calling party from Unigy. For **Called Party**, select the dial pattern for the CS1000 users from **Section 7.5**. Select **Forward** for **Action**, and click on **Save**.

Configuration System Designer Al	rms I Tools I About I Help	12:32 EDT-0400 mgr1
unigy. 🕞	figuration> Site Configuration	Powered by IPC
Site Configuration:	Route Plan	Available to Assign
Location: All Location:	Create New Route Plan	Route Lists
	UI Name * 58xxx Description Calling Party * * Called Party * 58xxx • Action * Forward • Route List:	Name RL-SIP-Trunk
Route Plans Codecs Voice Recording		
License Manager ▶ System	Remove	
Directories System Features	Back	

Figure 48: Creating a new Route plan

The screen is updated with the newly created route plan as shown in **Figure 49** below. Select the route plan, and click **Edit** toward the bottom of the screen (not shown).

Configuration System Designer Alarms Tools About Help						
Configuration> Site Configuration						
Site Configuration: Location	Site Configuration: Location					
Location: All Locations	List of Route Pla	ns				
	UI Name	Calling Party	Called Party	Action		
▶ Trunks						
Communication Devices Servers	58xxx	*	58xxx	FORWARD		

Figure 49: New Route Plan

The screen is updated with three panes again, as shown in **Figure 50** 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 on **Save** to complete the configuration.

Configuration System Designer Al	rms i Tools i About i Help	11:54 EDT-0400 mgr1
Cor	figuration> Site Configuration	Powered by IPC
Site Configuration:	Route Plan	Available to Assign
Location: All Locations	Create New Route Plan	Route Lists
Communication Devices Servers	UI Name 🔹 S8xxx	Name
▶ Lines and Extensions	Description 58×××	RL-SIP-Trunk
Hunt Group	Calling Party *	
▼ Routing	Called Party * 58xxx	
Trunk Groups		
Route Lists	Action * Forward V	
Dial Patterns	Route List:	
Route Plans	RUL-SIP-Trunk	
▶ Codecs		
► Voice Recording		
License Manager		
▶ System	Remove	
▶ Directories	Remove	
▶ System Features	Back Revert Save	
SNMP Profiles		
SMTP	Assign Trunk Groups	

Figure 50: Adding Route List to Route Plan

Repeat this section to add another route plan for the PSTN. During compliance testing, two route plans were created as shown in **Figure 51** below.

Configuration System Designer Alarms Tools About Help							
Config	Configuration> Site Configuration						
Site Configuration: Location	Site Configuration: Location						
Location: All Locations	List of Route Plans						
	UI Name	Calling Party	Called Party	Action			
► Trunks							
Communication Devices	58xxx	*	58xxx	FORWARD			
▶ Servers	0	*	0	FORWARD			
▶ Lines and Extensions	961396xxxxx	*	961396xxxxx	FORWARD			

Figure 51: Extension and PSTN Route Plan

7.7. Administer Codecs

Select **Codecs** > **Codecs** in the left pane, and click the "+" icon in the lower left pane to add a new codec as shown in **Figure 52** below.

Enter a **Name** for the Codec, select a codec **Type** from the drop down and enter 20 for the **Packet Period.** Click on **Save** to complete the configuration. **Figure 52** below shows the G.711 u-law codec being added. Similarly another codec for G.729 can be added.

	iguration> Site Configu	ration	Powered by IPC
Site Configuration: Location	G711 mu-law		
Location: All Location: Turrets Soft Clients Servers Lines and Extensions Hunt Group Routing Codecs Codecs Codec Profiles Codecs Codecs Codec Profiles Codecs Code	Name Type Packet Period	+ G.711 u-law • + G.711 u-law • + 20	
			Delete Revert Save

Figure 52: Adding a Codec

The two codecs added above will be used during compliance testing however they need to be included into a codec profile. Select **Codecs > Codec Profiles** and click on "+" to add a new profile. **Figure 53** below shows a profile that has been added during compliance testing called **Avaya-Codecs** and **G711 a-law** and **G.729** codecs has been added to this profile by dragging it into the middle pane from the right pane. Click on **Save** to complete this configuration.

	uration> Site Configuration		Powered by IPC
Site Configuration: Location	Avaya-Codecs		Available to Assign
Location: All Location:	Profile Name * Avaya-Coda	165	Codecs Name
Soft Clients	Codecs	High Def Voice	
▶ Lines and Extensions	Name	Туре	G711 mu-law
Hunt Group	G711 mu-law	G_711u_law	Low Bandwidth with VAD
▶ Routing	G.729	G_729	G711 a-law
▼ Codecs			G.729
Codecs Codec Profiles			1
Codec Profiles			
Name			
Low Bandwidth			
All Codecs			
MS Codecs	Note: List the codec in the order vo	ou want the device to try to use them.	
MG Codecs			
Avaya-Codecs		Delete Remove Revert S	

Figure 54: Creating a Codec Profile

The created Codec profile needs to be added at the Turret and User level. To include this profile in a turret, select **Communication Devices > Turrets** as shown in **Figure 55** below. Select a turret and in the **VOIP Parameters** tab select the created codec profile from the drop down seen under the **CODEC Profile** field. Click on **Save** to complete this configuration.

Site Configuration: Location	Turret: 10500E0A70A03B3			Basic	Advanced
ocation: All Location:	Gen Current User Audio Par	ameters VOIP Parameters	Inbound Tone L	Outbound Tone	SNMP
 Trunks Communication Devices Soft Clients Soft Clients Soft Clients Servers Lines and Extensions Hunt Group Routing Codecs Turrets Name 10500E0A70A03B3 		* 30]	Revert	Save

Figure 55: Selecting CODEC Profile for a Turret

To include this profile in a user, navigate to **System Designer > End User Configuration**. Select a user and access the **Trader Features** tab. Select the required profile from the drop down of the **CODEC Profile** field as shown below. Click on **Save** to complete the configuration.

onfiguration	System Designer I Alarn End User Configuration	is Tools About Help		10:28 EST-0500 ipci
ហ	Billing Groups ter	n Designer> End User Configuration		Powered by IP
End User G	Broadcast Groups	User: a5001		
IPC		Trader Features Face Layout Speakers	Privilege Audio Display	Soft Client Personal Dir.
		Latch Group Talkback 1		
		Latch Group Talkback 2		
		Desk Location		
Jsers		Implicit Hunt Enabled?	\checkmark	
lame	End User Group	Inter Digit Timeout	* 6	
5001	IPC	Maximum digit for the divert to number	* 26	
5002	IPC	Divert Intercom Calls To		
pemgr		Condition for Intercom Calls Diversion	* None 🔻	
		Ring No Answer Duration for Intercom Diversion (sec)	* 6	
		Intercom Diversion Mode	* none 🔻	
		Maintain Intercom Divert Upon Log On?		
		Handset Button Press and Release Actions	HANDSET_NONE	
		CODEC Profile	Avaya-Codecs 🔻]
		Handset Select Mode	left 🗸	
				Revert

Figure 56: Selecting CODEC Profile for a User

Note that after configuring the Codecs, the turrets will need to be rebooted.

8. Verification Steps

The following tests were conducted to verify the solution between the CS1000 and Unigy system:

- All basic call features operate successfully between CS1000 and Unigy users.
- Connection between Unigy System and Avaya Aura® Session Manager is successfully established when the Ethernet connection is disconnected and connected back to the Unigy System.

9. Conclusion

These Application Notes describe the configuration steps required for IPC Unigy to successfully interoperate with Avaya Communication Server 1000 7.5 using SIP trunks. All executed test cases have passed and met the objectives outlined in **Section 2** along with the observations as noted in **Section 2.2**. The Unigy System is considered compliant with Avaya CS1000 Release 7.5 using Avaya Aura®.

10. Additional References

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

- 1. *CS1000 7.50 Administering and System Programming documents*, available at <u>http://support.avaya.com</u>.
- **2.** *Unigy 1.1 System Configuration*, Part Number B02200187, Release 00, upon request to IPC Support.

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