

Avaya Solution & Interoperability Test Lab

Application Notes for Red Box Quantify 6C with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services 10.1 using DMCC Multiple Registration – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Red Box Quantify 6C with Avaya Aura® Communication Manager 10.1 and Avaya Aura® Application Enablement Services 10.1. Red Box Quantify 6C is a voice recording solution which can be used to record voice streams for Avaya telephony using Multiple Registration method.

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 at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe the configuration steps required for Red Box Quantify 6C to interoperate with Avaya Aura® Communication Manager 10.1 and Avaya Aura® Application Enablement Services 10.1 using the Multiple Device Registration recording method.

Red Box Quantify 6C is a voice recording system which can be used to record the voice stream of Avaya telephony endpoints. In this compliance test, it uses Avaya Aura® Communication Manager's Multiple Device Registration feature via Avaya Aura® Application Enablement Services (AES) Device, Media, and Call Control (DMCC) interface to capture the audio and call details for call recording. The application uses the Avaya Aura® Application Enablement Services DMCC service to register the extensions that are to be recorded. When the extension receives an event pertaining to the start of a call, the application receives the extensions RTP media stream.

2. General Test Approach and Test Results

The feature test cases were performed manually. Platform to carry out call recording in a variety of scenarios using DMCC Multiple Registration.

For the manual part of the testing, each call was handled manually on the extension telephone with generation of unique audio content for the recordings. Necessary user actions such as hold and reconnect were performed from the agent telephones to test the different call scenarios.

The serviceability test cases were performed manually by disconnecting/reconnecting the Ethernet connection to Red Box Quantify 6C.

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 this Application Notes, the interface between Avaya systems and Red Box Quantify 6C utilized enabled capabilities of secure DMCC interface.

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/Outbound calls** Test call recording for inbound and outbound calls to the Communication Manager to and from PSTN callers.
- Hold/Transferred/Conference calls Test call recording for calls transferred to and in conference with PSTN callers.
- **Feature calls** Test call recording for calls that are parked or picked up using Call Park, Call Pickup, Bridged Appearance and Service Observing.
- **Calls to Elite Agents** Test call recording for calls to Communication Manager agents logged into Avaya Agent for Desktop.
- **Serviceability testing** The behavior of Red Box Quantify 6C under different simulated failure conditions.

2.2. Test Results

All test cases were executed and verified successfully.

2.3. Support

Technical support on Red Box Quantify 6C can be obtained through the following:

- Phone: +44 (0) 115 9377100
- Email: support@redboxrecorders.com
- Web : www.redboxrecorders.com

3. Reference Configuration

Red Box Quantify 6C can be configured on a single server or with components distributed across multiple servers. The compliance test used a single server configuration.



Figure 1: Compliance Testing Configuration

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® System Manager in Virtual Environment	10.1.0.0.537353
Avaya Aura® Session Manager in Virtual Environment	10.1.0.1.1010105
Avaya Aura® Communication Manager in Virtual Environment	10.1.0.1 SP1 Build 01.0.974.0-27372
Avaya G450 Media Gateway	41.34.1
Avaya Aura® Media Server in Virtual Environment	10.1.0.77
Avaya Aura® Application Enablement Services in Virtual Environment	10.1.0.1.0.7
Avaya Session Border Controller for Enterprise in Virtual Environment	10.1
Avaya Workplace Client for Windows	3.25.0.73
Avaya J179 IP Phone (SIP)	4.0.12.1
Avaya J159 IP Deskphone (H.323)	6.8.5
Red Box Quantify on Windows Server 2016	6C

5. Configure Avaya Aura® Communication Manager

The detailed administration of basic connectivity between Communication Manager and Application Enablement Services, and of contact center devices are not the focus of these Application Notes and will not be described. This section provides the procedures for configuring Communication Manager. The procedures include the following areas:

- Administer CTI link
- Configure H.323 Stations for Multi-Registration
- Configure SIP Stations for Multiple Registration

5.1. Administer CTI Link

Add a CTI link using the **add cti-link n** command, where **n** is an available CTI link number. 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: 79999
Type: ADJ-IP
COR: 1
Name: aes155
```

5.2. Configure H.323 Stations for Multi-Registration

All endpoints that are to be monitored by Red Box will need to have IP Softphone set to y. IP Softphone must be enabled in order for Multi-Registration to work. Type **change station x** where **x** is the extension number of the station to be monitored. Also, note this extension number for configuration required during the Red Box setup in **Section 7**. Note the Security Code and ensure that **IP Softphone** is set to **y**.

```
change station 70010
                                                                                  5
                                                                   Page 1 of
                                       STATION
Extension: 70010
                                                                          BCC: 0
                                        Security Code: 111222
Coverage Path 1:
Coverage Path 2:
                                           Lock Messages? n
     Type: 9641
                                                                            TN: 1
     Port: S000004
                                                                           COR: 1
     Name: H323 Ext1
                                                                           COS: 1
                                         Hunt-to Station:
                                                                         Tests: y
STATION OPTIONS
                                             Time of Day Lock Table:
              Loss Group: 19
                                    Personalized Ringing Pattern: 1
       Speakerphone: 2-way
Display Language: english
able GK Node Name:
                                                  Message Lamp Ext: 70010
                                              Mute Button Enabled? y
                                                  Button Modules: 0
Survivable GK Node Name:
          Survivable COR: internal
                                                 Media Complex Ext:
  Survivable Trunk Dest? y
                                                       IP SoftPhone? y
                                                 IP Video Softphone? n
                               Short/Prefixed Registration Allowed: default
                                                Customizable Labels? Y
```

In the compliance testing, two H323 extensions were administered : 70010 and 70011

5.3. Configure SIP Stations for Multiple Registration

Each Avaya SIP endpoint or station that needs to be monitored for call recording will need to have **Type of 3PCC Enabled** is set to **Avaya** and **IP Softphone** set to **Yes**. Changes to SIP phones on Communication Manager by enter command **change station x** where **x** is the extension number of the station.

```
change station 70000
                                                                Page 1 of
                                                                              6
                                    STATION
Extension: 70000
                                        Lock Messages? n
Security Code: 111222
                                        Lock Messages? n
                                                                      BCC: 0
    Type: J179
                                                                       TN: 1
    Port: S000010
                                      Coverage Path 1:
                                                                      COR: 1
                                      Coverage Path 2:
Hunt-to Station:
                                                                     COS: 1
    Name: SIP Ext1
                                                                    Tests: y
STATION OPTIONS
                                          Time of Day Lock Table:
             Loss Group: 19 Personalized Ringing Pattern: 1
                                                Message Lamp Ext: 70000
       Speakerphone: 2-way
Display Language: english
                                            Mute Button Enabled? y
                                               Button Modules: 0
Survivable GK Node Name:
        Survivable COR: internal
                                               Media Complex Ext:
  Survivable Trunk Dest? y
                                                    IP SoftPhone? y
                                              IP Video Softphone? n
                             Short/Prefixed Registration Allowed: default
                                              Customizable Labels? Y
```

Go to Page 6.

change station 70000 Page 6 of 6 STATION SIP FEATURE OPTIONS Type of 3PCC Enabled: Avaya SIP Trunk: aar Enable Reachability for Station Domain Control: s SIP URI: 70000@aura.com Primary Session Manager IPv4 Address: 10.128.224.18 IPv6 Address: IPv4 Node Name: smsip18 IPv6 Node Name: Secondary Session Manager IPv4 Address: IPv6 Address: IPv4 Node Name: IPv6 Node Name: Third Session Manager IPv4 Address: IPv6 Address: IPv4 Node Name: IPv6 Node Name: Fourth Session Manager IPv4 Address: IPv6 Address: IPv4 Node Name: IPv6 Node Name:

In the compliance testing, two H323 extensions were administered : 70000 and 70001

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 redbox user
- Enable CTI User
- Administer security database
- 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 the Application Enablement Services server.

The Please login here screen is displayed. Log in using the appropriate credentials.

avaya	Application Enablement Services Management Console	
	Please login here: Username Continue	Help
	Copyright © 2009-2022 Avaya Inc. All Rights Reserved.	

The Welcome to OAM screen is displayed next.



6.2. Verify License

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



Select Licensed products \rightarrow APPL_ENAB \rightarrow Application_Enablement in the left pane, to display the Licensed Features screen in the right pane.

AVAYA Aura® System Manage	er 10.1	ers 🗸 🎤 Elements 🗸 🔅 Services 🖞	v Widgets v Shortcuts v			Search					
Home Licens	es										
Licenses	^	WebLM Home	Application Enablement (CTI) - R	elease: 10 - SI	(D: 10503000	Standard					
		Install license									
		Licensed products	You are nere: Licensed Products > Application_Enablement > View License Capacity								
		APPL_ENAB	License installed on: August 15, 2022	1:54:38 PM +0	07:00						
		 Application_Enablement 									
	View license capacity	License File Host IDs: VC-D4-B4-	AD-C9-9F-01								
	View peak usage										
	ASBCE	Licensed Features									
	Session_Border_Controller_E_AE										
		Avaya_Aura_Web_Gateway	14 Items 👌 Show All 🗸								
		Avaya_Aura_Web_Gateway	Feature (License Keyword)	Expiration date	Licensed capacity						
	CCTR	Device Media and Call Control VALUE_AES_DMCC_DMC	permanent	5000							
	▶ContactCenter	AES ADVANCED LARGE SWITCH	permanent	5000							
		Configure Centralized Licensing	VALUE_AES_AEC_LARGE_ADVANCED								
		CE	VALUE_AES_HA_LARGE	permanent	5000						
		► COLLABORATION_ENVIRONMENT	AES ADVANCED AGENT	permanent	5000						
		COMMUNICATION_MANAGER	AES ADVANCED MEDIUM SWITCH								
		► Call_Center	VALUE_AES_AEC_MEDIUM_ADVANCED	permanent	5000						
		▶Communication_Manager	Unified CC API Desktop Edition VALUE_AES_AEC_UNIFIED_CC_DESKTOP	permanent	5000						
		DEVICE_SERVICES	CVLAN ASAI	permanent	5000						
		Device_Services	VALUE_AES_CVLAN_ASAI								
		MSR	VALUE_AES_HA_MEDIUM	permanent	5000						
		▶Media_Server	AES ADVANCED SMALL SWITCH	permanent	5000						
		OL	DLG								
		►OL	VALUE_AES_DLG	permanent	5000						
<		<	<	<			PRESENCE_SERVICES	TSAPI Simultaneous Users VALUE_AES_TSAPI_USERS	permanent	5000	
					▶Presence_Services	CVLAN Proprietary Links	permanent	5000			
		SYSTEM_MANAGER	VALUE_AES_PROPRIETARY_LINKS	permanent	CreallConserTunner						
					- SmallSan/arti/hae	1					

Verify that there are sufficient licenses for **Device Media and Call Control**, as shown below.

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**.

			HA Statu:	s: Not Configured	
AE Services TSAPI TSAPI Links				Hor	ne Help Logout
* AE Services					
> CVLAN	TSAPI Links				
> DLG	Link	Switch Connection	Switch CTI Link #	ASAI Link Version	Security
> DMCC	Add Link E	dit Link Delete Link			
> SMS	(NOU CITIC) C	UNCONK DEPENDENC			
* TSAPI					
 TSAPI Links 					
 TSAPI Properties 					
> TWS					
Communication Manager					

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 **CM145** is selected. For **Switch CTI Link Number**, select the CTI link number from **Section 5.1**. Retain the default values in the remaining fields.

Αναγα	Application Enablement Services Management Console	Welcome: User cust Last login: Tue Aug 23 16:66:09 2022 from 172.16.8.167 Number of prior failed login attempts: 0 HostName/IP: aes155.aura.com/10.128.226.155 Server Offer Type: VIRTUAL_APPLANCE_ON_VMWARE SW Version: 10.10.10.7-0 Server Date and Time: Fri Oct 21 17:15:53 ICT 2022 HA Status: Not Configured
AE Services TSAPI TSAPI Lin	ks	Home Help Logout
▼ AE Services	Edit TSAPI Links	
▷ DLG ▷ DMCC	Link 1 Switch Connection CM145 V	
► SMS ▼TSAPI	Switch CTI Link Number 1 v ASAI Link Version 12 v	
 TSAPI Links TSAPI Properties TWS 	Security Both Apply Changes Cancel Changes Advanced Settings	

6.4. Administer Redbox 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.

	cation Enable Management	Welcome: User cust Last login: Tue Aug 23 16:06:09 2022 from 172.16.8.167 Number of prior failed login attempts: 0 HostName/IP: aes155.aura.com/10.128.226.155 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.0.1.0.7-0 Server Date and Time: Tue Sep 20 15:17:40 ICT 2022 HA Status: Not Configured	
User Management User Admin Ad	ld User		Home Help Logout
 AE Services Communication Manager Interface 	Add User		
High Availability	Fields marked with * can	not be empty.	
▶ Licensing	* User Id * Common Name	redbox	
> Maintenance	* Surname	redbox	
> Networking	* User Password	•••••	
> Security	* Confirm Password		
→ Status	Admin Note		
▼ User Management	Avaya Role	None 🗸	
Service Admin	Business Category		
▼ User Admin	Car License		
 Add User 	CM Home		
 Change User Password 	Css Home		
List All Users	CT User	Yes 🗸	
Modify Default Users	Department Number		
Search Users	Display Name		
• oundes	Employee Number		
→ Help	Employee Type		

6.5. Enable CTI User

Navigate to the CTI Users screen by selecting Security \rightarrow Security Database \rightarrow CTI Users \rightarrow List All Users. In the CTI Users window, select the user that was set up in Section 6.4 and select the Edit option.

Security Security Database CTI	Application Enablement Services Management Console		Wercome: User of Last login: Tue A Number of prior 1 HostName/IP: ae Server Offer Typo SW Version: 10.1 Server Date HA Status: Not C	UST ug 22 16:06:09 2022 from 172.16.8.167 ailed login attempts: 0 s155.aura.com/10.128.226.155 :: VIRTUAL_APPLIANCE_ON_VMWARE .0.10.7-0 Time: Tue Sep 27 14:48:50 ICT 2022 onfigured Home Help Logout
 AE Services Communication Manager Interface 	CTI Users			
High Availability	<u>User ID</u>	Common Name	Worktop Name	Device ID
Licensing	redbox	redbox	NONE	NONE
Maintenance	O sestek	sestek	NONE	NONE
Networking	Gestek			
▼ Security	🔾 tma	tma	NONE	NONE
Account Management	Edit List All			
Audit				
Certificate Management				
Enterprise Directory				
> Host AA				
▶ PAM				
Security Database				
Control				
CTI Users				
 List All Users 				

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

Edit CTI User		
User Profile:	User ID	redbox
	Common Name	redbox
	Worktop Name	NONE 🗸
	Unrestricted Access	
Call and Device Control:	Call Origination/Termination and Device Status	None 🗸
Call and Device Monitoring:	Device Monitoring	None 🗸
	Calls On A Device Monitoring	None 🗸
	Call Monitoring	
Routing Control:	Allow Routing on Listed Devices	None 🗸
Apply Changes Cancel Changes		

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. Uncheck both fields below.

In the event that the security database is used by the customer with parameters already enabled, then follow reference [4] to configure access privileges for the redbox user from **Section 6.4**.

avaya	Application Enablement Services Management Console	Welcome: User cust Last login: Tue Aug 23 15:06:09 2022 from 172.16.8.167 Number of prior failed login attempts: 0 HostName/IP: aes155.aura.com/10.128.226.155 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.0.10.7-0 Server Date and Time: Fri Oct 21 17:16:55 ICT 2022 HA Status: Not Configured
Security Security Database Cont	rol	Home Help Logout
 AE Services Communication Manager Interface High Availability Licensing Maintenance 	SDB Control for DMCC, TSAPI, JTAPI and Telephony Web Services Enable SDB for DMCC Service Enable SDB for TSAPI Service, JTAPI and Telephony Web Services Apply Changes	
▶ Networking ▼ Security		
 Account Management 		
▶ Audit		
› Certificate Management		
Enterprise Directory		
▶ Host AA		
▶ PAM		
▼ Security Database		
Control		
CTI Users		

6.7. Restart Services

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



7. Configure Red Box Quantify 6C

This section provides the procedures for configuring Red Box Quantify 6C. The procedures include the following areas:

- Administer register devices
- Administer CTI server
- Administer recording channels

The configuration of Red Box Quantify 6C is performed by Red Box installation engineers. The procedural steps are presented in these Application Notes for informational purposes.

7.1. Administer Register Devices

Access the Red Box Quantify 6C web-based interface by using the URL "http://ip-address"in an Internet browser window, where **ip-address** is the IP address of the Red Box Quantify 6C server. Log in using the appropriate credentials.

√ ∧ Red Box		Copyright (C) Red Box Voice
Quantify. The easiest, most capable voice recording sur Username Password Login	ite.	

The screen below is displayed. Click on the **Configuration** icon.



The screen below is displayed next. Select **Setup** \rightarrow **Register Devices**.

√ ∧ Red Box								Options 🔻 🛛 Logout
Management Status Setup	Events Maintena	ance All						
Active Directory	Apache	Archiving	Callstore	Licensing	Misc Settings	Network	Register Devices	Resiliency
		The second secon		Notification by some set of the s				
SNMP	Services	Time	User Options	Voice Activity Detection				

The **Register Devices**.screen is displayed. Select **Device Type** as **Avaya Aura (Active)** and then in **Device Options** select **Recording Method** as **Multiple Registration**

∕∕- Red Box	
Management Status Setup Events Maintenanc	e All
	Device Type
	Avaya Aura (Active)
	Device Options
	Recording Method Multiple Registration
	Enable Warning Tones

Then add devices to register using Add a Single Device or Add a Range of Devices. After selecting all devices, click **Register**.

	Add a Single Device Extension 70011 Add						
	Add a Range of Devi	ces					
Firs	st Last rension Extension						
	Add						
	Devices to be Registe	ered					
Device	Туре	State					
70000	Avaya Aura (Active)	New					
70001	Avaya Aura (Active)	New					
70010	70010 Avaya Aura (Active) New						
70011	70011 Avaya Aura (Active) New						
	Register						

7.2. Administer CTI Server

Navigate to the **C:\LTR\Config** directory, and copy the **CTIServer_AvayaActive** configuration file from the **SampleConfigFiles** directory to the current directory shown below.

	_ 🖸 📑 ╤ C:\LTR\Config X							\times		
File Ho	ome S	hare	View							~ ?
$\leftarrow \ \ \rightarrow \ \ $	1	Thi	s PC → Local Disk (C:) → LTR → Config)			ٽ ~	Search Config		P
			Name	Date modified	Туре	Size				
🖈 Quick a	access		📙 logging	8/17/2022 2:16 PM	File folder					
	nloads	<u>_</u>	SampleConfigFiles	8/9/2022 9:23 PM	File folder					
	inioaus	<i>.</i>	CTIServer_AvayaActive.config	8/18/2022 4:27 PM	CONFIG File	5 KB				
Docu	iments	R	Devices.ini	8/15/2022 3:49 PM	Configuration sett	1 KB				
📰 Pictu	ires	*	NamedPipeProxy.config	4/20/2022 11:34 PM	CONFIG File	1 KB				
🔤 Confi	ïg	*	🏂 recorder8.p12	8/15/2022 4:36 PM	Personal Informati	4 KB				
Logs			SNMPAgentService.exe.config	4/20/2022 11:36 PM	CONFIG File	1 KB				
RTPC	ollector		🔊 web.ini	8/17/2022 2:16 PM	Configuration sett	1 KB				
			ZoomDownloader.Settings.json	4/20/2022 11:36 PM	JSON File	1 KB				
📃 This PC	С									
i Networ	ork									

Open the **CTIServer_AvayaActive** file with the Notepad application. Navigate to the **avaya** sub-section, and configure the parameters as shown below.

- aesAddress: IP Address of Application Enablement Services.
- dmccPort Secure DMCC port 4722
- **username:** The Quantify user credentials from **Section 6.4**.
- **password:** The Quantify user credentials from **Section 6.4**.
- serverName FQDN of Application Enablement Services.
- useSsl true
- clientCertificateFile PKCS12 client certificate file
- clientCertificatePassword PKCS12 client certificate password

CTIServer_AvayaActive - Notepad

```
File Edit Format View Help
```

Scroll down and configure more parameters as below:

- SwitchName:
- StationPassword:

The relevant switch connection name from Section 6.3. The security code for the extensions from Section 5.2 and

Section 5.3.

CTIServer_AvayaActive - Notepad	-	\times
le Edit Format View Help		
<i>device</i>		^
suit-hName="CM1/5"		
controllableWotherSessions="false"		
instance="4"		
multiRegistrationModeIndependent="true"		
startRecordingOnDeliveredEvent="false"		
startRecordingOnDeliveredEventTimeout="60"		
>		
<codecs></codecs>		
<add id="g711A"></add>		
<add id="g711U"></add>		
<add id="g722"></add>		
<add id="g729"></add>		
<add id="g729A"></add>		
<add id="g723"></add>		
<pre><encryptionsuites></encryptionsuites></pre>		
<add id="srtp-aescm128-hmac80"></add>		
<add id="aes"></add>		
<add id="none"></add>		
<mr mediamode="Separated" stationpassword="111222"></mr>		

7.3. Administer Recording Channels

Access the Red Box Quantify 6C web-based interface by using the URL "http://ip-address"in an Internet browser window, where **ip-address** is the IP address of the Red Box Quantify 6C server. Log in using the appropriate credentials.

M Red Box		Copyright (C) Red Box Voice
Quantify. The easiest, most capable Username Password Login	oice recording suite.	

The screen below is displayed. Click on the **Configuration** icon.

∕∕- Red Box			Options 🔻 🛛 Logout
Search Untitled Search			(unsaved)
Search Range: 4 19/08/2022 00:00 to + Add Criteria Results		ß	Share
	Configuration		

The screen below is displayed next. Select **Management** \rightarrow **Recording**.

√ ∧ Red Bc	×					Options 🔻 🛛	Logout
Management Status S	etup Events Mair	ntenance All					
Archiving	Blacklisting	Filter Management	Filters	Groups	Network Storage		~
Record On Demand	Recording	Recording Alarms	Users				

The **Recording** screen is displayed. Under the **Recording Enabled** column, check the entries associated with the station extensions. In the compliance testing, four entries with **Device Text** of **70000**, **70001**, **70010** and **7011** were checked.

۸∧ Red Box				
Vitter			Options 🔻	Logout
Management Status Setup Events Mai				
management status setup Events man	itenance Au			
Recording:				
Show Only:				
Search: Minimum 3 Characters	Pecording	Enabled Disabled All		
Search.	Kecording.	Linabled Disabled All		
Device Text: 🔺	Channel Name:	Recording Enabled:		
70000	70000	✓		
70001	70001	~		
70010	70010	✓		
70011	70011	<		
				~
<			>	,
4 devices enabled for recording.				
	✔ Update	📅 Delete 🔀 Reset		

8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Communication Manager, Application Enablement Services, and Red Box Quantify 6C.

8.1. Verify Avaya Aura® Communication Manager

On Communication Manager, verify the 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 5.1**, as shown below.

```
status aesves eti-linkAE SERVICES CTI LINK STATUSCTI Version Mnt AE Services<br/>Busy ServerService<br/>StateMsgs<br/>Sent<br/>Revd112noaes155established1780
```

8.2. Verify Avaya Aura® Application Enablement Services

On Application Enablement Services, verify the status of the TSAPI link by selecting Status \rightarrow Status and Control \rightarrow TSAPI Service Summary from the left pane. The TSAPI Link Details screen is displayed.

Verify the **Status** is "Talking" for the TSAPI link administered in **Section 6.3**, and that the **Associations** column reflects the total number of monitored extensions from **Section 5.2** and **Section 5.3**.



Verify the status of the DMCC link by selecting Status \rightarrow Status and Control \rightarrow DMCC Service Summary from the left pane. The DMCC Service Summary \rightarrow Session Summary screen is displayed.

Verify the **User** column shows an active session with the redbox user name from **Section 6.4**, and that the **# of Associated Devices** column reflects the total number of monitored extensions from **Section 5.2** and **Section 5.3**.

AVAYA	Applicat	plication Enablement Services Management Console			Welcome: User cust Last login: Tue Aug 23 16 Number of prior failed log HostName/IP: aes155.au Server Offer Type: VIRTU. SW Version: 10.1.0.1.0.7 Server Date and Time: Tu HA Status: Not Configure	:06:09 2022 fra in attempts: 0 ra.com/10.128. AL_APPLIANCE_ -0 ie Sep 20 17:59 d	om 172.16.8.16 226.155 _ON_VMWARE 0:20 ICT 2022
Status Status and Control	DMCC Service	e Summary				Home	Help Logo
 > AE Services Communication Manage Interface High Availability > Licensing > Maintenance > Networking > Security > Status Alarm Viewer 	per DMC Pleas C E Sessi Gene Serv Num Num Num	C Service Summary - Se e do not use back button nable page refresh every 60 on Summary <u>Device Summ</u> rated on Tue Sep 20 17:59:00 ice Uptime: ber of Active Sessions: ber of Active Sessions: ber of Existing Devices: ber of Devices Created Sir	seconds seconds mary ICT 2022 ince Service ace Service E	26 days, 3 hours 5 Boot: 144 25 Soot: 205	44 minutes		
 ▶ Logs ▶ Log Manager 	-	Session ID	<u>User</u>	Application	<u>Far-end Identifier</u>	<u>Connection</u> <u>Type</u>	<u># of</u> <u>Associated</u> <u>Devices</u>
Status and Control CVLAN Service Sum DLC Services Sum	imary	CCDF8E0DD451B1629 8F3679E8348F034- 120	redbox	Red Box Recorder	10.128.224.9	XML Encrypted	8
DLG Services Summ DMCC Service Sur	nary mmary	D6E40511CE699FC6E				N/MI	

Click on active Session ID with the redbox username to show number of monitored extensions

AE Services Communication Manager	DMCC Serv	ice Summary - Se	ssion Detail						
Interface	Diffee Serv								
High Availability	Enable page refresh every 60 seconds								
Licensing	Detailed Sess	sion View	2022						
▶ Maintenance	Session ID:	100 300 20 10.01.201	CCDF8E0DD451B16298F3679E8348F034-1	20					
▶ Networking	State:		Active						
P Networking	Time Establi	ished:	Sat, Sep 17, 2022 12:16:05 PM GMT+07:00)					
▹ Security	Uptime:		3 days, 5 hours, 45 minutes, and 21 second	s					
▼ Status	Cleanup Del	ay Timer:	60 seconds						
Alarm Viewer	Session Dura	ation Timer:	180 seconds						
Alarm Viewer	Time of Mos	t Recent Timer Res	et: Tue, Sep 20, 2022 06:00:56 PM ICT						
▶ Logs	Reconnect C	ounter:	0						
▶ Log Manager	Terminate S	Sessions							
Status and Control	Devices Asso	ciated with Session							
 CVLAN Service Summary 		Device ID State							
 DLG Services Summary 		70011:CM145:	0.0.0.0:4	DECISTERED					
 DLG Services Summary DMCC Service Summary 		70011:CM145:	0.0.0:4	REGISTERED					
DLG Services Summary DMCC Service Summary Switch Conn Summary		70011:CM145: 70000:CM145:	0.0.0.0:4	REGISTERED REGISTERED					
 DLG Services Summary DMCC Service Summary Switch Conn Summary TSAPI Service Summary User Management 		70011:CM145: 70000:CM145: 70001:CM145:	0.0.0.0:4	REGISTERED REGISTERED REGISTERED					
 DLG Services Summary DMCC Service Summary Switch Conn Summary TSAPI Service Summary User Management Utilities 		70011:CM145: 70000:CM145: 70001:CM145:	0.0.0.0:4	REGISTERED REGISTERED REGISTERED					
 DLG Services Summary DMCC Service Summary Switch Conn Summary TSAPI Service Summary User Management Utilities Help 		70011:CM145: 70000:CM145: 70001:CM145: 70000:CM145:	0.0.0.0:4 0.0.0.0:5 0.0.0.0:5 0.0.0.0:4	REGISTERED REGISTERED REGISTERED REGISTERED					
 DLG Services Summary DMCC Service Summary Switch Conn Summary TSAPI Service Summary User Management Utilities Help 		70011:CM145: 70000:CM145: 70001:CM145: 70000:CM145: 70000:CM145:	0.0.0.0:4 0.0.0.0:5 0.0.0.0:4 0.0.0.0:4	REGISTERED REGISTERED REGISTERED REGISTERED REGISTERED REGISTERED					
 DLG Services Summary DMCC Service Summary Switch Conn Summary TSAPI Service Summary User Management Utilities Help 		70011:CM145: 70000:CM145: 70001:CM145: 70000:CM145: 70001:CM145: 70001:CM145: 70001:CM145:	0.0.0.0:4 0.0.0.0:5 0.0.0.0:4 0.0.0.0:4 0.0.0.0:5	REGISTERED REGISTERED REGISTERED REGISTERED REGISTERED REGISTERED REGISTERED REGISTERED					
 DLG Services Summary DMCC Service Summary Switch Conn Summary TSAPI Service Summary User Management Utilities Help 		70011:CM145: 70000:CM145: 70001:CM145: 70000:CM145: 70001:CM145: 70001:CM145: 70011:CM145: 70011:CM145:	0.0.0.0:4 0.0.0.0:5 0.0.0.0:4 0.0.0.0:4 0.0.0.0:5 0.0.0.0:5	REGISTERED					
 DLG Services Summary DMCC Service Summary Switch Conn Summary TSAPI Service Summary User Management Utilities Help 		70011:CM145: 70000:CM145: 70001:CM145: 70000:CM145: 70001:CM145: 70001:CM145: 70011:CM145: 70010:CM145: 70010:CM145:	0.0.0.0:4 0.0.0.0:5 0.0.0.0:5 0.0.0.0:4 0.0.0.0:5 0.0.0.0:5 0.0.0.0:4	REGISTERED REGISTERED					

8.3. Verify Red Box Quantify 6C

Follow the procedures in Section 7.3 to log in to the Red Box Quantify 6C web-based interface.

Copyright (C) Red Box Voice

The screen below is displayed. Click on the **Replay** icon.

∕ ∕ · Red Box				Options 🔻 📔 Logout
Search				(unsaved)
Search Range: 4 19/0 + Add Criteria	8/2022 00:00 to	Replay		Share
Results				

The **Search** screen is displayed. Click **Start Search** to obtain a listing of all recording entries for the current day. Verify that there is an entry reflecting the last call, with proper values in the relevant fields.

∕ ∕ · Red Box		Options 🔻 🛛 Logout
Search		~~
Untitled Search		(unsaved)
Search Range: 🖌 19/08/2022 00:00	to 19/08/2022 23:59	
+ Add Criteria	> Start Search	
Results		Share

Double click on the entry to listen to the playback. Verify that call recording is played back.

۸ٍ∧ _{Red}	IBox						
				J		Optio	ons 🔻 Logout
Search							\sim
Untitle	ed Search						Ť.
Search Range: 🖌 19/08/2022 00:00 to 19/08/2022 23:59							
Add Criteria				Start Search			
			_	Start Scaren			
Results							Share
						Calls 1 to 7	
Flags: C	all Start Time: 👻	Call End Time:	Call Duration:	Extension:	Other Party:	Call Direction:	Group:
► 19	9 Aug 2022 15:21:34	19 Aug 2022 15:21:46	00:00:13	70010	70002	Outgoing	
► 19	9 Aug 2022 15:21:21	19 Aug 2022 15:21:26	00:00:05	70010	70002	Incoming	
► 19	9 Aug 2022 15:21:06	19 Aug 2022 15:21:13	00:00:07	70010	70002	Incoming	
19	9 Aug 2022 15:20:49	19 Aug 2022 15:21:02	00:00:14	70010	70002	Incoming	
19	9 Aug 2022 15:09:25	19 Aug 2022 15:10:30	00:01:06	70010	70002	Outgoing	
19	9 Aug 2022 15:08:46	19 Aug 2022 15:09:18	00:00:33	70010	70002	Incoming	
19	9 Aug 2022 15:08:11	19 Aug 2022 15:08:38	00:00:27	70010	70002	Incoming	
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Media Player							\sim
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19 Aug 2022 15:	:09:25 00:00:08 15	5:09:33 19 Aug 2022 15:	10:30	o.l.ct			
ales 64 - 1186		Manager Maria Street March 10		Call Export:	v		
and the states	San Kalandar Managaran Maria			Use renlay setting			
				Full Call	•		
					WAV		

9. Conclusion

These Application Notes describe the configuration steps required for Red Box Quantify 6C to successfully interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services 10.1 using Multiple Registration. All feature and serviceability test cases were completed with observations noted in **Section 2.2**

10. Additional References

This section references the Avaya and Red Box Quantify 6C 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, Release 10.1.x, Issue 1, Dec 2021
- 2. Administering Avaya Aura® Session Manager, Release 10.1.x, Issue 3, April 2022
- 3. Administering Avaya Aura® System Manager, Release 10.1.x, Issue 6, June 2022
- 4. Administering Avaya Aura® Application Enablement Services, Release 10.1.x, Issue 4, April 2022

Product Documentation for Red Box products may be found at https://www.redboxvoice.com/

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