

Avaya Solution & Interoperability Test Lab

Application Notes for CTIntegrations CT Suite 3.0 with Avaya Aura® Communication Manager 7.0 and Avaya Aura® Session Manager 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® Session Manager 7.0 for chat integration. CTIntegrations CT Suite is a contact center solution.

In the compliance testing, CTIntegrations CT Suite used the SIP trunks interface from Avaya Aura® Session 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® Session Manager 7.0 for chat integration. CT Suite is a contact center solution.

In the compliance testing, CT Suite used the SIP trunks interface from Session Manager to support delivery of chat work items to agents. The CT Suite solution consists of a CT Suite server with Open Queue and Device Manager components, and a CT Suite Communication Server.

The CT Suite Communication Server connects to Session Manager via SIP trunks, and consists of the FreeSWITCH open source application server component acting as a SIP gateway, and the FusionPBX open source application component providing a graphical user interface for FreeSWITCH.

The Open Queue component of CT Suite initiates a SIP call for each chat work item, using an available local SIP extension on CT Suite Communication Server as calling party and the applicable chat VDN on Communication Manager as destination. Once the SIP 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 CT Suite Communication Server and the Open Queue component of CT Suite with Session Manager for support of chat work items, and assume the integration between the Device Manager component of CT Suite with Application Enablement Services for screen pop and call control is already in place as documented in reference [5].

2. General Test Approach and Test Results

The feature test cases were performed both manually. 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 and CT Suite Communication 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.

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 Session Manager 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 included chat scenarios involving G.711, media shuffling, screen pop, hold/resume, drop, 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 CT Suite server and CT Suite Communication Server.

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.

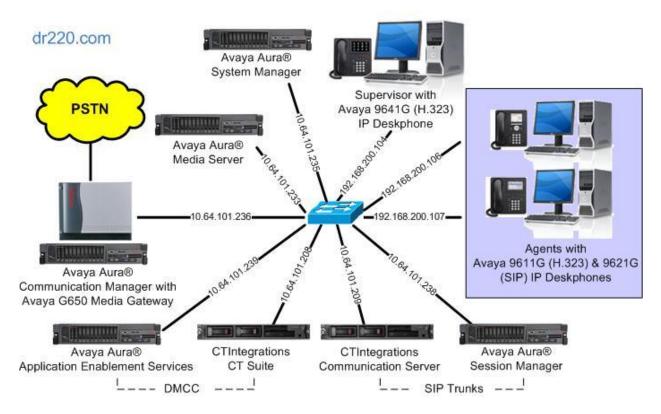


Figure 1: Compliance Testing Configuration

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
CTIntegrations CT Suite Communication Server on	NA
Debian	8.6
• FreeSWITCH	1.6.13
• FusionPBX	4.2.0

5. Configure Avaya Aura® Communication Manager

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

- Verify license
- Administer SIP trunk group
- Administer SIP signaling group
- Administer SIP trunk group members
- Administer IP network region
- Administer IP codec set
- Administer chat skill
- Administer chat vector and VDN
- Administer agent IDs

In the compliance testing, a separate set of codec set, network region, trunk group, and signaling group were used for integration with CT Suite.

5.1. Verify License

Log into the System Access Terminal (SAT) to verify that the Communication Manager license has proper permissions for features illustrated in these Application Notes. Use the "display system-parameters customer-options" command. Navigate to **Page 2**, and verify that there is sufficient remaining capacity for SIP trunks by comparing the **Maximum Administered SIP Trunks** field value with the corresponding value in the **USED** column.

The license file installed on the system controls the maximum permitted. If there is insufficient capacity, contact an authorized Avaya sales representative to make the appropriate changes.

display system-parameters customer-options		Page	2 of	12
OPTIONAL FEATURES				
IP PORT CAPACITIES		USED		
Maximum Administered H.323 Trunks:	12000	10		
Maximum Concurrently Registered IP Stations:	18000	4		
Maximum Administered Remote Office Trunks:	12000	0		
Maximum Concurrently Registered Remote Office Stations:	18000	0		
Maximum Concurrently Registered IP eCons:	414	0		
Max Concur Registered Unauthenticated H.323 Stations:	100	0		
Maximum Video Capable Stations:	41000	0		
Maximum Video Capable IP Softphones:	18000	0		
Maximum Administered SIP Trunks:	24000	30		
Maximum Administered Ad-hoc Video Conferencing Ports:	24000	0		
Maximum Number of DS1 Boards with Echo Cancellation:	522	0		

5.2. Administer SIP Trunk Group

Use the "add trunk-group n" command, where "n" is an available trunk group number, in this case "53". Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Group Type: "sip"
- Group Name: A descriptive name.
- **TAC:** An available trunk access code.
- Service Type: "public-ntwrk"

 add trunk-group 53
 Page 1 of 22

 TRUNK GROUP
 TRUNK GROUP

 Group Number: 53
 Group Type: sip
 CDR Reports: y

 Group Name: CT Suite Chat
 COR: 1
 TN: 1
 TAC: 1053

 Direction: two-way
 Outgoing Display? n
 Night Service:

 Queue Length: 0
 Night Code? n
 Member Assignment Method: auto Signaling Group:

 Number of Members: 0
 Number of Members: 0

Navigate to Page 3. Enter "private" for Numbering Format, and "shared" for UUI Treatment.

add trunk-group 53 Page 3 of 22 TRUNK FEATURES ACA Assignment? n Measured: none Maintenance Tests? y Suppress # Outpulsing? n Numbering Format: private UUI Treatment: shared Replace Restricted Numbers? n Replace Unavailable Numbers? n Hold/Unhold Notifications? y Modify Tandem Calling Number: no Show ANSWERED BY on Display? y

5.3. Administer SIP Signaling Group

Use the "add signaling-group n" command, where "n" is an available signaling group number, in this case "53". Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Group Type:
- Near-end Node Name: An existing C-LAN node name or "procr" in this case.
- **Far-end Node Name:** The existing Session Manager node name.

"sip"

- Near-end Listen Port: An available port for integration with CT Suite.
- Far-end Listen Port: The same port number as in Near-end Listen Port.
- Far-end Network Region: An existing network region to use with CT Suite.
- **Far-end Domain:** The applicable domain name for the network.

```
add signaling-group 53
                                                                     1 of
                                                                             2
                                                               Page
                               STGNALING GROUP
Group Number: 53
                             Group Type: sip
 IMS Enabled? n
                       Transport Method: tls
       O-SIP? n
    IP Video? n
                                                  Enforce SIPS URI for SRTP? y
 Peer Detection Enabled? y Peer Server: Others
Prepend '+' to Outgoing Calling/Alerting/Diverting/Connected Public Numbers? n
Remove '+' from Incoming Called/Calling/Alerting/Diverting/Connected Numbers? y
Alert Incoming SIP Crisis Calls? n
  Near-end Node Name: procr
                                            Far-end Node Name: sm7-sig
Near-end Listen Port: 5053
                                          Far-end Listen Port: 5053
                                       Far-end Network Region: 3
Far-end Domain: dr220.com
```

Far-end Domain: dr220.com

5.4. Administer SIP Trunk Group Members

Use the "change trunk-group n" command, where "n" is the trunk group number from **Section 5.2**. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Signaling Group:** The signaling group number from **Section 5.3**.
- Number of Members: The desired number of members, in this case "10".

change trunk-group 53		Page 1 of 22
	TRUNK GROUP	
Group Number: 53 Group Name: CT Suite Chat Direction: two-way Dial Access? n Queue Length: 0	Outgoing Display? n	CDR Reports: y TN: 1 TAC: 1053 Service:
Service Type: public-ntwrk	S	ignment Method: auto Fignaling Group: 53 ber of Members: 10

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5.5. Administer IP Network Region

Use the "change ip-network-region n" command, where "n" is the existing far-end network region number used by the SIP signaling group from **Section 5.3**.

For Authoritative Domain, enter the applicable domain for the network. Enter a descriptive Name. Enter "yes" for Intra-region IP-IP Direct Audio and Inter-region IP-IP Direct Audio, as shown below. For Codec Set, enter an available codec set number for integration with CT Suite.

```
change ip-network-region 3
                                                                  1 of 20
                                                            Page
                             IP NETWORK REGION
 Region: 3
            Authoritative Domain: dr220.com
Location:
   Name: CT Suite Stub Network Region: n
MEDIA PARAMETERS
                            Intra-region IP-IP Direct Audio: yes
     Codec Set: 3
                            Inter-region IP-IP Direct Audio: yes
  UDP Port Min: 2048
                                        IP Audio Hairpinning? n
  UDP Port Max: 3329
DIFFSERV/TOS PARAMETERS
Call Control PHB Value: 46
       Audio PHB Value: 46
       Video PHB Value: 26
```

Navigate to **Page 4**, and specify this codec set to be used for calls with the network region used by the Avaya endpoints. In the compliance testing, network region "1" was used by the Avaya endpoints.

```
change ip-network-region 3
                                                       Page
                                                             4 of 20
Source Region: 3
                 Inter Network Region Connection Management
                                                           Ι
                                                                   Μ
                                                           G A
                                                                   t.
dst codec direct WAN-BW-limits Video Intervening
                                                       Dyn A G
                                                                   С
rgn set WAN Units Total Norm Prio Shr Regions
                                                       CAC R L
                                                                   е
       y NoLimit
1
     3
                                                            n
                                                                   t
2
```

5.6. Administer IP Codec Set

Use the "change ip-codec-set n" command, where "n" is the codec set number from **Section 5.5**. Update the audio codec types in the **Audio Codec** fields as necessary. Note that CT Suite supports the G.711 and G.729 codec variants, with G.729 requiring special configuration on CT Suite. The compliance testing only covered the G.711 codec.

```
change ip-codec-set 5 Page 1 of

IP Codec Set

Codec Set: 5

Audio Silence Frames Packet

Codec Suppression Per Pkt Size(ms)

1: G.711MU n 2 20

2:
```

```
TLT; Reviewed: SPOC 8/1/2017
```

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2

5.7. 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				

5.8. 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 Attendant Vectoring? n Meet-me Conf? n Lock? n
Basic? y EAS? y G3V4 Enhanced? y ANI/II-Digits? y ASAI Routing? y
Prompting? y LAI? n G3V4 Adv Route? y CINFO? y BSR? y Holidays? y
Variables? y 3.0 Enhanced? y
N1 queue-to 02 wait-time 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

5.9. 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 5.7** 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	gt AAS/i	AUD	COR	Ag Pr SO	
	Skil/Lv Sł	il/Lv S	kil/Lv S	kil/Lv S	Skil/Lv :	Skil/Lv S	Skil/Lu	/ 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® Session Manager

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

- Launch System Manager
- Administer locations
- Administer SIP entities
- Administer routing policies
- Administer dial patterns

6.1. Launch System Manager

Access the System Manager web interface by using the URL "https://ip-address" in an Internet browser window, where "ip-address" is the IP address of System Manager. Log in using the appropriate credentials.

[©] System Manager 7.0		
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	Change Passw
Use the "Change Password" hyperlink on this page to change the password manually, and then login.		<u>Unange Passw</u>

6.2. Administer Locations

In the subsequent screen (not shown), select **Elements** \rightarrow **Routing** to display the **Introduction** to **Network Routing Policy** screen below. Select **Routing** \rightarrow **Locations** from the left pane, and click **New** in the subsequent screen (not shown) to add a new location for CT Suite.

AVAYA Aura [®] System Manager 7.0	Last Logged or Go
Home Routing ×	
* Routing	Home / Elements / Routing
Domains	Help
Locations	Introduction to Network Routing Policy
Adaptations	Network Routing Policy consists of several routing applications like "Domains", "Locations", "SIP
SIP Entities	Entities", etc.
Entity Links	The recommended order to use the routing applications (that means the overall routing workflow to configure your network configuration is as follows:

The Location Details screen is displayed. In the General sub-section, enter a descriptive Name and optional Notes. Retain the default values in the remaining fields.

AVAVA Aura [®] System Manager 7.0		Las Go
Home Routing ×		
▼ Routing	Home / Elements / Routing / Locations	
Domains Locations	Location Details	
Adaptations	General	
SIP Entities	* Name: CTI-Loc	
Entity Links	Notes: CTIntegrations CT Suite	
Time Ranges		
Routing Policies Dial Patterns	Dial Plan Transparency in Survivable Mode	
Regular Expression	Enabled:	
Defaults	Listed Directory Number:	
	Associated CM SIP Entity:	

Scroll down to the **Location Pattern** sub-section, click **Add** and enter the IP address of the CT Suite Communication Server in **IP Address Pattern**, as shown below. Retain the default values in the remaining fields.

Overall Alarm Threshold:	80 🔻 %		
Multimedia Alarm Threshold:	80 v %		
* Latency before Overall Alarm Trigger:	5 Minutes	i	
* Latency before Multimedia Alarm Trigger: Location Pattern	5 Minutes		
Alarm Trigger:	5 Minute		
Alarm Trigger:	5 Minute		Filter: Enabl
Alarm Trigger: Location Pattern Add Remove	5 Minutes	Notes	Filter: Enabl
Alarm Trigger:	5 minutes		Filter: Enabl

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6.3. Administer SIP Entities

Add two new SIP entities, one for CT Suite and one for the new SIP trunks with Communication Manager.

6.3.1. SIP Entity for CT Suite

Select **Routing** \rightarrow **SIP Entities** from the left pane, and click **New** in the subsequent screen (not shown) to add a new SIP entity for CT Suite.

The **SIP Entity Details** screen is displayed. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Name: A descriptive name.
- FQDN or IP Address: The IP address of the CT Suite Communication Server.
- **Type:** "SIP Trunk"
- Location: Select the CT Suite location name from Section 6.2.
- **Time Zone:** Select the applicable time zone.

AVAVA			Last Logged on at Ju
Aura [®] System Manager 7.0			Go
Home Routing ×			
▼ Routing	Home / Elements / Routing / SIP Entit	ies	
Domains			Help ?
Locations	SIP Entity Details		Commit Canc
Adaptations	General		
SIP Entities	* Name:	CTSuite	
Entity Links	* FQDN or IP Address:	10.64.101.207	
Time Ranges	Туре:	SIP Trunk	
Routing Policies	Notes:		
Dial Patterns			
Regular Expressions	Adaptation:		
Defaults	Location:	CTI-Loc 🔻	
	Time Zone:	America/Denver 🔻	
	* SIP Timer B/F (in seconds):	4	
	Credential name:		
	Securable:		
	Call Detail Recording:	egress T	
	Loop Detection		
	Loop Detection Mode:	On •	
	Loop Count Threshold:	5	
	Loop Detection Interval (ir msec):	200	

Scroll down to the **Entity Links** sub-section, and click **Add** to add an entity link. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Name: A descriptive name.
- SIP Entity 1: The Session Manager entity name, in this case "DR-SM7".
- **Protocol:** "UDP"
- **Port:** "5060"
- **SIP Entity 2:** The CT Suite entity name from this section.

"5060"

- Port:
- Connection Policy: "trusted"

Note that CT Suite can support UDP and TCP, and the compliance testing used the UDP protocol.

Add	Remove						
1 Ite	m 🥲						Filter: Enab
	Name 🔺	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connectio Policy
	* DR-SM7_CTSuite_5060	DR-SM7 T	UDP V	* 5060	CTSuite	* 5060	trusted
۰.							
_	Responses to an OP	TIONS Re	quest				
Add		TIONS Re	quest				
Add		TIONS Red	quest				Filter: Enab

6.3.2. SIP Entity for Communication Manager

Select **Routing** \rightarrow **SIP Entities** from the left pane, and click **New** in the subsequent screen (not shown) to add a new SIP entity for Communication Manager. Note that this SIP entity is used for integration with CT Suite.

The **SIP Entity Details** screen is displayed. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Name: A descriptive name.
- FQDN or IP Address: The IP address of an existing CLAN or the processor interface.
- **Type:** "CM"
- Notes: Any desired notes.
- Adaptation: Select the applicable adaptation for Communication Manager.
- Location: Select the applicable location for Communication Manager.
- **Time Zone:** Select the applicable time zone.

AVAVA			Last Logged or
Aura [®] System Manager 7.0			Go
Home Routing ×			
* Routing	Home / Elements / Routing / SIP Entit	ies	
Domains			He
Locations	SIP Entity Details		Commit
Adaptations	General		
SIP Entities	* Name:	DR-CM7-5053	
Entity Links	* FQDN or IP Address:	10.64.101.236	
Time Ranges	Туре:	CM	
Routing Policies	Notes:	CM Port 5053 (CTIntegrations CT Suite)	
Dial Patterns			
Regular Expressions	Adaptation:	DR-CM7-Adaptation 🔻	
Defaults	Location:	DR-Loc V	
	Time Zone:	America/New_York	
	* SIP Timer B/F (in seconds):	4	
	Credential name:		
	Securable:		
	Call Detail Recording:	none 🔻	
	Loop Detection		
	Loop Detection Mode:	On •	
	Loop Count Threshold:		
	Loop Detection Interval (in msec):	200	

Solution & Interoperability Test Lab Application Notes ©2017 Avaya Inc. All Rights Reserved. Scroll down to the **Entity Links** sub-section, and click **Add** to add an entity link. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Name: A descriptive name.
- **SIP Entity 1:** The Session Manager entity name, in this case "DR-SM7".
- **Protocol:** The signaling group transport method from **Section 5.3**.
- **Port:** The signaling group far-end listen port number from **Section 5.3**.
- **SIP Entity 2:** The Communication Manager entity name from this section.
- **Port:** The signaling group near-end listen port number from **Section 5.3**.
- Connection Policy: "trusted"

Add	d Remove						
1 It	em						Filter: Enable
	Name 🔺	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy
	* DR-SM7_DR-CM7-5053	DR-SM7 V	TLS 🔻	* 5053	DR-CM7-5053 V	* 5053	trusted
•							1
	Responses to an OP	TIONS Re	quest				
Add							
Add			_				Filter: Enable

6.4. Administer Routing Policies

Add a new routing policy for routing of chat calls from CT Suite to Communication Manager.

Select **Routing** \rightarrow **Routing Policies** from the left pane, and click **New** in the subsequent screen (not shown) to add a new routing policy to Communication Manager.

The **Routing Policy Details** screen is displayed. In the **General** sub-section, enter a descriptive **Name**. Enter optional **Notes**, and retain the default values in the remaining fields.

In the **SIP Entity as Destination** sub-section, click **Select** and select the Communication Manager entity name from **Section 6.3.2**. The screen below shows the result of the selection.

AVAVA					Last Logged
Aura [®] System Manager 7.0					Go
Home Routing *					
* Routing	Home / Elements	7 / Routing / Routing Pol	icies		
Domains Locations	Routing P	olicy Details			Commit
Adaptations SIP Entities	General				
Entity Links		* Name: To Disabled:	-CM7-5053		
Time Ranges Routing Policies		* Retries: 0			
Dial Patterns		Notes: To	CM7 port 5	053 from CT Suite	
Regular Expressions	SIP Entity a	s Destination			
Defaults	Select				
	Name	FQDN or IP Address	Туре	Notes	
	DR-CM7-5053	10.64.101.236	СМ	CM Port 5053 (CTIntegrations CT	Suite)

6.5. Administer Dial Patterns

Update existing dial patterns for Communication Manager to allow calls from CT Suite.

Select **Routing** \rightarrow **Dial Patterns** from the left pane, and click on the applicable dial pattern for Communication Manager in the subsequent screen, in this case dial pattern "6" (not shown). The **Dial Pattern Details** screen is displayed.

In the **Originating Locations and Routing Policies** sub-section, click **Add** and create a new entry as necessary for calls from CT Suite. In the compliance testing, the new entry allowed for call origination from the CT Suite location from **Section 6.2**, and the Communication Manager routing policy from **Section 6.4** was selected as shown below. Retain the default values in the remaining fields.

AVAYA Aura [®] System Manager 7.0						Last Logged on at
Home Routing *						
• Routing	Home / Elements / Routing / Dial Pa	otterns				
Domains Locations	Dial Pattern Details					Commit Ca
Adaptations	General					
SIP Entities	* Pa	ttern: 6				
Entity Links		Min: 5				
Time Ranges		Max: 5				
Routing Policies	Emergency					
Dial Patterns	Emergency Pr					
Regular Expressions		-				-
Defaults	Emergency	Туре:				
	SIP Do	main: -ALL-	•			
	1	Notes: To CM7				
	Originating Locations and	Routing Polic	cies			
	Add Remove					
	3 Items					
	Originating Location Name	Originating Location Notes	Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination
	CTI-Loc	CTIntegrations CT Suite	To-CM7- 5053	0		DR-CM7-5053
	DR-Loc	TLT DR Network	To-CM7	0		DR-CM7
	NJ-Loc	TLT NJ Network	To-CM7	0		DR-CM7
	Select : All, None					

7. Configure CTIntegrations CT Suite

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

- Launch FusionPBX
- Administer gateways
- Administer destinations
- Administer outbound routes
- Administer SIP extensions
- 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 FusionPBX

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

FUSIONPBX	
Username	
LOGIN	

7.2. Administer Gateways

The **Dashboard** screen below is displayed. Select Accounts \rightarrow Gateways from the top menu.

PLEICHFOX	f Home	Accounts	🛱 Dialplan	🗚 Apps	💼 Status	🌣 Advand	ced	
Dashboard Quickly access infor	mation and tools	related to your a	account.				v	Velcome: admin
	Voicemail			System (Counts		System Status	
	0			1			5	
N	ew Messages			Active Do	omains		Disk Usage (%)	
	***				4) 		***	

The **Gateways** screen is displayed next. Select the add icon shown below.

ateways							
ateways provide	access into other vo	ice networks. Th	ese can be voice	providers or ot	her systems that requ	ire SIP registration	
Gateway	Context	Status	Action	State	Hostname	Enabled	Description

The **Gateway** screen is displayed. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Gateway:** A descriptive name.
- Username: A desired value.
- **Password:** A desired value.
- From Domain: The applicable domain name from Section 3.
- **Proxy:** IP address of the Session Manager signaling interface.
- **Realm:** The applicable domain name from **Section 3**.
- **Register:** "False"
- **Profile:** "Internal"

CUSION FOX A Home L Accour	nts 🚟 Dialplan 🗚 Apps 🏥 Status 🌣 Advanced
Gateway Defines a connections to a SIP Provider or anoth	BACK SAVE
Gateway	SM7-Gateway Enter the gateway name here.
Username	CTI Enter the username here,
Password	Enter the password here.
From User	Enter the from-user here.
From Domain	dr220.com Enter the from-domain here.
Proxy	10.64.101.238 Enter the domain or IP address of the proxy.
Realm	dr220.com Enter the realm here.
Expire Seconds	800 Enter the expire-seconds here.
Register	False
Retry Seconds	30 Enter the retry-seconds here.
Context	ADVANCED
Profile	Enter the context here.
	Internal Control Enter the profile here.

Solution & Interoperability Test Lab Application Notes ©2017 Avaya Inc. All Rights Reserved. The **Gateways** screen is displayed again, showing the newly added gateway entry. Click **Start** to start the gateway.

🕆 Home 💷 /	\osounts ≓	/ Dialpian4	Add Complet	Status (* Ad	ranced		
							REFRESH
ess into other voice	e networks. These	can be voice p	roviders or oth	ner systems that req	uire SIP registratior	i.	hernesn
Context	Status	Action	State	Hostname	Enabled	Description	
public	Stopped	Start			True		×
		$\mathbf{\bigcirc}$					
	Context	Context Status	Accounts Delplan Accounts Delplan Accounts Context Status Action	A Home 1 Accounts T Dicipion 4 Apps in ress into other voice networks. These can be voice providers or oth Context Status Action State	Context Status Action State Hostname	Accounts Dielplan Appendie Status Advanced cess into other voice networks. These can be voice providers or other systems that require SIP registration Context Status Action State Hostname Enabled	A Home Accounts of Dielplan A Appendic Status & Advanced ress into other voice networks. These can be voice providers or other systems that require SIP registration. Context Status Action State Hostname Enabled Description

7.3. Administer Destinations

Select **Dialplan** \rightarrow **Destinations** from the top menu, to display the **Destinations** screen. Select the add icon shown below.

🤣 FUSION FEM	A Home	Accounts	🛱 Dialplan	Apps	击 Status	Advanced	
Destinations (DDI DNIS or Alias	for inhound calls			SHOW ALL	SEARCH
Туре	Destination		Context		Enabled	Description	
							1.0

The **Destination** screen is displayed. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Type:** "Outbound"
- **Destination:** The chat VDN extension number from **Section 5.8**.

	nts 🚟 Dialplan 🗚 Apps 🏭 Status 🍄 Advanced
Destination Inbound destinations are the DID/DDI, DNIS or A	Alias for inbound calls.
Туре	Outbound Select the type.
Destination	67000 Enter the destination.
Context	10.64.101.2 Enter the context.
Domain	10.64.101.207
Enabled	True Set the current status of this destination.
Description	Enter a description for this destination (optional).
	SAVE

7.4. Administer Outbound Routes

Select **Dialplan** \rightarrow **Outbound Routes** from the top menu, to display the **Outbound Routes** screen. Select the add icon shown below.

V FUSICA FEX	🕈 Home 💄	Accounts 🛛 🛱 Dialplan	🛪 Apps 🏥 Stat	us 🌣 Advanced		
Outbound R	outes				-	SEARCH
		, enum and more. When a ca	II matches the conditions	the call to outbound ro	utes.	SEARCH
Name	Number	Context	Order	Enabled	Description	•

The **Outbound Routes** screen is updated. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Gateway:** Select the pertinent gateway name from **Section 7.2**.
- Dialplan Express: Select the length of internal extensions, in this case "5 Digits".

VEUSION AN A Hon	ne 👤 Accounts 🛱 Dialplan 🔺 Apps 🏥 Status 🌩 Advanced
Outbound Routes	BACK SAVE
Outbound dialplans have one	or more conditions that are matched to attributes of a call. When a call matches the conditions the call is then routed to the gateway.
Gateway	51292375-241e-4e07-9999-00bd1f75db8d:SM7-Gateway Select the gateway to use with this outbound route.
Alternate 1	Select another gateway as an alternative to use if the first one fails.
Alternate 2	Select another gateway as an alternative to use if the second one fails.
Dialplan Expression	^(\d{5})\$ 5 Digits ☑ Shortcut to create the outbound dialplan entries for this Gateway.
Prefix	Enter a prefix number to add to the beginning of the destination number.
Limit	Enter limit to restrict the number of outbound calls.
Account Code	Enter the accountcode.
Order	100 Select the order number. The order number determines the order of the outbound routes when there is more than one.
Enabled	True Choose to enable or disable the outbound route.
Description	Enter the description.

The **Outbound Routes** screen is updated, showing the newly added entry. Click on the **Name** of the new entry.

CORUSION FBX	Home 👤 Accou	nts 🛱 Dialplan 🐳	🗚 Apps 📲	Status 🌻	Advanced	
Outbound Routes						SEARCI
oute outbound calls to	gateways, tdm, enum a	nd more. When a call m	atches the cond	tions the call to	outbound routes.	
Name Name	Number	Context	Order	Enabled	Description	+
SM7-Gateway.d5		10.64.101.207	100	True		

The **Dialplan** screen is displayed, as shown below.

WRUSIONFEX	f Home	Accounts	🛱 Dialplan	Apps	🏥 Status	Advanced	
Dialplan Dialplan include gene	ral settings.						BACK COPY SAVE
Name	SM7-Ga	ateway.d5			0	rder 100 🔻	

Scroll to the bottom of the screen, add an entry for the call timeout parameter and set to the desired value. The default timeout for the SIP chat calls is three minutes. In the compliance testing, the call timeout was set to 999 minutes, as shown below.

Tag	Туре	Data	Break	Inline	Group	Order	
condition	destination_number	^(\d{5})\$			0	5	×
action	set	sip_h_X-accountcode=\${accountcode}			0	10	×
action	set	call_direction=outbound			0	20	×
action	set	hangup_after_bridge=true			0	25	x
action	set	effective_caller_id_name=\${outbound_caller_id_			0	30	×
action	set	effective_caller_id_number=\${outbound_caller_i			0	35	×
action	set	inherit_codec=true			0	40	×
action	set	ignore_display_updates=true			0	42	×
action	set	callee_id_number=\$1			0	43	×
action	set	continue_on_fail=true			0	45	×
action	bridge	sofia/gateway/SM7-Gateway/\$1			0	70	×
Action	▼ set	⊲ call_timeout=999	~		0	80	1

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7.5. Administer SIP Extensions

Select Accounts \rightarrow Extensions from the top menu, to display the Extensions screen. Select the add icon shown below, to add an extension by following reference [6], the extension will be used as originator of calls for chat work items.

Repeat this section to create desired number of extensions with the same password. The number of extensions configured should correspond to the desired number of simultaneous chat work items. In the compliance testing, the two extensions 200-201 shown below were pre-configured.

V	USION FEX	Home 👤 Acco	ounts 🛱 Dialplan 🔺 Ap	ops 🏭 Status	Advanced	
	nsions (2)	ur SIP extensions			EXPORT	SEARCH
0261	no to configuro jo	ar on ontonorono.				_
	Extension	Call Group	Context	Enabled	Description	- ×
			Context 10.64.101.207	Enabled True	Description	

7.6. 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 <u>Security Admin</u>
Username:
Password:
Remember me next time. LOG IN

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7.7. Administer CTI Extensions

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

🔒 CT Admin v3.0.6	5 - Sites ~		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.

🔒 View Res	ources ~					
Dailv Schedules	Holidav Schedules	Disposition	AUX	Contacts	Multimedia I	Devices
DevConnect_MM_d For DC Phantom and SIP e						
						Add Multimedia Device Group

The Add Edit Multimedia Device Group screen is displayed next. Enter a descriptive Name and Description. For Resources, select the pertinent logical resource group shown earlier in this section.

Disposition AUX	Add Edit Multimedi Name DevConnect_SIP_MM_devices Description For DC SIP extensions	a Device Gr 🕢 🗴 Resources Q DevConnect Resource 🔶	vledae Responses
		★ Delete	Add Multimedia Device Group

The **View Resources** screen is displayed again. Select the newly added group, in this case "DevConnect_SIP_MM_devices".

🔒 View Resources	~			
Disposition AUX Contacts	Multimedia Devices	Devices	Acknowledae	Responses
DevConnect_SIP_MM_devic For DC SIP extensions	DevConnect_MM_device For DC Phantom and SIP exts	25		

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

CTI Extensio	Multime ns Details	edia Dev	ice Grou	nb ~		
Extension List No items	Extension Type	Description	Created By	Created	Modified By	Modified
						Add CTI Extension

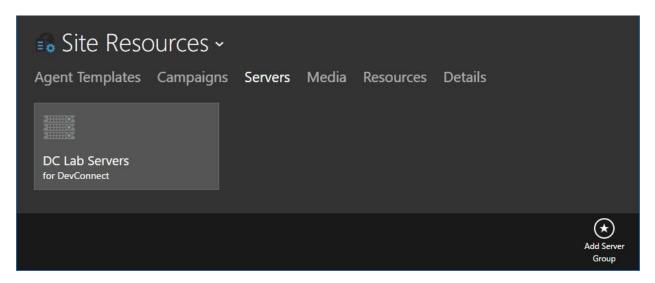
The **Add Edit CTI Extension** screen is displayed. Enter the following values for specified fields, and retain the default values for the remaining fields.

- Extension Type: "SIP"
- **Password:** Enter the common password for the SIP extensions from **Section 7.5**.
- **Description:** A desired description.
- Extension List: The SIP extensions from Section 7.5.

CTI Extension List Extension	Add Edit CTI Extension (F) (S	×) jed By Modiffied
	Description SIP extensions Extension List (Separate each group by a comma) 200-201	
	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.	
	deletr	e Add CTI Extension

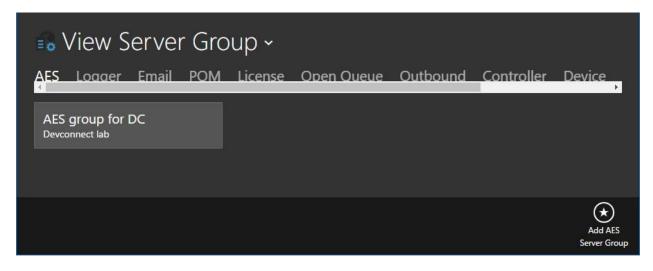
7.8. Administer Servers

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".



7.8.1. AES Server

The **View Server Group** screen is displayed. 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. Note that an AES server group is required to be configured.



7.8.2. Open Queue Server

Select **Open Queue** from the top menu, followed by **Add Open Queue** from bottom of screen (not shown).

🔒 Vie	w Ser	ver G	iroup ~						
AES Lo	aaer En	nail PC	M Licen	se Op	en Oueue	Outbo	und Co	ntroller	Device
Processor Name	Server IP	Enabled	Description	Web Service Port	AES Server Group	Created By	Created	Modified By	Modified
No items									

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 7.8.1**.
- CTI Extension Group: Select the multimedia device group name from Section 7.7.

AES Logger Eme	Add Edit Open C Details sip	Queue Server 🕞	∢	ontroller	Device
Processor Server IP E Name	Enabled Yes	UUIPrefix OQ			
	Processor Name	Web Service Port			
	Open Queue Server 1	8790			
	Server IP	Logfile Size KB			
	10.64.101.206	10000			
	Description	Maximum Log Archives			
	Open Queue Server 1	1			
	AES Server Group	CTI Extension Group			
	\bigcirc AES group for DC \bigcirc	Q DevConnect_SIP_M ↔			
	Snapshot Phantom Interval	Phantom Busy Error Interval			
	10	5			

Solution & Interoperability Test Lab Application Notes ©2017 Avaya Inc. All Rights Reserved. 34 of 48 CTS-OQ-SM7 Select the **SIP** tab. For **Server** and **Domain**, enter the IP address of CT Suite Communication Server. For **Port**, enter the CT Suite SIP entity link port number from **Section 6.3.1**.

E View Serv	Add Edit Open Que Details sip	ue Server 🖪 💌	ntroller	Device
Processor Server IP E Name	Server 10.64.101.207	Port 5060	Modified By	
Open Qu 10.64.101 tr	Domain 10.64.101.207 Call Invite Time Out		, admin	
	3600			Add Open Queue

7.8.3. 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	Servei	r Group) ~					
M License	Open Qı	ueue Outl	bound Co	ontroller	Device	Monitor	Chat	Details
Processor Name	Server IP	Enabled	Description	Created By	Created	Modifi	ied By	Modified
								H 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.

■o View Sei M License Op	Add Edit Chat Serve	er 🖲 🗵	or Chat Details
Processor Server I Name	Enabled Yes Processor Name Chat Server for DC	Logfile Size KB 10000 Server IP 10.64.101.206	D 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.

	V Servei			ntroller D	evice 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 Ch Server

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

🔒 Vie	ew Chat	Server	•				
Chat Qu	ieues Detai	ls					
ld	Name	Description	Enabled	Created By	Created	Modified By	Modified
No items							
							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:
- A descriptive name. • Description: A desired description.
- Media Groups Set Item: Select the pertinent pre-existing media group.

The Chat VDN extension number from Section 5.8.

- Select the pertinent pre-existing holiday schedule group. • Holiday Schedule Group:
- **CTIExtension Limit:**
- The number of CTI extensions from Section 7.7. • Minutes To Close Idle Session: Enter the desired interval.

∎o View Cha Chat Queues De	Add Edit Chat Qu	ueue 🕞 (AGENTS DAILY	×
	Enabled Route	VDN Id	odified By
	Yes 670	00	
	Name	Description	
	Sales Chat	Sales Chat	
	Priority	Chat Server	
	Medium	♥ Q Chat Server for DC (÷
	Media Groups Set Item	Holiday Schedule Group	
	Chat group for DC	🕀 aus (÷
	CTIExtension Limit	Minutes To Close Idle Session	
	2	30	

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Select the **AGENTS** tab. Follow reference [6] to select the pertinent pre-existing agents. In the compliance testing, two agents below were selected.

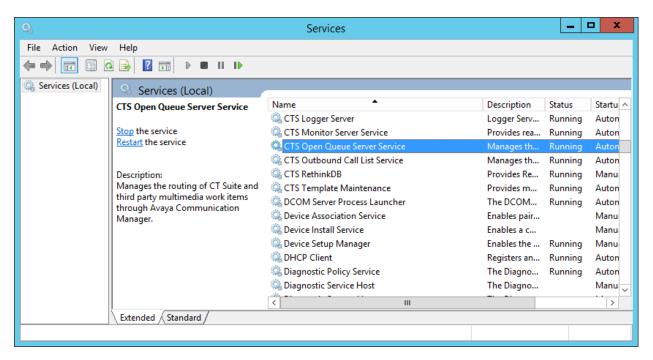
∎o View Ch Chat Queues D	Add Edit C	hat Queue	⊕ 🗴 ILES CA		
ld Name				dified By	
5 Sales Ch	First Name	Last Name	User Name		
	Tester1	Lab	tester1	1	
	Tester2	Lab	tester2		
			+ Add Agent		+ Add Chat
					Queue

Select the **DAILY SCHEDULES** tab. Follow reference [6] to select the pertinent pre-existing daily schedule, in this case "Daily – Sales".

Chat Queues De	Add Edit Chat Queue	∢	lified By	Modified
5 Sales Chai	Daily Schedules Daily - Sales			
	(+)		
	Ado	d Daily nedule		Add Chat Queue

7.9. 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, Session Manager, and CT Suite.

8.1. Verify Avaya Aura® Communication Manager

From the SAT interface, verify the status of the SIP trunk groups by using the "status trunk n" command, where "n" is the trunk group number administered in **Section 5.2**. Verify that all trunks are in the "in-service/idle" state as shown below.

```
status trunk 53
                                         TRUNK GROUP STATUS
Member Port Service State Mtce Connected Ports
                                                    Busv
0053/001 T00156 in-service/idle no
0053/002 T00156 in-service/idle
0053/003 T00158 in-service/idle
0053/004 T00159 in-service/idle
0053/005 T00160 in-service/idle
0053/006 T00161 in-service/idle
0053/007 T00162 in-service/idle
                                                    no
                                                    no
                                                    no
                                                     no
                                                     no
                                                     no
0053/008 T00163 in-service/idle
                                                     no
0053/009 T00164 in-service/idle
                                                    no
0053/010 T00165 in-service/idle
                                                     no
```

Verify the status of the SIP signaling groups by using the "status signaling-group n" command, where "n" is the signaling group number administered in **Section 5.3**. Verify that the **Group State** is "in-service", as shown below.

```
status signaling-group 53
STATUS SIGNALING GROUP
Group ID: 53
Group Type: sip
Group State: in-service
```

8.2. Verify Avaya Aura® Session Manager

From the System Manager home page (not shown), select **Elements** \rightarrow **Session Manager** to display the **Session Manager Dashboard** screen (not shown).

Select Session Manager \rightarrow System Status \rightarrow SIP Entity Monitoring from the left pane to display the SIP Entity Link Monitoring Status Summary screen. Click the CT Suite entity name from Section 6.3.1.

AVA Aura [®] Sys	VA tem Manager 7.0								Last Go
Home	Session Manager ×								
🔻 Sessi	ion Manager 🛛 🕯	Home	e / Elements / Session	Manager /	System Sta	atus / SIP Er	tity Monit	oring	
Da	shboard								
Se	ssion Manager	SIP	Entity Link Mo	onitorin	g Stat	us Sum	mary		
Ad			age provides a summary	of Session	Manager S	IP entity link			
		nonito	oring status.						
	ofile Editor	SI	P Entities Status for	All Monite	oring Ses	sion Manag	er Instar	ices	
//. etcess	twork nfiguration	1							
1	vice and Location		Run Monitor						
010 2.08800	nfiguration	1 I	tems Refresh						Filte
▶ Ар	plication						Monito	red Entities	
Co	nfiguration		Session Manager	Туре	Down	Partially	Up	Not Monitored	Deny
⊤ Sy	stem Status		DR-SM7	Core	6	Up	6	0	0
	SIP Entity		DR SHI	core		Ū	U	0	0
_	Monitoring								
	Managed Bandwidth Usage								
0	Security Module								
	Status								
	SIP Firewall Status	Se	lect: All, None						
	Registration Summary	All	Monitored SIP Entit	ties					
	User Registrations		Run Monitor						
	Session Counts	12	Items Refresh						Filte
	User Data Storage	12	Trenesh						Filte
► Sy	stem Tools					SIP Entity Nan	1e		
▶ Pe	rformance		CTSuite						

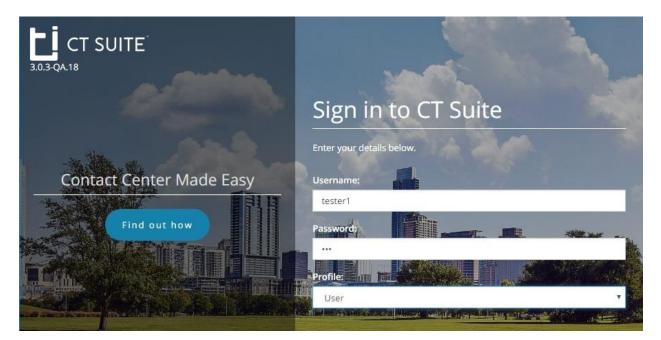
The **SIP Entity, Entity Link Connection Status** screen is displayed. Verify that the **Conn Status** and **Link Status** are "UP", as shown below.

Aura [®] Sys	tem Manager 7.0							
Home	Session Manager	×						
▼ Sess	ion Manager	Home / Elements / Se	ession Manager /	System 9	Status / SIP	Entity Monito	oring	
Se Ad Co Pro	shboard ssion Manager ministration mmunication ofile Editor stwork	SIP Entity, Ent This page displays detail Session Manager instan All Entity Links to	ed connection sta ces to a single SI	itus for al Pentity.				
⊧ De	nfiguration wice and Location nfiguration	Summary View	Status Details	for the s	selected Ses	sion Manag	er:	
	plication	1 Items Refresh						
	nfiguration stem Status	Session Manager	SIP Entity Resolved IP	Port	Proto.	Deny	Conn. Status	Reason Code
	SIP Entity Monitoring	O DR-SM7	10.64.101.207	5060	UDP	FALSE	UP	200 0

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 the ACD on Communication Manager.

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

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⊢ i	SOFTPHONE					•
Ľ	C Enter nur				HOLD	00:00
-	Enter nur				HOLD	00:00
	C Enter nur				HOLD	00:00
,	Extension:	65001 Tester1 Lab				
10.00E	CONFERENCE					
	AgentID	65881	🔵 Auto-In	🔵 Manu	al-In	
-	Password		AVAILAB	LE ACI	~	LOGOUT
œ	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.

	SOFTPHONE					•
Ľ	CEnter 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		AVAILAE	LE AC	N	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 7.8.3**. Click **Start Chat**.

CTINTEGRATIONS	Live 24 / 7 —
CONTACT TECHNOLOGY	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 SIP chat
	Department:*
	Sales Chat
	Start Chat

Verify that the top section of the available agent's screen is updated to reflect a trunk as calling party number, along with name of chat VDN from **Section 5.8**, as shown below. Click **ANSWER**.

	SOFTPHONE				Û
Ľ	T523#1		ANSWER		00:02
	C Enter numb	per			00:00
	C Enter numb			HOLD	00:00
P	Extension: 65	001 Tester1 Lab			
		; V: CT Suite Chat; S: Chat Skill			
		OQ WebChat 4 618			

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

T523#1	END	HOLD	01:27	AgentID	65881		
Enter number			00:00	Password			
Enter number			00:00	AUX Reason	Select reason co	de	
Extension: 65001 Tester1 Lab					Auto-In Ma	anual-In	
CONFERENCE ; V: CT Suite Chat; S: C	That Skill				AVAILABLE		
					01:24		
OQ WebChat 4 618	ŝ						
DevConnect Avava				Fir	st Na 🔻 I	F-Mail	
DevConnect Avaya					st Na 🝸 L vConnect Avaya		
DevConnect Avaya			🖹 Temp	De			ų.
	PM		Temp	De			ų.
DevConnect Avaya Today 2:22 How do I verify SIP chat	РМ		Temp	plates	vConnect Avaya		ų.
DevConnect Avaya Today 2:22 How do l verify SIP chat				olates	vConnect Avaya	a devconnect@xxx.com	ų.
DevConnect Avaya Today 2:22 How do I verify SIP chat Conversation Notes	PM History	Attachm		olates	vConnect Avaya	a devconnect@xxx.com	-
DevConnect Avaya Today 2:22 How do I verify SIP chat		Attachm		olates	y ail	devconnect@xxx.com	-

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® Session Manager 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.** Administering Avaya Aura® Session Manager, Release 7.0.1, Issue 2, May 2016, available at <u>http://support.avaya.com</u>.
- **4.** Administering Avaya Aura® System Manager for Release 7.0.1, Release 7.0.1, Issue 4, April 2017, available at <u>http://support.avaya.com</u>.
- **5.** 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 <u>http://support.avaya.com</u>.
- **6.** *CT Admin Administrator's Guide*, CT Suite v3.0, 5/30/17, available at <u>https://www.ctintegrations.com/docs</u>.
- 7. *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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