

DevConnect Program

Application Notes for CallCabinet SSC Recorder with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services using Single Step Conference – Issue 1.0

Abstract

These Application Notes describe the configuration steps required to integrate CallCabinet SSC Recorder 3.0.1.5 with Avaya Aura® Communication Manager 10.1 and Avaya Aura® Application Enablement Services 10.1 using Single Step Conference. CallCabinet SSC Recorder is a cloud-based call recording solution.

In this compliance test, CallCabinet SSC Recorder used the Device, Media, and Call Control interface of Avaya Aura® Application Enablement Services to monitor skill groups and agent stations on Avaya Aura® Communication Manager and used the Single Step Conference method to capture media associated with the monitored agent stations for stereo call recording. The solution supports both mono and stereo call recording.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as any observations noted in **Section 2.2**, to ensure that their own use cases are adequately covered by this scope and results.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program.

1. Introduction

These Application Notes describe the configuration steps required to integrate CallCabinet SSC Recorder with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services using Single Step Conference. CallCabinet SSC Recorder is a cloud-based call recording solution.

In this compliance test, CallCabinet SSC Recorder used the Device, Media, and Call Control (DMCC) interface from Avaya Aura® Application Enablement Services to monitor skill groups and agent stations on Avaya Aura® Communication Manager and used the Single Step Conference method to capture media associated with the monitored agent stations for stereo call recording. Stereo call recording is suited for analytics, speech recognition, and transcription applications. The solution supports both mono and stereo call recording.

CallCabinet SSC Recorder is comprised of two applications, the SSC Recorder and the RTP Recorder. When there is an active call at the monitored agent station, SSC Recorder application is informed of the call via event reports from the DMCC interface using an encrypted DMCC link. SSC Recorder starts the stereo call recording(s) by using the Single Step Conference method to add a virtual IP softphone to the active call at the agent to obtain the media. The event reports are also used to determine when to stop the call recordings. The RTP Recorder applications captures the SRTP audio and uploads it to the cloud. Per design, the audio of all active calls on a monitored agent station are captured in the same call recording. The CallCabinet SSC Recorder Portal allows play back of all call recordings logged with call details, such as time, duration, calling and called party, agent ID, queue ID, and more.

In these Application Notes, SSC Recorder refers to the complete call recording solution, not simply the SSC Recorder application mentioned above, unless otherwise specified.

2. General Test Approach and Test Results

The interoperability compliance test included feature and serviceability testing. The feature testing focused on SSC Recorder using DMCC to perform device queries, monitor skill groups and agent stations, register the virtual IP softphones, and use Single Step Conference for call recordings. Each call to an agent station was recorded in stereo and stored in the cloud and the SSC Recorder Portal allowed the call recordings to be played back. Various call scenarios, such as hold/resume, call transfers, and conferences were exercised to verify proper call recording.

Test verification also included the use of Application Enablement Services and SSC Recorder logs to verify the message exchanges and the use of SSC Recorder Portal to verify the proper logging and playback of calls.

The serviceability testing focused on verifying that SSC Recorder returned to service after busying out and releasing the CTI link between Communication Manager and Application Enablement Services and restarting the DMCC and TSAPI services on Application Enablement Services.

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.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in these DevConnect Application Notes included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Notes, the interface between Avaya systems and CallCabinet SSC Recorder utilized encrypted DMCC and SRTP.

2.1. Interoperability Compliance Testing

Interoperability compliance testing covered the following features and functionality:

- Use of DMCC to monitor skill groups and agent stations, register virtual IP softphones, and activate Single Step Conference.
- Proper recording, logging, and playback of calls for scenarios involving inbound, outbound, internal, external, ACD, non-ACD, hold, resume, G.711, forwarding, service observing, auto answer, RONA, long duration, multiple calls, multiple agents, conference, and transfer. The solution supports both G.711 and G.729 for RTP and G.711 for SRTP.
- The use of an encrypted DMCC link between Application Enablement Services and SSC Recorder and stereo call recordings using SRTP. The solution supports both mono and stereo recording.

The serviceability testing focused on verifying the ability of SSC Recorder to recover from adverse conditions, such as restarting the CTI link and the DMCC and TSAPI services on Application Enablement Services.

2.2. Test Results

All test cases passed with the following observation:

• The association of an agent station to Agent ID persists in the SSC Recorder Portal call listing after the agent has logged out.

• The Queue ID in the SSC Recorder Portal call listing shows the hunt group ID when the agent is logged into the ACD queue and is blank when the agent is logged out. The Queue ID is also blank when a direct call (i.e., non-ACD call) is placed to an agent station without the call being routed through a VDN or hunt group or for outgoing calls from an agent station.

2.3. Support

Technical support on CallCabinet SSC Recorder may be obtained through the following:

- **Phone:** (800) 653-1389
- Web: <u>https://support.callcabinet.com</u>

3. Reference Configuration

The configuration used for the compliance test is shown in **Figure 1**. The configuration consisted of a basic call center with a skill group and agent stations being monitored by SSC Recorder in the cloud using an encrypted DMCC link and recording two-way, SRTP audio of active calls on monitored agent stations in stereo. The SSC Recorder Portal allowed the logging and play back of call recordings.

In the compliance Test, SSC Recorder monitored skill groups and agent stations shown in the table below.

Device Type	Extension
Skill Group	77500
Agent Stations	77301 (H.323), 78004 (SIP)
Agent IDs	76301, 76302



Figure 1: Avaya Aura® Call Center with CallCabinet SSC Recorder in the Cloud

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® Communication Manager	10.1.2.0.0-FP2
Avaya G430 Media Gateway	FW 42.8.0
Avaya G450 Media Gateway	FW 42.7.0
Avaya Aura® Media Server	10.1.0.77
Avaya Aura® Application Enablement Services	10.1.0.2.0.12-0)
	10.1.2.0
	Build No. – 10.1.0.0.537353
Avaya Aura® System Manager	Software Update Revision No:
	10.1.2.0.0-071476
	Feature Pack 2
Avaya Aura® Session Manager	10.1.2.0.1012016
Avaya Session Border Controller for Enterprise	10.1.1.0-35-21872
Avaya 96x1 Series Deskphones	6.8.5.4.10 (H.323)
Avaya J100 Series Telephones	4.0.13.0.6 (SIP)
Avaya Agent for Desktop	2.0.6.25.3006 (SIP)
CallCabinet SSC Recorder	3.0.1.5

5. Configure Avaya Aura® Communication Manager

This section provides the procedures for configuring Communication Manager. The procedures include the following areas:

- Verify license
- Administer CTI link
- Administer IP codec set
- Administer virtual IP softphones

Note: It is assumed that the configuration of a basic call center, including VDN, skill group, agent stations, and agent login IDs, is already in place and will not be covered in these application notes.

5.1. Verify License

Log into the System Access Terminal to verify that the Communication Manager license has proper permissions for features illustrated in these Application Notes. Use the **display systemparameters customer-options** command to verify that the **Computer Telephony Adjunct Links** customer option is set to **y** on **Page 4**. If this option is not enabled, contact an authorized Avaya sales representative to make appropriate changes.

```
4 of 12
                                                              Page
display system-parameters customer-options
                              OPTIONAL FEATURES
   Abbreviated Dialing Enhanced List? y
                                                Audible Message Waiting? y
                                                Authorization Codes? y
       Access Security Gateway (ASG)? n
       Analog Trunk Incoming Call ID? y
                                                             CAS Branch? n
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? n
                                                      DCS (Basic)? y
         ASAI Link Core Capabilities? y
                                                     DCS Call Coverage? y
         ASAI Link Plus Capabilities? y
                                                     DCS with Rerouting? y
```

5.2. Administer CTI Link

Add a CTI link using the **add cti-link** command. Enter an available extension number in the **Extension** field. Note that the CTI link number and extension number may vary. 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: 77700

Type: ADJ-IP

COR: 1

Name: AES TSAPI Link

Unicode Name? n
```

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5.3. Administer IP Codec Set

Use the **change ip-codec-set** command to access the **IP Codec Set** form to select the audio codec and media encryption for agents calls and call recording using virtual IP softphones. SSC Recorder supports G.711 with stereo call recording and SRTP using *1-srtp-aescm128-hmac80*. SSC Recorder also supports G.729 with RTP.

```
change ip-codec-set 1
                                                                   Page
                                                                          1 of
                                                                                 2
                           IP MEDIA PARAMETERS
   Codec Set: 1
AudioSilenceFramesPacketCodecSuppressionPer PktSize(ms)1: G.711MUn220
                 n
                         2
 2:
 3:
 4:
 5:
 6:
 7:
    Media Encryption
                                         Encrypted SRTCP: best-effort
1: 1-srtp-aescm128-hmac80
 2: 2-srtp-aescm128-hmac32
 3: none
 4:
 5:
```

5.4. Administer Virtual IP Softphones

Add a virtual IP softphone using the **add station** command. Enter the following values for the specified fields and retain the default values for the remaining fields. For the compliance test, eight virtual IP softphones were created with extensions 77951 to 77958. SSC Recorder registers two device instances per virtual IP softphone for stereo call recording and uses Single Step Conference to join one virtual IP softphone to an active call for call recording.

- **Extension:** The available extension number.
- **Type:** Any IP telephone type, such as "9608".
- Name: A descriptive name.
- Security Code: A desired code.
- IP SoftPhone: "y"

add station 77951	F	Page 1 of 5		
	STATION	age i or o		
	STATION			
Extension: 77951	Lock Messages? n	BCC: 0		
Type: 9608	Security Code: 1234	TN: 1		
Port: IP	Coverage Path 1:	COR: 1		
Name: SSC Recorder DMCC 1	Coverage Path 2:	COS: 1		
Unicode Name? n	Hunt-to Station:	Tests? y		
STATION OPTIONS				
	Time of Day Lock Table	:		
Loss Group: 19	Personalized Ringing Pattern	: 1		
	Message Lamp Ext: 77	951		
Speakerphone: 2-way	2: 2-way Mute Button Enabled? y			
Display Language: english	: english Button Modules: 0			
Survivable GK Node Name:				
Survivable COR: internal	Media Complex Ext	:		
Survivable Trunk Dest? y	IP SoftPhone	?у		
	IP Video Softphone	? n		
Short	/Prefixed Registration Allowed	: default		
	Customizable Labels	? Y		

Repeat this section to administer the desired number of virtual IP softphones. In the compliance testing, eight virtual IP softphones were administered as shown below.

list station	77951 count	8			Page	1
		STAT	FIONS			
Ext/ Hunt-to	Port/ Name Type S	e/ Surv GK NN	Move	Room/ Cable Jack	Cv1/ COR/ Cv2 COS TN	
77951	S000057 : 9608	SSC Recorder	DMCC 1 no		1 1 1	
77952	S000059 : 9608	SSC Recorder	DMCC 2		1 1 1	
77953	S000060 :	SSC Recorder	DMCC 3		1 1 1 1	
77954	S000061 :	SSC Recorder	DMCC 4		1 1 1 1	
77955	S000062 :	SSC Recorder	DMCC 5			
77956	S000063 :	SSC Recorder	DMCC 6			
77957	S000064 :	SSC Recorder	DMCC 7			
77958	9608 S000064 : 9608	SSC Recorder	DMCC 8 no		$\begin{array}{c}1&1\\1\\1&1\end{array}$	

6. Configure Avaya Aura® Application Enablement Services

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

- Launch OAM interface
- Verify license
- Administer TSAPI link
- Administer Switch Connection
- Administer SSC Recorder user
- Administer security database
- Administer ports
- Restart services

6.1. Launch OAM Interface

Access the OAM web-based interface by using the URL "https://<ip-address>" in an Internet browser window, where *<ip-address>* is the IP address of Application Enablement Services. The login screen is displayed. Log in using the appropriate credentials.

AVAYA	Application Enablement Services Management Console			
		Нер		
	Please login here:			
	Username Continue			

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The Welcome to OAM screen is displayed next.



Application Enablement Services Management Console Welcome: User cust Last login: Fri Apr 14 09:18:50 2023 from 192.168.100.251 Number of prior failed login attempts: 0 HostName/IP: devcon-aes/10.64.102.119 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.0.2.0.12-0 Server Date and Time: Wed Apr 19 09:57:01 EDT 2023 HA Status: Not Configured

Home	Home Help Logout						
 AE Services Communication Manager Interface 	Welcome to OAM						
High Availability	The AF Services Operations, Administration, and Management (OAM) Web provides you with tools for						
► Licensing	managing the AE Server. OAM spans the following administrative domains:						
▶ Maintenance	 AE Services - Use AE Services to manage all AE Services that you are licensed to use on the AE Server. 						
▶ Networking	Communication Manager Interface - Use Communication Manager Interface to manage switch connection and dialoga						
▹ Security	High Availability - Use High Availability to manage AE Services HA.						
→ Status	And the second sec						
▹ User Management	 Networking - Use Networking to manage the network interfaces and ports. Security - Use Security to manage Linux user accounts, certificate, host authentication and 						
→ Utilities	 Status - Use Status to obtain server status informations. 						
▶ Help	 User Management - Use User Management to manage AE Services users and AE Services user- related resources. Utilities - Use Utilities to carry out basic connectivity tests. Help - Use Help to obtain a few tips for using the OAM Help system 						
	Depending on your business requirements, these administrative domains can be served by one administrator for all domains, or a separate administrator for each domain.						

6.2. Verify License

Select Licensing \rightarrow WebLM Server Access in the left pane to display the applicable WebLM server login screen (not shown). Log in using the appropriate credentials and navigate to display installed licenses (not shown).



Avaya DevConnect Application Notes ©2023 Avaya Inc. All Rights Reserved. Select Licensed products \rightarrow APPL_ENAB \rightarrow Application_Enablement in the left pane to display the Application Enablement (CTI) screen in the right pane.

Verify that there are sufficient licenses for **Device Media and Call Control** and **TSAPI Simultaneous Users** as shown below. The DMCC license is used for the virtual IP softphones and the TSAPI license is used for device monitoring.

AV Aura® Syst	em Manager 10.1 ▲ Users ∨	nts 🗸 🌩 Services 🗸 Widgets 🧸	✓ Shortcuts ∨		Search	▲ ≡	admin
Home	Licenses						
L	WebLM Home	Application Enablement (CTI) - R	elease: 10 - SI	(D: 10503000	Star	ndard Licens	e file 📩
	Install license	Marian have firmed Backets a Andrewice Backlands a Maria Sanatha					
	Licensed products	Tou are nere. Elensed Products > Application		v Elcense Capacity			
	APPL_ENAB	License installed on: May 31, 2022 10	:32:15 AM -04:	00			
	- Application_Enablement						
	View license capacity	License File Host IDs: V9-DF-31-	89-CD-2A-01				
	View peak usage						
	ASBCE	Licensed Features					
	►Session_Border_Controller_E_AE						
	COMMUNICATION_MANAGER	13 Items 🍣 Show All 🗸					
	►Call_Center	Feature (License Keyword)	Expiration date	Licensed capacity			- 1
	► Communication_Manager	Device Media and Call Control VALUE_AES_DMCC_DMC	permanent	10000			
	FE	AES ADVANCED LARGE SWITCH	permanent	16			
	►AvayaWorkplace	VALUE_AES_AEC_LARGE_ADVANCED	permanent	10			
	MESSAGING	VALUE_AES_HA_LARGE	permanent	1			
	▶Messaging	AES ADVANCED MEDIUM SWITCH	permanent	16			
	MSR	Unified CC API Desktop Edition					
	Media_Server	VALUE_AES_AEC_UNIFIED_CC_DESKTOP	permanent	10000			
	OL	CVLAN ASAI VALUE AES CVLAN ASAI	permanent	16			
	►OL	AES HA MEDIUM	permanent	1			
	POM	VALUE_AES_HA_MEDIUM	permanent	1			
	►POM	VALUE_AES_AEC_SMALL_ADVANCED	permanent	16			
	SYSTEM_MANAGER	DLG	permanent	16			
>	►System_Manager	TSAPI Simultaneous Users					
	SessionManager	VALUE_AES_TSAPI_USERS	permanent	10000			-
	4						

Scrolling down to the **Acquired Licenses** section indicates that for eight virtual IP softphones used for stereo call recording, 16 DMCC licenses are used, and to monitor one skill group and two agent stations, three TSAPI licenses are used as shown below.

Acquired Licenses

2 Items 🗠 Show All 🗸					
Feature	Acquired by	Acquirer ID	Count		
VALUE_AES_DMCC_DMC	DMCC (devcon- aes)	6392456460958976	16		
VALUE_AES_TSAPI_USERS	TSAPI (devcon- aes)	devcon- aes:1681483417:2006978:139820032505984:0000	3		

6.3. Administer TSAPI Link

Select AE Services \rightarrow TSAPI \rightarrow TSAPI Links from the left pane of the Management Console to administer a TSAPI link. The TSAPI Links screen is displayed as shown below. Click Add Link.

	cation Ena Manager	ablement Serv ment Console	ices	Welcome: User of Last login: Fri Ap Number of prior HostName/IP: do Server Offer Typ SW Version: 10. Server Date and HA Status: Not O	ust or 14 09:18:50 2023 from failed login attempts: 0 evcon-aes/10.64.102.119 e: VIRTUAL_APPLIANCE_0 1.0.2.0.12-0 Time: Wed Apr 19 10:03: Configured	192.168.100.251 N_VMWARE D2 EDT 2023
AE Services TSAPI TSAPI Link	5				Home	Help Logout
▼ AE Services	TSAPI Lini	(5				
> DLG	Link	Switch Connection	Swite	ch CTI Link #	ASAI Link Version	Security
▶ DMCC	Add Link	Edit Link Delete Link				,
▶ SMS						
▼ TSAPI						
 TSAPI Links 						
 TSAPI Properties 						

The **Add TSAPI Links** screen is displayed next. The **Link** field is only local to the Application Enablement Services server and may be set to any available number.

For **Switch Connection**, select the relevant switch connection from the drop-down list. In this case, the existing switch connection *devcon* is selected. For **Switch CTI Link Number**, select the CTI link number from **Section 5.2**.

Retain the default value for **ASAI Link Version** and set **Security** to the desired value, in this case *Both* to allow for both encrypted and non-encrypted connections.



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6.4. Administer H.323 Gatekeeper

Select Communication Manager Interface \rightarrow Switch Connections from the left pane. The Switch Connections screen shows a list of existing switch connections.

Locate the connection name associated with relevant Communication Manager, in this case *devcon*, and select the corresponding radio button. Click **Edit Signaling Details**.

AVAYA Applica	tion Enableme Management Con	Welcome: User Last login: Fri A Number of prior HostName/IP: d Server Offer Ty; SW Version: 10 Server Date and HA Status: Not	cust pr 14 09:18:50 2023 from 192.168.100.251 r failed login attempts: 0 fevcon-aes/10.64.102.119 pe: VIRTUAL_APPLIANCE_ON_VMWARE 1.0.2.0.12-0 d Time: Wed Apr 19 10:14:12 EDT 2023 Configured	
Communication Manager Interface	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
High Availability	evcon	Yes	30	1
▶ Licensing	Edit Connection Edit	PE/CLAN IPs Edit Signali	ing Details Del	lete Connection Survivability Hierarchy
▶ Maintenance				

The **Edit H.323 Gatekeeper** screen is displayed next. Enter the IP address of Processor Ethernet on Communication Manager to use as H.323 gatekeeper for registering the virtual IP softphones, in this case *10.64.102.115* as shown below. Click **Add Name or IP**.



6.5. Administer SSC Recorder User

Select User Management \rightarrow User Admin \rightarrow Add User from the left pane to display the Add User screen in the right pane.

Enter desired values for User Id, Common Name, Surname, User Password, and Confirm Password. For CT User, select Yes from the drop-down list. Retain the default value in the remaining fields.

Welcome: User cust

Application Enablement Services Management Console			Last login: Fri Apr 14 09:18:50 2023 from 192.168.100.251 Number of prior failed login attempts: 0 HostName/IP: devcon-aes/10.64.102.119 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.0.2.0.12-0 Server Date and Time: Wed Apr 19 10:15:57 EDT 2023 HA Status: Not Configured		
User Management User Admin A	dd User		Home Help Logout		
 > AE Services Communication Manager Interface High Availability Licensing Maintenance Networking Security Status User Management Service Admin 	Add User Fields marked with * can * User Id * Common Name * Surname * User Password * Confirm Password Admin Note Avaya Role Business Category	not be empty. atmos atmos atmos ••••••• ••••••• None			
 User Admin Add User Change User Password List All Users Modify Default Users Search Users Utilities Help 	Car License CM Home Css Home CT User Department Number Display Name Employee Number Employee Type	 [Yes ♥] [

6.6. Administer Security Database

Select Security \rightarrow Security Database \rightarrow Control from the left pane to display the SDB Control for DMCC, TSAPI, JTAPI and Telephony Web Services screen in the right pane. Make certain that both parameters are unchecked, as shown below.

In the case that the security database is used by the customer with parameters already enabled, then follow reference [2] to configure access privileges for the SSC Recorder user from **Section 6.5**.

Welcome: User cust

Application Enablement		Last login: Fri Apr 14 09:18:50 2023 from 192.168.100.251 Number of prior failed login attempts: 0 HostName/IP: devcon-aes/10.64.102.119 Server Offer Type: VIETIAL APPLIANCE ON VMWAPE		
-	Management Console	SW Version: 10.1.0.2.0.12-0 Server Date and Time: Wed Apr 19 10:16:31 EDT 2023 HA Status: Not Configured		
Security Security Database Cor	itrol	Home Help Logout		
 AE Services Communication Manager Interface 	SDB Control for DMCC, TSAPI, JTA	PI and Telephony Web Services		
High Availability	Enable SDB for DMCC Service			
► Licensing	Enable SDB for TSAPI Service, JTAPI and Telephony Web Services			
▶ Maintenance	Apply Changes			
Networking				
▼ Security				
Account Management				
> Audit				
Certificate Management				
Enterprise Directory				
Host AA				
▶ PAM				
Security Database				
Control				

6.7. Administer Ports

Select **Networking** \rightarrow **Ports** from the left pane, to display the **Ports** screen in the right pane.

In the **DMCC Server Ports** section, select the radio button for **Encrypted Port** under the **Enabled** column as shown below. Retain the default values in the remaining fields.



6.8. Restart Services

Select Maintenance \rightarrow Service Controller from the left pane to display the Service Controller screen in the right pane. Check DMCC Service and TSAPI Service and click Restart Service.



7. Configure Avaya Aura® Session Manager

This section covers the configuration of a SIP user on Session Manager so that Application Enablement Services can monitor the station. The SIP user is configured via the System Manager web interface. The procedure includes the following areas:

- Launch System Manager
- Administer SIP Users

7.1. Launch System Manager

Access the System Manager web interface by using the URL "https://*<ip-address>*" in a web browser window, where *<ip-address>* is the System Manager IP address. Log in using the appropriate credentials.

Recommended access to System Manager is via FQDN.	
Go to central login for Single Sign-On	User ID:
If IP address access is your only option, then note that authentication will fail in the following cases:	Password:
First time login with "admin" account Expired/Reset passwords	Log On Cancel
Use the "Change Password" hyperlink on this page to change the password manually, and then login.	Change Passwo
Also note that single sign-on between servers in the same security domain is not supported when accessing via IP address.	Supported Browsers: Firefox (minimum version 93.0), Chrome (minimum version 91.0) or Edge (minimum version 93.0).

7.2. Administer SIP Users

In the subsequent screen (not shown), select Users \rightarrow User Management from the top menu. Select User Management \rightarrow Manage Users (not shown) from the left pane to display the screen below.

Select the entry associated with the first SIP agent station from **Section 3**, in this case 78004, and click **Edit**.

AVAYA Aura® System Manager 10.1	Users 🗸 🍾	Elements 🗸 🔅 Ser	vices ~ Widgets	 ✓ Shortcuts ✓ 	Search	📄 🜲 🗮 🛛 admin	
Home User Management	r i i i i i i i i i i i i i i i i i i i						
User Management ^	Home / Use	ers & / Manage Users				Help?	
Manage Users	Manage Users Q						
Public Contacts	View	/ <u>/</u> Edit + №	lew 🕅 Duplicate	Delete More Act	ions 🗸	Options ~	
Shared Addresses		First Name 🖨 🍸	Surname 🖨 🍸	Display Name 🖨 🍸	Login Name 🖨 🍸	SIP Handle 🛛	
		SIP	78000	78000, SIP	78000@avaya.com	78000	
System Presence ACLs		SIP	78001	78001, SIP	78001@avaya.com	78001	
Communication Profile		SIP	78002	78002, SIP	78002@avaya.com	78002	
		SIP	78003	78003, SIP	78003@avaya.com	78003	
		Agent	78004	78004, Agent	78004@avaya.com	78004	

The User Profile | Edit screen is displayed. Select the Communication Profile tab, followed by CM Endpoint Profile to display the screen below.

Aura® Syste Home	em Manager 10.1 User Management		ices + windgets		Search	
User Mar	nagement ^	Home슯 / Users옷 / Manage Users				Help ?
Man	age Users	User Profile Edit 78004	@avaya.com	🖻 Commit 8	k Continue	mmit 🛞 Cancel
Publ	ic Contacts	Identity Communication Prof	ile Membership	Contacts		
Shar Syste	ed Addresses em Presence ACLs	Communication Profile Password PROFILE SET : Primary	* System :	devcon-cm v	* Profile Type :	Endpoint v
Com	munication Profile	Communication Address	Use Existing Endpoints :		* Extension :	78004 🖵 💆
		Session Manager Profile	Template :	Start typing Q	* Set Type :	J179CC
		CM Endpoint Profile	Security Code:	Enter Security Code	Port:	S000020 Q
			Voice Mail Number:		Preferred Handle :	Select ~
			Calculate Route		Sip Trunk :	aar

Navigate to the CM Endpoint Profile sub-section and click Editor as shown below.

Select the General Options tab. For Type of 3PCC Enabled, select Avaya as shown below.

Repeat this section for all SIP agent stations from **Section 5.4**. In the compliance test, eight SIP agent stations were configured.

System	devcon-cm		Extension	78004	
Template	Select	~	Set Type	J179CC	
Port	S000020		Security Code		
Name	78004, Agent				
General Options (G) * F	eature Options (F)	Site Data (S)	Abbreviated Call Dialing (A)	Enhanced Call Fwd (E)	
Button Assignment (B)	Profile Settings (P)	Group Membe	rship (M)		
* Class of Postriction (CO			* Class Of Service (COS)	1	
* Emergency Location Ex	t 78004		* Message Lamp Evt	78004	
* Tonant Number	1		Message Lamp LAL	78004	
	1			August 44	
* SIP Trunk	Qaar		Type of 3PCC Enabled	Avaya 🗸	
Coverage Path 1			Coverage Path 2		
Lock Message			Localized Display Name	78004, Agent	
Multibyte Language	Not Applicable	e 🔸	Enable Reachability for Station Domain Control	system 🗸	

8. Configure CallCabinet SSC Recorder

This section covers the configuration of CallCabinet SSC Recorder, which includes the SSC Recorder and RTP Recorder applications.

- Launch SSC Recorder Portal
- Obtain Customer ID and Site ID
- Configure SSC Recorder Application
- Configure RTP Recorder Application
- Install Trusted Certificate
- Start SSC Recorder Windows Services

The configuration of SSC Recorder is performed by CallCabinet personnel. The following configuration steps are presented for informational purposes only.

8.1. Launch SSC Recorder Portal

Access the SSC Recorder Portal by using the URL "https://<*company*>.*callcabinet.com*" in a web browser window, where <*company*> is the company URL. Log in using the appropriate credentials.

	Seallcabinet
	E-mail Address
Compliance to the Core	Password
	Forgot your password?
	Login
	Sign in G H O EN •
	Access is for authorized users only
	Want to learn more? Click here to visit our Website

8.2. Obtain Customer ID and Site ID

Navigate to Settings \rightarrow Site Management to retrieve the customer information, including the Customer ID and Site ID shown below. Click the icon to the right to copy the data to the clipboard. This information should be added to the RTP Recorder configuration covered in Section 8.4.

	SITE MANAGEMI	ENT			• 🕭
^ 3	CUSTOMER INFO	ORMATION			
S X	Customer Name: Customer ID:	Avaya Certification bc52e108-bfa4-4cc6-8e	0e-6b3019ad80f3 [Ē	
	ADD NEW SITE		ROSOFT TEAMS		
~L	SITE ID	T	SITE NAME	T	
₩	2f01a217-248a-4050-8	37a7-5e10035d5a53 📋	Morristown	Ć	⊘ ₪
≣ ©	1 .	▶ » 20 -		1 - 1 of 1 items	C
				Edit	columns

8.3. Configure SSC Recorder Application

The app.xml file for the SSC Recorder application, located in the CallCabinet\CallCabinetSSCRecorder\bin\ directory, should be modified with the following parameter settings:

(e.g.,
(e.g.,
or listed
swords
stances
or sw ista

The SSC Recorder app.xml file used for the compliance test is displayed on the next page.

```
▼<CallCabinet SSC>
  ▼<CM DETAILS>
     <SwitchNameOrIP>devcon</SwitchNameOrIP>
   </CM DETAILS>
  ▼<AES DETAILS>
     <ServerID>10.64.102.119</ServerID>
     <UserName>atmos</UserName>
     <Password>Atmos123!</Password>
     <DMCCPort>4722</DMCCPort>
     <AesProtocol>http://www.ecma-international.org/standards/ecma-323/csta/ed3/privD</AesProtocol>
   </AES_DETAILS>
  ▼<SRTP_ENCRYPTION>
     <IsEncryptionEnable>true</IsEncryptionEnable>
     <AesEncryptionProtocol>srtp-aescm128-hmac80</AesEncryptionProtocol>
     <MediaCodec>g711U</MediaCodec>
   </SRTP ENCRYPTION>
  ▼<RECORDERS>
     <CRE Index="0" Name="" IP="192.168.120.45" CREIP="127.0.0.1" Port="1701"/>
   </RECORDERS>
  v<EXTENSIONS>
     <Ext>77301</Ext>
     <Ext>78004</Ext>
      <Ext>77500</Ext>
   </EXTENSIONS>
  ▼<CRE CHANNELS>
     <CRE CHANNEL Channel="0" CRE="0" Port="45000"/>
      <CRE CHANNEL Channel="1" CRE="0" Port="45002"/>
     <CRE CHANNEL Channel="2" CRE="0" Port="45004"/>
      <CRE_CHANNEL Channel="3" CRE="0" Port="45006"/>
      <CRE CHANNEL Channel="4" CRE="0" Port="45008"/>
     <CRE CHANNEL Channel="5" CRE="0" Port="45010"/>
      <CRE_CHANNEL Channel="6" CRE="0" Port="45012"/>
      <CRE_CHANNEL Channel="7" CRE="0" Port="45014"/>
      <CRE_CHANNEL Channel="8" CRE="0" Port="45016"/>
     <CRE CHANNEL Channel="9" CRE="0" Port="45018"/>
     <CRE_CHANNEL Channel="10" CRE="0" Port="45020"/>
<CRE_CHANNEL Channel="11" CRE="0" Port="45022"/>
      <CRE_CHANNEL Channel="12" CRE="0" Port="45024"/>
      <CRE_CHANNEL Channel="13" CRE="0" Port="45026"/>
      <CRE_CHANNEL Channel="14" CRE="0" Port="45028"/>
      <CRE_CHANNEL Channel="15" CRE="0" Port="45030"/>
      <CRE CHANNEL Channel="16" CRE="0" Port="45032"/>
      <CRE_CHANNEL Channel="17" CRE="0" Port="45034"/>
      <CRE CHANNEL Channel="18" CRE="0" Port="45036"/>
     <CRE CHANNEL Channel="19" CRE="0" Port="45038"/>
      <CRE_CHANNEL Channel="20" CRE="0" Port="45040"/>
     <CRE_CHANNEL Channel="21" CRE="0" Port="45042"/>
<CRE_CHANNEL Channel="22" CRE="0" Port="45044"/>
     <CRE CHANNEL Channel="23" CRE="0" Port="45046"/>
     <CRE_CHANNEL Channel="24" CRE="0" Port="45048"/>
<CRE_CHANNEL Channel="25" CRE="0" Port="45050"/>
   </CRE CHANNELS>
  <SOFTPHONES>
      <SOFTPHONE Extension="77951" Password="1234" CRE CHANNEL="0" DeviceInstance="0"/>
     <SOFTPHONE Extension="77951" Password="1234" CRE_CHANNEL="1" DeviceInstance="1"/>
     <SOFTPHONE Extension="77952" Password="1234" CRE_CHANNEL="2" DeviceInstance="0"/>
     <SOFTPHONE Extension="77952" Password="1234" CRE_CHANNEL="3" DeviceInstance="1"/>
<SOFTPHONE Extension="77953" Password="1234" CRE_CHANNEL="4" DeviceInstance="0"/>
     <SOFTPHONE Extension="77953" Password="1234" CRE CHANNEL="5" DeviceInstance="1"/>
     <SOFTPHONE Extension="77954" Password="1234" CRE_CHANNEL="6" DeviceInstance="0"/>
<SOFTPHONE Extension="77954" Password="1234" CRE_CHANNEL="7" DeviceInstance="1"/>
     <SOFTPHONE Extension="77955" Password="1234" CRE CHANNEL="8" DeviceInstance="0"/>
     <SOFTPHONE Extension="77955" Password="1234" CRE_CHANNEL="9" DeviceInstance="1"/>
     <SOFTPHONE Extension="77956" Password="1234" CRE_CHANNEL="10" DeviceInstance="0"/>
<SOFTPHONE Extension="77956" Password="1234" CRE_CHANNEL="11" DeviceInstance="1"/>
     <SOFTPHONE Extension="77957" Password="1234" CRE CHANNEL="12" DeviceInstance="0"/>
     <SOFTPHONE Extension="77957" Password="1234" CRE_CHANNEL="13" DeviceInstance="1"/>
<SOFTPHONE Extension="77958" Password="1234" CRE_CHANNEL="14" DeviceInstance="0"/>
     <SOFTPHONE Extension="77958" Password="1234" CRE_CHANNEL="15" DeviceInstance="1"/>
   </SOFTPHONES>
 </CallCabinet SSC>
```

```
JAO; Reviewed:
SPOC 6/3/2023
```

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8.4. Configure RTP Recorder Application

The app.xml file for the RTP Recorder application, located in the CallCabinet\CallCabinetRTPRecorder\bin\ directory, should be modified with the following parameter settings:

AudioFileFormat:	Specify STEREO for stereo call recording. MONO for mono call
	recording is also supported.
ClientID:	Set to Customer ID from Section 8.2.
SiteID:	Set to Site ID from Section 8.2.
RecordingCallDirection:	Set to <i>B</i> for recording audio in both directions.

The RTP Recorder app.xml file used for the compliance test is displayed below.

```
▼<CallCabinetConfig>
  ▼<app>
     <AudiofileFormat>STEREO</AudiofileFormat>
     <StoragePath>C:\CallCabinet\CallCabinetRTPRecorder\temp\</StoragePath>
     <NetworkAdapter>\Device\NPF_{8099E182-4C6A-4153-9CF8-8D17FBD78F49}</NetworkAdapter>
     <Port>1701</Port>
     <AudioRepository>C:\CallCabinet\CallCabinetRTPRecorder\from\</AudioRepository>
     <ReprocessDirPath>C:\CallCabinet\CallCabinetRTPRecorder\Reprocess\</ReprocessDirPath>
     <ReprocessIntervalInMinute>10</ReprocessIntervalInMinute>
     <CustomizationType>0</CustomizationType>
     <!-- For Certification -->
     <ClientID>bc52e108-bfa4-4cc6-8e0e-6b3019ad80f3</ClientID>
     <SiteID>2f01a217-248a-4050-87a7-5e10035d5a53</SiteID>
     <RecordingCallDirection>B</RecordingCallDirection>
     <Sftp_Upload>false</Sftp_Upload>
     <Sftp Ip>
                                         </Sftp Ip>
     <Sftp_Port>22</Sftp_Port>
     <Sftp UserName>
                                                            </Sftp UserName>
     <Sftp Password>
                                                               </Sftp Password>
   </app>
 </CallCabinetConfig>
```

8.5. Install Trusted Certificate

For encrypted DMCC link and SRTP support, install the trusted CA certificate used by Application Enablement Services and agent IP stations on the SSC Recorder windows server using Microsoft Management Console (MMC). Avaya Aura® System Manager was used as the certificate authority.

8.6. Start SSC Recorder Windows Services

Verify that the following SSC Recorder services, CallCabinet_SSC_Recorder and CallCabinet_RTP_Recorder, have been started in Windows Services as shown below.

	🔒 🛛 📷 🕨 🗉 🖬 🕨						CallCabinet_SSC_R	ecorder Properties (Local Computer)
res (Local)	0.0.1.0.0						General Log On	Recovery Dependencies
Les (Local)	Services (Local)	^	1		1	1	Service name:	CallCabinet SSC Recorder
	CallCabinet_RTP_Recorder	Name	Description	Status	Startup Type	Log On As		
	Stop the convice	AppX Deployment Service (Provides inf	Running	Manual (Trig	Local Syste	Display name:	CallCabinet_SSC_Recorder
	Restart the service	AspSelfHost			Manual	Local Syste	Description:	^
		AssignedAccessManager Se	AssignedAc		Manual (Trig	Local Syste		\checkmark
		🐏 Atmos Avaya SSC			Disabled	Local Syste	Path to every table	2 '
		AtmosSiprecProcessor			Manual	Local Syste	"C:\CallCabinet\C	allCabinetSSCRecorder\bin\CallCabinetSSCRecorder.exe
		🔍 Auto Time Zone Updater	Automatical		Disabled	Local Service		
		Avaya Quality of Service (Q	Monitoring	Running	Automatic	Local Syste	Startup type:	Automatic ~
		AVCTP service	This is Audi	Running	Manual (Trig	Local Service		
		Azure Network Watcher Ag		Running	Automatic	Local Syste		
		🐏 Background Intelligent Tran	Transfers file		Manual	Local Syste	Service status:	Bunning
		Background Tasks Infrastruc	Windows in	Running	Automatic	Local Syste		
		🎑 Base Filtering Engine	The Base Filt	Running	Automatic	Local Service	<u>S</u> tart	Stop <u>P</u> ause <u>R</u> esume
		BitLocker Drive Encryption	BDESVC hos		Manual (Trig	Local Syste	CallCabinet RTP	Recorder Properties (Local Computer)
		🧠 Block Level Backup Engine	The WBENG		Manual	Local Syste	Calicabiliet_KIP	_Recorder Properties (cocar computer)
		🎑 Bluetooth Audio Gateway S	Service sup		Manual (Trig	Local Service	General Log Or	Recovery Dependencies
		🧠 Bluetooth Support Service	The Bluetoo		Manual (Trig	Local Service		
		🧠 Bluetooth User Support Ser	The Bluetoo		Manual (Trig	Local Syste	Service name:	CallCabinet_RTP_Recorder
		🍓 BranchCache	This service		Manual	Network S	Display name:	CallCabinet RTP Recorder
		🍓 CallCabinet Atmos RTP Call			Disabled	Local Syste		
		💁 CallCabinet_RTP_Recorder		Running	Automatic	Local Syste	Description:	· · · · · · · · · · · · · · · · · · ·
		🍓 CallCabinet_SSC_Recorder		Running	Automatic	Local Syste		~
		🍓 Capability Access Manager	Provides fac	Running	Manual	Local Syste	Path to executa	able:
		CaptureService_38f659	Enables opti	Running	Manual	Local Syste	"C:\CallCabinet	\CallCabinetRTPRecorder\bin\CallCabinetRTPRecorder.e>
		🍓 Cellular Time	This service		Manual (Trig	Local Service	Startup type:	Automatio
		🆏 Certificate Propagation	Copies user	Running	Manual (Trig	Local Syste	Startap type.	Automatic
		🆏 Client License Service (ClipS	Provides inf		Manual (Trig	Local Syste		
		🆏 Clipboard User Service_38f6	This user ser	Running	Manual	Local Syste		
		🆏 CNG Key Isolation	The CNG ke	Running	Manual (Trig	Local Syste	Service status:	Running
		🆏 COM+ Event System	Supports Sy	Running	Automatic	Local Service	Chard	Barran Barran
	Extended Standard						Start	Stop Pause Resume
							You can specify	y the start parameters that apply when you start the service

9. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Communication Manager, Application Enablement Services, and SSC Recorder.

9.1. Verify Avaya Aura® Communication Manager

On Communication Manager, verify status of the administered CTI link by using the **status aesvcs cti-link** command. Verify that the **Service State** is *established* for the CTI link number administered in **Section 5.2** as shown below.

statu	s aesvcs	cti-li	nk			
			AE SERVICES	CTI LINK STAT	US	
CTI Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Rcvd
1	12	no	devcon-aes	established	895	370

Verify registration status of the virtual IP softphones by using the **list registered-ip-stations** command. Verify that all virtual IP softphones from **Section 5.4** are displayed along with the IP address of the Application Enablement Services server as shown below. Note that for stereo call recording two instances of each virtual IP softphone are registered.

list registered-ip-stations ext 77951 count 8 Page 1						
		REGISTERED) IP STATIONS			
Station Ext	Set Type/	Prod ID/	Station IP Address/			
or Orig Port	Net Rgn	Release	Gatekeeper IP Address			
Socket						
77951	9608	IP_API_A	10.64.102.119			
tcp	1	3.2040	10.64.102.115			
77951	9608	IP_API_A	10.64.102.119			
tcp	1	3.2040	10.64.102.115			
77952	9608	IP_API_A	10.64.102.119			
tcp	1	3.2040	10.64.102.115			
77952	9608	IP_API_A	10.64.102.119			
tcp	1	3.2040	10.64.102.115			
77953	9608	IP_API_A	10.64.102.119			
tcp	1	3.2040	10.64.102.115			
77953	9608	IP_API_A	10.64.102.119			
tcp	1	3.2040	10.64.102.115			
77954	9608	IP API A	10.64.102.119			
tcp	1	3.2040	10.64.102.115			
77954	9608	IP API A	10.64.102.119			
tcp	1	3.2040	10.64.102.115			

list registered-ip-stations ext 77951 count 8 REGISTERED IP STATIONS

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Station Ext	Set Type/	Prod ID/	Station IP Address/
or Orig Port	Net Rgn	Release	Gatekeeper IP Address
Socket			
77955	9608	IP API A	10.64.102.119
tcp	1	3.2040	10.64.102.115
77955	9608	IP API A	10.64.102.119
tcp	1	3.2040	10.64.102.115
77956	9608	IP API A	10.64.102.119
tcp	1	3.2040	10.64.102.115
77956	9608	IP API A	10.64.102.119
tcp	1	3.2040	10.64.102.115
77957	9608	IP API A	10.64.102.119
tcp	1	3.2040	10.64.102.115
77957	9608	IP API A	10.64.102.119
tcp	1	3.2040	10.64.102.115
77958	9608	IP API A	10.64.102.119
tcp	1	3.2040	10.64.102.115
77958	9608	IP API A	10.64.102.119
tcp	1	3.2040	10.64.102.115

Establish a call with a monitored station and verify the status of the virtual IP softphone using the **status station** command. Verify that the **Service State** is *in-service/off-hook* on **Page 1**.

status station 77955		Page 1 of 10
G	ENERAL STATUS	
Administered Type: 9608	Service State:	in-service/off-hook
Connected Type: N/A	Signal Status:	connected
Extension: 77955	Network Region:	1
Port: S000062	Parameter Download:	pending
Call Parked? no	SAC Activated?	no
Ring Cut Off Act? no		
Active Coverage Option: 1		
EC500 Status: N/A		
Message Waiting:		
Connected Ports: S000207	S000058 T000062	
Limit Incoming Calls? no		
User Cntrl Restr: none		
Group Cntrl Restr: none		
CTI Monitoring Active? Yes		

On Page 5, verify that the codec used is G.711 as shown below.

status station 77955 5 of 10 Page AUDIO CHANNEL Port: S000062 G.711MU Switch-End Audio Location: AMS1 IP Address Port Node Name Rgn 6138 devcon-ams Other-End: 10.64.102.118 1 Set-End: 192.168.120.30 45016 1 Audio Connection Type: ip-tdm AUDIO CHANNEL Shared Port: S000207 G.711MU Switch-End Audio Location: AMS1 IP Address Port Node Name Rgn Other-End: 10.64.102.118 6140 devcon-ams 1 Set-End: 10.64.102.119 45018 devcon-aes 1 Audio Connection Type: ip-tdm Switch-End Audio Location:

On Page 7 and subsequent pages (not shown), verify that SRTP is used as shown below.

 status station 77955
 Page 7 of 10

 SRC PORT TO DEST PORT TALKPATH

 src port: \$000062

 \$000062:TX:192.168.120.30:45016/g711u/20ms/1-srtp-aescm128-hmac80

 AMS1:RX:10.64.102.118:6138/g711u/20ms/1-srtp-aescm128-h:TX:cnfID:1f00001000006e

 AMS1:RX:cnfID:1f00001000006e:TX:10.64.102.118:6140/g711u/20ms/1-srtp-aescm128-h

 \$000207:RX:192.168.120.30:45018/g711u/20ms/1-srtp-aescm128-hmac80

Terminate the call and verify that the **Service State** of the virtual IP softphone returns to *inservice/on-hook*. Call recordings are verified in **Section 9.3**.

9.2. Verify Avaya Aura® Application Enablement Services

On Application Enablement Services, verify status of the DMCC service by selecting Status \rightarrow Status and Control \rightarrow DMCC Service Summary from the left pane. The DMCC Service Summary – Session Summary screen is displayed.

Verify that the **User** column shows an active session with the SSC Recorder username from **Section 6.5**, that the **Connection Type** is encrypted, and that the number **# of Associated Devices** reflects the number of virtual IP softphones. For stereo call recording, two device instances per virtual IP softphone is used so the **# of Associated Devices** is *16*.



Click on the **Session ID** in the screen on previous page to display the devices associated with the session.

DMCC Service Summary - Session Detail

Enable page refresh every 60 V seconds

Detailed Session View Generated on Thu Apr 27 13:13:27 EDT 2023							
Session ID:	D83D94A7FAA8D23A2AD57D802E56FD42-44						
State:	Active						
Time Established:	Thu, Apr 27, 2023 10:32:13 AM GMT-05:00						
Uptime:	0 days, 2 hours, 41 minutes, and 13 seconds						
Cleanup Delay Timer:	5 seconds						
Session Duration Timer:	180 seconds						
Time of Most Recent Timer Reset:	Thu, Apr 27, 2023 01:13:22 PM EDT						
Reconnect Counter:	0						
Terminate Sessions							

Devices Associated with Session

	Device ID	State					
	77953:devcon:0.0.0:1	REGISTERED					
	77953:devcon:0.0.0:0	REGISTERED					
	77958:devcon:0.0.0:0	REGISTERED					
	77958:devcon:0.0.0:1	REGISTERED					
	77955:devcon:0.0.0:1	REGISTERED					
	77955:devcon:0.0.0.0:0	REGISTERED					
	77956:devcon:0.0.0:0	REGISTERED					
	77952:devcon:0.0.0:0	REGISTERED					
	77954:devcon:0.0.0.0:0	REGISTERED					
	77957:devcon:0.0.0.0:0	REGISTERED					
	77952:devcon:0.0.0:1	REGISTERED					
	77957:devcon:0.0.0:1	REGISTERED					
	77954:devcon:0.0.0:1	REGISTERED					
	77956:devcon:0.0.0:1	REGISTERED					
	77951:devcon:0.0.0:1	REGISTERED					
	77951:devcon:0.0.0.0:0	REGISTERED					
Terminate Selected Devices Back							

Verify status of the TSAPI service by selecting Status \rightarrow Status and Control \rightarrow TSAPI Service Summary from the left pane. The TSAPI Link Details screen is displayed.

Verify that the Status is Talking for the TSAPI link administered in Section 6.3, and that the Associations column reflects the total number of monitored skill groups and agent stations from Section 3, in this case 3.



- Switch Conn Summary
- TSAPI Service Summary

9.3. Verify CallCabinet SSC Recorder

Log in an agent to handle and complete an ACD call. Access the SSC Recorder Portal as described in **Section 8.1** and log in using the appropriate credentials. Navigate to **Call Listing** to view a listing of call recordings. Verify that there is an entry for the last call with proper values in the relevant fields as shown below. Verify that the recording can be played back.

	CALL LISTIN	IG			💮 My Tin	ne Zone 🔻	▼ Avaya Certi	fication -
ŝ	>	00:00	i	> $\stackrel{\circ}{=}_{=}^{-}$ Add Filter	Date Range: Last	7 Days 🥖	APPLY Need He	p Searching?
Ċ			Ţ	_				
K.		START TIME	C	DURATION	EXTENSION	AGENT	QUEUE ID	NUMBER
		04/26/2023 10:20 AM	C	0:24	78004	76302	77500	77301
~L		04/26/2023 10:20 AM	Ç	0:24	77301	76301	77500	78004
<u>t</u>		04/26/2023 10:20 AM	Ç	0:11	78004	76302	77500	17324441001
Ē		04/26/2023 10:21 AM	Ç	7:03	77301	76301	77500	17324441001
≡ ∽		04/26/2023 10:30 AM	C	0:06	77301	76301	77500	78002
£03	•							
~~°	1		Ŧ				1 -	5 of 5 items C
L→	1 D	🛤 < 🖂 🔌						Edit columns

10. Conclusion

These Application Notes describe the configuration steps required to integrate CallCabinet SSC Recorder with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services using Single Step Conference. Stereo call recordings were logged and played back successfully. All feature and serviceability test cases were completed successfully with observations noted in **Section 2.2**.

11. Additional References

This section references the Avaya and CallCabinet documentation relevant to these Application Notes.

- [1] *Administering Avaya Aura*® *Communication Manager*, Release 10.1.x, Issue 2, September 2022, available at <u>http://support.avaya.com</u>.
- [2] *Administering Avaya Aura*® *Application Enablement Services*, Release 10.1.x, Issue 5, September 2022, available at <u>http://support.avaya.com</u>.
- [3] *Administering Avaya Aura*® *Session Manager*, Release 10.1.x, Issue 4, September 2022, available at <u>http://support.avaya.com</u>.
- [4] Avaya Aura® AE Services Device, Media, and Call Control .NET API Programmer's Guide, Release 8.x – 10.x, Aug 2022.
- [5] CallCabinet Atmos User Guide, available at https://www.callcabinet.com/atmos-user-guide/.

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