

Avaya Solution & Interoperability Test Lab

Application Notes for Edigin SVRX with Avaya Aura[®] Communication Manager and Avaya Aura[®] Application Enablement Services - Issue 1.0

Abstract

These Application Notes describe a compliance-tested configuration comprised of Avaya Aura[®] Communication Manager, Avaya Aura[®] Application Enablement Services, Avaya IP and Digital Telephones, and the Edigin SVRX application.

The Edigin SVRX recording and quality monitoring system allows customers to efficiently increase agent productivity by monitoring real-time agent activity, evaluating customer interactions, and training.

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 a compliance-tested configuration comprised of Avaya Aura[®] Communication Manager, Avaya Aura[®] Application Enablement Services, Avaya IP and Digital Telephones, and Edigin SVRX.

The SVRX recording and quality monitoring system allows customers to efficiently increase agent productivity by monitoring real-time agent activity, evaluating customer interactions, and training. Edigin SVRX delivers the entire user, manager, and administrator toolbox in a single intuitive interface that is browser based.

This interface includes access to:

- Voice recordings
- Screen recordings
- Agent performance dashboards
- Agent evaluation, training and testing
- Report builder
- Administrator tools

All of these areas are privilege based and password protected. During the compliance test, Voice recordings were tested and verified.

1.1. Interoperability Compliance Testing

The interoperability compliance test included features and serviceability. The focus of the compliance testing was primarily on verifying the interoperability between Edigin SVRX, Application Enablement Services, and Communication Manager.

1.2. Support

Technical support for the Edigin SVRX solution can be obtained by contacting Edigin:

- URL <u>http://www.edigin.com/support</u>
- Phone (877) 237-5151 Option 3

2. Reference Configuration

Figure 1 illustrates the configuration used in these Application Notes. The sample configuration shows an enterprise with an Avaya Aura[®] Application Enablement Services server and Avaya S8300D Server with an Avaya G450 Media Gateway. Edigin SVRX was located in a different VLAN. Endpoints include Avaya 9600 Series H.323 IP Telephones, an Avaya 4625 H.323 IP Telephone, and an Avaya 6408D Digital Telephone. Avaya S8720 Servers with an Avaya G650 Media Gateway were included in the test to provide an inter-switch scenario.

Note: Basic administration of the Application Enablement Services server is assumed. For details, see reference **[2]**.



Figure 1: Test Configuration of Edigin SVRX with Avaya Aura[®] Application Enablement Services

3. Equipment and Software Validated

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

Equipment	Software/Firmware
Avaya S8300 Server with Avaya G450 Media	Avaya Aura [®] Communication Manager
Gateway	6.0 (R016x.00.0.345.0) with Patch
	00.0345.0-18246
Avaya S8720 Servers with Avaya G650 Media	Avaya Aura [®] Communication Manager
Gateway	5.2.1 (R015x.02.1.016.4) with the patch
	(02.1.016.4-17963)
Avaya Aura [®] Application Enablement Services	5.2.2 (r5-2-2-105-0)
Server	
Avaya 4625SW IP Telephone (H.323)	2.9
Avaya 9600 Series IP Telephones	
9620 (H.323)	3.1
9630 (H.323)	3.1
9650 (H.323)	3.1
9670 (H.323)	3.1
Avaya 6408D+ Digital Telephone	-
Edigin SVRX on Windows XP Pro with SP3	5.3.1.1

4. Configure Avaya Aura[®] Communication Manager

This section describes the procedure for setting up the following topics:

- IP Services
- Feature Access Codes
- Abbreviated Dialing
- Hunt Group
- Agent ID
- Vector
- VDN
- Monitored/recorded Telephones
- Recording Telephones
- IP Network Region

4.1. Configure IP Services

Enter the **change node-names ip** command. In the compliance-tested configuration, the procr IP address was used for registering H.323 endpoints, and also used for connectivity to Application Enablement Services.

change node-names	ip		Page	1 of	2
		IP NODE NAMES			
Name	IP Address				
CLAN	10.64.40.24				
SES	10.64.40.41				
SM-1	10.64.40.42				
default	0.0.0.0				
procr	10.64.41.21				
procr6	::				

Enter the **change ip-services** command. On **Page 1**, configure the Service Type field to **AESVCS** and the Enabled field to **y**. The Local Node field should be pointed to the **procr** that was configured previously in the IP NODE NAMES form in this section. During the compliance test, the default port was used for the Local Port field.

change ip-se	rvices				Page	1 of	4
jr							-
			IP SERVICES				
Service	Enabled	Local	Local	Remote	Remote		
—		271 -	Dent	NT1 -	Dent		
туре		Node	Port	Node	Port		
AESVCS	У	procr	8765				

On **Page 4**, enter the hostname of the Application Enablement Services server for the AE Services Server field. The server name may be obtained by logging in to the Application Enablement Services server using ssh, and running the command **uname** -a. Enter an alphanumeric password for the Password field. Set the Enabled field to y. The same password will be configured on the Application Enablement Services server in **Section 5.1**.

```
change ip-services
                                                           Page 4 of 4
                         AE Services Administration
  Server ID AE Services
                               Password
                                               Enabled
                                                          Status
                Server
     1:
            server1
                                                          idle
                             ******
                                                  V
     2:
     3:
     4:
     5:
```

4.2. Configure Feature Access Codes (FAC)

Enter the **display feature-access-codes** command. On **Page 5** of the **feature-access-codes** form, configure and enable the following access codes:

- Auto-In Access Code
- Aux Work Access Code
- Login Access Code
- Logout Access Code

```
display feature-access-codes
                                                                          5 of
                                                                   Page
9
                               FEATURE ACCESS CODE (FAC)
                         Automatic Call Distribution Features
                    After Call Work Access Code: 120
                             Assist Access Code: 121
                            Auto-In Access Code: 122
                           Aux Work Access Code: 123
                              Login Access Code: 124
                             Logout Access Code: 125
                          Manual-in Access Code: 126
      Service Observing Listen Only Access Code: 127
      Service Observing Listen/Talk Access Code: 128
          Service Observing No Talk Access Code:
                   Add Agent Skill Access Code: 130
                 Remove Agent Skill Access Code: 131
             Remote Logout of Agent Access Code: 132
```

4.3. Configure Abbreviated Dialing

Enter the **add abbreviated-dialing group g** command, where **g** is the number of an available abbreviated dialing group. In the **DIAL CODE** list, enter the Feature Access Codes for ACD Login and Logout from Section 4.2

```
add abbreviated-dialing group 1 Page 1 of 1

ABBREVIATED DIALING LIST

Group List: 1 Group Name: Call Center

Size (multiple of 5): 5 Program Ext: Privileged? n

DIAL CODE

01: 124

02: 125

33:
```

4.4. Configure Hunt Group

Enter the **add hunt-group n** command; where **n** is an unused hunt group number. On **Page 1**, assign a descriptive Group Name and Group Extension valid in the provisioned dial plan.

Set the ACD, Queue, and Vector fields to y. When ACD is enabled, hunt group members serve as ACD agents and must log in to receive ACD split/skill calls. When Queue is enabled, calls to the hunt group will be served by a queue. When Vector is enabled, the hunt group will be vector controlled.

add hunt-group 83			Page	1 of	4
	HUNT (GROUP			
Group Number:	83		ACD? y		
Group Name:	hunt-4-Edigin		Queue? y		
Group Extension:	72083		Vector? y		
Group Type:	ucd-mia				
TN:	1				
COR:	1	MM Earl	y Answer? n		
Security Code:		Local Agent Pre	eference? n		
ISDN/SIP Caller Display:					
Queue Limit:	unlimited				
Calls Warning Threshold:	Port:				
Time Warning Threshold:	Port:				

On **Page 2**, set the Skill field to y, this means that agent membership in the hunt group is based on skills, rather than a pre-programmed assignment to the hunt group.

add hunt-group 83		Pago	2 of	Λ
add nunt-group 05	HUNT GROUP	raye	2 01	7
Skill? y AAS? n Measured: none Supervisor Extension:	Expected Call Handling Time	(sec):	180	
Controlling Adjunct: none				
Timed ACW Interval (sec): Multiple Call Handling: none				

4.5. Configure Agent ID

Enter the **add agent-loginID p** command, where **p** is a valid extension in the provisioned dial plan. On **Page 1**, enter a descriptive name, and password.



On **Page 2**, set the Skill Number (SN) to the hunt group number previously created. The Skill Level (SL) may be set according to customer requirements.

Repeat steps in this section as necessary to configure additional agent extensions.

add agent-loginI	D 72093	Page 2 of 2
	AGENT LOG	INID
Direct Age	nt Skill:	Service Objective? n
Call Handling Pr	eference: skill-level	Local Call Preference? n
SN RL SL	SN RL SL	
1:83 1	16:	
2:	17:	
3:	18:	
4:	19:	
5:	20:	

4.6. Configure Vector

Enter the **add vector q** command, where **q** is an unused vector number. Enter a descriptive name, administer the vector to deliver calls to the hunt/skill group number. Agents that are logged into the hunt/skill group will be able to answer calls queued to the hunt/skill group. The following screen shows the configuration used during the compliance test.

```
add vector 83Page 1 of 6Number: 83Name: EdiginMultimedia? nAttendant Vectoring? nBasic? yEAS? yG3V4 Enhanced? yANI/II-Digits? yASAI Routing? yPrompting? yLAI? yLAI? yG3V4 Adv Route? yCINFO? yBSR? yHolidays? y01 wait-time202 queue-toskill 8303 stop04
```

4.7. Configure VDN

Enter the **add vdn r** command, where **r** is an extension valid in the provisioned dial plan. Specify a descriptive name for the VDN and the Vector Number configured in the previous step. In the example below, incoming calls to extension 72071 corresponds to VDN-Edigin, which in turn will invoke the actions specified in vector 83.

```
add vdn 72071
                                                                Page 1 of
                                                                              3
                            VECTOR DIRECTORY NUMBER
                             Extension: 72071
                                 Name*: VDN-Edigin
                           Destination: Vector Number
                                                             83
                  Attendant Vectoring? n
                  Meet-me Conferencing? n
                    Allow VDN Override? n
                                  COR: 1
                                   TN*: 1
                              Measured: none
       VDN of Origin Annc. Extension*:
                            1st Skill*:
                            2nd Skill*:
                            3rd Skill*:
```

4.8. Configure Monitored / Recorded Telephones

Enter the **add station r** command, where **r** is the extension of a registered, physical Avaya IP or Digital telephone. On **Page 1** of the STATION form, enter a phone Type, descriptive name, Security Code to allow the physical station to be monitored / recorded by the SVRX application.

add station 72001			Page	1 of	5
		STATION			
Extension: 72001		Lock Messages? n		BCC:	0
Type: 9620		Security Code: *		TN:	1
Port: IP		Coverage Path 1:		COR:	1
Name: S8300-IP-1		Coverage Path 2:		COS:	1
		Hunt-to Station:			
STATION OPTIONS					
Location:		Time of Day Lock Ta	able:		
Loss Group:	19	Personalized Ringing Patt	cern: 1		
		Message Lamp	Ext: 720	001	
Speakerphone:	2-way	Mute Button Enab	oled? y		
Display Language:	english				
Survivable GK Node Name:					
Survivable COR:	internal	Media Complex	Ext:		
Survivable Trunk Dest?	У	IP SoftPh	none? y		
		IP Video Softph	none? n		
	Short,	Prefixed Registration Allo	owed: def	ault	
			1 0		
		Customizable Labe	els? Y		

On **Page 4** of the station form, under **ABBREVIATED DIALING** \rightarrow **List2: group**, enter the abbreviated dialing group configured in **Section 4.3**. On **Pages 4** and **5** of the station forms, configure the following BUTTON ASSIGNMENTS in addition to the call-appr (call appearance) buttons:

- auto-in
- aux-work
- abrv-dial configure two of these buttons, one for Login and one for Logout, along with the Dial Codes from Abbreviated Dialing List for ACD Login and Logout(On Page 5), respectively. For Dial Code (DC), refer to Section 4.3.
- release (On Page 5)

add station 72001		Page	4 of 5
	STATION		
SITE DATA			
Room:	Heads	set? n	
Jack:	Speal	ker? n	
Cable:	Mount	ing: d	
Floor:	Cord Leng	gth: O	
Building:	Set Col	lor:	
ABBREVIATED DIALING List1: personal 1	List2: group 1 Lis	t3:	
BUTTON ASSIGNMENTS			
1: call-appr	4: auto-in	Grp:	
2: call-appr	5: aux-work RC:	Grp:	
3: call-appr	6: abrv-dial List:	2 DC: 01	

CRK; Reviewed: SPOC 1/25/2011

add station 72001	STATION	Page	5 of	5
BUTTON ASSIGNMENTS				
7: abrv-dial List: 2 DC: 02 8: after-call Grp: 9: release	10: 11: 12:			

Repeat the instructions provided in this section for each physical station that is to be monitored by Edigin SVRX.

4.9. Configure DMCC Recording Telephones for Single Step Conference

Enter the **add station r** command, where **r** is the extension valid in the provisioned dial plan. On **Page 1** of the STATION form, set the IP SoftPhone field to **y**. Repeat the instructions provided in this section for each virtual station that will be used for a Single Step Conference.

add station 72501		P	age	1 of	5
		STATION			
Extension: 72501		Lock Messages? n		BCC:	0
Type: 9630		Security Code: *		TN:	1
Port: S00078		Coverage Path 1:		COR:	1
Name: DMCC-1		Coverage Path 2:		COS:	1
		Hunt-to Station:			
STATION OPTIONS					
Location:		Time of Day Lock Table	:		
Loss Group:	19	Personalized Ringing Pattern	: 1		
		Message Lamp Ext	: 725	01	
Speakerphone:	2-way	Mute Button Enabled	?у		
Display Language:	english	Button Modules	: 0		
Survivable GK Node Name:					
Survivable COR:	internal	Media Complex Ext	:		
Survivable Trunk Dest?	V	IP SoftPhone	? v		
	-				
		IP Video Softphone	? n		
	Short/	Prefixed Registration Allowed	: def	ault	
		, in the second s			
		Customizable Labels	?у		

4.10. Configure IP Network Region

Enter the **change ip-network-map** command, and put the IP address of Application Enablement Services (or a subnet) into a Network Region. During the compliance test, the IP-Network-Region 1 is utilized.

change ip-network-map				Page 1 of 63
	IP ADDRESS	MAPPING		-
		Subnet	Network	Emergency
IP Address		Bits	Region VL	AN Location Ext
FROM: 10.64.40.0		/24	1 n	
TO: 10.64.40.255				
FROM:		/	n	
TO:				

Enter the **change ip-network-region** command. On Page 3, set the Near End Establishes TCP Signaling Socket field under the TCP SIGNALING LINK ESTABLISHMENT FOR AVAYA H.323 ENDPOINTS section to **n**.

change ip-network-region 1	Page	3 of	20
IP NETWORK REGION			
INTER-GATEWAY ALTERNATE ROUTING / DIAL PLAN TRANSPARENCY			
Incoming LDN Extension:			
Conversion To Full Public Number - Delete: Insert:			
Maximum Number of Trunks to Use for IGAR:			
Dial Plan Transparency in Survivable Mode? n			
1 (hallenge			
2 2 2			
3 3			
4 4			
5			
6 Allow SIP URI Conversion?	У		
TCP SIGNALING LINK ESTABLISHMENT FOR AVAYA H.323 ENDPOINTS			
Near End Establishes TCP Signaling Socket? n			
Near End TCP Port Min: 61440			
Near End TCP Port Max: 61444			

5. Configure Avaya Application Enablement Services

This section assumes that the license is installed, and installation and basic administration of the Avaya Application Enablement Services server has been performed. The steps in this section describe the configuration of a Switch Connection, a CTI user.

Launch a web browser, enter <u>https://<IP address of the Application Enablement Services server></u> in the address field, and log in with the appropriate credentials for accessing the Application Enablement Services Management Console page.

Application Enablement Services Management Console				
Please login here:				
Username				
Password				
	Login			

5.1. Configure Switch Connection

Click on Communication Manager Interface \rightarrow Switch Connections in the left pane to invoke the Switch Connections page.

	ation Enablement Services Management Console	Welcome: User craft Last login: Tue Jan 26 11:34:52 2010 from 10.64.43.10 HostName/IP: server1/10.64.40.40 Server Offer Type: TURNKEY SW Version: r5-2-0-98-0
Home		Home Help Logout
 > AE Services > Communication Manager Interface > Licensing > Maintenance > Networking > Security > Status > User Management > Utilities > Help 	 Welcome to OAM The AE Services Operations, Administration, and N tools for managing the AE Server. OAM spans the AE Services - Use AE Services to manage a on the AE Server. Communication Manager Interface - Use C switch connection and dialplan. Licensing - Use Licensing to manage the lice Maintenance - Use Maintenance to manage in Networking - Use Security to manage Linux us and authorization, configure Linux-PAM (Plu and so on. Status - Use Status to obtain server status User Management - Use Wanagement Services user-related resources. Utilities - Use Utilities to carry out basic core in Help - Use Help to obtain a few tips for using 	Management (OAM) Web provides you with following administrative domains: all AE Services that you are licensed to use ommunication Manager Interface to manage ense server. the routine maintenance tasks. e network interfaces and ports. ser accounts, certificate, host authentication uggable Authentication Modules for Linux) infomations. to manage AE Services users and AE meetivity tests. ng the OAM Help system administrative domains can be served by administrator for each domain.

A Switch Connection defines a connection between the Application Enablement Services server and Communication Manager. Enter a descriptive name for the switch connection and click on **Add Connection**.

AVAYA Applica	tion Enablement Services Management Console	Welcome: User craft Last login: Wed Nov 3 14:01:28 2010 from 10.64.43.10 HostName/IP: server1/10.64.40.40 Server Offer Type: TURNKEY SW Version: r5-2-2-105-0
Communication Manager Interface	e Switch Connections	Home Help Logout
 AE Services Communication Manager Interface 	Switch Connections	
Switch Connections	S8300G450 Add Connection	
Dial Plan	Connection Name Processor Ethernet	Msg Period Number of Active Connections
▶ Licensing	S8720G650 No	30 0
▶ Maintenance	Edit Connection Edit PE/CLAN IPS Edit	t H.323 Gatekeeper
Networking		
▹ Security		
▶ Status		
▶ User Management		
▶ Utilities		
→ Help		

The next window that appears prompts for the Switch Connection password. Enter the same password that was administered in Avaya Communication Manager in Section 4.1.

Click on Apply.

AVAYA Applica	tion Enableme Management Cons	nt Services	Welcome: User craft Last login: Wed Nov 3 14:01:28 2010 from 10.64.43.10 HostName/IP: server1/10.64.40.40 Server Offer Type: TURNKEY SW Version: r5-2-2-105-0
Communication Manager Interface	e Switch Connections		Home Help Logout
 AE Services Communication Manager Interface 	Connection Details - S8	300G450	
Switch Connections	Switch Password	•••••	
Dial Plan	Confirm Switch Password	•••••	
▶ Licensing	Msg Period	30	Minutes (1 - 72)
▶ Maintenance	SSL		
▶ Networking	Processor Ethernet		
▹ Security	Apply Cancel		
▶ Status			
▶ User Management			
▶ Utilities			
▶ Help			

After returning to the Switch Connections page, select the radio button corresponding to the switch connection added previously, and click on **Edit PE/CLAN IPs**.

Application Enablement Services Management Console			Welcome: User craft Last login: Wed Nov 3 14:01:28 2010 from 10.64.43.10 HostName/IP: server1/10.64.40.40 Server Offer Type: TURNKEY SW Version: r5-2-2-105-0		
Communication Manager Interfac	e Switch Connections			Home Help Logou	
 AE Services Communication Manager Interface 	Switch Connections				
Switch Connections		Add Connection			
Dial Plan	Connection Name	Processor Ethernet	Msg Period	Number of Active Connections	
▶ Licensing		Yes	30	o	
 Maintenance Networking 	O \$8720G650	No	30	0	
> Security	Edit Connection	Edit PE/CLAN IPs Edit	H.323 Gatekeep	Delete Connection	
▶ Status					
▶ User Management					
▶ Utilities					
▶ Help					

Enter the procr IP address created in Section 4.1, and click on Add Name or IP.

	tion Enablement Services Management Console	Welcome: User craft Last login: Wed Nov 3 14:01:28 HostName/IP: server1/10.64.40. Server Offer Type: TURNKEY SW Version: r5-2-2-105-0	2010 from 10.64.43.10 40
Communication Manager Interface	e Switch Connections	н	ome Help Logout
 AE Services Communication Manager Interface 	Edit Processor Ethernet IP - S8300G450		
Switch Connections	10.64.41.21 Add/Edit Name or IP]	
Dial Plan	Name or IP Addres	s	Status
▶ Licensing	Back		
Maintenance			
▶ Networking			
> Security			
▶ Status			
User Management			
▶ Utilities			
Help			

After the completion, navigate back to Communication Manager Interface \rightarrow Switch Connections in the left pane to invoke the Switch Connections page. Click on Edit H.323 Gatekeeper for DMCC call control and monitor.

	Application Enablement Services Management Console			Welcome: User craft Last login: Wed Nov 3 14:01:28 2010 from 10.64.43.10 HostName/IP: server1/10.64.40.40 Server Offer Type: TURNKEY SW Version: r5-2-2-105-0		
Communication Manager Interfac	e Switch Connections			Home Help Logout		
AE Services Communication Manager Interface Switch Connections	Switch Connections	Add Connection				
Dial Plan	Connection Name	Processor Ethernet	Msg Period	Number of Active Connections		
Licensing	S8300G450	Yes	30	0		
 Maintenance Networking 	O \$8720G650	No	30	0		
▹ Security	Edit Connection	Edit PE/CLAN IPs Edit I	H.323 Gatekeep	Delete Connection		
→ Status						
User Management						
▶ Utilities						
▶ Help						

On the Edit H.323 Gatekeeper – S8300G450 page, enter the procr IP address which will be used for the DMCC service. Click on Add Name or IP.

	tion Enablement Services Management Console	Welcome: User craft Last login: Wed Nov 3 14:01:28 2010 from 10.64.43.10 HostName/IP: server1/10.64.40.40 Server Offer Type: TURNKEY SW Version: r5-2-2-105-0
Communication Manager Interface	e Switch Connections	Home Help Logout
 AE Services Communication Manager Interface 	Edit H.323 Gatekeeper - S8300G450	
Switch Connections	10.64.41.21 Add Name or IP	
▶ Dial Plan	Name or IP Address	
▶ Licensing	Delete IP	
▶ Maintenance		
▶ Networking		
▹ Security		
▶ Status		
▶ User Management		
▶ Utilities		
→ Help		

5.2. Configure the CTI Users

Navigate to User Management \rightarrow User Admin \rightarrow Add User link from the left pane of the window. On the Add User page, provide the following information:

- User Id
- Common Name
- Surname
- User Password
- Confirm Password

The above information (User ID and User Password) must match with the information configured in the SVRX Configuration page in **Section 6**.

Select **Yes** using the drop down menu on the CT User field. This enables the user as a CTI user. Default values may be used in the remaining fields. Click the **Apply** button (not shown) at the bottom of the screen to complete the process.

AVAYA Applic	ation Enable Management C	ment Services	Welcome: User craft Last login: Wed Nov 3 14:01:28 2010 from 10.64.43.10 HostName/IP: server1/10.64.40.40 Server Offer Type: TURNKEY SW Version: r5-2-2-105-0
User Management User Admin	Add User		Home Help Logout
AE Services			
Communication Manager Interface	Add User		
▶ Licensing	Fields marked with * can	not be empty.	_
 Maintenance 	* User Id	edigin	
Notworking	* Common Name	edigin	
	* Surname	edigin	
► Security	* User Password	•••••	
▶ Status	* Confirm Password	•••••	
▼ User Management	Admin Note		
Service Admin	Avaya Role	None	¥
🕆 User Admin	Business Category		
 Add User 	Car License		
 Change User Password 	CM Home		
 List All Users 	Css Home		
 Modify Default Users 	CT User	Yes 💙	
 Search Users 	Department Number		
▶ Utilities	Display Name		
▶ Help	Employee Number		

Once the user is created, navigate to the Security \rightarrow Security Database \rightarrow CTI Users \rightarrow List All Users link from the left pane of the window. Select the User ID created previously, and click the Edit button to set the permission of the user.

AVAYA Applica	tion Enablem Management Con	ent Services Isole St	elcome: User craft st login: Wed Nov 3 14:01:28 sstName/IP: server1/10.64.4(erver Offer Type: TURNKEY V Version: r5-2-2-105-0	2010 from 10.64.43.10).40
Security Security Database CTI	Users List All Users			Home Help Logou
 AE Services Communication Manager Interface 	CTI Users			
▶ Licensing	User ID	<u>Common Name</u>	Worktop Name	Device ID
▶ Maintenance	💿 edigin	edigin	NONE	NONE
▶ Networking	0.444	test	NONE	NONE
▼ Security	⊖ test	lesi	NONE	NONE
Account Management	Edit List All			
▶ Audit				
› Certificate Management				
Enterprise Directory				
▶ Host AA				
▶ PAM				
Security Database				
Control				
CTI Users				
List All Users				
 Search Users 				

Provide the user with unrestricted access privileges by putting a check in the box next to the Unrestricted Access field. Click the **Apply Changes** button.

AVAYA Applicat	ion Enablement Management Console	t Services	Welcome: User craft Last login: Wed Nov 3 14:01:28 2010 from 10.64.43.10 HostName/IP: server1/10.64.40.40 Server Offer Type: TURNKEY SW Version: r5-2-2-105-0
Security Security Database CTI U	sers List All Users		Home Help Logout
 AE Services Communication Manager Interface 	Edit CTI User		
LicensingMaintenance	User Profile:	User ID Common Name Worktop Name	edigin edigin NONE 💙
Networking	[Unrestricted Access	
Account Management	Call Origination and Terminat	ion / Device Status	None 💌
Audit Certificate Management Enterprise Directory	Call and Device Monitoring:	Device Call / Device Call	None V
 Host AA PAM 	Routing Control:	Allow Routing on Lis	ted None V
Security Database Control CTI Users List All Users Search Users	Apply Changes Cancel	Changes	

6. Configure Edigin SVRX

Edigin installs, configures, and customizes the SVRX application for their end customers. For installing Edigin SVRX and configuring Edigin SVRX to interface with Application Enablement Services, see Appendix A.

7. General Test Approach and Test Results

All test cases were performed manually. The general approach was to place various types of calls to and from stations and agents through a trunk or intra switch network. Those trunk calls were monitored by the Edigin SVRX, and calls were recorded using Single Step Conference. During the test, recorded calls were verified. For feature testing, the types of calls included inbound and outbound trunk calls, transferred calls, bridged calls, and conferenced calls.

For serviceability testing, Edigin SVRX was able to record the recorded/monitored stations after restarts of the Edigin SVRX. In addition, after Edigin lost network connectivity to the Application Enablement Services server, it was able to recover the existing session to the Application Enablement Services server when network connectivity was restored before the session expired. When the link between Communication Manager and the Application Enablement Service server went down and back up, Edigin SVRX was able to resume recording.

8. Verification Steps

8.1. From Communication Manager

The following steps may be used to verify the configuration: Verify the status of the administered AES link by using the **status aesvcs link** command.

status	aesvcs link					
		AE SERVICES	LINK ST	ATUS		
Srvr/ Link	AE Services Server	Remote IP	Remote Port	Local Node	Msgs Sent	Msgs Rcvd
01/01	serverl	10.64.43.40	36538	procr	17	18

8.2. From Application Enablement Services

Verify the status of the DMCC Services by selecting AE Services from the left pane.

AVAYA Applic	ation Enablement S Management Console	Services	Welcome: Us Last login: Tu HostName/IP Server Offer SW Version:	er craft e Jun 29 12:46:41 2010 : server1/10.64.40.40 Type: TURNKEY r5-2-2-105-0	from 10.64.43.10
AE Services				Home	Help Logout
▼ AE Services					
▷ CVLAN	AE Services				
▶ DLG					
▶ DMCC	IMPORTANT: AE Services must	he restarted for a	dministrative	changes to fully take effe	ect
▶ SMS	Changes to the Security Databas	se do not require	a restart.	ananges to rany take ene	
▶ TSAPI	Service	Status	State	License Mode	Cause*
Communication Manager	ASAI Link Manager	N/A	Running	N/A	N/A
▶ Licensing	CVLAN Service	DOWN	Stopped	NORMAL MODE	N/A
► Maintenance	DLG Service	OFFLINE	Running	N/A	N/A
Networking	DMCC Service	ONLINE	Running	NORMAL MODE	N/A
	TSAPI Service	ONLINE	Running	NORMAL MODE	N/A
> Security	Transport Layer Service	N/A	Running	N/A	N/A

9. Conclusion

These Application Notes described a compliance-tested configuration comprised of Communication Manager, Application Enablement Services, Avaya IP and Digital Telephones, and the Edigin SVRX application. Edigin SVRX was able to record calls that came through the trunk, and intra switch environment.

10. Additional References

Product documentation for Avaya products may be found at <u>http://support.avaya.com</u>. [1] *Administering Avaya Aura™ Communication Manager*, Issue 5.0, May 2009, Document Number 03-300509

[2] Avaya AuraTM Application Enablement Services Administration and Maintenance Guide, Release 5.2, Issue 11, November 2009, Document Number 02-300357

Appendix A

<u>Note</u>: This section describes the configuration steps for Edigin SVRX. The following configuration steps have been provided by an Edigin engineer.

Edigin installs, configures, and customizes the SVRX for the customer prior to shipment. Customer specific configuration for integration with Application Enablement Services is described below.

Add DMCC Recording Extensions:

- 1. Select Manage->Sites
- 2. Under the Site->AudioRecorder->DMCC Extensions, click New Extension
- 3. Type in the DMCC extension used for recording and click Add.
- 4. Repeat for each extension.



Add Avaya Hunt Group Extensions

- 1. Select Manage->Sites
- 2. Under the Site->ACD Groups, click New ACD Group
- 3. Type in the Avaya Hunt Group extension and click Add.
- 4. Repeat for each hunt group.



Update Recorded Station Settings

- 1. Select Manage->Sites
- 2. Under the Site->AudioRecorder->Edigin VoIP, click on a channel.
- 3. Update the Name field to an extension that needs to be recorder and click Apply.
- 4. Repeat for each extension.

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🔎 <u>Search</u> 👔 <u>Reports</u> 🚇 <u>Export</u> 🛋 <u>Da</u>	shboard 🛛 Contacts 🖉 Manage 🔻	Settings 🔛 Color scheme 🔻 Sign out	
□ Default □ AudioRecorder1 (Audio) □ Edigin VolP ○ 11 72001 ○ 2 (2 72002 ○ 31 72003 ○ (4) 72006 ○ 15 72009 ○ (5) 72009 ○ (5) 72009 ○ (5) 7009 ○ (7) 0007 ○ (8) 0008 ○ (7) 0007 ○ (8) 0009 ○ (10) 0010 □ Edigin VolP □ DMCC Extensions ○ 72501 ○ 72503 ○ New Extension □ PriStorage (Strage) □ ACD Groups ○ 72083 ○ New ACD Group New Site	Channel Properties General settings Name: 72001 Type: Edigin VoIP Type: Edigin VoIP Min length: 0 Bace Om Mode: On PBX gain: 0 O dB Phone gain: 0 Board channel: 0 Logical channel: 1 Encryption: None Board: 00.15:C5:B4:1D:50 [10 State: Idle at 02:55:16 PM Lypate Apply settings to: This channel Image: Cancel	Advanced settings Free agent in key Free agent out key Record on demand key	
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Update Recorded Station Settings

- 1. Click on the Advanced settings link for the extension
- 2. Update the Protocol field to an Avaya DMCC and click Apply.
- 3. The other fields can be left to the default values shown.
- 4. Repeat for each extension.

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P Search II Reports III Export III T	ashboard 😰 Contacts 🎤 Manage 🗙 Settings	Color scheme	Sian out
□ Default □ AudioRecorder1 (Audio) □ Etdigin VolP 0 [1] 72001 0 [2] 72002 0 [3] 72003 0 [4] 72006 0 [5] 72009 0 [6] 0006 0 [7] 0007 0 [8] 0008 0 [9] 0009 0 [10] 0010 □ Etdigin VolP □ DMCC Extensions 0 72501 0 T2502 0 72503 0 New Extension □ PriStorage (Storage) □ ACD Groups 0 7003 0 New ACD Group New Site	Channel Properties General settings Advanced settings Jitter: 500 ms MAC address: 00:00:00:00:00 Protocol: Avaya DMCC v ALGR: Disabled v Apply settings to: This channel v Apply Cancel		
http://localhost/manage/sites.aspx#		😜 Intern	et 🦓 - 🔍 100% - 🛒
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Create Agent User accounts

- 1. Select Manage->Users
- 2. Select New User
- 3. Set the Login to a unique Edigin login for this user.
- 4. Set the Phone login field to the Avaya agent login extension.
- 5. Set the First and Last name
- 6. Click Add.
- 7. Repeat for each agent.

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Set the AudioRecorder Application settings appropriately.

<add key="SignalingServerIP" value="10.64.120.12" />
<add key="ExtPassword" value="1234" />
<add key="CMHost" value="10.64.120.15" />
<add key="CMUser" value="aessim" />
<add key="CMPassword" value="AESsim123#" />

SignalingServerIP is the Communication manager IP. ExtPassword is the phone password. The rest of the parameters are AES login info.

CRK; Reviewed:	Solution & Interoperability Test Lab Application Notes
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