

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Avaya Aura® Communication Manager R6.3 and Avaya Aura® Application Enablement Services R6.3 to Interoperate with ASC Telecom ASC EVOIPneo active - Issue 1.0

Abstract

These Application Notes describe the configuration steps for ASC telecom ASC EVOIPneo active for Avaya Aura (with CM & AES) to successfully interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services. ASC telecom ASC EVOIPneo active for Avaya Aura (with CM & AES) integrates with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services using single step conferencing implemented via DMCC over TSAPI.

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 compliance tested configuration using ASC EVOIPneo active for Avaya Aura (with CM & AES) with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Application Enablement Services R6.3 (AES).

ASC EVOIPneo active for Avaya Aura (with CM & AES) (ASC) uses Avaya Aura® Communication Manager's Single Step Conferencing (SSC) feature via the Device, Media, and Call Control (DMCC) service provided by the Avaya Aura® Application Enablement Services (AES) to capture the audio and call details for recording agent calls. ASC EVOIPneo active for Avaya Aura (with CM & AES) uses the Avaya Aura® Application Enablement Services DMCC service to register a pool of virtual IP softphones that are used as "recorders". Target agents, whose calls are to be recorded, are configured on the ASC server. When a target agent places or receives a call, SSC is used to conference in a "recorder" to capture the audio stream and call details.

The ASC EVOIPneo active for Avaya Aura (with CM & AES) is fully integrated into a LAN (Local Area Network), and includes easy-to-use Web based application that works with Java to retrieve telephone conversations from a comprehensive long-term calls database.

2. General Test Approach and Test Results

The interoperability compliance testing evaluated the ability of ASC telecom to carry out call recording in a variety of scenarios using DMCC with AES and Communication Manager.

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 both feature functionality and serviceability testing. The feature functionality testing focused on placing and recording calls in different call scenarios with good quality audio recordings and accurate call records. The tests included:

- Inbound Calls
- Outbound Calls
- Call Hold
- Blind Transfer
- Consultative Transfer
- Blind 3-way Conference
- Supervised Conference
- Forwarded Calls
- No Answer, Engaged, Unobtainable
- Inbound Calls to Communication Manager Agents
- Failover Testing

The serviceability testing focused on verifying the ability of ASC to recover from disconnection and reconnection to the Avaya solution.

2.2. Test Results

All functionality and serviceability test cases were completed successfully.

2.3. Support

Technical support can be obtained for ASC telecom as follows:

- Email: <u>hq@asctelecom.com</u>
- Website: <u>www.asctelecom.com</u>
- Phone: +49 6021 5001-0

3. Reference Configuration

Figure 1 shows the network topology during interoperability testing. Communication Manager with an Avaya G430 Media Gateway was used as the hosting PBX. ASC call recording component is connected to the LAN and recording is performed using the Single Step Conference feature of Communication Manager using DMCC provided by AES.

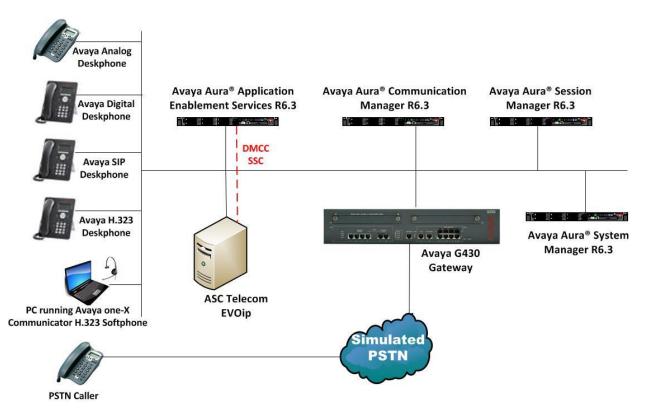


Figure 1: Avaya Aura® Communication Manager with Avaya Aura® Application Enablement Services, and ASC telecom ASC EVOIPneo active for Avaya Aura (with CM & AES) configuration

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
	System Manager 6.3.0 - FP2
Avaya Aura® System Manager running on Avaya	Build No 6.3.0.8.5682-
S8800 Server	6.3.8.1814
	Software Update Revision No:
	6.3.3.5.1719
Avaya Aura® Communication Manager running on	R6.3 SP1
Avaya S8800 Server	R016x.03.0.124.0
Avaya Aura® Application Enablement Services	R6.3
running on Avaya S8800 Server	Build No - 6.3.0.0.212-0
Avaya G430 Gateway	R6.3
Avaya Analog deskphone	N/A
Avaya Digital deskphone	N/A
Avaya 96xx/96x1Series Deskphone	96xx H.323 Release 3.1 SP2
Avaya 96xx/96x1 Series Deskphone	96xx SIP Release 2.6 SP3
Avaya one-X [®] Communicator running H.323 Firmware	R6.1
ASC EVOIPneo active for Avaya Aura (with CM & AES) running on Windows 2012 R2 Server	R3.0
ASC POWERplay Web running on Mozilla Firefox	R3.0

5. Configure Avaya Aura® Communication Manager

The information provided in this section describes the configuration of Communication Manager relevant to this solution. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 10**.

The configuration illustrated in this section was performed using Communication Manager System Administration Terminal (SAT).

5.1. Verify System Features

Use the **display system-parameters customer-options** command to verify that Communication Manager has permissions for features illustrated in these Application Notes. On **Page 3**, ensure that **Answer Supervision by Call Classifier?** is set to **y** and **Computer Telephony Adjunct Links?** is set to **y** as shown below.

```
3 of 11
display system-parameters customer-options
                                                                     Page
                                  OPTIONAL FEATURES
    Abbreviated Dialing Enhanced List? yAudible Message Waiting? yAccess Security Gateway (ASG)? nAuthorization Codes? yAnalog Trunk Incoming Call ID? yCAS Branch? n
        Analog Trunk Incoming Call ID? y
A/D Grp/Sys List Dialing Start at 01? y
                                                                       CAS Main? n
Answer Supervision by Call Classifier? y
                                                            Change COR by FAC? n
                                    ARS? y Computer Telephony Adjunct Links? y
                 ARS/AAR Partitioning? y
                                             Cvg Of Calls Redirected Off-net? y
          ARS/AAR Dialing without FAC? y
                                                                  DCS (Basic)? y
                                                            DCS Call Coverage? y
          ASAI Link Core Capabilities? n
          ASAI Link Plus Capabilities? n
                                                           DCS with Rerouting? y
       Async. Transfer Mode (ATM) PNC? n
  Async. Transfer Mode (ATM) Trunking? n Digital Loss Plan Modification? y
              ATM WAN Spare Processor? n
                                                                      DS1 MSP? y
                                                        DS1 Echo Cancellation? y
                                   ATMS? y
                   Attendant Vectoring? y
```

5.2. Display Node Names for Avaya Aura® Application Enablement Services Connectivity

Display the **procr** IP Address by using the command **display node-names ip** and noting the IP address for the **procr** and AES (**aes63vmpg**).

display node-names	ip			Page	1 of	2
		IP NODE	NAMES			
Name	IP Address					
SM100	10.10.40.34					
aes63vmpg	10.10.40.30					
default	0.0.0.0					
g430	10.10.40.15					
procr	10.10.40.31					

5.3. Configure AE service for Avaya Aura® Application Enablement Services Connectivity

To administer the transport link to AES use the **change ip-services** command. On **Page 1** add an entry with the following values:

- Service Type: should be set to AESVCS.
- Enabled: set to y.
- Local Node: set to the node name assigned for the procr in Section 5.2
- Local Port: retain the default value of 8765.

change ip-s	services				Page	1 of	4	
Service Type AESVCS	Enabled	Local Node procr	IP SERVICES Local Port 8765	Remote Node	Remote Port			

Go to **Page 4** of the **ip-services** form and enter the following values:

- AE Services Server: Name obtained from the AES server, in this case aes62vmpg.
- **Password**: Enter a password to be administered on the AES server.
- Enabled: Set to y.

Note: The password entered for **Password** field must match the password on the AES server in **Section 6.2**. The **AE Services Server** should match the administered name for the AES server, this is created as part of the AES installation, and can be obtained from the AES server by typing **uname – n** at the Linux command prompt.

change ip-serv	ices AE	Page	4 of	4		
Server ID	AE Services	Password	Enabled	Status		
1:	Server aes63vmpg	* * * * * * *	У	idle		
2: 3:						

5.4. Configure CTI Link for TSAPI Service

Add a CTI link using the **add cti-link n** command. Enter an available extension number in the **Extension** field. Enter **ADJ-IP** in the **Type** field, and a descriptive name in the **Name** field. Default values may be used in the remaining fields.

```
add cti-link 1 Page 1 of 3
CTI LINK
CTI Link: 1
Extension: 2002
Type: ADJ-IP
Name: aes63vmpg
```

5.5. Configure Virtual Stations

ASC uses the Single Step Conferencing method to conference "recorders" with the agent calls in order to capture the call audio. Use the command **add station** to configure a station for each of the recording pool stations. On **Page 1** enter a descriptive **Name** and **Security Code**, set the **Port** to **IP**, set the **Type** to **4624** and set **IP SoftPhone** to **y**. Repeat according to the maximum number of call to be recorded simultaneously. These extensions can also be configured on ASC for the playback of recordings. Configure sufficient stations to accommodate for the maximum number of simultaneous recording playback channels required.

```
add station 2800
                                                                   1 of
                                                            Page
                                                                          6
                                    STATION
Extension: 2800
                                                                      BCC: 0
                                        Lock Messages? n
    Type: 4624
                                        Security Code: 1234
                                                                       TN: 1
    Port: IP
                                  Coverage Path 1:
                                                                   COR: 1
    Name: ASC
                 Recorder 1
                                  Coverage Path 2:
                                                                   COS: 1
                                      Hunt-to Station:
STATION OPTIONS
                                          Time of Day Lock Table:
             Loss Group: 19
                                  Personalized Ringing Pattern: 1
                                               Message Lamp Ext: 1591
                                             Mute Button Enabled? y
           Speakerphone: 2-way
       Display Language: english
Survivable GK Node Name:
         Survivable COR: internal
                                               Media Complex Ext:
   Survivable Trunk Dest? y
                                                    IP SoftPhone? y
                                              IP Video Softphone? n
```

6. Configure Avaya Aura® Application Enablement Services

This section provides the procedures for configuring Application Enablement Services. The procedures fall into the following areas:

- Verify Licensing
- Create Switch Connection
- Administer TSAPI link
- Create CTI User
- Enable CTI Link User
- Identify Tlinks
- Enable DMCC ports

6.1. Verify Licensing

To access the maintenance console, enter **https://<ip-addr>** as the URL in an Internet browser, where <ip-addr> is the active IP address of AES. The login screen is displayed, log in with the appropriate credentials and then select the **Login** button.

AVAYA	Application Enablement Services Management Console	
		Help
	Please login here: Username Password Login	
	© Copyright © 2009-2012 Avaya Inc. All Rights Reserved.	

The Application Enablement Services Management Console appears displaying the **Welcome to OAM** screen (not shown). Select **AE Services** and verify that the TSAPI Service is licensed by ensuring that **TSAPI Service** is in the list of services and that the **License Mode** is showing **NORMAL MODE**. If not, contact an Avaya support representative to acquire the proper license for your solution.

AVAYA	Application Enableme Management Cons			Welcome: User craft Last login: Wed Dec 12 10:45:16 Number of prior failed login atter HostName/IP: aes52vmpg.devco Server Offer Type: SWONLY SW Version: r6-2-0-18-0 Server Date and Time: Thu Dec	npts: 0 nnect.local/10.10.40.10
AE Services					Home Help Logo
► AE Services ► CVLAN	AE Services				
▶ DLG					
> DMCC	IMPORTANT: AE Services must be restarted for Changes to the Security Database do not requi		/ take effect.		
> SMS					
▶ TSAPI	Service	Status	State	License Mode	Cause*
,	ASAI Link Manager	N/A	Running	N/A	N/A
> TWS	CVLAN Service	ONLINE	Running	NORMAL MODE	N/A
Communication Manager	DLG Service	OFFLINE	Running	N/A	N/A
Licensing	DMCC Service	ONLINE	Running	NORMAL MODE	N/A
	TSAPI Service	ONLINE	Running	NORMAL MODE	N/A
Maintenance	Transport Layer Service	N/A	Running	N/A	N/A
 Networking Security 	For status on actual services, please use Status and	<u>i Control</u>			
→ Status	* For more detail, please mouse over the Cause, you'll	see the tooltip, or go to help page.			

6.2. Create Switch Connection

From the AES Management Console navigate to **Communication Manager Interface** \rightarrow **Switch Connections** to set up a switch connection. Enter in a name for the Switch Connection to be added and click the **Add Connection** button.

> AE Services ↓ Communication Manager Interface Switch Connections CM63VMPG Add Connection > Dial Plan Connection Name Processor Ethernet Msg Period Number of Active Connections	10.10.40.140 N_VMWARE UTC 2013
Communication Manager Interface Switch Connections Switch Connections CM63VMPG Dial Plan Connection Name Processor Ethernet Msg Period Number of Active Connections	lp Logout
Connection Name Processor Etherniet Pisg Period Number of Active Connections	
> Licensing	
Maintenance Edit Connection Edit PE/CLAN IPs Edit H.323 Gatekeeper Delete Connection Survivability Hierarchy	
> Security	
→ Status	
User Management	
> Utilities	
> Help	

In the resulting screen enter the **Switch Password**, the Switch Password must be the same as that entered into Communication Manager AE Services Administration screen via the **change ip-services** command, described in **Section 5.3** Default values may be accepted for the remaining fields. Click **Apply** to save changes.

AVAYA	Application Enablement Services Management Console			Welcome: User craft Last login: Thu Nov 14 10:22:12 2013 from 10.10.40.14 Number of prior failed login attempts: 16 HostName/IP: AES63VMPG Server Offer Type: VRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3,0.0.212:0 Server Date and Time: Tue Dec 3 15:35:47 UTC 2013
Communication Manager Interfa	ace Switch Connections			Home Help Logou
 AE Services Communication Manager Interface Switch Connections 	Connection Details - C Switch Password	M63vmpg]	
▶ Dial Plan	Confirm Switch Passwor	rd •••••		
▶ Licensing	Msg Period	30	Minutes (1 - 72)	
Maintenance	SSL			
▶ Networking	Processor Ethernet			
▶ Security	Apply Cancel			
▶ Status				
▶ User Management				
▶ Utilities				
▶ Help				

From the **Switch Connections** screen, select the radio button for the recently added switch connection and select the **Edit CLAN IPs** button (not shown). In the resulting screen, enter the IP address of the **procr** as shown in **Section 5.2** that will be used for the AES connection and select the **Add Name or IP** button.

avaya	Application Enablement Services Management Console	Welcome: User craft Last login: Thu Nov 14 10:22:12 2013 from 10.10.40.140 Number of prior failed login attempts: 16 HostName/JP: AESS3VMPG Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.0.0212-0 Server Date and Time: Tue Dec 03 15:36:31 UTC 2013
Communication Manager Interfa	ace Switch Connections	Home Help Logout
AE Services Communication Manager Interface Switch Connections	Edit Processor Ethernet IP - CM63vmpg 10.10.40.31 Add/Edit Name or IP	
 Dial Plan Licensing 	Name or IP Address	Status In Use
Maintenance	Back	In Use
 Networking Security 		
Status		
User Management		
UtilitiesHelp		

6.3. Administer TSAPI link

From the Application Enablement Services Management Console, select AE Services \rightarrow TSAPI \rightarrow TSAPI Links. Select Add Link button as shown in the screen below.

avaya	Application Enablement Services Management Console	Welcome: User craft Last login: Thu Dec 15 19:28:13 2011 from 10.10.16.62 HostName/IP: devconaes611/10.10.16.29 Server Offer Type: TURNKEY SW Version: r6-1-1-30-0
AE Services TSAPI TS	API Link	Home Help Logout
	TSAPI Links Link Switch Connection Switch CTI Link Add Link Edit Link Delete Link	# ASAI Link Version Security
Communication Manag Interface	er	

On the **Add TSAPI Links** screen, enter the following values:

- Link: Use the drop-down list to select an unused link number.
- Switch Connection: Choose the switch connection CM63VMPG, which has already been configured in Section 6.2, from the drop-down list.
- Switch CTI Link Number: Corresponding CTI link number configured in Section 5.4 which is 1.
- **ASAI Link Version:** This can be left at the default value of **5**.
- Security: This can be left at the default value of both.

Once completed, select Apply Changes.

Αναγα	Application Enablement Services Management Console	Last login: Thu Nov 14 10:22:12 2013 from 10.10.40.140 Number of prior Failed login attempts: 16 HostName/IP: AESS3VMPG Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.0.0.212-0 Server Date and Time: Tue Dec 03 15:37:38 UTC 2013
AE Services TSAPI TSAPI Links		Home Help Logout
	Edit TSAPI Links Link 1 Switch Connection CM63vmpg Switch CTI Link Number 1 ASAL Link Version 5 Security Both Apply Changes Cancel Changes Advanced Settings	

Another screen appears for confirmation of the changes. Choose **Apply**.

AVAYA	Application Enablement Services Management Console	Welcome: User craft Last login: Thu Dec 15 19:28:13 2011 from 10.10.16.62 HostName/IP: devconaes611/10.10.16.29 Server Offer Type: TURNKEY SW Version: r6-1-1-30-0
AE Services TSAPI T	SAPI Link	Home Help Logout
	Apply Changes to Link Warning! Are you sure you want to apply the changes? These changes can only take effect when the TSAPI server n Please use the Maintenance -> Service Controller page to res	
Communication Mana Interface		

When the TSAPI Link is completed, it should resemble the screen below.

Αναγα	Application Enablemer Management Conso	Last login: Tue Dec 3 15:32: Number of prior failed login a HostName/IP: AES63VMPG Server Offer Type: VIRTUAL SW Version: 6.3.00.212-0 Server Date and Time: Tue [attempts: 17 _APPLIANCE_ON_VMWARE	
AE Services TSAPI TSAPI Link	s TSAPI Links			Home Help Logout
▶ DLG	Link Switch Connection	Switch CTI Link #	ASAI Link Version	Security
DMCC SMS	⊙ 1 CM63vmpg	1	5	Both
TSAPI	Add Link Edit Link Delete Link			
 TSAPI Links TSAPI Properties 				

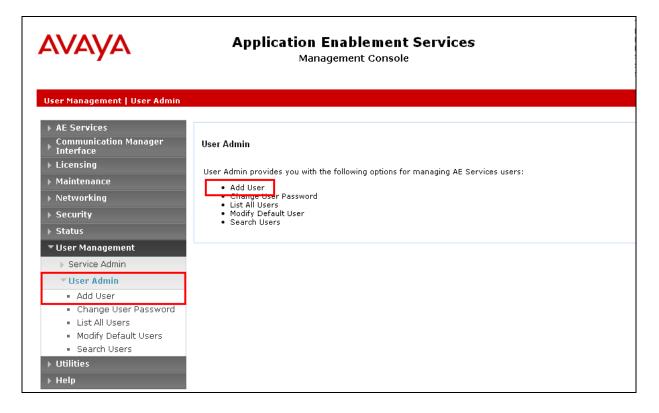
The TSAPI Service must be restarted to effect the changes made in this section. From the Management Console menu, navigate to **Maintenance** \rightarrow **Service Controller**. On the Service Controller screen, tick the **TSAPI Service** and select **Restart Service**.

AVAYA	Application Enablement Services Management Console	Welcome: User craft Last login: Thu Dec 15 19:28:13 2011 from 10.10.16.62 HostName/IP: devconaes611/10.10.16.29 Server Offer Type: TURNKEY SW Version: r6-1-1-30-0
Maintenance Service Co	ntroller	Home Help Logout
 AE Services Communication Manag Interface 	er Service Controller	
▶ Licensing	Service Controller Status	
▼ Maintenance	🗆 ASAI Link Manager 🛛 Running	
Date Time/NTP Serve	r DMCC Service Running	
Security Database	CVLAN Service Running	
Service Controller	DLG Service Running	
Server Data	Transport Layer Service Running TSAPI Service Running	
▶ Networking	TSAPI Service Running	
▶ Security	For status on actual services, please use Status and Control	
▶ Status	Start Stop Restart Service Restart AE Server	Restart Linux Restart Web Server
▶ User Management		

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6.4. Create Avaya CTI User

A User ID and password needs to be configured for the ASC server to communicate as a TSAPI client with the Application Enablement Services server. Navigate to the User Management \rightarrow User Admin screen then choose the Add User option.



In the **Add User** screen shown below, enter the following values:

- User Id This will be used by the ASC Server in Section 7.4.
- Common Name and Surname Descriptive names need to be entered.
- User Password and Confirm Password This will be used with the User Id in Section 7.4.
- **CT User -** Select **Yes** from the drop-down menu.

Complete the process by choosing **Apply** at the bottom of the screen (not shown).

 > Licensing > Maintenance > Networking > Security > Status 	* User Id * Common Name * Surname User Password Confirm Password Admin Note	asc asc asc	
 User Management Service Admin 	Avaya Role	None	*
 User Admin Add User Change User Password List All Users 	Business Category Car License CM Home Css Home		
 Modify Default Users 	CT User	Yes 💌	
 Search Users 	Department Number		
▶ Utilities	Display Name		
▶ Help	Employee Number		
	Employee Type		
	Enterprise Handle		
	Given Name		
	Home Phone		
	Home Postal Address		
	Initials		

The next screen will show a message indicating that the user was created successfully (not shown).

6.5. Enable Unrestricted Access for CTI User

Navigate to the **CTI Users** screen by selecting **Security** \rightarrow **Security Database** \rightarrow **CTI Users** \rightarrow **List All Users**. Select the user that was created in **Section 6.4** and select the **Edit** option.

Security security Database CTI Users List All Users	Αναγα	Applicatio M	wetcome: User Last login: Tue Number of prio HostName/IP: Server Offer T) SW Version: 6. Server Date ar	Feb 18 r failed AES63V (pe: VII 3.0.0.2:	
Communication Manager Licensing Maintenance Networking Security Account Management Audit Certificate Management Enterprise Directory Host AA		I Users List All Users			
Maintenance Worktop Name Worktop Name Networking asc NONE Security presence presence Addit List All Certificate Management Edit Enterprise Directory Host AA	Communication Manager Interface	CTI Users			
Networking asc NONE Security presence presence Account Management Edit List All Enterprise Directory Host AA		User ID	Common Name	Worktop Name	
Security presence NONE Account Management Edit List All Certificate Management Enterprise Directory Host AA		esc	asc	NONE	
Security Possible Possible <td< td=""><td>-</td><td></td><td>presence</td><td>NONE</td><td></td></td<>	-		presence	NONE	
Audit Certificate Management Enterprise Directory Host AA					
 Certificate Management Enterprise Directory Host AA 		Edit List All			
Enterprise Directory Host AA					
> Host A4					
	Enterprise Directory				
	▶ Host AA				
▶ PAM	▶ PAM				
Security Database	Security Database				
Control	= Control				
CTI Users					
List All Users					
 Search Users Devices 					

The Edit CTI User screen appears. Check the Unrestricted Access box and Apply Changes at the bottom of the screen.

Security Security Database CTI	[Users List All Users		
▶ AE Services			
Communication Manager Interface	Edit CTI User		
► Licensing	User Profile:	User ID	ctiuser
▶ Maintenance		Common Name	ctiuser
▶ Networking		Worktop Name	NONE 💌
		Unrestricted Access	
▼ Security			
Account Management	Call and Device Control:	Call Origination/Termination and Device Status	None 💌
▶ Audit			
▶ Certificate Management	Call and Device Monitoring:	Device Monitoring	None 💌
Enterprise Directory		Calls On A Device Monitoring	None 🔽
▶ Host AA		Call Monitoring	
▶ PAM	Routing Control:	Allow Routing on Listed Devices	None 🔻
Security Database		Allow Roading on Listed Devices	
Control	Apply Changes Cancel Changes		
CTI Users			
List All Users			
 Search Users 			

A screen (not shown) appears to confirm applied changes to CTI User, choose **Apply**. This CTI user should now be enabled.

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6.6. Identify Tlinks

Navigate to Security \rightarrow Security Database \rightarrow Tlinks. Verify the value of the Tlink Name. This will be needed to configure the ASC server in Section 7.4.

Αναγα	Application Enablement Services Management Console
Security Security Database Tl	inks
 > AE Services > Communication Manager Interface > Licensing > Maintenance > Networking ~ Security 	Tlinks Tlink Name AVAYA#CM63VMPG#CSTA#AES63VMPG AVAYA#CM63VMPG#CSTA-S#AES63VMPG Delete Tlink
 Account Management Audit Certificate Management Enterprise Directory Host AA PAM Security Database Control CTI Users 	
 Devices Device Groups Tlinks 	

6.7. Enable DMCC ports

In order to enable DMCC for call recording navigate to **Networking** \rightarrow **Ports** \rightarrow **DMCC Server Ports**.

- Enable DMCC Unencrypted Port
- Enable DMCC Encrypted Port
- Enable DMCC **TR/87 Port**

Click on **Apply Changes** at the bottom of the screen (not shown).

Networking Ports				
 AE Services Communication Manager Interface Licensing Maintenance Networking 	Ports CVLAN Ports	Unencrypted TCP Port Encrypted TCP Port	9999	Enabled Disabled
AE Service IP (Local IP) Network Configure	DLG Port	TCP Port	5678	
Ports TCP Settings > Security > Status > User Management > Utilities > Help	TSAPI Ports	TSAPI Service Port Local TLINK Ports TCP Port Min TCP Port Max Unencrypted TLINK Ports TCP Port Min TCP Port Max Encrypted TLINK Ports TCP Port Min TCP Port Max	450 1024 1039 1050 1065 1066 1081	Enabled Disabled
	DMCC Server Ports	Unencrypted Port Encrypted Port TR/87 Port	4721 4722 4723	Enabled Disabled

Once this change is made a restart of the AE Server is required. Navigate to Maintenance \rightarrow Service Controller. In the main screen select Restart AE Server highlighted.

Αναγα	Application Enablement Services Management Console					
Maintenance Service Controller						
 AE Services Communication Manager Interface 	Service Controller					
▶ Licensing	Service Controller Status					
Maintenance Date Time/NTP Server Security Database Service Controller Server Data Networking Security Status User Management	ASAI Link Manager Running DMCC Service Running CVLAN Service Running DLG Service Running Transport Layer Service Running TSAPI Service Running					
 Utilities Help 						

7. Configure ASC telecom ASC EVOIPneo active

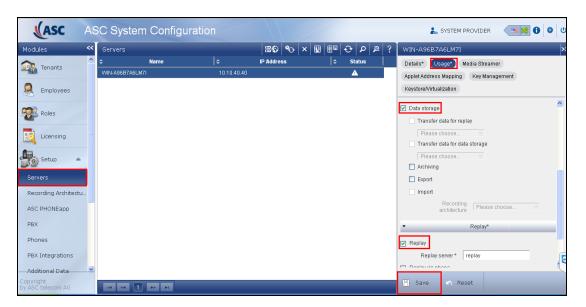
The configuration of the ASC server is achieved by opening a web session connecting to that servers IP address. Mozilla Firefox is the supported web browser.

Using Mozilla Firefox open a web session to https://<ServerIP>:8181/SystemConfiguration/. Enter the proper username and password and click on Login.

ASC System Configuration +		
https://10.10.40.40:8181/SystemConfiguration/index.jsf		☆ ▼ C Scoole
	m@ C RP_SMGR SMGR62 SMGR63VMPG POWERplay Web	
ASC ASC System Config	guration	
	Login Combination Login	
	Login name * system-admin	
	Password * •	
	Login or Forgot password?	
1		

7.1. Configure Server

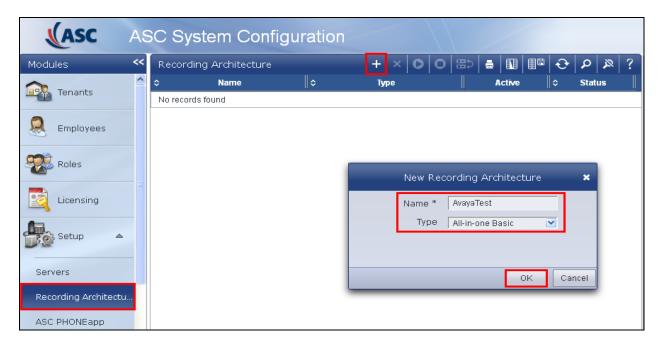
Navigate to **Setup** \rightarrow **Servers** in the left window and click on the **Usage** tab in the right window. Ensure that **Data Storage** and **Replay** boxes are ticked and click on **Save** at the bottom of the screen.



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7.2. Configure Recording Architecture

Navigate to Setup \rightarrow Recording Architecture in the left window and click on the + icon to add a New Recording Architecture. Enter a suitable Name and select All-in-one-Basic as shown below, click on OK once complete.



Click on the **Add** icon highlighted .on the right side of the screen below. A screen is opened showing the **PBX Integration Type** that is present, license depending, select this and click on **Add** at the bottom of this screen.

(ASC	AS	C System Config	guration					L SYSTEM PROVIDER	• • •
Modules	~~	Recording Architecture		+ × 0 0	III 🖶 🕄	🛯 🕹 🔉 🖉	? AvayaTes	st	All-in-one Basic
Tenants	^	Name No records found	\$	Туре	Active	¢ Status	Details*	Server Assignment*	
Reployees				PBX Integ	ation Type		1	×	? Help
Roles		Name						aTes one I	t Basic
Licensing		AVAYA CM active						own ve	
Setup								e	
Servers									
Recording Architectu	u –								
ASC PHONEapp									
РВХ									
Phones									
PBX Integrations							-	Add Cancel	
Copyright by ASC telecom AG		<					Save	🗠 Reset	

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Iodules	« Record	ding Architecture	+ × 0	0 🖽	a 🖬 🛙	10 🕹	<u>a</u> q	?	AvayaTest	All-in-one Bas
Licensing	\$	Name	\$ Туре		Active	\$	Status		Details* Server Assi	gnment*
	No reco	rds found						-		
Setup 🔺									Server *	+ -
- UN									Status	
Servers									Used in activated architecture	
Recording Architectu									Recording type	VoIP recording
										TDM recording
ASC PHONEapp										Screen recording
PBX										
Phones										

Click on the **Server Assignment** tab highlighted and click on the + icon to add a server.

Select the server (added during the installation) and click on Add at the bottom of the screen.

	ACC Sustam Co	afiguration		
Modules			Servers	* • • • • • • • • • • • • • • • • • • •
Licen:	Name	¢ IP Address	¢ Status	
	Name			
	I-A96B7A6LM7I	10.10.40.40	A	
Servers				
Recording				
ASC PHON				
PBX				
Phones				
PBX Integr				
Additional				
Clients				
Drive:				
More	I « 1 » »			
Copyriaht				- Add Cancel

lodules	<<	Recording Architecture	+ × 0 0	30 5 6 19 5 4	? & Q {	AvayaTest	All-in-one Bas
🧟 Licensing	<u>^</u>	≎ Name	\$ Туре	Active 🗘	Status	Details* Server Ass	gnment*
		No records found					
Setup 4	▶					Server*	WIN-A96B7A6LM7I + -
- Uu:							Problem
Servers						Used in activated architecture	No
Recording Architect	:u					Recording type	VoIP recording
							TDM recording
ASC PHONEapp							Screen recording
РВХ							
Phones							
PBX Integrations							
Additional Data							
Clients							
Drives							
More 🔻	~ ~						
pyright		<			>	💾 Save 🔄 R	eset

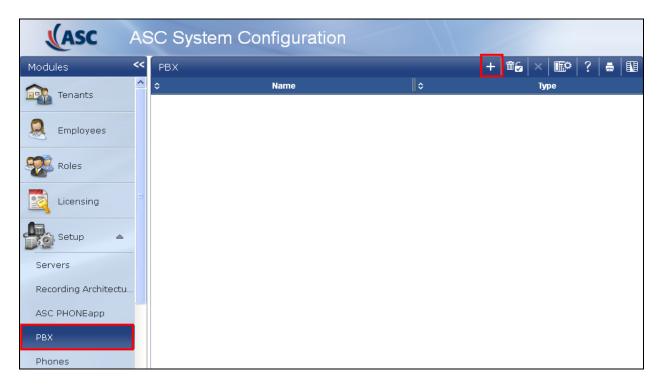
Ensure that **VoIP recording** is ticked as shown and click on **Save** at the bottom of the screen.

Once this Recording Architecture is added it must be activated by clicking on the **Activate** icon highlighted below.

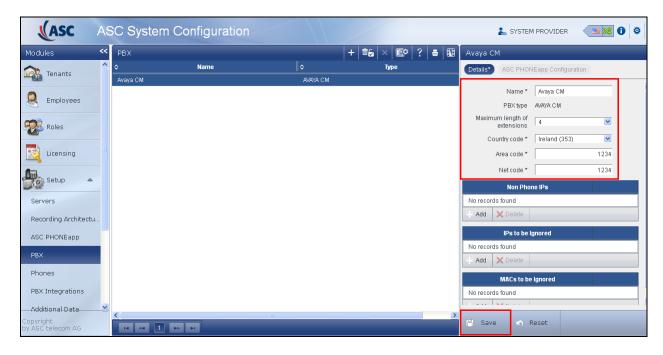
	AS	SC System	Configuration					
Modules	<<	Recording Arch	hitecture	+ ×) O	- 10 ⊞¤	<u>ि</u> ि ि ि	2 ?
Licensing	^	\$ Na	me 🛛 🗘	Туре	Activate	Active	≎ Status	
-		AvayaTest	All-in-o	ne Basic		×	?	
Setup	▲							
Servers								
Recording Archite	ctu							
ASC PHONEapp								

7.3. Add PBX

Navigate to **Setup** \rightarrow **PBX** in the left window and click on the + icon at the top of the main window to add or create a new PBX.



Enter the telephony details as shown in the right window and click on **Save** at the bottom of the screen.



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7.4. PBX Integrations

Navigate to **Setup** \rightarrow **PBX Integrations** in the left window and click on the + icon at the top of the main window to add or create a new PBX Integration.

	S	C System	n Configurati	ion					
Modules <	<	PBX Integratio	on	_		+	×	00	
Tenants	^	≎	Name	\$	Туре	\$ Active	≎	Status	
Employees									
Roles									
Licensing	∃								
Setup 🔺									
Servers									
Recording Architectu									
ASC PHONEapp									
PBX									
Phones									
PBX Integrations									

In the right window enter a suitable **Name** and select the **AVAYA CM active** as the **PBX Integration type**. Click on the Add Icon + next to **PBX** as shown below.

(ASC	AS	C System	Configurat	ion					👗 SYSTEM PROVIDER 🛛 🗐 😫
Modules	~~	PBX Integration				+	×	001	New PBX integration
Tenants	^	≎	Name	\$	Туре	\$ Active	\$	Status	PBX Integration Type Recording Architecture
Employees Coles Co		No records found							Name * AvayaTest PBX integration type * AVAYA CM active PBX + PBX +
Setup A Servers Recording Architectu ASC PHONEapp PBX Phones PBX Integrations									

(ASC	ASC System Configu	ration				>
Modules			PBX	 	×	
<u>^</u>						
Tenar 🕹	Name		Туре			
🔍 Emple Avaya	CM	AVAYA CM				
Roles					+	
Licen:					-	
Setup						
Servers						
Recording						
ASC PHON						
PBX						
Phones						
PBX Integr	≪ 1 ⇒ ⊨					
Additional				🕂 Add	Cancel	

Select the PBX, this was created in Section 7.3, click on Add at the bottom of the screen.

Click on Next at the bottom right of the screen to continue.

(ASC	AS	SC System	Configu	ration					👗 SYSTEI	I PROVIDER	 Image: Image: Ima	¢
Modules	<<	PBX Integratio					+ × 0		New PBX integratio	n		
Tenants	^	∥ ≎	Name	\$	Туре	\$ A	ctive ∥≎	Status	PBX Integration Type	Recording A	rchitecture	
		No records found							Name*	AvayaTest		
Employees									PBX integration type *		tive 🗸	
Roles									PBX		+	
									PBX*	Avaya CM	+ -	
Licensing												
Setup 🔺												
Servers												
Recording Architectu.												
ASC PHONEapp												
PBX												
Phones												
PBX Integrations												
Additional Data	~											C
Copyright by ASC telecom AG		ia <a>>	ÞI					_	Cancel		Back Ne	ext

ASC A	SC S	ystem (Configu	iration					👗 SYSTER	M PROVIDER		0 0
Modules 😽	PBX I	integration				+	× 0 0	New PB>	(integratio	'n	-	
Tenants			Name	\$	Туре	\$ Active	¢ Status	PBX Integr	ation Type	Recording Ar	chitecture	
	No rec	ords found						•	De	cording Architec	hura	_
Reployees											lure	
Roles								Recording	architecture *	AvayaTest	×	
Licensing												
Setup 🔺												
Servers												
Recording Architectu												
ASC PHONEapp												
PBX												
Phones												
PBX Integrations												
Additional Data	•											
Copyright by ASC telecom AG	14	≪ ▶	►I.					Save	Cancel		Back	Ne

Select the Recording architecture, created in Section 7.2, and click on Save.

Once saved click on the Maximize icon 🖸. There are two steps left to configure before the system is ready.

- Configure CTI connection data.
 Configure monitor points.

(ASC	AS	SC S	System Configu	ration			
Modules	~~	РВХ	Integration			+	x 0 0 A ?
Tenants	^		\$ Name	\$	Туре	¢ Active	≎ Status
- Contenancs		•	AvayaTest	AVAYA	CM active	×	xÞ
Q Employees				Step		Configuration	
<u> </u>			Configure recording architect	ture		\checkmark	I
Roles			Configure CTI connection data			×	I
Licensing	Ξ		Configure monitor points			×	
			Configure recording servers			~	₽ /
Setup 🔺			Configure add-on			~	V
Servers							
Recording Architectu							

7.4.1. Configure CTI connection data

Click on the edit icon next to **Configure CTI connection data**. Click on **+Add** under **PBX connection data** in the right window.

(ASC	AS	SC (System Configur	ation			🛓 SYSTEM PROVIDER 🛛 🗐 🔕
Modules	<<	PB)	X Integration		+	x 0 0 f	? Step: Configure CTI Connection Data
Tenants	^		⊪≎ Name	\$ Type	¢ Active	≎ Status	Module 1*
- Contantos		0	AvayaTest	AVAYA CM active	×	×Þ	
🔍 Employees			S	itep	Configuration		CTiconnect Module *
Employees			Configure recording architectu	ıre	✓	I	Type CTIconnect active
Roles			Configure CTI connection data	a	×		Grammar name * Avaya
			Configure monitor points		×		Grammar version * 1.00.33 💌
			Configure recording servers		~	I	✓ PBX Connection Data*
Setup 🔺			Configure add-on		~	V	
Servers							No records found
							Add 🛛 Edit 🗙 Delete
Recording Architectu							Audio codec G711A 💌
ASC PHONEapp							Operation mode Single Step Conference Mode 💌

Enter the Communication Manager and AES information. This information can be obtained from **Sections 5&6**. Click on **Save** once complete. Note in the screen shot below the **CLAN IP address** will be that of the **procr** address displayed in **Section 5.2**.

PBX			+ × 0 0 4	🔨 ? Step: Configure CTI Connection Data
	≎ Name	\$ Type	≎ Active ≎ Status	Module 1*
•	AvayaTest	Confi	gure PBX Connection	× CTiconnect Module *
	Configure recording archite	CLAN IP address	5 * 10.10.40.31	Type CTIconnect active
	Configure CTI connection d	Switch connection name	e * CM63vmpg	Grammar name * Avaya
	Configure monitor points	AES server IP address	5 * 10.10.40.30	Grammar version * 1.00.33
	Configure recording server	AES server por	t* 4721	▼ PBX Connection Data*
	Configure add-on	PBX user name	e * asc	
		PBX password	* •••••	No records found
		Encrypted AES conne	ction	Add 📝 Edit 🗙 Delete
				Audio codec G711A 💌
				Operation mode Single Step Conference Mode 💌
				≎ Softphone Extension
			Save	Cancel No records found.
				Add X Delete

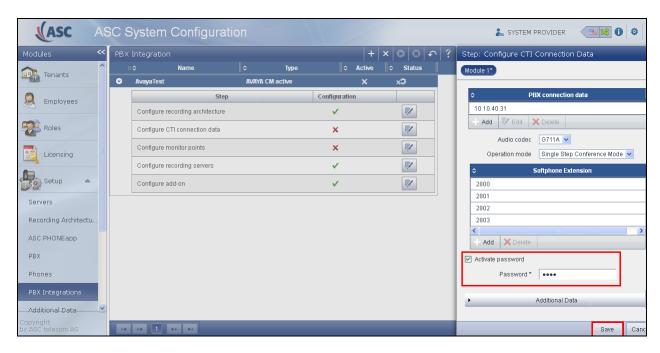
Modules	<< F	BX Integration		+	× 0 0 • ?	Step: Configure CTI Connection Data
ᇌ Tenants		II ≎ Name	¢ Type	¢ Active	¢ Status	Module 1*
		AvayaTest	AVAYA CM active	×	×⊅	Grammar name " Avaya 💌
🔍 Employees			Step	Configuration		Grammar version * 1.00.33 💌
		Configure recording archi	tecture	\checkmark	I /	▼ PBX Connection Data*
🗱 Roles		Configure CTI connection	data	×	P	
Licensing	-	Configure monitor points		×		PBX connection data
		Configure recording serve	irs	~		+ Add 🕅 Edit 🗙 Delete
Setup 🔺		Configure add-on		~		Audio codec G711A 💌
Servers						Operation mode Single Step Conference Mode
Recording Architectu.						Softphone Extension
ASC PHONEapp						No records found.
PBX						Activate password
Phones						Password *

On the same screen, in the right window, select +Add under Softphone Extension.

Enter the virtual extension numbers created in Section 5.5.

PBX Inte	egration			+	$ \mathbf{x} $	00	\$?				
≎	Name	≎	Type ≎	Active	≎	Status						
	aya Test Step	,	Add Softphone Extensions 🛛 🗙									
	onfigure recording architecture		O Single softphone extension Softphone extension*(max		icters)							
	onfigure monitor points		 Softphone extension range from*(max. 18 characters) 2800 	•								
	onfigure recording servers onfigure add-on	+	t0*(max. 18 characters)									
						Quand						
				Sat	/e	Cancel						

Click on **Activate password** and enter the password for the virtual stations created in **Section 5.5**. Click on **Save** at the bottom of the screen once complete.



7.4.2. Configure monitor points

Click on the edit icon next to **Configure Monitor points**. Click on +**Add** in the right window.

	AS	сs	System Configu	ration							指 SYSTEM P	ROVIDER	•
Modules	~~	PBX	Integration				+	x 0 0 f	· ?	Step: C	onfigure Moni	tor Points	-
🏫 Tenants	^	•	≎ Name Avaya⊺est	≎ Avaya cm	Type active		Active X	ll≎ Status		Extension	n Monitor Points	Attendant ext	ension monitor points
Remployees				Step		Configuration				^	Extension	\$	Active
			Configure recording architect	ure		✓				No record	is found.		
Roles			Configure CTI connection da	a		\checkmark				+ Add	- Active/Inactive	e 🗙 Delete	
Licensing			Configure monitor points			×		Ţ.					
			Configure recording servers			~		V					
Setup 🔺			Configure add-on			~		V					

Enter the extensions to be monitored or recorded and click on Save once complete.

PBX	Integration		+ × 0 0 4	<u>؟</u>
I	l≎ Name	≎	Type ≎ Active ≎ Status	
•	AvayaTest	A		
	Step		Add Extension Monitor Points	
	Configure recording architecture	Name Type Active Status a Test a Test Add Extension Monitor Points figure recording architecture figure CTI connection data figure monitor points figure recording servers figure add-on figure add-on Name Type Add Extension Monitor Points Add Extension Monitor Points figure recording architecture Extension*(max. 18 characters) 2000 to*(max. 18 characters) 2001 (max. 18 characters) (max. 18 characters)		
	Configure CTI connection data			
	Configure monitor points			
	Configure recording servers		2000	
	Configure add-on			
				-
			Save Cancel	

The extensions that will be recorded show in the right window. Once complete click on **Save** at the bottom of the screen.

(ASC A	٩S	ic s	System	Configura	ation			/				👗 SYSTEM P	ROVIDER		0
Modules	~~	PBX	Integration					+	× O C) n ?	Step	: Configure Moni	tor Points		×
Tenants				Name		Туре		Active	≎ Statı	us	Exter	sion Monitor Points	Attendant	extension moni	tor points
		0	AvayaTest		avaya ci	ll active		x	×Þ	_					
🔍 Employees				St	ep		Configuratio	n			1 -	Extension	\$	Active	
0			Configure r	ecording architectur	e		\checkmark		Ţ.		1000			~	
Roles			Configure (CTI connection data			~		1		1001			~	
			Configure r	nonitor points			×				2000			✓	
Licensing										_	2001			V	
A.			Configure r	ecording servers			~		V		2500			~	
Setup 🔺			Configure a	add-on			\checkmark		V		+ Ac	d Active/Inactive		te	
Servers											I				
Recording Architectu											I				
											I				
ASC PHONEapp											I				
PBX											I				
Phones											I				
PBX Integrations											I				
	~														
Additional Data	-														
by ASC telecom AG		M	•	P> P1										Save	Cancel

Click on **Save** at the bottom of the screen and this completes the setup for the PBX Integration. This new PBX Integration now needs to be activated by pressing on the Activate icon highlighted in the screen below. This will enable recording to begin.

ASC AS	SC System Configuration		👗 SYSTEM PROVIDER 🛛 🗐 🔇
Modules <	PBX Integration	+ × O O ♪ ?	AvayaTest
Tenants		npe ≎ Active ≎ Status	Details*
Employees Roles Licensing Setup	AvayaTest AvayaTest AvayaTest AvayaTest AvayaTest AvayaTest Step Configure recording architecture Configure CTI connection data Configure monitor points Configure recording servers Configure add-on	Configuration ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	Name * AvayaTest PBX Avaya CM PBX integration type A/#VA CM active Status PBX integration Inactive PBX integration
Servers Recording Architectu ASC PHONEapp PBX			
Phones PBX Integrations Additional Data Copyright by ASC telecom AG	14 ee 1 20 21		🖹 Save 💌 Reset

8. Verification Steps

This section provides the tests that can be performed to verify correct configuration of the Avaya and ASC solution.

8.1. Verify Avaya Aura® Communication Manager CTI Service State

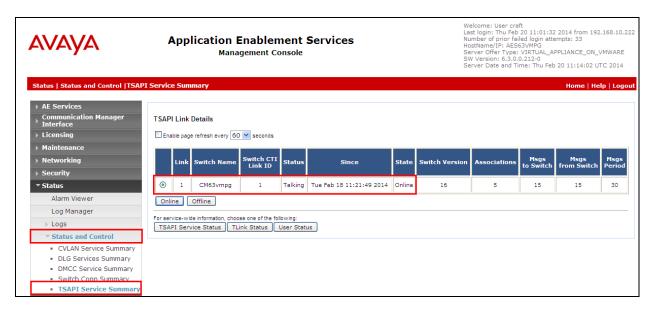
The following steps can validate that the communication between Communication Manager and AES is functioning correctly. Check the AESVCS link status with AES by using the command **status aesvcs cti-link**. Verify the **Service State** of the CTI link is **established**.

statu	s aesvcs ct	i-link				
			AE SERVICES	CTI LINK STATUS		
CTI Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Rcvd
1	4	no	aes63vmpg	established	18	18

8.2. Verify TSAPI Link and DMCC

8.2.1. Verify TSAPI Link

On the AES Management Console verify the status of the TSAPI link by selecting Status \rightarrow Status and Control \rightarrow TSAPI Service Summary to display the TSAPI Link Details screen. Verify the status of the TSAPI link by checking that the Status is Talking and the State is Online.



8.2.2. Verify Avaya Aura® Application Enablement Services DMCC Service

The following steps are carried out on AES to validate that the communication link between AES and the ASC server is functioning correctly. Verify the status of the DMCC service by selecting Status \rightarrow Status and Control \rightarrow DMCC Service Summary. The DMCC Service Summary – Session Summary screen is displayed as shown below. It shows a connection to the ASC server, IP address 10.10.40.40. The Application is shown as cmapiApplication, and the Far-end Identifier is given as the IP address 10.10.40.40 as expected. The User is shown as the user created for the CTI user for ASC Server, in this case asc.

Αναγα	Application Enablement Se Management Console	rvices		Number of prior failed HostName/IP: AES63V Server Offer Type: VIF SW Version: 6.3.0.0.21	MPG RTUAL_APPLIANCE_ON_VMWAR	RE
Status Status and Control DMCC	Service Summary				Home Help Logo	out
AE Services Communication Manager Interface Licensing Maintenance Networking Security Status Alarm Viewer	DMCC Service Summary - Session Summary Description Desc	23 hours 38 minutes				
Log Manager	Session ID	User Application	Far-end Identifier	Connection Type	# of Associated Devices	1
Logs Status and Control CVLAN Service Summary DLG Services Summary DMCC Service Summary Switch Conn Summary TSAPI Service Summary	480296D71BABBBD11 560CC61BE9C0470-2 Terminate Sessions Show Terminated Sessions Rem 1-1 of 1	asc cmapiApplication	10.10.40.40	XML Unencrypted	4	

8.3. Verify ASC EVOIPneo active for Avaya Aura (with CM & AES) services are running

Open services.exe and ensure that the correct ASC services are running. Below is a list of services that were running during the compliance testing.

elect an item to view its description.	Name 📩	Description	Status	Startup Type	Log On As
	Application Information	Facilitates t		Manual (Trig	Local Syste
	Application Layer Gateway	Provides su		Manual	Local Service
	Application Management	Processes in		Manual	Local Syste
	AppX Deployment Service (Provides inf		Manual	Local Syste
	ASC APIServer		Running	Manual	Local Syste
	ASC CTIConnectForAlcatel			Manual	Local Syste
	ASC CTIConnectForAvayaCM	pifavayacm	Running	Manual	Local Syste
	🔍 ASC CTIConnectForCiscoU	pifciscoucm		Manual	Local Syste
	ASC CTIConnectForGenesysT	pifgenesyst	Running	Manual	Local Syste
	🔍 ASC CTIConnectForHiPath4			Manual	Local Syste
	ASC CTIConnectForMitelIC			Manual	Local Syste
	ASC CTIConnectForOBS (m			Manual	Local Syste
	ASC CTIConnectForOSCC (Manual	Local Syste
	ASC CTIConnectForOSV (m			Manual	Local Syste
	🎑 ASC DeleteMan		Running	Automatic	Local Syste
	ASC DongleManConnector	DongleMan		Manual	Local Syste
	🎑 ASC FileMan		Running	Manual	Local Syste
	🔍 ASC LocalReplayService			Manual	Local Syste
	ASC RecordingControl		Running	Manual	Local Syste
	ASC RecordingModule	recmodule	Running	Manual	Local Syste
	🔅 ASC RIA		Running	Manual	Local Syste
	🌼 ASC ServiceMan		Running	Automatic	Local Syste
	🔅 ASC Speech Analysis Engin	ASC Speech	-	Manual	Local Syste
	ASC TDMModule	-		Manual	Local Syste
	🔍 ASC TimeMan		Running	Manual	Local Syste
	Sackground Intelligent Tran	Transfers fil		Manual	Local Syste
	🍓 Background Tasks Infrastru	Windows in	Running	Automatic	Local Syste
	鵒 Base Filtering Engine	The Base Fil	Running	Automatic	Localiservice Windows
	🎑 Certificate Propagation	Copies user	Running	Manual	Local System in Control Panel 1
	CNG Key Isolation	The CNG ke		Manual (Trig	Local Syste Mindows

8.4. Verify ASC EVOIPneo active for Avaya Aura (with CM & AES) Capture and Playback

The playback of ASC recordings is achieved by opening a web session connecting to that servers IP address. Mozilla Firefox is the supported web browser.

Using Mozilla Firefox open a web session to https://<ServerIP>:8181/PowerPlayWeb/. Enter the proper username and password and click on Login.

ASC System Configuration	POWERplay Web	× +		
E Attps://10.10.40.40:8181/POWERplay	yWeb/index.jsf		🏫 ⊽ 🗷 🛛 🔀 ▼ Google	\mathbf{p}
ASC Portal Avaya-Nortel PEP Libr	comdasys 🔅 NICE Perform®	RP_SMGR 🗍 SMGR62 🦳 SMGR63VMPG 🦳 PO	POWERplay Web	
	R <i>play</i> Web			
		Login Combination Login Login name* [rist-tenant- Password* • Login or Eorgo	1t-admin	

The following screen appears and the Java applet loads automatically. There may be a message asking to activate this on the first instance, if so click on Yes to continue (not shown).

Modules <						, 1st-Tenant Admin 🤇 💻 😫 🚺 🔮
Modules 🥙 Co	onversations		で ゆ り 目	💵 😌 🔉 🕅	? Conversatio	ns
Conversation	oaded 😂 Start Time	≎ End Time	¢ Duration	≎ Call Direction	Ca Details Par	ticipants Additional Data
	2014/02/14 14:08:58	2014/02/14 14:08:59	00:00:01:058	Outbound		
	2014/02/14 14:07:35	2014/02/14 14:07:40	00:00:05:566	Inbound		Conversation Information
Participant View	2014/02/13 17:29:59	2014/02/13 17:30:08	00:00:08:945	Outbound	=	
	2014/02/13 17:29:45	2014/02/13 17:30:16	00:00:31:720	Internal	St	art time 2014/02/13 17:29:59
	2014/02/13 17:29:18	2014/02/13 17:29:27	00:00:08:136	Internal	E	nd time 2014/02/13 17:30:08
	2014/02/13 17:29:02	2014/02/13 17:29:38	00:00:35:524	Inbound	D	uration 00:00:08:945
	2014/02/13 17:27:36	2014/02/13 17:27:46	00:00:09:621	Inbound	Call d	irection Outbound
	2014/02/13 17:27:25	2014/02/13 17:27:33	00:00:08:360	Inbound	Conversa	ation ID 0d88bacc-97e3-44dd-9c9a-b
	2014/02/06 16:48:47	2014/02/06 16:48:57	00:00:10:228	Outbound	DTMF set	quence
	2014/02/06 16:48:30	2014/02/06 16:49:11	00:00:41:027	Internal		
	2014/02/06 16:47:52	2014/02/06 16:48:04	00:00:12:124	Internal		Calling Party Information
	2014/02/06 16:47:31	2014/02/06 16:48:21	00:00:49:384	Inbound	Calling party PB)	X Agent
	2014/02/06 16:27:05	2014/02/06 16:27:25	00:00:19:424	Inbound	, canny party r b	ID
	2014/02/06 16:23:05	2014/02/06 16:24:18	00:01:13:585	Inbound	Calling narts	nhone
Copyright by ASC telecom AG	< 1 2 3 4 5 ▶>	FI		>	💾 Save	🔊 Reset
å e 🔒 🖻 🖝			00000	0		
* The applet is initialized. 🚥	 The applet is connected. 	ASC Replay Applet - Versio	n: 4.42.0 Latest Build: 20	14-01-09 11:31		

PG; Reviewed: SPOC 05/08/14 Solution & Interoperability Test Lab Application Notes ©2014 Avaya Inc. All Rights Reserved. 36 of 39 ASCEVOIP_AES63 Double-Click on the recording to be played and click on the Play icon \triangleright at the bottom of the screen to play back the recording.

odules <	Convers	sations		で ゆ 即	☷ ᢒ Ջ Ջ	۶ ?	Conversation	IS		
Conversation	Loaded	≎ Start Time	¢ End Time	⇒ Duration		Ci	Details Part	icipants Addi	tional Data	
		2014/02/14 14:08:58	2014/02/14 14:08:59	00:00:01:058	Outbound					
		2014/02/14 14:07:35	2014/02/14 14:07:40	00:00:05:566	Inbound		_	Conversation I	nformation	
S Participant View		2014/02/13 17:29:59	2014/02/13 17:30:08	00:00:08:945	Outbound					
		2014/02/13 17:29:45	2014/02/13 17:30:16	00:00:31:720	Internal				2/13 17:29:59	
		2014/02/13 17:29:18	2014/02/13 17:29:27	00:00:08:136	Internal		En	d time 2014/02	2/13 17:30:08	
		2014/02/13 17:29:02	2014/02/13 17:29:38	00:00:35:524	Inbound		Du	iration 00:00:0	8:945	
		2014/02/13 17:27:36	2014/02/13 17:27:46	00:00:09:621	Inbound		Call dir	ection Outbour	nd	
		2014/02/13 17:27:25	2014/02/13 17:27:33	00:00:08:360	Inbound		Conversat	tion ID 0d88ba	cc-97e3-44dd-9c9a-b	
		2014/02/06 16:48:47	2014/02/06 16:48:57	00:00:10:228	Outbound		DTMF seq	uence		
		2014/02/06 16:48:30	2014/02/06 16:49:11	00:00:41:027	Internal					
		2014/02/06 16:47:52	2014/02/06 16:48:04	00:00:12:124	Internal			Calling Party Ir	formation	
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9. Conclusion

These Application Notes describe the configuration steps required for ASC telecom ASC EVOIPneo active for Avaya Aura (with CM & AES) to successfully interoperate with Avaya Aura® Communication Manager R6.3 using Avaya Aura® Application Enablement Services R6.3. All feature functionality and serviceability test cases were completed successfully as outlined in **Section 2.2**.

10. Additional References

This section references the Avaya and ASC product documentation that are relevant to these Application Notes.

Product documentation for Avaya products may be found at <u>http://support.avaya.com</u>.

- [1] Administering Avaya Aura® Communication Manager, Document ID 03-300509
- [2] Avaya Aura® Communication Manager Feature Description and Implementation, Document ID 555-245-205
- [3] Avaya Aura® Application Enablement Services Administration and Maintenance Guide Release 6.3

Product documentation for ASC telecom can be obtained as follows:

- Email: <u>hq@asctelecom.com</u>
- Website: <u>www.asctelecom.com</u>
- Phone: +49 6021 5001-0

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