

Avaya Solution & Interoperability Test Lab

Application Notes for IPC System Interconnect with Avaya Modular Messaging in a Centralized Messaging Environment – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for IPC System Interconnect 16.1 to interoperate with Avaya Modular Messaging 5.2 using Avaya Aura® Communication Manager 5.2.1 and Avaya Aura® SIP Enablement Services 5.2.1 in a centralized messaging environment.

IPC System Interconnect is a trading communication solution. In the compliance testing, IPC System Interconnect used SIP trunks to Avaya Aura® SIP Enablement Services, for IPC turret users to obtain basic voice messaging services from Avaya Modular Messaging. The Avaya Modular Messaging system in the Central site supported local subscribers from Avaya Aura® Communication Manager at the Central site, and from IPC turret users at the Remote site.

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 System Interconnect 16.1 to interoperate with Avaya Modular Messaging 5.2 using Avaya Aura® Communication Manager 5.2.1 and Avaya Aura® SIP Enablement Services (SES) 5.2.1 in a centralized messaging environment.

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1.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing included subscriber login, greeting, display, voice message, message waiting indicator, call forward, multiple call forward, call me, and auto attendant.

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

1.2. Support

Technical support on IPC System Interconnect can be obtained through the following:

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

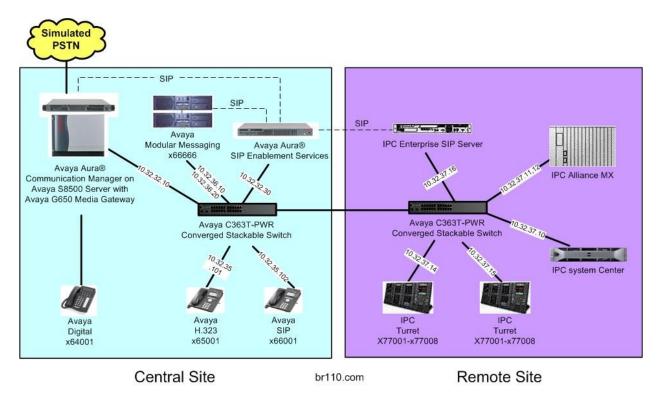
2. Reference Configuration

As shown in the test configuration below, IPC System Interconnect at the Remote Site consists of the Enterprise SIP Server (ESS), Alliance MX, System Center, and Turrets. SIP trunks are used from IPC System Interconnect to Avaya Aura® SES, to reach Avaya Modular Messaging for voice messaging services. Avaya Modular Messaging is configured as an adjunct system on Avaya Aura® SES.

The detailed administration of basic connectivity among Avaya Aura® Communication Manager, Avaya Aura® SIP Enablement Services, and Avaya Modular Messaging is not the focus of these Application Notes and will not be described.

The detailed administration of SIP trunks among Avaya Aura® Communication Manager, Avaya Aura® SIP Enablement Services, and IPC System Interconnect, to enable IPC turret users to reach users on Avaya Aura® Communication Manager and on the PSTN, is assumed to be in place and will not be described.

These Application Notes will focus on the additional configuration required to support IPC turret users as local subscribers on Avaya Modular Messaging.



3. Equipment and Software Validated

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

Equipment	Software
 Avaya Modular Messaging Messaging Storage Server Messaging Application Server 	5.2 SP4 5.2 SP4
Avaya Aura® Communication Manager on Avaya S8500 Server	5.2.1 (R015x.02.1.016.4-18433)
 Avaya G650 Media Gateway TN799DP C-LAN Circuit Pack TN2302AP IP Media Processor 	HW01 FW038 HW20 FW121
Avaya Aura® SIP Enablement Services	5.2.1 (SES-5.2.1.0-016.4)
Avaya 6408D Digital Telephone	NA
Avaya 1608 IP Telephone (H.323)	1.3
Avaya 9630 IP Telephone (H.323)	3.1
Avaya 9630 IP Telephone (SIP)	2.6.2
 IPC System Interconnect Alliance MX Enterprise SIP Server System Center SIPX Line Card Turrets 	SipProxy-2.00.01-13 16.01.01.03.0007 16.01.01.03.0007 16.01.01.03.0007 16.01.01.03.0007 16.01.01.03.0007

4. Configure Avaya Modular Messaging MSS

This section provides the procedures for configuring IPC turret users as local subscribers on Avaya Modular Messaging. The subscriber management is configured on the Messaging Storage Server (MSS) component. The configuration procedures include the following areas:

- Launch messaging administration
- Administer subscriber extension ranges
- Administer subscribers

4.1. Launch Messaging Administration

Access the MSS web interface by using the URL "http://ip-address" in an Internet browser window, where "ip-address" is the IP address of the MSS server. The **Logon** screen is displayed. Log in using a valid user name and password. The **Password** field will appear after a value is entered into the **Username** field.

AVAYA		Messaging Administration Modular Messaging
Help		
	Logon ^{Userna}	me
		Login
	© 2009 Avaya Ir	nc. All Rights Reserved.

The Messaging Administration screen appears, as shown below.



TLT; Reviewed: SPOC 1/17/2011

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4.2. Administer Subscriber Extension Ranges

Select **Messaging Administration > Networked Machines** from the left pane, to display the **Manage Networked Machines** screen. Select the MSS server from the table listing, and click **Edit the Selected Networked Machine** toward the bottom right of the screen.

AVAYA						odular Messaging
Help Log Off						This server: 10.32.36.10
 Messaging Administration Subscriber Management Activity Log Configuration 	Manage	Networked	Machine	S		~
Messaging Attributes Classes-of-Service	Machine	IP Address	Machine	Type Total	Subs 👻	
Enhanced-Lists Sending Restrictions System Administration	brmss1	10.32.36.10	local	11		
Request Remote Update Networked Machines Trusted Servers Server Administration						
Configure Using DCT TCP/IP Network Configura External Hosts	-					
MAS Host Setup MAS Host Send	Displa	y Report of Networked	Machines		elete the Sel	ected Networked Machine
Windows Domain Setup Console Reboot Option Date/Time/NTP Server	Add a N	ew Networked Machine	•		Edit the Se	lected Networked Machine
Syslog Server Modem/Terminal Display Modem/Terminal Configur	Display N	etwork Snapshot)	Display F	Report of Net	worked Machine Ranges

The Edit Networked Machine screen is displayed. Under the MAILBOX NUMBER RANGES section, locate an available entry line and enter the desired starting and ending mailbox numbers to be used for the IPC subscribers, in this case "70000" to "79999". Scroll down to the bottom of the screen and click Save (not shown).

Αναγα						odular Messagi Iging Administration	
Help Log Off						This server: 10.32.36	i.10
Activity Log Configuration Messaging Attributes	Edit Networked	Mac	hine				^
Classes-of-Service Enhanced-Lists Sending Restrictions System Administration Request Remote Update Networked Machines	<u>Machine Name</u>	brmss1		<u>Confirm</u>	P <u>assword</u> Password		
Networked Machines Trusted Servers Server Administration	IP Address	10.32.3	6.10	Mac	hine Type	tcpip 🕶	
Configure Using DCT TCP/IP Network Configura External Hosts	Mailbox Number Length	5 💌		Default C	ommunity	1 💌	
MAS Host Setup MAS Host Send	<u>Updates In</u>	yes	/	Up	idates Out	yes 💙	
Windows Domain Setup Console Reboot Option Date/Time/NTP Server Syslog Server	LDAP Port	56389		<u>Log l</u>	Jpdates In	no 💌	_
Modem/Terminal Display Modem/Terminal Configur Modem/Terminal Removal	MAILBOX NUMBER RANGES	6					=
TCP/IP Service Settings TIMAP/SMTP Administration	Prefix		Starting Mailbox	Number	Ending	<u>Mailbox Number</u>	
SMTP Options Mail Options			60000		69999		
IMAP/SMTP Status Server Information Server Status Alarm Summary			70000		79999		

4.3. Administer Subscribers

Select **Messaging Administration > Subscriber Management** from the left pane, to display the **Manage Subscribers** screen. For the **Local Subscriber Mailbox Number** field toward the top of the screen, enter the first IPC turret extension to add as a local subscriber, in this case "77005". Click **Add or Edit**.

Αναγα					Me		Messaging
Help Log Off						This ser	ver: 10.32.36.10
 Messaging Administration Subscriber Management Activity Log Configuration 	Manage Subs	cribers	14				
Messaging Attributes Classes-of-Service Enhanced-Lists Sending Restrictions System Administration Request Remote Update	 Local Subscrib 	er Mailbox I <u>Machine</u> Name	Number 77005 Local Subscriber	<u>Total</u> Subscribers		Add or Edi <u>Filtered</u> Subscribers	
Networked Machines Trusted Servers Server Administration Configure Using DCT TOD View Using CC	 Local Subscribers 	<u>Mame</u>	Mailboxes	11	(Filter)	11	
TCP/IP Network Configura External Hosts MAS Host Setup MAS Host Send Windows Domain Setup	Remote	Drmssl	10		Filter		Manage
Console Reboot Option Date/Time/NTP Server Syslog Server Modem/Terminal Display Modem/Terminal Configur Modem/Terminal Removal	Subscribers	internet		0	Filter	0	Manage

The Add Local Subscriber screen is displayed next. Enter the desired string into the Last Name, First Name, and Password fields.

In the compliance testing, the same telephone extensions for the IPC subscribers were used for the **Mailbox Number**, **Numeric Address**, and **PBX Extension** fields. Select the appropriate **Class Of Service**, and retain the default values in the remaining fields.

Scroll down to the bottom of the screen and click **Save** (not shown). Repeat this section to add all IPC subscribers.

AVAYA				Modular Messaging Messaging Administration
Help Log Off				This server: 10.32.36.1
Messaging Administration Subscriber Management Activity Log Configuration Messaging Attributes Classes-of-Service Enhanced-Lists	Add Local \$	Subscriber		
Sending Restrictions System Administration Request Remote Update Networked Machines	BASIC INFORMATI * (Required Fields]
Trusted Servers Server Administration	*Last Name	IPC	First Name	Trad 5
Configure Using DCT TCP/IP Network Configura External Hosts	*Password	•••••	*Mailbox Number	77005
MAS Host Setup MAS Host Send Windows Domain Setup	<u>*Numeric</u> Address	77005	PBX Extension	77005
Console Reboot Option Date/Time/NTP Server Syslog Server Modem/Terminal Display Modem/Terminal Configur	*Class Of Service	0 - class00 💌	<u>*Community ID</u>	1

5. Configure Avaya Modular Messaging MAS

This section provides the procedures for configuring the Avaya Messaging Application Server (MAS) servers. A change is needed on each MAS server, to set the way Modular Messaging reads the SIP History Information records for proper integration with IPC. Note that enabling this setting has an impact on the proper identification of calling party number for Vectoring call scenarios.

From the first MAS server, navigate to the C:\Avaya_Support\Registry_Keys directory, and double-click on CalledPartyAlgorithm-Orig.reg.

C:\Avaya_Support\Registry_Keys						
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	ile Edit View Favorites Tools Help					
🔇 Back 🔹 🕤 👻 🇊 🔎 Search 🌔 Folders 📋	3 3 X	▶				
Address 🗁 C:\Avaya_Support\Registry_Keys				💽 🔁 G	o	
Name 🔺	Size	Туре	Date Modified	Attributes		
Avaya_DSE_7434D_correct_integration.reg	1 KB	Registration Entries	2/12/2007 2:46 PM	A		
CalledPartyAlgorithm-New1.reg	1 KB	Registration Entries	8/19/2008 12:03 PM	A		
CalledPartyAlgorithm-Orig.reg	1 KB	Registration Entries	8/19/2008 12:03 PM	A	-	
CCI_Prevent_AA_Message_Transfer.reg	1 KB	Registration Entries	2/12/2007 2:47 PM	A		
Convertsupp_2_0portmas.reg	1 KB	Registration Entries	2/23/2009 3:55 AM	A		
DefaultDiversionReason_busy.reg	1 KB	Registration Entries	2/12/2007 2:47 PM	A		
disable_alarm_on_vector_handler.reg	1 KB	Registration Entries	2/12/2007 3:30 PM	A		
disable_Nortel_DSE.reg	1 KB	Registration Entries	2/12/2007 2:47 PM	A	-	

Select Start > Settings > Control Panel > Administrative Tools > Services, to display the Services screen. Navigate to the MM Messaging Application Server entry, right-click on the entry and select Restart. Repeat these procedures on all MAS servers.

File Action ⊻iew					
Services (Local)	Services (Local)				
	MM Messaging Application Server	Name A	Description	Status	Startup Type
		MM Alarming server	Provides al	Started	Automatic
	Stop the service	MM Audit Service	MM Audit S	Started	Automatic
	Restart the service	MM Call Me Server	Enables Av	Started	Automatic
		MM Event Monitor Server	Monitors a	Started	Automatic
	Description: Provides a telephone user interface for external callers and Avaya Modular Messaging subscribers, and telephony	MM Fault Monitor	Monitor fa	Started	Automatic
		🆓 MM Fax Sender Server	Provides a	Started	Automatic
		MM Mailbox Monitor	Monitors A	Started	Automatic
	services for other MM applications	🏶 MM Message Waiting Indicator Server	Enables Av	Started	Automatic
		MM Messaging Application Server	Provides a	Started	Automatic
		MM Performance Monitor Server	Monitors A	Started	Automatic
		MM Process Monitor Server	Monitors cr	Started	Automatic
					• •

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6. Configure Avaya Aura® SIP Enablement Services

The detailed configuration for adding Avaya Modular Messaging as an adjunct system on Avaya SES is assumed to be in place and will not be described. This section provides the procedures for enabling unsolicited Notify messages, which is required for proper IPC integration.

Log in to the Linux shell of the SES server with the appropriate credentials. Navigate to the /usr/impress/sip-server/etc directory, and open the ccs.conf file.

Navigate to the **Proxy** section, and set the **RouteUnsolicitedNotifyToPermanentContacts** parameters to "true", as shown below. This will enable SES to support unsolicited Notify messages from Avaya Modular Messaging for the IPC subscriber.

```
[Proxy]
; EnableTlsClientAuthentication values are no longer true or false. Valid
; values are:
; none - never use client certificates
; optional - client certificates may or may not be present
; mandatory - client certificates must be present
_____
EnableAuthentication=true
;EnableSpoofingCheck=false
EnableTlsClientAuthentication=optional
EnableSubscribeRouting=false
EnableWCallFlow=true
PerContactWaitTime=180
MM PerContactWaitTime=0
TimerB=2000
TimerC=180000
LocationSetTimer=180
EnableUnregisteredOptimContacts=true
InsertRecordRoute=false
CorrectReferToHeader=true
;EnableThirdPartyOriginatingProcessing=true
;SourcePaiHeaderFromFromHeader=true
ProxyType=TransactionStateful
EnableRecursion=true
EnableRecordRoute=true
;EnableOODReferRouting=false;
RouteUnsolicitedNotifyToPermanentContacts=true
```

From the Linux command line, restart the SipServer component using the commands shown below.

```
xxxxx@brses1> stop -s SipServer
Do you really want to continue? (y or n) y
xxxxx@brses1> start -s SipServer
xxxxx@brses1>
```

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7. Configure IPC System Interconnect

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

- Launch One Management System
- Administer voicemail domain
- Administer voicemail buttons

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

7.1. Launch One Management System

Access the One Management System web interface by using the URL "http://ipaddress/oneview" in an Internet browser window, where "ip-address" is the IP address of IPC System Center. Log in using the appropriate credentials.

The Login screen is displayed. Enter the appropriate credentials. Check I agree to the terms and conditions, and click Login.

The License Login screen is displayed next (not shown). Enter the appropriate password and click Login. In the subsequent Login Information screen (not shown), click Continue.

One Management System	Login E	nglish
0 7	Password	
	Reset	Login
TERMS AND CONDITIONS	🗹 I agree to the ter	ms and conditions.
Access to this system and/or net in it are lawfully available only fo employees of IPC or other users than where prohibited by law and requirements, IPC reserves the in any form on this system and/	or approved purposes by s authorized by IPC. Oth d subject to legal right to review any inforn	er
This system is for the use of au individuals using this computer : their activities on this system m	system are subject to ha	

7.2. Administer Voicemail Domain

The screen below is displayed next, with the **Main Menu** screen in the forefront. Select **NEXUS** > **SIP Trunk Parameters** > **Edit SIP Config**, as shown below.

Alarm	_				- 🗆 ×
Red Alarms	P	ink Alarms			
				DDI Exte	Time Rep
L	Unk	Main Menu	SIP Sites	0	2010-09-20
	(0)	Hum Hend	▶ SIP Servers		11:32:24
2	Unk	TRADER CONFIG	SIP Authentication	0	2010-09-20
(0)		BUTTON CONFIG	🔻 SIP Trunk Parameters		11:32:24
	1000000	ICM CONFIG	Edit SIP Config		
3	Unk (0)	LINE CONFIG	▶ Update ESS with SIP Trunk Info	0	2010-09-20
		STATION CONFIG	▶ Routing Plan		
4	Unk	GROUPS	Enterprise Lines	0	2010-09-20
	(0)		▶ Enterprise Reach		11:37:24
5	Unk	SYSTEM STATUS	SIP Security Config	0	2010-09-20
	(0)	SYSTEM SETTINGS			11:37:24
		VOICE RECORDING			
5	Unk (0)	LINE NETWORKING		0	2010-09-20
		NEXUS			
7	Unk	MAXaccess 1000		0	2010-09-20
	(0)	TOOLS			11:37:24
3	Unk	REPORTS		0	2010-09-20
	(0)	ONEMS ADMIN			11:42:24

The Edit SIP Config screen is displayed. For DDI Group ID/ DDI Group Name, select the relevant SIP trunk card number from the drop-down list, in this case "5". Click Submit.

Dieview Log out Main Menu 2 Work Areas		Ģ
Edit SIP Config	-	×
DDI Group ID/ DDI Group Name 5 [?] Submit		

Ed	lit SIP Config			EDIT	ACTION 🔳 -	- 🗆 🗙
ele	ect column :		Go			
1	DDI Group ID	Outbound URL	Usemame	Password	Confirm Password	DNS1 IF
1	5	br110.com	avaya	****	****	

The Edit SIP Config screen is updated with the located DDI Group ID entry, as shown below.

Scroll the screen to the right as necessary, and make certain the **VM Domain** field is set to blank as shown below. This setting will disable sending of SIP Subscribe messages from IPC, which is required for proper integration with Avaya Aura® SES.

Ed	lit SIP Config						[20] -	_	
- 02	et column :			Y.	EDIT	ACTION	- 12		×
			Go	J					
	Confirm Password	DNS1 IP Address	DNS2 IP Address	VM Domain	Call Control Port	RTP Star Port	rt	Tran Type	spor 2
1	****			-	5060	16384		тс	•

7.3. Administer Voicemail Buttons

Select MAIN MENU from the top menu to display the Main Menu screen. Select BUTTON CONFIG > Button Data View, as shown below.

Alarm			- 🗆 ×			
Red Alarms	P	ink Alarms				1
1				- x	DDI Exte	Time Rep
1	cor	Main Menu	Button Data View		-1	2010-09-20
	FAI	Fight Field	Button Utilities			20:51:30
2	Car	TRADER CONFIG	Button Locking Utility		-1	2010-09-21
600 1	Loa	BUTTON CONFIG			Server.	10:32:22
3	Car	ICM CONFIG				2010-09-21
4	Loa Car	LINE CONFIG			-1	2010-09-21
-	Res	STATION CONFIG				10:33:40
_) Car	GROUPS				2010-09-21
5	Res	SYSTEM STATUS				10:33:46
)	SYSTEM SETTINGS				
6	Car Res	VOICE RECORDING				2010-09-21 10:33:46
)	LINE NETWORKING				
7	Car	NEXUS			-1	2010-09-21

The **Button Data View** screen is displayed. For **TRID**, select the ID of the trader whose button sheet is being configured, in this case "1". For **Button Class**, select "MODULE BUTTON".

🖭 One	liew Log Out M	AIN MENU 2 WORK AREAS	Ţ		C:/	③ sxdb1
Button Data	/iew		- 1	×		- 🗆 ×
TRID Button Class	1 V MODULE BUTTON V Submit Cancel				Exte	Time Rep 2010-09-20 20:51:30 2010-09-21 10:32:22 2010-09-21 10:32:48

The **Button Data View** screen is updated with a list of configured module buttons. Follow [3] to add a voicemail button for each IPC subscriber, as shown below. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Button Type:** "VOICE MAIL"
- **Extended:** A desired name to use for the phone display.
- **Speed Dial:** The extension number of the IPC subscriber.
- VM system: The voicemail pilot number, in this case "666666".

Repeat this for all trade users. In the compliance testing, two voicemail buttons for IPC subscriber extensions "77005" and "77006" were created on each of the two trade users.

Bu	tton Data Vie	ew Trid:1, Butto	on Class: MOE	DULE BUTTON			EDIT A	CTION 🔲 – 🗖 🗄
Selec	t column :		Go					
1	Button #	Button Type	Extended	Speed Dial/	Incoming	Line LAC /	Line	VM system D
85	93	LINE	SI 77005		HPr Rg Fl CLI	50005	2	
86	94	LINE	SI 77006		HPr Rg Fl CLI	50006	2	
87	99	VOICE MAIL	VM 77005	77005	NOT APPLICAB	-1	2	66666
88	100	VOICE MAIL	VM 77006	77006	NOT APPLICAB	-1	2	66666
89	101	BUTTON SEQUE	Suppress CLI	1314	NOT APPLICAB	-1	2	
90	102	BUTTON SEQUE	Toggle CLI	1318	NOT APPLICAB	-1	2	
91	103	BUTTON SEQUE	Privacy	1211	NOT APPLICAB	-1	2	
92	104	BUTTON SEQUE	Get CLI	1315	NOT APPLICAB	-1	2	

8. General Test Approach and Test Results

The feature test cases were performed manually. Calls were manually established among IPC turret users with Avaya SIP, Avaya H.323, Avaya Digital, PSTN users, and/or the Avaya Modular Messaging voicemail pilot to verify various call scenarios. The Avaya Modular Messaging Web Subscriber Options web-based interface was used to configure subscriber features such as Call Me.

The serviceability test cases were performed manually by disconnecting and reconnecting the LAN cables to the IPC ESS and IPC turrets.

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

- IPC does not offer the Coverage feature, therefore coverage to voicemail for the turret users were accomplished by setting the Modular Messaging pilot number as the Call Forwarding destination for the users.
- IPC does not support the Transfer, Call Sender, Find Me, and Personal Operator features from Modular Messaging. Note that attempt of call scenarios involving IPC turret users with these features can result in calls without talk paths and automatic call disconnect by the system.
- The configuration in **Section 5** to set Modular Messaging to read the SIP History Information records in a different way has a direct impact on the proper identification of calling party number for Vectoring scenarios.
- When an Avaya SIP user calls an IPC turret user that covered/forwarded to the Modular Messaging pilot, the display on the Avaya SIP user will show "restricted" due to the privacy setting in the SIP message being turned on by IPC.

9. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya Modular Messaging, Avaya Aura® SIP Enablement Services, and IPC System Interconnect.

Place a call from an IPC turret user to the Modular Messaging pilot number. Verify that Modular Messaging recognizes the calling party as a local subscriber.

10. Conclusion

These Application Notes describe the configuration steps required for IPC System Interconnect 16.1 to successfully interoperate with Avaya Modular Messaging 5.2 using Avaya Aura® Communication Manager 5.2.1 and Avaya Aura® SIP Enablement Services 5.2.1. All feature and serviceability test cases were completed with observations noted in **Section 8**.

11. Additional References

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

- 1. Administrator Guide for Avaya AuraTM Communication Manager, Document 03-300509, Issue 8.0, Release 5.2, May 2009, available at <u>http://support.avaya.com</u>.
- **2.** Installing, Administering, Maintaining, and Troubleshooting Avaya AuraTM SIP Enablement Services, Document ID 03-600768, Issue 8.0, November 2009, available at <u>http://support.avaya.com</u>.
- **3.** *CN* 88010 Avaya S8xx0 Session Initiation Protocol (SIP) Integration, Version AH, August 2010, available at <u>http://support.avaya.com</u>.
- **4.** Avaya Modular Messaging for the Avaya Message Store Server (MSS) Configuration, Release 5.0, February 2009, available at <u>http://support.avaya.com</u>.
- **5.** Application Notes for IPC System Interconnect with Avaya AuraTM Communication Manager Using Avaya AuraTM SIP Enablement Services, Issue 1.0, December 2010, available at http://support.avaya.com.
- **6.** *Nexus Suite 2.0 SP1 Patch11 or Higher Deployment Guide*, Part Number B02200161, Revision Number 01, available upon request to IPC Support.

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