

Avaya Solution & Interoperability Test Lab

Application Notes for CTIntegrations CT Suite 3.0 with Avaya Aura® Communication Manager 7.0 and Avaya Aura® Application Enablement Services 7.0 for Chat Integration – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for CTIntegrations CT Suite 3.0 to interoperate with Avaya Aura® Communication Manager 7.0 and Avaya Aura® Application Enablement Services 7.0 for chat integration. CTIntegrations CT Suite is a contact center solution.

In the compliance testing, CTIntegrations CT Suite used the Device, Media, and Call Control interface from Avaya Aura® Application Enablement Services to monitor the chat VDN, along with use of the Administration Without Hardware feature on Communication Manager to support delivery of chat work items to agents.

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 CTIntegrations CT Suite 3.0 to interoperate with Avaya Aura® Communication Manager 7.0 and Avaya Aura® Application Enablement Services 7.0 for chat integration. CT Suite is a contact center solution.

In the compliance testing, CT Suite used the Device, Media, and Call Control (DMCC) .Net interface from Application Enablement Services to monitor the chat VDN, along with use of the Administration Without Hardware (AWOH) feature on Communication Manager to support delivery of chat work items to agents via the Open Queue component of CT Suite.

The Open Queue component of CT Suite initiates a phantom call for each chat work item, using an available AWOH station on Communication Manager as calling party and the applicable chat VDN on Communication Manager as destination. Once the phantom call is delivered to the agent desktop, subsequent call controls are supported by the Device Manager component of CT Suite.

These Application Notes focus on the integration between the Open Queue component of CT Suite with Application Enablement Services for support of chat work items, and assume the integration between the Device Manager component of CT Suite with Application Enablement Services for call control support is already in place as documented in reference [3].

2. General Test Approach and Test Results

The feature test cases were performed both automatically and manually. Upon start of the CT Suite application, the application automatically requests monitoring on the chat VDN.

For the manual part of the testing, incoming chats were placed with available agents that have web browser connections to the CT Suite server. All necessary chat actions by agents were initiated from the agent desktops.

The serviceability test cases were performed manually by disconnecting/reconnecting the Ethernet connection to the CT Suite server.

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.

TLT; Reviewed:	
SPOC 8/1/2017	

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 Application Enablement Services and CT Suite did not include use of any specific encryption features as requested by CTIntegrations.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on verifying the following on CT Suite:

- Use of DMCC monitoring services to monitor the chat VDN.
- Use of DMCC call control services to support initiation and clearing of phantom calls.
- Proper handling of chat scenarios involving screen pop, drop, hold/resume, multiple agents, transfer, and long duration.

The serviceability testing focused on verifying the ability of CT Suite to recover from adverse conditions, such as disconnecting/reconnecting the Ethernet connection to the server and/or client components of CT Suite.

2.2. Test Results

All test cases were executed and verified.

2.3. Support

Technical support on CT Suite can be obtained through the following:

- **Phone:** (877) 449-6775
- Email: <u>info@ctintegrations.com</u>
- Web: <u>http://www.ctintegrations.com</u>

3. Reference Configuration

The configuration used for the compliance testing is shown in **Figure 1**. The detailed administration of basic connectivity between Communication Manager and Application Enablement Services, and of contact center resources are not the focus of these Application Notes and will not be described.

CT Suite can support chat requesters from the intranet or internet. For simplicity, all chats in the compliance testing were initiated from the intranet.

Device Type	Extension
Agent Station	65001, 66002
Agent ID	65881, 65882
Agent Password	65881, 65882

The contact center resources shown in the table below were used in the testing.

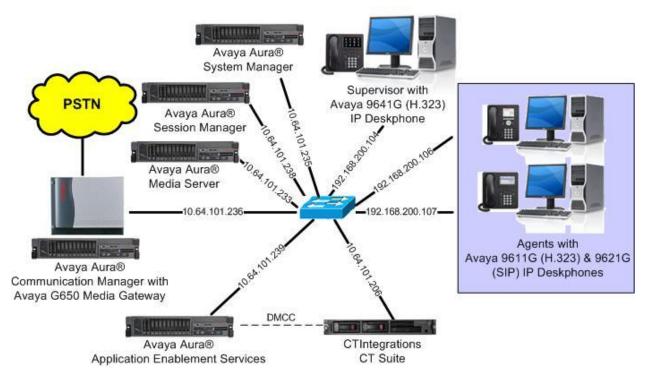


Figure 1: Compliance Testing Configuration

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® Communication Manager in	7.0.1.2
Virtual Environment	(7.0.1.2.0.441.23523)
Avaya G650 Media Gateway	NA
Avaya Aura® Media Server in Virtual Environment	7.7.0.375
Avaya Aura® Application Enablement Services in	7.0.1
Virtual Environment	(7.0.1.0.4.15-0)
Avaya Aura® Session Manager in	7.0.1.2
Virtual Environment	(7.0.1.2.701230)
Avaya Aura® System Manager in	7.0.1.2
Virtual Environment	(7.0.1.2.086553)
Avaya 9611G and 9641G IP Deskphones (H.323)	6.6401
Avaya 9621G IP Deskphones (SIP)	7.0.1.4.6
CTIntegrations CT Suite on	3.0 Hotfix 1
Microsoft Windows Server 2012 R2	Standard
• CT Admin	3.0.6
• CT Web Client	3.0.3
• CT Device Manager	3.0.12.17180
• CT Open Queue	3.0.3.17132
• Avaya DMCC .NET (ServiceProvider.dll)	7.0.0.38

5. Configure Avaya Aura® Communication Manager

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

- Administer AWOH stations
- Administer chat skill
- Administer chat vector and VDN
- Administer agent IDs

5.1. Administer AWOH Stations

Add an AWOH station using the "add station n" command, where "n" is an available extension number. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Extension: The available extension number.
- **Type:** "CTI"
- Name: A descriptive name.

```
add station 67771
                                                               Page 1 of
                                                                             5
                                    STATION
Extension: 67771
                                                                       BCC: 0
                                        Lock Messages? n
                                        Security Code:
    Type: CTI
                                                                       TN: 1
                                      Coverage Path 1:
                                                                       COR: 1
    Port: X
    Name: Chat AWOH 1
                                      Coverage Path 2:
                                                                       COS: 1
                                      Hunt-to Station:
STATION OPTIONS
                                          Time of Day Lock Table:
           Loss Group: 1
Data Module? n
                                  Personalized Ringing Pattern: 1
                                                Message Lamp Ext: 67771
         Display Module: n
```

Repeat this section to administer the desired number of AWOH stations, to be used as originators of phantom calls for chat work items. The number of AWOH stations configured should correspond to the desired number of simultaneous chat work items. In the compliance testing, two AWOH stations with extensions 67771-67772 were configured, as shown below.

list statior	n 67771 co	ount 2				
		STATI	IONS			
Ext/ Hunt-to	Port/ Type	Name/ Surv GK NN	Move	Room/ Data Ext	Cv1/ COR/ Cable/ Cv2 COS TN Jack	
67771	x	Chat AWOH 1			1	
67772	CTI X	Chat AWOH 2	no		1 1	
	CTI		no		1	

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5.2. Administer Chat Skill

Administer a skill group to be used for routing of chat work items to agents. Use the "add huntgroup n" command, where "n" is an available group number. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Group Number:** The available group number.
- **Group Name:** A descriptive name.
- Group Extension: An available extension number.

'v"

- ACD: "y"
- Queue: "y"
- Vector:

add hunt-group 7				Page	1 of	4
	HUNT	GROUP				
	_					
Group Number:	7		ACD?	У		
Group Name:	Chat Skill		Queue?	У		
Group Extension:	67101		Vector?	У		
Group Type:	ucd-mia					
TN:	1					
COR:	1		MM Early Answer?	n		
Security Code:		Local	Agent Preference?	n		
ISDN/SIP Caller Display:						

Navigate to Page 2, and set Skill to "y" as shown below.

add hunt-group 7		Page	2 of	4
	HUNT GROUP			
Skill? y AAS? n Measured: none Supervisor Extension:	Expected Call Handling Time <	<sec>:</sec>	180	
Controlling Adjunct: none				

5.3. Administer Chat Vector and VDN

Modify a vector using the "change vector n" command, where "n" is an existing vector number. The vector will be used for routing of chat phantom calls to agents at medium priority. Note that the vector **Number**, **Name**, **queue-to-skill**, and **wait-time** steps may vary.

```
change vector 700 Page 1 of 6

CALL VECTOR

Number: 700 Name: CT Suite Chat

Multimedia? n
Basic? y
EAS? y
G3V4 Enhanced? y
ANI/II-Digits? y
EAS? y
G3V4 Adv Route? y
CINFO? y
BSR? y
Holidays? y
Variables? y
3.0 Enhanced? y
skill 7 prim
999 secs hearing ringback
03
04
```

Add a VDN using the "add vdn n" command, where "n" is an available extension number. Enter a descriptive name for the **Name** field, and enter the vector number from above for the **Vector Number** field. Retain the default values for all remaining fields.

add vdn 67000 Page 1 of 3 VECTOR DIRECTORY NUMBER Extension: 67000 Name*: CT Suite Chat Vector Number: 700 Attendant Vectoring? n Meet-me Conferencing? n Allow VDN Override? n COR: 1 TN*: 1 Measured: none

5.4. Administer Agent IDs

The newly created chat skill needs to be added to the applicable agents. Use the "change agentloginID n" command, where "n" is the first agent ID from **Section 3**. Navigate to **Page 2**, and add the chat skill group number from **Section 5.2** to an available **SN**, and set the desired skill level under the corresponding **SL**, as shown below.

chang	e age	nt-login	ID 65881				Page	e 2 of	3
				AGENT	LOGINID				
	Dire	ct Agent	Skill:			Ser	vice Obje	ective? r	1
Call	Handl	ing Pref	erence: s	kill-level		Local C	all Prefe	erence? r	1
S	N R	L SL	SN	RL SL	SN	RL SL	SN	RL SL	
1: 1		1	16:		31:		46:		
2: 2		1	17:		32:		47:		
3: 7		1	18:		33:		48:		
4:			19:		34:		49:		
5:			20:		35:		50:		

Repeat this section to add the chat skill to all desired agents. In the compliance testing, the chat skill was added to both agents from **Section 3**, as shown below.

list agent-	loginID 65881	count 2							
		A	GENT LOG	INID					
Login ID	Name	Exte	nsion	Dir Ac	jt AAS/i	AUD	COR	Ag Pr SO	
	Skil/Lv Sł	il/Lv S	kil/Lv S	kil/Lv S	skil/Lv s	Skil/Lv S	Skil/Lv	/ Skil/Lv	
65881	CM Agent 1	unst	affed				1	lvl	
	1/01	2/01	7/01	/	/	/	/	/	
65882	CM Agent 2	unst	affed				1	lvl	
	1/01	2/01	7/01	/	/	/	/	/	

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
- Obtain CT Suite user credentials
- Obtain Tlink name

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.

VAYA	Application Enablement Services Management Console
	Please login here: Username Password Login Reset
	Copyright © 2009-2016 Avaya Inc. All Rights Reserved.

The Welcome to OAM screen is displayed next.

AVAYA Applic	cation Enablement Services Management Console	Welcome: User Last login: Mon Jun 12 13:01:12 2017 from 192.168.200.20 Number of prior failed login attempts: 0 HostName/IP: aes7/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 7.0.10.RTUAL_APPLIANCE_ON_VMWARE Server Date and Time: Mon Jun 12 14:22:13 EDT 2017 HA Status: Not Configured
Home		Home Help Logou
▶ AE Services	1	
Communication Manager Interface	Welcome to OAM	
High Availability	The AE Services Operations, Administration, and	Management (OAM) Web provides you with tools
▶ Licensing	for managing the AE Server. OAM spans the follow	
Maintenance	 AE Services - Use AE Services to manage the AE Server. 	all AE Services that you are licensed to use on
Networking	 Communication Manager Interface - Use C switch connection and dialplan. 	ommunication Manager Interface to manage
Security	 High Availability - Use High Availability to n 	
▶ Status	 Licensing - Use Licensing to manage the lic Maintenance - Use Maintenance to manage 	the routine maintenance tasks.
› User Management		ser accounts, certificate, host authentication and
Vtilities	 Status - Use Status to obtain server status 	
> Help	 User Management - Use User Management user-related resources. 	to manage AE Services users and AE Services
	 Utilities - Use Utilities to carry out basic cor Help - Use Help to obtain a few tips for usir 	
	Depending on your business requirements, these administrator for all domains, or a separate admir	

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).

	cation Enablement Services Management Console	Welcome: User Last login: Mon Jun 12 13:01:12 2017 from 192.168.200.20 Number of prior failed login attempts: 0 HostName/IP: aes7/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 7.0.1.0.4.15-0 Server Date and Time: Mon Jun 12 14:22:13 EDT 2017 HA Status: Not Configured
Licensing		Home Help Logout
 AE Services Communication Manager Interface 	Licensing	
High Availability	If you are setting up and maintaining the WebLM,	, you need to use the following:
▼ Licensing	WebLM Server Address	
WebLM Server Address	If you are importing, setting up and maintaining	the license, you need to use the following:
WebLM Server Access	WebLM Server Access	
Reserved Licenses	If you want to administer TSAPI Reserved Licens	es or DMCC Reserved Licenses, you need to
Maintenance	use the following:	
Networking	Reserved Licenses	

Solution & Interoperability Test Lab Application Notes ©2017 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 TSAPI Simultaneous Users, as shown below. Note that the TSAPI license is used for phantom calls via DMCC.

me Licenses ×			
WebLM Home	Application Enablement (CTI) - R	telease: 7 - SI	D: 10503000
Install license	Versions have a line and David stars. Application	Fundal and a Marine	t in the second second second
Licensed products	You are here: Licensed Products > Application_	-	
APPL_ENAB	License installed on: June 2, 2017 1:4	48:26 PM -04:00)
 Application_Enablement 			
View license capacity	License File Host IDs: V1-19-37-	80-8F-BF	
View peak usage			
COMMUNICATION_MANAGER	Licensed Features		
▶ Call_Center			
Communication_Manager	13 Items 🍣 Show All 🔻		
Configure Centralized Licensing	Feature (License Keyword)	Expiration date	Licensed capacity
MSR	Device Media and Call Control VALUE_AES_DMCC_DMC	permanent	0
Media_Server	AES ADVANCED LARGE SWITCH	permanent	0
SessionManager	VALUE_AES_AEC_LARGE_ADVANCED	permanent	0
▶ SessionManager	AES HA LARGE VALUE_AES_HA_LARGE	permanent	0
Uninstall license	AES ADVANCED MEDIUM SWITCH	permanent	0
Server properties	VALUE_AES_AEC_MEDIUM_ADVANCED	permanent	0
Shortcuts	Unified CC API Desktop Edition VALUE_AES_AEC_UNIFIED_CC_DESKTOP	permanent	0
Help for Installed Product	CVLAN ASAI VALUE_AES_CVLAN_ASAI	permanent	0
	AES HA MEDIUM VALUE_AES_HA_MEDIUM	permanent	0
	AES ADVANCED SMALL SWITCH VALUE_AES_AEC_SMALL_ADVANCED	permanent	0
	DLG VALUE_AES_DLG	permanent	0
	TSAPI Simultaneous Users VALUE_AES_TSAPI_USERS	permanent	10

6.3. Obtain CT Suite User Credentials

Select User Management \rightarrow User Admin \rightarrow List All Users (not shown) from the left pane, to display the List All Users screen in the right pane.

Locate and note the CT Suite user credentials that was created as part of the voice channel integration as documented in reference [3].

	cation Enablement Management Console	Welcome: User Last login: Tue Jul 11 10:46:32 2017 from 192.168.200.20 Number of prior failed login attempts: 0 HostName/IP: aes7/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 7.0.1.0.4.15-0 Server Date and Time: Tue Jul 11 13:13:53 EDT 2017 HA Status: Not Configured			
User Management User Admin	List All Users			Home	Help Logout
Communication Manager	List All Users				
High Availability	<u>User Id</u>	Comm	ion Name	Surname	
▶ Licensing	CTSuite	CTSuite		CTSuite	
Maintenance		and a second			
Networking	aespc5	aespc5		aespc5	
▶ Security	aespc5h	aespc5h		aespc5h	

6.4. Obtain Tlink Name

Select Security \rightarrow Security Database \rightarrow Tlinks (not shown) from the left pane. The Tlinks screen shows a listing of Tlink names.

Locate the Tlink name associated with the relevant switch connection, which would use the name of the switch connection as part of the Tlink name. In the compliance testing, the relevant switch connection name is "cm7", as shown below in caps.

AVAYA	Application Enablement Services Management Console	Welcome: User Last login: Mon Jun 12 13:01:12 2017 from 192.168.200.20 Number of prior failed login attempts: 0 HostName/IP: aes7/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 7.0.1.0.4.15-0 Server Date and Time: Mon Jun 12 14:22:13 EDT 2017 HA Status: Not Configured
Security Security Datab	oase Tlinks	Home Help Logout
> AE Services		
Communication Mar Interface	nager Tlinks	
High Availability	Tlink Name	
▶ Licensing	AVAYA#CM7#CSTA#AES7	
▶ Maintenance	Delete Tlink	
Networking		
▼ Security		

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7. Configure CTIntegrations CT Suite

This section provides the procedures for configuring CT Suite. The procedures include the following areas:

- Launch CT Admin interface
- Administer CTI extensions
- Administer servers
- Restart service

The configuration of CT Suite is typically performed by CTIntegrations system integrators. The procedural steps are presented in these Application Notes for informational purposes.

7.1. Launch CT Admin Interface

Access the CT Admin web interface by using the URL "http://ip-address/CTAdmin" in an Internet browser window, where "ip-address" is the IP address of the CT Suite server. The **CT Admin** screen below is displayed. Log in using the administrator credentials.

CT Admin v3.0.6
LOG IN Security Admin
Username:
Password:
Remember me next time. LOG IN

7.2. Administer CTI Extensions

The Sites screen below is displayed. Select the pertinent site, in this case "DevConnect".

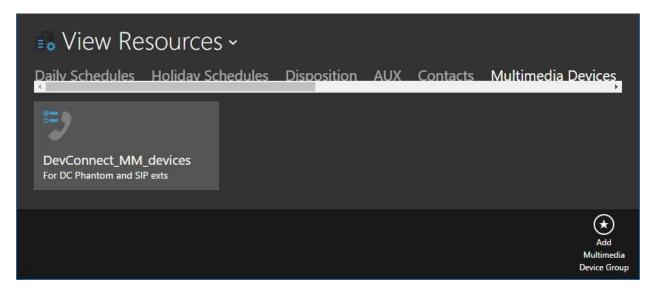
🔒 CT Admin v3.0.6		9	
Austin development site Tip Sites contain all your agents and templates	DevConnect DevConnect lab		
		Add Site	Security Administrati…

The **Site Resources** screen is displayed next. Select the pertinent logical resource group, in this case "DevConnect Resource".

Site Resources ~ Agent Templates Campaigns	Servers	Media	Resources	Details	
DevConnect Resource DevConnect lab resources					
					Add Resources

The **View Resources** screen is displayed. Scroll the top menu bar as necessary to locate and select **Multimedia Devices**, followed by **Add Multimedia Device Group** from bottom of screen to add a logical group for multimedia devices.

In the compliance testing, the "DevConnect_MM_devices" group was pre-configured. Select the newly added group.



The **View Multimedia Device Group** screen is displayed next. Select the **CTI Extensions** tab, followed by **Add CTI Extension** from bottom of screen.

 View Multimedia Device Group ~ CTI Extensions Details 								
Extension List	Extension Type	Description	Created By	Created	Modified By	Modified		
NU ILEIIIS								
						Add CTI Extension		

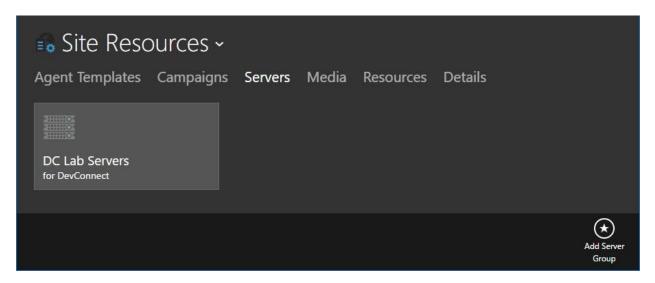
The **Add Edit CTI Extension** screen is displayed. Enter the following values for specified fields, and retain the default values for the remaining fields.

- Extension Type: "Phantom"
- **Description:** A desired description.
- Extension List: The AWOH station extensions from Section 5.1.

■o View Mul ⁺ CTI Extensions De	Add Edit CTI Extension B 🗴
Extension List Extension	Phantom
	Description AWOH stations for Chat
	Extension List (Separate each group by a comma)
	67771-67772
	Parameter Help Enter the stations as entries separated by commas. Add ranges if necessary separated by hyphen "-". Examples: 4500,4507,4520- 4590,5333-5350,8745 Note If the Extension Type is "SIP" then the Password will be required.
	\bigstar
	delete Add CTI Extension

7.3. Administer Servers

Return to the **Site Resources** screen. Select **Servers** from the top menu, followed by the pertinent logical servers group, in this case "DC Lab Servers".



7.3.1. AES Server

The **View Server Group** screen is displayed next. Select **AES** from the top menu, followed by **Add AES Server Group** from bottom of screen to add a logical group. In the compliance testing, the "AES group for DC" group was pre-configured. Select the newly added group.

🔒 View S	ervei	r Gro	oup ~				
AES Loaaer	Email	POM	License	Open Queue	Outbound	Controller	Device
AES group for Devconnect lab	DC						
							Add AES Server Group

The **Add Edit AES Server** screen is displayed. Enter the following values for specified fields, and retain the default values for the remaining fields.

- Is Primary: "Yes"
- **Description:** A desired description.
- **TLink Name:** The Tlink name from **Section 6.4**.
- TLink User Name: The CT Suite user credentials from Section 6.3.
- **TLink Password:** The CT Suite user credentials from **Section 6.3**.
- **AES IP Address:** IP address of Application Enablement Services from **Section 3**.

AES Servers		Add Edit AES Server Details service provider	⊜ ⊗		
TLink Name	TLink User Name	Is Primary Yes Description DevConnect AES TLink Name AVAYA#CM7#CSTA#AES7 TLink User Name		odified By	
		CTSuite TLink Password •••••• AES IP Address 10.64.101.239			

Select the **SERVICE PROVIDER** tab. Enter the following values for specified fields, and retain the default values for the remaining fields.

- Protocol:
- CM Name:
- The switch connection name from **Section 6.4**.
- CM IP Address: IP address of Communication Manager from Section 3.

*"*7.0"

View AESS AES Servers Details	Add Edit AES Server	00	
TLink Name TLink User Name	AES Socket Port 4721 Secure Socket Off CM Name cm7 CM IP Address 10.64.101.236	Protocol 7.0 Session Duration (seconds) 180 Session Cleanup Delay (seconds) 60	odified By Modified

7.3.2. Open Queue Server

Navigate back to the **View Server Group** screen below. Select **Open Queue** from the top menu, followed by **Add Open Queue** from bottom of screen.

🔹 Vie	ew Ser	rver G	iroup ~	•					
AES Lo	aaer Er	mail PC	M Licen	se Ope	en Oueue	Outbo	und Co	ontroller	Device
Processor Name	Server IP	Enabled	Description	Web Service Port	AES Server Group	Created By	Created	Modified By	Modified
No items									
									Add Open Queue

The **Add Edit Open Queue Server** screen is displayed. Enter the following values for specified fields, and retain the default values for the remaining fields.

- **Processor Name:** A descriptive name.
- Web Service Port: "8790"
- Server IP: IP address of CT Suite server.
- **Description:** A desired description.
- **AES Server Group:** Select the pertinent AES server group name from **Section 7.3.1**.
- CTI Extension Group: Select the multimedia device group name from Section 7.2.

Serv	Add Edit Open C Details Sip	ueue Server 🕞) 🗙	ontroller	Device
Processor Server IP E Name ti	Enabled Yes Processor Name Open Queue Server 1 Server IP 10.64.101.206 Description Open Queue Server 1 AES Server Group	UUIPrefix OQ Web Service Port 8790 Logfile Size KB 10000 Maximum Log Archives 1 CTI Extension Group			
	AES group for DC	Q DevConnect_MM_d ↔ Phantom Busy Error Interval 5	(*) delete		(+) Add Open Queue

7.3.3. Chat Server

Navigate back to the **View Server Group** screen. Scroll the top menu bar as necessary to locate and select **Chat**, followed by **Add Chat Server** from bottom of screen.

🔒 View	v Serve	er Grou	р ~					
M License	e Open C)ueue Ou	tbound Co	ontroller	Device	Monitor	Chat	Details
Processor Name	Server IP	Enabled	Description	Created By	Created	Modif	ied By	Modified
								Add Chat Server

The **Add Edit Chat Server** screen is displayed. Enter the following values for specified fields, and retain the default values for the remaining fields.

- **Processor Name:** A descriptive name.
- Server IP: IP address of CT Suite server.
- **Description:** A desired description.

Niew Ser	Add Edit Chat Serve	er 🕞 💌	or Chat Details
Processor Server IP Name	Enabled Yes Processor Name Chat Server for DC	Logfile Size KB 10000 Server IP 10.64.101.206	odified By Modified
	Description Chat Server for DC	Maximum Log Archives	
		(*) Delete	Add Chat Server

The **View Server Group** screen is displayed again. Select the newly created chat server, as shown below.

🔹 View		•		ntroller I	Device Mor	nitor Chat	Details
Processor Name	Server IP	Enabled	Description	Created By	Created	Modified By	Modified
Chat Server f	10.64.101.206	true	Chat Server f	admin	6/21/2017 5:	admin	6/21/2017 5:
							Add Chat Server

The View Chat Server screen is displayed next. Select Add Chat Queue from bottom of screen.

🔒 View Chat Server -							
Chat Qu	Chat Queues Details						
id No items	Name	Description	Enabled	Created By	Created	Modified By	Modified
							Add Chat Queue

The **Add Edit Chat Queue** screen is displayed. Enter the following values for specified fields, and retain the default values for the remaining fields.

- Route VDN:
- Name:
- Description:
- Media Groups Set Item:
- Holiday Schedule Group:
- CTIExtension Limit:
- The Chat VDN extension number from Section 5.3.
- A descriptive name.
 - A desired description.
 - Select the pertinent pre-existing media group.
 - Select the pertinent pre-existing holiday schedule group.
- **Sion Limit:** The number of CTI extensions from **Section 7.2**.
- Minutes To Close Idle Session: Enter the desired interval.

E View Cha Chat Queues Det Id Name	Add Edit Chat Que DETAILS MORE Enabled Route VD Yes 67000 Name Sales Chat Priority Media Groups Set Item Q Chat group for DC (+) CTIExtension Limit 2	AGENTS DAILY N Id Description Sales Chat Chat Server Q Chat Server for DC Holiday Schedule Group	×	odified By	
			(★) Delete		(+) Add Chat Queue

Select the **AGENTS** tab. Follow reference [4] to select the pertinent pre-existing agents. In the compliance testing, two agents below were selected.

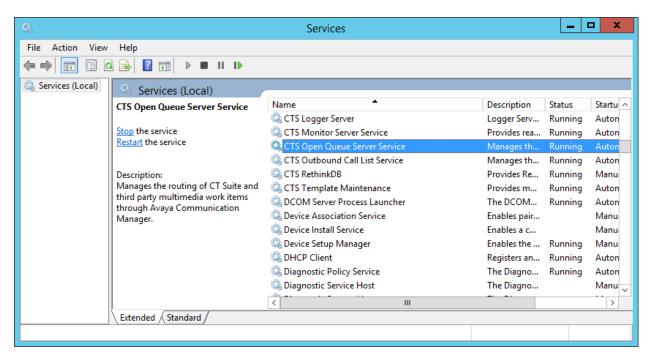
∎o View Ch Chat Queues De	Add Edit Cl	nat Queue DAILY SCHEDL	JLES CA		
ld Name				dified By	
5 Sales Chi	First Name	Last Name	User Name		
Concernence of	Tester1	Lab	tester1		
	Tester2	Lab	tester2		
			Add Agent		(+) Add Chat
					Queue

Select the **DAILY SCHEDULES** tab. Follow reference [4] to select the pertinent pre-existing daily schedule, in this case "Daily – Sales".

∎o Vi Chat Qi	ew Cha Jeues De	Add Edit Chat Queue			
				lified By	
		Daily Schedules			
		Daily - Sales			
			(+)		
			Add Daily Schedule		Add Chat Queue

7.4. Restart Service

From the CT Suite server, select Start \rightarrow Control Panel \rightarrow Administrative Tools \rightarrow Services to display the Services screen. Locate and restart the CTS Open Queue Server Service, as shown below.



8. Verification Steps

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

8.1. Verify Avaya Aura® Communication Manager

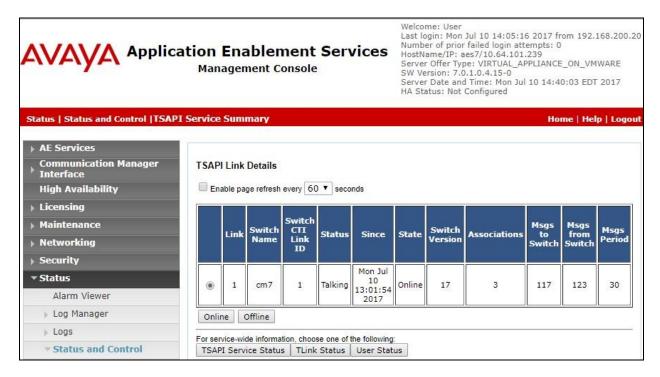
On Communication Manager, verify the status of the administered CTI link by using the "status aesvcs cti-link" command. Verify that the **Service State** is "established", as shown below.

```
status aesves eti-linkAE SERVICES CTI LINK STATUSCTI<br/>LinkVersion<br/>BusyMat<br/>ServerAE Services<br/>StateMsgs<br/>SentMsgs<br/>Revd17noaes7established118112
```

8.2. Verify Avaya Aura® Application Enablement Services

On Application Enablement Services, verify the status of the TSAPI service by selecting Status \rightarrow Status and Control \rightarrow TSAPI Service Summary (not shown) from the left pane. The TSAPI Link Details screen is displayed.

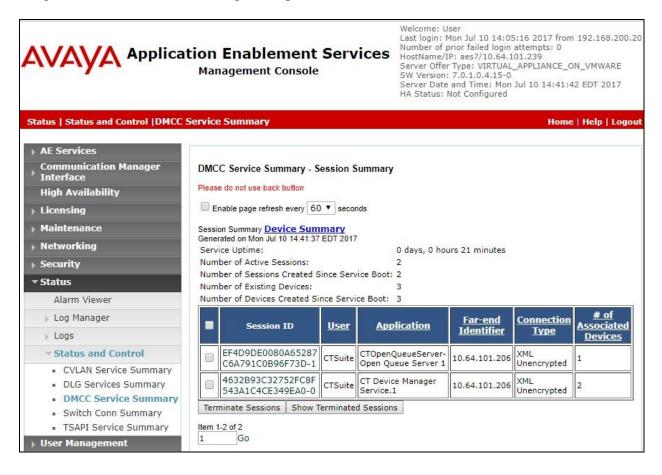
Verify that the **Status** is "Talking", and that the **Associations** column reflects the total number of agents that are logged in plus the chat VDN.



Solution & Interoperability Test Lab Application Notes ©2017 Avaya Inc. All Rights Reserved. Verify the status of the DMCC connections 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 there is an action session with "CTOpenQueueServer" as the **Application**, and with the CT Suite user name from **Section 6.3** as **User**. Also verify that the **# of Associated Devices** column reflects the total number of chat VDNs, in this case "1".

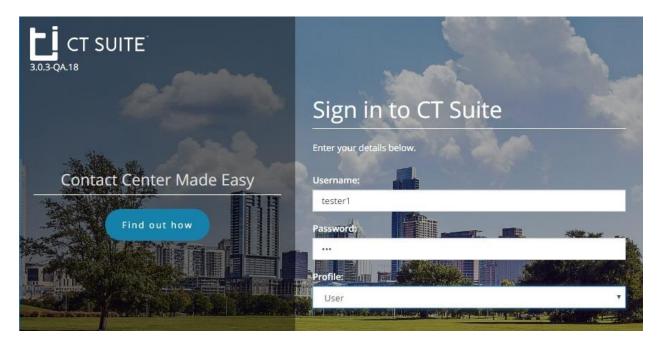
Note that the action session with "CT Device Manager" as the **Application** is used for voice integration with the Device Manager component of CT Suite, as documented in reference [3].



8.3. Verify CTIntegrations CT Suite

From an agent PC, launch an Internet browser window and enter the URL "http://ip-address:8081", where "ip-address" is the IP address of the CT Suite server.

The **Sign in to CT Suite** screen is displayed. For **Username** and **Password**, enter an applicable agent credentials, and retain the default value in the remaining field.



The agent screen below is displayed next. Retain the default values, and select **LOGIN** to log the agent into Communication Manager.

E.	SOFTPHONE					•
Ľ	C Enter nur				HOLD	00:00
-	C Enter nur				HOLD	00:00
	Enter nur				HOLD	00:00
-	Extension:	65001 Tester1 Lab				
-	CONFERENCE					
	TRANSFER					
		וייי				
	AgentID	65881	O Auto-In	Man	ual-In	
	Password					LOGIN
G	AUX Reason	Select reason code	00:00			

TLT; Reviewed: SPOC 8/1/2017

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Ŀİ	SOFTPHONE					0
L	C Enter nur				HOLD	00:00
	Enter nur				HOLD	00:00
	C Enter nur				HOLD	00:00
—	Extension:	65001 Tester1 Lab				
10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	CONFERENCE					
	AgentID	65881	🔵 Auto-In	🔵 Manu	al-In	
	Password		AVAILAB	LE ACI	N	LOGOUT
e	AUX Reason	Select reason code	• 01:06			
3.0.3	Details 🗸					

The agent screen is updated, as shown below. Click **AVAILABLE**.

Verify that the agent screen is updated, with the **AVAILABLE** icon shown in green below.

ь:	SOFTPHONE					•
	C Enter nur				HOLD	00:00
	C Enter nur				HOLD	00:00
	C Enter nur				HOLD	00:00
-	Extension:	65001 Tester1 Lab				
	CONFERENCE					
	AgentID	65881	Auto-In	Manu	al-In	
	Password		AVAILAB	LE ACV	v	LOGOUT
G	AUX Reason	Select reason code	00:02			
3.0.3	Details 🗸					

From a PC on the intranet, launch an Internet browser window and enter the URL <u>http://ip-address:3000</u> to start a chat session, where "ip-address" is the IP address of the CT Suite server. The screen below is displayed, select **Open Chat**.



The screen is updated as shown below. Fill out the parameters as desired. For **Department**, select the chat queue name from **Section 7.3.3**. Click **Start Chat**.

	Live 24 / 7 —
CTINTEGRATIONS CONTACT TECHNOLOGY	CT SUITE Welcome to CTIntegrations Chat. Please fill in the form below before starting chat.
	First Name:*
	DevConnect
	Last Name:*
	Avaya
	Email:*
	devconnect@xxx.com
	Subject:
	How do I verify DMCC chat
	Department:*
	Sales Chat 🔹
	Start Chat

Verify that the top section of the available agent's screen is updated to reflect a CTI extension from **Section 7.2** as calling party number, along with name of chat VDN from **Section 5.3**, as shown below. Click **ANSWER**.

le i	SOFTPHONE				Û
Ľ	67771		ANSWER	HOLD	00:01
	C Enter numi	ber		HOLD	00:00
	C Enter num			HOLD	00:00
-	Extension: 65	5001 Tester1 Lab			
		AWOH 1; V: CT Suite Chat; S: Chat Skill			
		OQ WebChat 4 553			

Verify that the agent is connected to the phantom call, and that the **Details** sub-section of the agent screen is updated to reflect the content of the chat, as shown below.

C⁴ 67771		END	HOLD	01:55	AgentID	65881	
Enter number			HOLD	00:00	Password		
Enter number			HOLD	00:00	AUX Reason	Select reason	code
Extension: 65001	Tester1 Lab					Auto-In	Manual-In
CONFERENCE	Chat AWOH 1; V: CT	Suite Chat; !	5: Chat Skil	I.		AVAILABLE	ACW LOGOUT
						01:55	
	OQ WebChat 4 5	94					
	ct Avaya Today 3:2	I PM		Temp	iates		
	erify DMC <mark>C</mark> chat				👻 Kej	y† T	Value
					Em	ail	devconnect@xxx.com
	ion Notes	History	Attach	iments	En		
How do I v	ion Notes	History	Attach	iments	Firs	st Name	DevConnect
How do I v		History	Attach	iments	Firs	st Name st Name bject	DevConnect Avaya How do I verify DMCC chat

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9. Conclusion

These Application Notes describe the configuration steps required for CTIntegrations CT Suite 3.0 to successfully interoperate with Avaya Aura® Communication Manager 7.0 and Avaya Aura® Application Enablement Services 7.0 for chat integration. All feature and serviceability test cases were completed.

10. Additional References

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

- **1.** *Administering Avaya Aura*® *Communication Manager*, Release 7.0.1, Issue 2.1, August 2016, available at <u>http://support.avaya.com</u>.
- **2.** Administering and Maintaining Aura® Application Enablement Services, Release 7.0.1, Issue 2, August 2016, available at <u>http://support.avaya.com</u>.
- **3.** Application Notes for CTIntegrations CT Suite 3.0 with Avaya Aura® Communication Manager 7.0 and Avaya Aura® Application Enablement Services 7.0 for Voice Channel Integration, Release 1.0, available at http://support.avaya.com.
- **4.** *CT Admin Administrator's Guide*, CT Suite v3.0, 5/30/17, available at <u>https://www.ctintegrations.com/docs</u>.
- **5.** *CT Suite Web Client*, Web Client User Guide, CT Suite R3.0, 5/30/17, available at <u>https://www.ctintegrations.com/docs</u>.

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