

Avaya Solution & Interoperability Test Lab

Application Notes for IPC Unigy with Avaya IP Office using SIP Trunks – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for IPC Unigy to interoperate with Avaya IP Office.

IPC Unigy is a trading communication solution. In the compliance testing, IPC Unigy used SIP trunks to Avaya IP Office, for turret users on IPC to reach users on Avaya IP Office and on the PSTN.

The embedded IP Office Voicemail was used in the test configuration to provide voicemail service for the Avaya IP Office users. The IPC turret users do not have any voicemail capabilities in the test configuration.

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 IP Office.

IPC Unigy is a trading communication solution. In the compliance testing, IPC Unigy used SIP trunks to Avaya IP Office, for turret users on IPC to reach users on Avaya IP Office and on the PSTN.

This configuration focused on SIP interoperability between IPC Unigy and Avaya IP Office. Avaya IP Office did not provide voicemail service for the IPC turret users in this configuration.

2. General Test Approach and Test Results

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

The serviceability test cases were performed manually by disconnecting and reconnecting the LAN connection to IPC Unigy.

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.711, G.729, codec negotiation, hold/reconnect, DTMF, call forwarding unconditional/ring-no-answer/busy, blind/attended transfer, attended and conference. In addition, voicemail coverage for the Avaya IP Office users was also included.

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

2.2. Test Results

All test cases were executed. The following were the observations from the compliance testing.

- Blind Transfer Avaya H.323 calls IPC turret, and IPC transfers to PSTN failed. However, consult transfer worked for the same scenario. An extension (H323) calls an IPC turret, and the IPC turret answers the call. The turret transfers the call to PSTN. The phone on the PSTN rings. As the phone is picked up, the phone goes on-hook. The Avaya H.323 phone keeps ringing.
- Conference IPC does not support initiating conference. The work around is performing conference at the IP Office side.

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**, IPC Unigy 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.

The embedded IP Office Voicemail was used in the test configuration to provide voicemail service for the Avaya IP Office users. The IPC turret users do not have any voicemail capabilities in the test configuration.

A five digit dial plan was used to facilitate dialing between the Central and Remote sites. Unique extension ranges were associated with Avaya IP Office users at the Central site (7700x, 7701x and 7702x), and IPC turret users at the Remote site (7205x).



Figure 1: Test Configuration of IPC Unigy

4. Equipment and Software Validated

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

Equipment	Software
Avaya IP Office 500 V2	8.0 (16)
Avaya IP Office Manager	10.0 (16)
Avaya1616-I (H.323)	1.3.0
Avaya 1416 Digital Telephone	-
Avaya 1220 IP Deskphone (SIP)	04.03.09.00
IPC Unigy	01.00.00.04.0009
Turrets	01.00.00.04.0009

5. Configure Avaya IP Office

This section provides the procedures for configuring Avaya IP Office. The procedures include the following areas:

- Verify IP Office license
- Obtain LAN IP address
- Enable SIP trunks
- Administer SIP line
- Administer incoming call route
- Administer short code
- Administer users

5.1. Verify IP Office License

From a PC running the Avaya IP Office Manager application, select **Start** \rightarrow **Programs** \rightarrow **IP Office** \rightarrow **Manager** to launch the Manager application. Select the proper IP Office system, and log in with the appropriate credentials (not shown).

The Avaya IP Office R8 Manager screen is displayed. From the configuration tree in the left pane, select License \rightarrow SIP Trunk Channels to display the SIP Trunk Channels screen in the right pane. Verify that the License Status is "Valid", and that the Instances value is sufficient for the desired maximum number of simultaneous SIP trunk channels.

🖬 Avaya IP Office R8 Manager 00E00705AC6F	[8.0(16)] [Administrate	or(Administrator)]	
<u> E</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp			_	
00E00705AC6F Ticense	 SIP Tri 	unk Channels	🔄 📃 🚨 - 🔙 I 🖪 🔜 🖬 🔺 I 🗸	∕ ॐ ⇄ 🖥
IP Offices		xxx	SIP Trunk Channels	📸 • 🗙 • < >
Office Worker one-X Portal for IP Office Phone Manager Pro Phone Manager Pro (per seat) Phone Manager Pro IP Audio Enabled (users) Power User Preferred Edition (VoiceMail Pro) Preferred Edition Additional VoiceMail Ports Preferred/Advanced to Branch Edition Migrat Proactive Reporting RAS LRQ Support (Rapid Response) Receptionist Report Viewer SIP Trunk Channels VMPro Networked Messaging VMPro Networked Messaging VMPro Percordinos Administrators	ion	Licenses License Key License Type License Statu: Instances Expiry Date	Wn0OlCdRgtmFFBggnOu7o1soGgs1dBLu SIP Trunk Channels Valid 255 Never	
 VMPro TTS (Generic) VMPro TTS (Scansoft) 	*		Ōĸ	Cancel Help
Ready				

5.2. Obtain LAN IP Address

From the configuration tree in the left pane, select **System** to display the screen below in the right pane. Select the **LAN1** tab, followed by the **LAN Settings** sub-tab in the right pane. Make a note of the **IP Address**, which will be used later to configure IPC. Note that IP Office can support SIP trunks on the LAN1 and/or LAN2 interfaces, and the compliance testing used the LAN1 interface.

IP Offices	E 00E00705AC6F 🖻 → × ✓ < >
	VCM CCR Codecs System LAN1 LAN2 DNS Voicemail Telephony Directory Services System Events SMTP SMDR Twinning LAN Settings VoIP Network Topology SIP Registrar ID Address ID I
IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	IP Address IO 0 0 21 IP Mask 255 255 0 Primary Trans, IP Address 0 0 0
Short Code (65) Service (0) RAS (1)	RIP Mode Vone V
 Incoming Call Route (15) WanPort (0) Oirectory (0) Time Profile (0) Firewall Profile (1) 	Number Of DHCP IP Addresses 200 DHCP Mode Server Client Disabled Advanced

5.3. Enable SIP Trunks

Select the VoIP sub-tab. Make certain that SIP Trunks Enable is checked, as shown below.

IP Offices	E 00E00705AC6F
	VCM CCR Codecs System LAN1 LAN2 DNS Voicemail Telephony Directory Services System Events SMTP SMDR Twinning LAN Settings VoIP Network Topology SIP Registrar Image: Content of the second se
 Ine (13) Control Unit (3) Extension (22) User (24) W HuntGroup (2) Short Code (65) 	 ✓ H.323 Gatekeeper Enable ✓ SIP Trunks Enable ✓ SIP Registrar Enable
RAS (1) Comming Call Route (15)	RTP Port Number Range Port Range (Minimum) 49152
Wain Bit (0) Main Bit (0) Directory (0) Time Profile (0) B-00 Firewall Profile (1) B-11 Proute (8) Accent (0)	Port Range (Maximum) 53246 Port Range (Maximum) 53246 Constant of the second s

5.4. Administer SIP Line

From the configuration tree in the left pane, right-click on Line, and select New \rightarrow SIP Line from the pop-up list to add a new SIP line.

The **SIP Line** tab is displayed. For **ITSP Domain Name**, enter the applicable domain name for the network configuration, in this case "ipc.com". Uncheck **REFER Support**, as shown below. Retain the default values in the remaining fields.

IP Offices		X X X	S	IP Line - Line 28		📸 • 🗙 • < >
BOOTP (2)	^	SIP Line Transport SIF	URI VOIP T	38 Fax SIP Credentials		
		Line Number	28 🔹			
Grand System (1)		ITSP Domain Name	ipc.com		In Service	
ि - 1ि Line (13) 1ि 1					Use Tel URI	
-f72		Prefix			Check OOS	
-174		National Prefix	0		Call Routing Method	Request URI 💌
		Country Code			Originator number for forwarded and twinning calls	
21		International Prefix	00		Name Priority	System Default 🛛 👻
24		Send Caller ID	None	~		
25		Association Method	By Source IP a	ddress	*	
27		REFER Support				
🕤 🔁 Control Unit (3)		Incoming		Auto	~	
	-	Outgoing		Auto	~	
HuntGroup (2)						

Select the **Transport** tab in the right pane. For **ITSP Proxy Address**, enter the IP address of IPC Unigy. For **Layer 4 Protocol**, select "UDP". Retain the default values for the remaining fields.

IP Offices	E SIP Line - Line 28	📸 • 🗙 • < >
IP Offices IP Operator (3) Operator (3) ODE00705AC6F System (1) ODE00705AC6F IP Offices ODE00705AC6F IP Offices IP Offices System (1) IP Offices IP Offices IP Offices IP Operator (3) IP Offices IP Operator (3) IP Operator (1) IP Operator (1) <	SIP Line - Line 28 SIP Line Transport SIP URI VoIP T38 Fax SIP Credentials ITSP Proxy Address 10.64.10.109 Network Configuration Layer 4 Protocol UDP Vise Network Topology Info None Listen Port 5060 Explicit DNS Server(s) 0 0 Calls Route via Registrar	
27		

Select the **SIP URI** tab, and click **Add** to display the **New Channel** section. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Local URI: Enter the wildcard character "*".
- Contact: "Use Internal Data"
- Display Name: "Use Internal Data"
- PAI: "Use Internal Data"
- Incoming Group: An unused group number.
- **Outgoing Group:** An unused group number.
- Max Calls per Channel: The desired maximum number of simultaneous calls.

IP Offices		***	SIP Line - Line 28	📸 • 🗙 🗸 < >
■ & BOOTP (2)	^	SIP Line Transport SIP URI	VoIP T38 Fax SIP Credentials	
Operator (3) Operator (3) Operator (3) Operator (3) Operator (3) Operator (1) O		Channel Groups	Via Local URI Contact Display Name PAI Credential	Max Calls Add Remove Edit
	Ш	Edit Channel	<none></none>	OK Cancel
21 		Local URI Contact U	Jse Internal Data	
26 27 28		PAI U	Jse Internal Data	
	-	Incoming Group 2	28	
HuntGroup (2)		Outgoing Group 2 Max Calls per Channel	0	

The following screen shows the SIP URI page used during the compliance test.

IP Offices	SIP Line - Line 28	📸 • 🗙 • < >
	SIP Line Transport SIP URI VoIP T38 Fax SIP Credentials Channel Groups Via Local URI Contact Display Name PAI Credential 1 28 28 < *	Max Calls Add
900E00705AC6F 日一行了 Line (13) 一行了 1	2 28 28 < * * * N 0: <non< td=""><td>10 Remove</td></non<>	10 Remove

Select the **VoIP** tab, and check **Re-invite Supported**. Retain the default values for the remaining fields.

IP Offices	3	SIP Line - Line 28*	📸 • 🗙 • < >
IP Offices ■ - & BOOTP (2) ■ - © Operator (3) ■ - © 00E00705AC6F ■ - © 00E00705AC6F ■ - ₹7 1 ■ - ₹7 1 ■ - ₹7 1 ■ - ₹7 3 ■ - ₹7 3 ■ - ₹7 4 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ - ₹7 ■ ■ - ₹7 ■ ■ - ₹7 ■ ■	SIP Line Transport SIP URI Codec Selection	SIP Line - Line 28* VoIP T38 Fax SIP Credentials System Default Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Im	VoIP Silence Suppression VoIP Silence Suppression Re-invite Supported Use Offerer's Preferred Codec Codec Lockdown PRACK/100rel Supported
27 28 ⊕ ≪ Control Unit (3) ⊕ ∞ Extension (22)	Call Initiation Timeout (s) DTMF Support	4 🗘 RFC2833	

5.5. Administer Incoming Call Route

From the configuration tree in the left pane, right-click on **Incoming Call Route**, and select **New** from the pop-up list to add a new route. For **Line Group Id**, select the incoming group number from **Section 5.4**, in this case "28".

IP Offices		0*		📸 • 🗙 • >
21 22 24	Standard Voice Recording Bearer Capability	Destinations Any Voice	×	
	Line Group ID	28	▼	
27	Incoming Number			
	Incoming Sub Address			
HuntGroup (2) HuntGroup (2) HuntGroup (65)	Locale		~	
	Priority	1 - Low	~	
Incoming Call Route (15) P 25	Tag Hold Music Source	System Source		
		System Source		

Select the **Destinations** tab. For **Destination**, enter "." to match any dialed number from IPC.

IP Offices	X	0*	📥 - 🗙	✓ < >
	Standard Voice Recording Dest	inations		
22	TimeProfile	Destination	Fallback Extension	
	Default Value		~	~
` \$ 26 ` \$ 27				

5.6. Administer Short Code

From the configuration tree in the left pane, right-click on **Short Code** and select **New** from the pop-up list to add a new short code for calls to IPC. In the compliance testing, users on IPC are designated with extensions 7205x, and the calls are routed over the SIP trunk to IPC Unigy.

For **Code**, enter "7205x". For **Telephone Number**, enter the value shown below where "." is to denote any calls that starts with 7205 will be sent using Line group (trunk) 28. For **Line Group ID**, enter the outgoing group number from **Section 5.4**.

IP Offices	×××	7205x: Dial	<u> × × < ></u>
9x *47	Short Code		
9X *49	Code	7205x]
9× *50 9× *51	Feature	Dial	
9× *52 9× *53*N#	Telephone Number		
9x *57*N#	Line Group ID	28	
9× *71*N#	Locale	✓	
••• 9 × *9000* ••• 9 × *91N;	Force Account Code		
9× *92N;			
9X ON			
9× 2200× 9× 5N;			
9× 6xxxx ■			

5.7. Administer Users

From the configuration tree in the left pane, select a user from Section 3 that will be placing and receiving calls via the SIP trunks with IPC. In this case, the user is "77011". Navigate to the SIP tab. For SIP Name, SIP Display Name, and Contact, enter the desired values to be used in the SIP URI's From, Display Name, and Contact fields respectively.

Repeat this section for all users placing and receiving calls with IPC. In the compliance testing, three users with extensions 77011, 77022, and 77001 were configured.

IP Offices	E Extn211: 77011
26 A	User Voicemail DND ShortCodes Source Numbers Telephony Forwarding Dial In Voice Recording Personal Directory
E Control Unit (3)	Button Programming Menu Programming Mobility Phone Manager Options Hunt Group Membership Announcements SIP
	SIP Name 77011
NoUser	SIP Display Name (Alias) Extn211
RemoteMana 77001 Extn2(Contact 77011
77002 Extn2(
204 Extn204	Anonymous

6. Configure IPC Media Manager

This section provides the procedures for configuring IPC Unigy. The procedures include the following areas:

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

The configuration of IPC Unigy is typically performed by IPC installation technicians. The procedural steps are presented in these Application Notes for informational purposes.

6.1. 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 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**.

Password:		
I agree with the	Terms of Use	
		Login

6.2. Administer SIP Trunks

Select Site Configuration under the Configuration menu at the top. Navigate to Trunks \rightarrow SIP Trunks in the left pane. Click the Add icon in the lower left pane to add a new SIP trunk. The screen below is displayed. Select "Dial Tone" from the Select Connection Type drop-down list.



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 IP Office.

"Avaya"

- Destination Port "5060"
- Zone Channel

- An available zone, in this case "Default Zone 1".
- **rotocol** The number of SIP trunk group members in Section 5.4. "SIP"
- Reason Protocol
- PBX Provider
- Connected Party Update "UPDATE"

Click the Save button.

Configuration System Designer Alar	ms Tools About He	əlp	23:33 EDT-0400 craft
	guration> Site Configuration	n	Powered by IPC
Site Configuration:	Trunk:		Basic Advanced
Location: All Location:	DialTone		
Trunks	Trunk Configuration		
SIP Trunks Media Gateways	Trunk Name	* SIP-IPO	
Communication Devices	Number of Trunks	* 1	
▶ Servers	Connection Type	Dial Tone	
Lines and Extensions	Destination Address	* 10.64.44.21	
▼ Routing	Destination Port	* 5060	
	Media Manager Profile	* Safe	
	Zone	* Default Zone 1	
	Channels	10	
SIP-ASM	Reason Protocol	* SIP 💌	
	PBX Provider	* None 🔻	
	Connected Party Update	* UPDATE 🗸 🗸	v
			Delete Revert Save

6.3. Administer Trunk Groups

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

The **Trunk Group** screen is displayed in the right pane. In the **Properties** tab, enter a descriptive **Name**, and click **Save**. Select the **Trunks** tab in the right pane.

Configuration System Designer Aları	ns I Tools I About I Help	23:28 EDT-0400 craft
Confi	guration> Site Configuration	Powered by IPC
Site Configuration:	Trunk Group:	
Location: All Location:	Properties Trunks	
	Name * AvayaIPO Zone * Default Zone 1 • Distribution Algorithm * TopDown • Capacity Alarm Threshold 80	
	Delete	Revert Save

The screen is updated with three panes. In the rightmost pane, select the **Trunks** tab to display a list of trunks. Select the SIP trunk from **Section 6.2** in the rightmost pane and drag to the middle pane as shown below. Click **Save**.

Configuration System Designer Alarm	ns i Tools i Ab	out I Help				23:44 EDT-0400 craft			
Config	uration> Site Co	nfiguration				Powered by IPC			
Site Configuration: Location	ite Configuration: Location 🗐 🔻 Trunk Group: AvayalPO								
Location: All Location:	Properties	Trunks			Trunks	MG Trunks			
▼ Routing		Name	Channels		Name	Channels			
Trunk Groups	SIP-IPO		10						
Route Lists									
Dial Patterns									
Route Plans									
▶ Codecs					II				
Trunk Groups 🕀									
Trunk Groups									
TDM Recording_DoNotChange									
AvayaASM									
AvayaIPO			Remove	Save					

6.4. Administer Route Lists

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

The Route List screen is displayed in the middle pane. For Route List, enter a descriptive name. In the right pane, select the trunk group from Section 6.3 and drag into the Assigned Trunk Groups on Route List sub-section in the middle pane, as shown below. Click Save.

Configuration System Designer Alarr	ns I Tools I About I Help	23:46 EDT-0400 craft
	guration> Site Configuration	Powered by IPC
Site Configuration: Location Location: All Location: Codexing Coute Lists Dial Patterns Route Plans Codexies Voice Recording Codexies Name Route Lists	Route List : Route List Route List * Route2IPO Description Assigned Trunk Groups on Route List. You can remove or add Trunk Groups AvayalPO Remove	Available to Assign Trunk Groups Name TDM Recording_DoNotChange AvayaASM AvayaIPO
	Revert Delete Save	

6.5. Administer Dial Patterns

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

In the **Dial pattern Details** sub-section in the lower right pane, enter the desired **Name** and **Description**. For **Pattern String**, enter "*", meaning any call will be sent to IP Office. For **Call Classification**, select "External".

Click Save.

Configuration System Designer Alarm	s I Tools I About I Help	15:18 EDT-0400 craft
Config	uration> Site Configuration	Powered by PC
Site Configuration: Location	Dial Patterns	
Location: All Locations	Name Pattern String Outbound CLI Call Classificatio Prefix Digits Description	
		Add New Delete
Hunt Group V Routing Trunk Groups	Dial pattern Details	
Route Lists	Name * all	
Route Plans ▶ Codecs ▶ Voice Recording	Description * Call to IPO Pattern String * * Outbound CL	
License Manager > System > Directories > System Features	Call Classification * External Prefix Digits	
SNMP Profiles SMTP		Revert Save

In the compliance the following dial pattern was created.

Configuration System Designer Alarm	Configuration System Designer Alarms Tools About Help 15:19 EDT-0400 craft Image: Configuration -> Site Configuration Powered by PC Site Configuration: Location + Image: Configuration -> Site Configuration Powered by PC Dial Patterns Name Variance Pattern String Outbound CLI Call Classificatio Image: Contraction -> Site Configuration Image: Configuration -> Site Configuration								
		Configuration					Powered by IPC		
Site Configuration: Location	Dial Patterns	•							
Location: All Location:	Name	Pattern String	Outbound CLI	Call Classificatio	Prefix Digits	Description			
▼ Trunks ▲ SIP Trunks	all	*		External		*			
Media Gateways ▶ Communication Devices									

6.6. Administer Route Plans

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

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

Configuration System Designer A	arms I Tools I About I Help	23:13 EDT-0400 craft
	figuration> Site Configuration	Powered by IPC
Site Configuration:	Route Plan	Available to Assign
Location: All Location:	Create New Route Plan	Route Lists
 ▶ Trunks ▲ Communication Devices ▶ Servers ▶ Lines and Extensions Hunt Group ♥ Routing Trunk Groups Route Lists Dial Patterns 	UI Name * Route to IPO Description	Name Route2ASM Route2IPO
Route Plans		
 Voice Recording License Manager ▶ System 	Remove	
Directories System Features	Back Revert Save	

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

Configuration System Designer Alar	rms	I Tools I Ab	out I Help		23:16 EDT-0400 craft
	figu	ration> Site Co	nfiguration		Powered by IPC
Site Configuration: Location		Route Plan			
Location: All Location:		List of Route Plans			
		UI Name	Calling Party	Called Party	Action
► Trunks					
Communication Devices	L	Route to IPO	*	all	FORWARD
► Servers	L				
Hunt Group					
- Routing					
Trunk Groups	L				
Route Lists					
Dial Patterns					
Route Plans					Delete Add New Revert Save Sequence Change

The screen is updated with three panes again, as shown below. In the right pane, select the route list from **Section 6.4** and drag into the **Route List** sub-section in the middle pane, as shown below. Click **Save**.

Configuration System Designer Alarn	is Tools About Help	23:17 EDT-0400 craft
	uration -> Site Configuration	Powered by IPC
Site Configuration: Location Location: All Locations FTrunks Communication Devices Servers Lines and Extensions Hunt Group Routing Trunk Groups Route Lists Dial Patterns Route Plans	Action * Forward * Route List: Route2IPO	Powered by PC Available to Assign Route Lists Name Route2ASM Route2IPO
Codecs Voice Recording License Manager System Directories System. Features T	Remove Back Revert Save V	

7. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya IP Office and IPC Unigy. Establish a call between Avaya IP Office and IPC Unigy.

From the PC that installed Avaya IP Office R7 Manager, navigate to All Programs \rightarrow IP Office \rightarrow System Status to launch the System Status application, and log in using the appropriate credentials. The IP Office System Status screen is displayed. Expand Trunks in the left pane and select the SIP line from Section 5.4, in this case "28".

Verify that the **SIP Trunk Summary** screen shows an active channel with **Current State** of "Connected". Also verify that the **Remote RTP Address** contains the IP address of the turret, and that **the Other Party on Call** contains the local IPO user.

AVAYA							IP	Office	Syst	tem Statu	S					
Help Snapshot LogOff E:	it About															
 System Alarms (35) 	Status	Jtilizat	tion Sum	nmary .	Alarms											
Extensions (12)								G	ID Trunk	Summary						
🗏 Trunks (13)								0.		Summary						
Lines: 1 - 4	Peer Doma	in Nar	me:		ipc.com	l.										
Line: 5	Resolved A	ddres	55:		10.64.1	10.109										
Line: 17	Line Numbe	er:			28											
Line: 22	Number of	Admir	nistered	Channels:	20											
Line: 24	Number of	Chan	nels in l	Jse:	1											
Line: 25	Administer	ed Co	mpressi	on:	G729 A	, G711 Mu, G71	1 A, G7	231								
Line: 26	Silence Sup	press	sion:		Off											
Line: 27	SIP Trunk	hanr	nel Licen	ses:	Unlimite	ed 🖌		,								
Line: 28	SIP Trunk (Thann	nel Licen	ses in Use:	1		0%	6								
Active Calls	SIP Device	Feati	ures:													
Voicemail																
IP Networking	Channel		Call	Current	Time in State	Remote Media Addr	Codec	Connection	Caller ID	Other Party on Call	Direction of Call	Round Trip	Receive	Receive Recket I	Transmit Jittor	Transmit Dockot I
	1 Normber	0	2615	Connected	00:00:33	10 64 41 181	6729.0	DTD Delay	or Diale	Evto 77011 Evto21	Outaoina	Delay	JICCEI	Facket L	Diccer	FIGUNDU LITT
	2	- °	2015	Idle	39 days	10.01.11.101	0/2/1	KIT Koldy		EX0177011, EX021	Catgoing					
	3			Idle	41 days											
	4	-		Idle	41 days											
	5			Idle	42 days											
	6			Idle	42 days											
	7			Idle	42 days											
	8	-		Idle	42 days											
	10	-		Idle	42 days											
	11	-		Idle	42 days											
	12	-		Idle	42 days											
	13			Idle	42 days											
	14			Idle	42 days											
	15			Idle	42 days											
	16			Idle	42 days											
	17			Idle	42 days											
	18	-		Idle	42 days											
	20	-		Idle	42 days											
			1	1 10	12 3375 11	1	1	1	1	1	1	1	1	1	1	·

8. Conclusion

These Application Notes describe the configuration steps required for IPC Unigy to successfully interoperate with Avaya IP Office. All feature and serviceability test cases were completed. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

9. Additional References

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

- 1. *IP Office 8.0 IP Office Installation*, Document Number 15-601042, Issue 25b, March 08, 2012
- 2. *IP Office Release 8.0 Manager 10.0*, Document Number 15-601011, Issue 28h, March 28 2012
- **3.**] *IP Office System Status Application*, Issue 06b, November 12, 2011 Document Number 15-601758
- 4. *IP Office System Monitor*, Document Number 15-601019, Issue 02b
- 5. *Unigy 1.0 System Configuration*, Part Number B02200187, Release 01, upon request to IPC Support.

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