

Avaya Solution & Interoperability Test Lab

# Application Notes for CTIntegrations CT Suite Desktop POM Agent 3.3 with Avaya Proactive Outreach Manager 3.1.1 – Issue 1.1

## Abstract

These Application Notes describe the configuration steps required to integrate the CTIntegrations CT Suite Desktop POM Agent with Avaya Proactive Outreach Manager. The CT Suite application is a CTI based contact center solution providing third party call control and multimedia channels.

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 to integrate the CTIntegrations developed CT Suite Desktop POM Agent (CT Desktop) with Avaya Proactive Outreach Manager (POM). The CT Desktop uses the Agent Desktop API of POM to integrate agent functionality and manage agents using an agent desktop. Agents log on to Avaya POM via the CT Desktop application using the POM Agent Plugin. All CT Suite user configurations including POM server configurations are stored in the CT Suite server. CT Desktop with POM agent is a thick client application that is installed on a Windows based agent desktop.

During the compliance testing, Avaya POM was configured as CCElite to allow communications with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Service. Avaya POM was installed on Avaya Aura® Experience Portal. Calls from Experience Portal were routed via a SIP trunk to Avaya Aura® Session Manager.

These Application Notes focus on the integration between CT Suite and POM, 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 tests were performed manually. General test approach was to ensure that the features provided by POM Agent Desktop API were implemented on CT Desktop .

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

## 2.1. Interoperability Compliance Testing

Interoperability compliance testing included feature and serviceability testing. The feature testing focused on the following functionality:

- Agent Login and Logout.
- Agent state: Ready, Not Ready and changing Aux Reason code.
- Nailing the agent and new call notifications.
- Updating contact details.
- Callbacks.
- Adding contacts to Do Not Call (DNC) lists.
- Call features such as: hold/unhold, Consult, Transfer and Conference.

The serviceability testing focused on verifying the ability of the CT Suite server and Avaya POM server to recover from adverse conditions, such as power failures and network disconnects.

### 2.2. Test Results

All test cases were executed and verified.

#### 2.3. Support

For technical support on the CTIntegrations CT Desktop, contact CTIntegrations via phone, email, or internet.

- **Phone:** +1 877 449 6775
- Email: <u>info@ctintegrations.com</u>
- Web: <u>http://www.ctintegrations.com</u>

## 3. Reference Configuration

Figure 1 illustrates the configuration used for testing. In this configuration, Avaya Aura® Experience Portal interfaces with Avaya Aura<sup>®</sup> Session Manager via SIP. The CT Suite server hosted the CT Suite configurations for agents and servers. The CT Desktop was used as the POM Agent desktop.

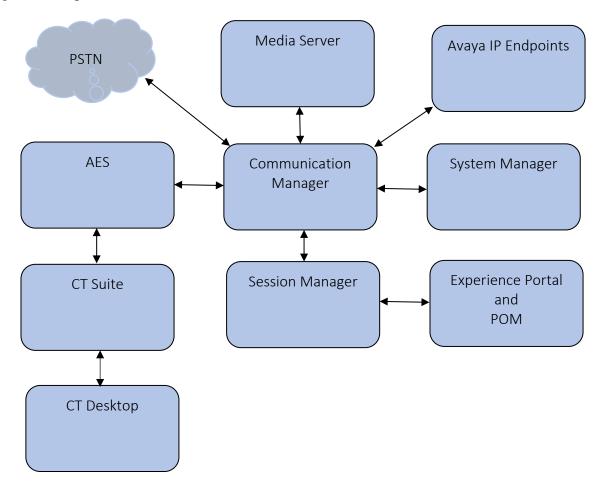


Figure 1: Configuration with Avaya Proactive Outreach Manager with CTIntegrations CT Suite

### 3.1. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® Experience Portal running on Virtualized Environment	7.2.2
Avaya Proactive Outreach Manager	3.1.1
Avaya Aura® Application Enablement Services in Virtual Environment	8.0.1.0.2.5-0
Avaya Aura® Media Server in Virtual Environment	v.8.0.0.183
Avaya Aura® Session Manager in Virtual Environment	8.0.1.1.801103
Avaya Aura® System Manager in Virtual Environment	8.0.1.1.039340
Avaya Aura® Communication Manager in Virtual Environment	8.0.1.1.0-FP1SP1
Avaya G450 Media Gateway	40.20.1
Avaya 96x1 IP Deskphones (H.323)	6.8102
Avaya 96x1 IP Deskphones (SIP)	7.1.5.0.11
Avaya J169 IP Deskphone (H.323)	6.8102
Avaya Agent for Desktop	1.7.22.1
CTIntegrations CT Suite server running on Windows Server 2016	3.3
CTIntegrations CT Desktop POM Agent running on Windows 10 Enterprise	3.3

## 4. Configure Avaya Aura<sup>®</sup> Communication Manager

This section provides the procedures for configuring Communication Manager via the System Access Terminal (SAT).

#### 4.1. Administer Hunt Groups

This section provides the Hunt Group configuration for the call center agents. This hunt group will later be configured in Avaya POM.

Administer a skill group to be used for routing of outbound calls 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.
- "y" • ACD:
- "y" • Queue: "v"
- Vector:

add hunt-group 1	HUNT	GROUP	ge	1 of	4
Group Number:	1	ACD?	у		
Group Name:	Skill 1	Queue?	У		
Group Extension:	59001	Vector?	У		
Group Type:	ucd-mia				
TN:	1				
COR:	1	MM Early Answer?	n		
Security Code:		Local Agent Preference?	n		
ISDN/SIP Caller Display:					
Queue Limit:					
Calls Warning Threshold:	Port:				
Time Warning Threshold:	Port:				

On Page 2 of the Hunt Group form, enable the Skill option.

```
add hunt-group 1
                                                            Page
                                                                   2 of
                                                                          4
                                 HUNT GROUP
                   Skill? y
                                Expected Call Handling Time (sec): 180
                                 Service Level Target (% in sec): 80 in
                     AAS? n
20
                Measured: both
    Supervisor Extension:
     Controlling Adjunct: none
       VuStats Objective:
  Multiple Call Handling: none
Timed ACW Interval (sec):
                                   After Xfer or Held Call Drops? n
```

## 4.2. Administer Agent IDs

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

In this configuration, agent login IDs 55001 and 55002 were used.

change agent-loginII			Page 2 of 2
	AGENT L	OGINID	
Direct Agent S	Skill: 1	Service (	Objective? n
Call Handling Prefer	rence: skill-level	Local Call Pr	reference? n
SN RL SL	SN RL SL		
1:1 1	16:	31: 46:	
2:2 1	17:	32: 47:	
3:3 1	18:	33: 48:	
4:4 1	19:	34: 49:	

## 4.3. Administer Stations

This section provides the extension that agents will log on.

Using the add station n command, add a station for each extension in the call center as shown below. In this configuration, station 50001 and station 50001 were created.

```
add station 50001
                                                              Page 1 of
                                                                            5
                                     STATION
Extension: 50001
                                         Lock Messages? n
                                                                        BCC: 0
                                       Security Code: *
Coverage Path 1: 98
Coverage Path 2:
    Type: 9641
                                                                         TN: 1
    Port: S00054
                                                                         COR: 1
                                 Coverage Path
Hunt-to Station:
    Name: H.323 Station 1
                                                                        COS: 1
                                                                       Tests? y
Unicode Name? n
STATION OPTIONS
                                           Time of Day Lock Table:
             Loss Group: 19 Personalized Ringing Pattern: 1
           Speakerphone: 2-way
                                            Message Lamp Ext: 50001
                                             Mute Button Enabled? y
       Display Language: english
                                                   Button Modules: 0
 Survivable GK Node Name:
         Survivable COR: internal
                                                Media Complex Ext:
  Survivable Trunk Dest? y
                                                     IP SoftPhone? y
                                               IP Video Softphone? n
                              Short/Prefixed Registration Allowed: default
                                              Customizable Labels? y
```

**Note**: Please note that the configuration of SIP trunk and routing between Communication Manager and Session Manager was preconfigured and is not shown in this document.

## 5. Configure Avaya Aura® Experience Portal and Proactive Outreach Manager

This section covers the administration of Experience Portal. Configuration for Avaya POM is also covered in the section as Avaya POM was co-resident on Experience Portal.

Experience Portal is configured via the Experience Portal Manager (EPM) web interface. To access the web interface, enter http://[IP-Address]/ as the URL in an internet browser, where IP-Address is the IP address of the EPM. Log in using the Administrator user role. The screen shown below is displayed.

**Note:** Some of the screens in this section are shown after the Experience Portal had been configured. Don't forget to save the screen parameters as you configure Avaya Aura® Experience Portal.

AVAYA	Welcome, epadn Last logged in today at 2:20:33 PM P
	Portal 7.2.2 (ExperiencePortal) fi Home ?- Help 🔘 Logof
Expand All   Collapse All	
▼ User Management	You are here: Home
Roles	
Users	Avaya Aura® Experience Portal Manager
Login Options	
▼ Real-time Monitoring	
System Monitor	Avaya Aura® Experience Portal Manager (EPM) is the consolidated web-based application for administering Experience Portal. Through the
Active Calls	EPM interface you can configure Experience Portal, check the status of an Experience Portal component, and generate reports related to
Port Distribution	system operation.
▼ System Maintenance	
Audit Log Viewer	
Trace Viewer	
Log Viewer	Installed Components
Alarm Manager	-
▼ System Management	Media Processing Platform
Application Server	
EPM Manager	Media Processing Platform (MPP) is an Avaya media processing server. When an MPP receives a call from a PBX, it invokes a VoiceXML (or
MPP Manager	CCXML) application on an application server. It then communicates with ASR and TTS servers as necessary to process the call.
Software Upgrade	
System Backup	Email Service
<ul> <li>System Configuration</li> </ul>	Email Service is an Experience Portal feature which provides e-mail capabilities.
Applications	
EPM Servers	HTML Service
MPP Servers	HTML Service is an Experience Portal feature which supports web applications with HTML5 capabilities. It includes support for browser based
SNMP	FIME Service is an experience Portaneature which supports web applications with HIMES capabilities. It includes support for browser based services for mobile devices.
Speech Servers	services for mobile devices.
VoIP Connections	
Zones	Proactive Outreach Manager
▼ Security	Avaya Proactive Outreach Manager (POM) provides a solution for unified, multichannel, inbound and outbound architecture, with the capabil
Certificates	to communicate through different channels of interaction, from Short Message Service (SMS) to e-mail to the traditional voice.
Licensing	
▼ Reports Standard	SMS Service
Custom	SMS Service is an Experience Portal feature which provides SMS capabilities.
Scheduled	Sms Service is an experience Portai reature which provides sms capabilities.
Scheduled .	

### **5.1. Configure a SIP VoIP Connection**

To configure a SIP connection, navigate to the **VoIP Connections** page and then click on the **SIP** tab (not shown) and select **Add**. On the **Change SIP Connection** page, configure as follows:

- Set Enable to Yes.
- Set **Proxy Transport** to **TCP**.
- For **Proxy Servers**:
  - Type in the Session Manager SIP interface IP address in Address.
  - Type in the Session Manager SIP Port in **Port**.
- Type in **Listener Port** to **5060**.
- Type in **SIP Domain** to **avaya.com**, as configured in Session Manager.
- Type in a value for Maximum Simultaneous Calls, as needed.
- Select All Calls can be either inbound or outbound.

	ortal 7.2.2 (ExperiencePortal)	
Expand All   Collapse All	You are here: Home > System Configuration > VoIP Connections > Change SIP Connection	1
<ul> <li>User Management</li> </ul>		
Roles Users	Change SIP Connection	
Login Options	-	
Real-time Monitoring		
System Monitor	Use this page to change the configuration of a SIP connection.	
Active Calls		
Port Distribution	Name: asm8	
System Maintenance		
Audit Log Viewer Trace Viewer	Enable: 💿 Yes 🔿 No	
Log Viewer	Proxy Transport: TCP V	
Alarm Manager	Proxy mansport. TCP V	
System Management	Proxy Servers      DNS SRV Domain	
Application Server		
EPM Manager	Address Port Priority Weight	
MPP Manager Software Upgrade	10.64.110.135 5060 0 0 Remove	
System Backup		
System Configuration	Additional Proxy Server	
Applications	Listener Port: 5060	
EPM Servers	Listener Port: 5060	
MPP Servers SNMP	SIP Domain: avaya.com	
Speech Servers		
VoIP Connections	P-Asserted-Identity:	
Zones	Maximum Redirection Attempts: 0	
Security	·	
Certificates	Consultative Transfer: <ul> <li>INVITE with REPLACES</li> <li>REFER</li> </ul>	
Licensing Reports		
Standard	SIP Reject Response Code: O ASM (503) SES (480) Custom 503	
Custom	CID Times	
Scheduled	SIP Timers	
Multi-Media Configuration	T1: 250 milliseconds	
Email HTML		
SMS	T2: 2000 milliseconds	
POM	B and F: 4000 milliseconds	
POM Home		
POM Monitor	Call Capacity	
	Maximum Simultaneous Calls: 50	
	Maximum Simultaneous Calls: 50	
	All Calls can be either inbound or outbound	
	O Configure number of inbound and outbound calls allowed	

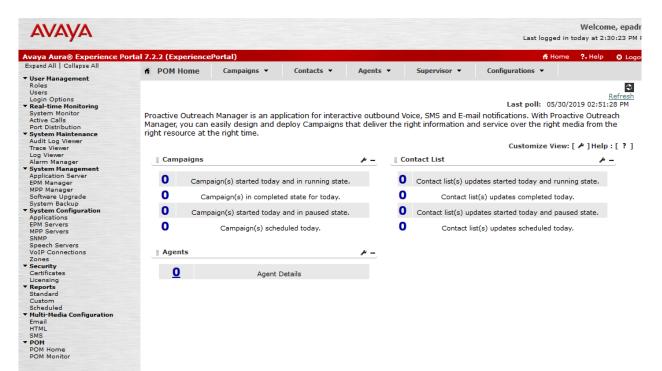
## 5.2. Verify Applications

Note that the applications needed for Avaya POM were configured during Avaya POM installation. To view the list of application, navigate to **System Configuration**  $\rightarrow$  **Applications**.

aya Aura® Experience Porta	al 7.2.2	(ExperiencePortal)						<b>ff</b> (
cpand All   Collapse All			e					
User Management	You ar	e here: <u>Home</u> > System Con	figuration	Applications				
Roles		11 A1						
Jsers	Ар	plications						
Login Options								
Real-time Monitoring	This	and displays the application		a auroathu daala	und on the Europianae Destal au			
System Monitor	i nis p	page displays the application	is that ar	e currentiy deplo	yed on the Experience Portal sys	tem.		
Active Calls								
Port Distribution								
System Maintenance			_				_	
Audit Log Viewer		·· <b>^</b>	e	<b>-</b>	1107			
race Viewer		Name	Enable	Туре 📮	URI	Launch	ASR	i i s
.og Viewer Alarm Manager								
ystem Management					https://10.64.110.50:7443		No	English(USA
pplication Server		PomDriverApp	Yes	POM:Driver	/PomDriverApp/ccxml/start.jsp	Outbound	ASR	en-US Jenn
PM Manager					/PomDriverApp/ccxmi/start.jsp		ASK	F
IPP Manager					https://10.64.110.50:7443		Ne	
oftware Upgrade		Nailer	Yes	POM:Nailer		Outbound	NO	No TTS
System Backup					/Nailer/ccxml/start.jsp		ASR	
System Configuration					https://10.64.110.50:7443	Inbound	No	
Applications		AvayaPOMSMS	Yes	SMS	/AvavaPOMSMS/Start	Default	ASP	No TTS
PM Servers					/Avayaromono/otait	Default	ASK	
MPP Servers					https://10.64.110.50:7443		No	
SNMP		AvayaPOMNotifier	Yes	POM:Application	/AvayaPOMNotifier/Start	Outbound	ASR	No TTS
Speech Servers								
/oIP Connections		AvavaPOMEmail	Yes	Email	https://10.64.110.50:7443	Inbound	No	No TTC
ones		AvayaPOMEITIall	res	Email	/AvayaPOMEmail/Start	Default	ASR	No TTS
ecurity Certificates					https://10.64.110.50:7443			
icensing			Yes	DOM: And Easting		out the second	No	
eports	_	AvayaPOMAnnouncement	res	POM: Application	/AvayaPOMAnnouncement	Outbound	ASR	NOTIS
tandard					/Start			
		AvavaPOMAgent	Yes	POM: Application	https://10.64.110.50:7443	Outbound	No	No TTS
Custom					/AvavaPOMAgent/Start			

## 5.3. Configure Avaya POM

When Avaya POM is installed on Experience Portal, a sub menu is added to EPM. On the left pane, select **POM Home** under **POM**. All configurations for Avaya POM are performed from this page, **POM Home**.



## 5.4. Add POM Server

From **POM Home**, hover over **Configurations** and select **POM Servers** (not shown); click **Add** to add Avaya POM server. On **Add POM Server** page, type in a name in **POM Server Name** and type in Avaya POM IP Address in **POM Server IP Address** and Select **Continue**. Note that since Avaya POM was installed on the same server as Experience Portal, IP Address of Experience portal was used.

AVAYA					
Avaya Aura® Experience	Portal 7.2.2 (Experience	Portal)			
Expand All   Collapse All	POM Home	Campaigns 🔻	Contacts 🔻	Agents 🔻	Supervisor 🔻
▼ User Management				. igenes	
Roles Users	Add POM Sei	rver			
Login Options  Real-time Monitoring	Use this page to add	a new POM server.			
System Monitor Active Calls	POM Server Name				
Port Distribution	POM Server IP Addr	ess			
▼ System Maintenance Audit Log Viewer Trace Viewer	Continue Canc	el Help			
Log Viewer Alarm Manager					
* System Manager EPM Manager MPP Manager Software Upgrade System Backup					

On the **Edit POM Server** page check box for **Trust this certificate** (not shown) and select **Save**. During compliance test, POM was pre-configured. The screen below displays the POM Server that was configured.

Αναγα	
Avaya Aura® Experience	Portal 7.2.2 (ExperiencePortal)
Expand All   Collapse All	H POM Home     Campaigns •     Contacts •     Agents •     Supervisor
▼ User Management Roles Users	Edit POM Server
Login Options	Use this page to change the configuration of a POM Server.
<ul> <li>Real-time Monitoring System Monitor Active Calls</li> </ul>	POM Server Name pom
Port Distribution	Host Address: 10.64.110.50
Trace Viewer Log Viewer	POM Certificate
Alarm Manager System Management Application Server EPM Manager MPP Manager Software Upgrade System Backup	Owner: CN=epms.avaya.com, O=Avaya, OU=POM Issuer: CN=epms.avaya.com, O=Avaya, OU=POM Serial Number: 950447c4a2961f93 Valid from: 03/25/2019 02:26:30 PM until: 06/23/2022 02:26:30 PM Certificate fingerprints MD5: 46:b9:a8:5e:c9:39:62:4c:e6:73:5e:7d:56:4d:13:23
System Configuration     Applications     EPM Servers	MD5: 46:D9:a8:56:C9:39:62:4C:66:/3:56:/d156:4d:13:23 SHA: 38:c5:c1:2d:97:71:20:0a:c9:3d:da:d7:2e:25:b5:71:59:e4:fa:5a
MPP Servers SNMP	Categories and Trace Levels >
Speech Servers VoIP Connections	WARNING: POM servers will need to be restarted for changes to take effect.
Zones <b>Security</b> Certificates Licensing	Save Apply Cancel Help

### 5.5. Configure POM Server

Outbound settings will need to be configured for Avaya POM to place outbound calls. Navigate to **Configurations**  $\rightarrow$  **POM Servers**  $\rightarrow$  **Outbound Setting** (not shown). On the **Voice Servers** Page, click on the name of Voice Server; EPM, in this case.



On the Edit Voice Server page, type in the user Name then Password, as configured for Experience Portal. This username and password are obtained from the Outcall section of System Configuration  $\rightarrow$  EPM Server  $\rightarrow$  EPM Settings.

AVAYA Avaya Aura® Experience	Portal 7.2.2 (Experience	Portal)			
Expand All   Collapse All	🕈 POM Home	Campaigns 🔻	Contacts 🔻	Agents 🔻	Superviso
<ul> <li>User Management Roles Users</li> </ul>	Edit Voice Se	erver			
Login Options   Real-time Monitoring	This page allows you	to enter Voice Serve	er password for out	ound calling.	
System Monitor Active Calls	Name	E	EPM		
Port Distribution    System Maintenance	IP Address	e	epms.avaya.com		
Audit Log Viewer Trace Viewer	User Name	•	* admin		
Log Viewer Alarm Manager	Password		*		
<ul> <li>System Management Application Server</li> <li>EPM Manager</li> </ul>	Save Car	icel Help			
MPP Manager Software Upgrade					
System Backup					
<ul> <li>System Configuration Applications EPM Servers MDD Servers</li> </ul>					

## 5.6. Configure CTI

From POM Home, navigate to Configurations  $\rightarrow$  CC Elite Configurations and select Add CTI Detail under CTI Configuration (not shown). On the Add CTI Detail (not shown) page, configure as follows:

- Type in a name in **CTI group name**.
- Type in Communication Manager IP Address in CM IP address.
- Type in username and password in CM Login and CM Password.
- Type in AES IP Address in AES IP address.
- From the **CTI group role** drop down menu, select **Active**.

Screen capture below displays the configuration that was used during the compliance test.

Avaya Aura® Experience	Portal 7.2.2 (ExperiencePo	rtal)			
Expand All   Collapse All	POM Home	Campaigns 🔻	Contacts -	Agents 🔻	Supervisor 🔻
▼ User Management Roles Users	Edit CTI Detai				
Login Options • Real-time Monitoring	This page allows editing	-	etails.		
System Mod <sup>111</sup> Active Calls Port Distribution	- Edit CTI Configura	tion			
▼ <u>System Maintenance</u> Audit Log Viewer Trace Viewer	* CTI group name	aes8			
Log Viewer Alarm Manager	* CM IP address	10.64.110.13	31		
<ul> <li>System Management Application Server</li> </ul>	* CM login	epm			
EPM Manager MPP Manager	* CM password	•••••			
Software Upgrade System Backup	* AES IP address	10.64.110.13	32		
▼ System Configuration	AES Secure Conne	ction			
Applications EPM Servers MPP Servers SNMP Speech Servers	CTI group role Save Cancel	Active V			

On the **Configure CTI setup details, CMS setup details and POM Skills** page (not shown), select **Add Skill**. Type in the skill as configured in **Section 4.1** for **CCElite Skill Number**, type in a name in **POM Skill Name** and select **Outbound** from the **Skill Type** drop down menu.

AVAYA						Last log	ا ged in toda
Avaya Aura® Experience	Portal 7.2.2 (Experience	Portal)				ń	Home
Expand All   Collapse All	# POM Home	Campaigns 🔻	Contacts 🔻	Agents 🔻	Supervisor 🔻	Configurations 🔻	
▼ User Management Roles Users Login Options ▼ Real-time Monitoring	Create POM This page allows cre		database and assoc	iating it with CC E	Elite skill. For skill typ	e "Outbound", "CC Elite	Skill Num
System Monitor Active Calls	CC Elite Skill Number	PC	)M Skill Name	1	Skill Type Paran	neter to Monitor for E	Blending
Port Distribution • System Maintenance Audit Log Viewer Trace Viewer Log Viewer Alarm Manager	1	Skill 1			Dutbound 🗸 Selec	t only for Inbound	~

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## 5.7. Configure Contacts

From **POM Home**, navigate to **Contacts**  $\rightarrow$  **Contact Lists** (not shown) and select **Add**. Type in a name in **Name** and brief **Description** and select **Save**.

AVAYA Avaya Aura® Experience	Portal 7 2 2 (Experience	Portal)		
Expand All   Collapse All   User Management	A POM Home	Campaigns 🔻	Contacts 🔻	Agents
Roles Users Login Options ▼ Real-time Monitoring	Add New Co This page allows you	ntact List 1 to add new Contact L	ist.	
System Monitor Active Calls Port Distribution	Name	POMContacts		
<ul> <li>System Maintenance         Audit Log Viewer         Trace Viewer         Log Viewer         Alarm Manager     </li> </ul>	Description			
▼ System Management Application Server EPM Manager MPP Manager Software Upgrade System Backup	Save Cance	l Help		:

On the next page, select **Upload Contacts now** (not shown). Click on **Browse** to browse to the location of .csv for the contacts and select **Upload**.

Contact	Lists		\$ <u>Refres</u>	<u>sh</u>
	lays all the Contact Lists. Depending on the user role, you st. If organizations are enabled, you can associate Contac	ı can add, change, delete and empty Contact List. You can see Co t List with organization.	ontacts	
	Upload Contacts		<b>X</b> 1 P	M
Contact List	the file will be imported into the selected Contact List.		^	
POMContacts	File to upload: Browse No file selected.		Û	
* In Progress Add H	- Advanced Options			
	Empty Contact List before import			
	Automatically update time zone for phone numbers			
	Check phone numbers for reject patterns			
	Check phone numbers for phone formats rule			
	Check phone numbers/E-Mails for DNC			
	On duplicate record found	Update existing v		
	Upload Cancel Help			
	Calleer Help		~	
	<		>	

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## 5.8. Configure Campaign

#### 5.8.1. Configure Campaign Strategy

From **POM Home**, navigate to **Campaigns**  $\rightarrow$  **Campaign Strategy** and select **Add** (not shown). Type in a name as shown below and select **Continue**.

Speech Servers VoIP Connections Zones	Name	POMPreview	
✓ Security Certificates Licensing	Use template		
▼ Reports Standard	Template	Select	~
Custom Scheduled	Continue	Cancel	
<ul> <li>Multi-Media Configuration</li> <li>Email</li> </ul>			

The **Campaign Strategy Editor** page will pop up**.** Configure a **Campain Strategy** as needed. Below is an example of the strategy configured during compliance testing.

HIDE TOOL BOX SHOT	W SOURCE	DRAFT COPY ASTE DELETE	
Selected Node: Task	Campaign Strategy: POMPreview	Action on AMD None	
Restrictions	▼ <u>∧</u> Campaign Strategy	APPLICATIONS	
Address	v @Handler (initial)	Driver Application PomDriverApp Nailer Application Nailer	
Sender's Address	V 🔄 Call	Nuisance Call Application AvayaPOMAnnounce	emer
Result Processors	Address	On Hold Application AvayaPOMAnnounce	emer
	<b>Result Processors</b>	PACING PARAMETERS	
	🔻 🖙 Result (Call Answered)	Call Pacing Type Preview	
	Agent	Timed Preview No Preview Time (Sec)	
		Can Cancel Preview Disable	
		Min. Agents 1	
		Max. Agents 2	
		Agent Outbound Skill Skill 1	
		ACW Time (Sec) 20	
		# of ACW extensions 0 Default Completion code Closure	
		Closure	

#### 5.8.2. Configure Campaign Manager

From **POM Home**, navigate to **Campaigns**  $\rightarrow$  **Campaign Manager** and select **Add** (not shown). Type in a name in **Name** field and select **Continue**.

	Advanced	
	Add a Campaign	×
Show 50 🗸   Page: 1/1	Create Campaign	0
Name Type Camp	You can start creating a Campaign either by using already created Campaign as template or create new altogether.	backs Actions
POMExpertCallRatio Finite POME:		🖥 👍 ኬ 💽 🗊
POMPreviewCampaign Finite POMP	New Campaign	🖬 🆾 🗈 💌 🗊
POMProgresiveCampaign Finite POMP		🖥 🍐 🗈 💽 🗊
* In Progress means Campaign job ca	Continue Cancel Help	ping, stopped callback.
Add Help		

On the **Define Campaign** page, select the strategy added in previous section for **Campaign Strategy**. Select the contact list from **Section 5.7** and select **Finish** (not shown).

AVAYA	Last log
Avaya Aura® Experience Po	rtal 7.2.2 (ExperiencePortal) fi
Expand All   Collapse All	
▼ User Management Roles	Campaign Strategy
Users	
Login Options	Select a Campaign Strategy from the following list to be used in the Campaign. Click on the icons to create a new
<ul> <li>Real-time Monitoring</li> </ul>	Campaign Strategy, view details of a selected Strategy or refresh the current list.
System Monitor Active Calls Port Distribution	POMPreview V
▼ System Maintenance	
Audit Log Viewer	
Trace Viewer	Campaign type
Log Viewer	
Alarm Manager	
<ul> <li>System Management Application Server</li> </ul>	Finite     Infinite
EPM Manager	Do not associate any Contact List at start
MPP Manager	Bo not associate any contact list at start
Software Upgrade System Backup	
System Configuration	
Applications	Contact Record Assignment to Agent
EPM Servers	
MPP Servers	
SNMP	Attributes Agent ID
Speech Servers	
VoIP Connections	
Zones	
▼ Security	Contact List
Certificates	
Licensing	
▼ Reports Standard	From the following list select one or more Contact Lists to be used with this Campaign. Click on the icons next to the
Custom	list to create a new Contact List or refresh the current list.
Scheduled	POMContacts(Default)
<ul> <li>Multi-Media Configuration</li> </ul>	POMCOncacts(Default)
Email	
HTML	
SMS	
* POM	
POM Home	
POM Monitor	

### 5.9. Start POM Server

Once POM Server is completely created, start it by navigating to **Configurations**  $\rightarrow$  **POM Servers**  $\rightarrow$  **POM Manager** (not shown). On the **POM Manager** page, select the check box of Avaya POM server and click **Start**. Note that in the picture below POM server was already started, if it is stopped the **Start** button is available to start POM server.

Αναγα							Last logged in		n <b>e, epadmi</b> r 30:23 PM PD <sup>-</sup>
Avaya Aura® Experience	Portal 7.2.2 (Experienc	ePortal)					📌 Hom	e ?, Help	🕴 Logoff
Expand All   Collapse All	🕈 POM Home	Campaigns	▼ Cont	acts 🔻 🛛 A	gents 🔻	Supervisor 🔻	Configurat	tions 🔻	
▼ User Management Roles Users Login Options ▼ Real-time Monitoring System Monitor	<b>POM Manag</b> Use this page to ma		ervers connect	ed to this EPM.			Refresh		
Active Calls Port Distribution							Last poll:	05/30/2019 (	)3:00:32 PM
<ul> <li>System Maintenance Audit Log Viewer Trace Viewer Log Viewer</li> </ul>	POM Server Name		Campaign nager Status	Campaign Director Statu	Agent Manager Status	ActiveMQ Status	RuleServer Status	Kafka Server Status	Ports In Use
Alarm Manager System Management Application Server EPM Manager MPP Manager Software Unorade	✓ pom   1     Start   Stop	0.64.110.50 RU Help	NNING	MASTER	MASTER	MASTER	MASTER	RUNNING	0

## 6. Configure Session Manager

Configuration for Session manager is performed via System Manager. From a web browser, type in "<u>https://[IP-Address]/SMGR</u>", where IP-Address is the IP Address of System Manager. Log in using appropriate credentials.

Please note that configuration of each item is not shown in detail. In the following sections, screen captures of the configured items during compliance testing are shown. For details steps on configuration of each item, refer to Document [3].

Recommended access to System Manager is via FQDN.	
Go to central login for Single Sign-On	User ID:
If IP address access is your only option, then note that authentication will fail in the following cases:	Password:
First time login with "admin" account     Expired/Reset passwords	Log On Cancel
Use the "Change Password" hyperlink on this page to change the password manually, and then login.	Change Password

### 6.1. Configure Domain

Once logged in, select **Elements**  $\rightarrow$  **Routing** (not shown). On the left pane select **Domains**. Click **New** to add a new domain. For compliance testing, domain of **avaya.com** was added.

Aura® System Manager 8.0	占 Us	ers 🗸 🎤 Elerr	ients 🗸 🔅 S	Services ~	Widgets v	S AVAYA DevConnect	Search	▲ ≡	admin
Home Routing	Session	Manager							
Routing 🗸		Domain Ma	anagemei	nt					Help ?
Domains		New Edit	Delete Duplic	More A	tions 🔹				
Locations		1 Item 🛛 😂						Filte	r: Enable
Conditions		Name			Туре	Notes			
Adaptations 🗸	~	Select : All, None	_		sip				

## 6.2. Configure Locations

From the left pane, select **Location**. To add a new location, select **New**. For compliance testing, location of **DevConnect** were added.

	m Manager 8.0		sers v	🗲 Elements 🗸	Services 🔅	i ∨   Wid	gets 🗸 🤅	S AVAYA DevConnect	Search	▲ ≡	admin
Home	Routing	Sessio	n Manager								
Routing		^ ^	Locati	ion							Help ?
Dom	ains				Duplicate	More Actions	•				
Loca	tions		1 Item	æ						Filte	r: Enable
Conc	ditions		Na	me			Correlat	ion		Notes	
Adap	otations	^	Select : A	evConnect III, None			Γ				

### 6.3. Configure SIP Entities

From the left pane, select **SIP Entities**. To add a new SIP Entity, select **New**. For compliance testing, two SIP Entities were added as shown below.

- aaep: Experience Portal SIP Entity
- asm8: Session Manager SIP Entity
- acm8: Communication Manager SIP Entity

AVAYA Aura © System Manager 8.0	占 Users 🗸	🖌 Elements 🗸 🛛 🖨 Services 🕯	v   Widgets v S	AVAYA DevConnect Search
Home Routing	Session Manag	jer		
Routing ^		Entities		
Domains	New	Edit Delete Duplicate M	lore Actions 🔹	
Locations	15 Iter	ns i 🎅		
Conditions		Name	FQDN or IP Address	Туре
		ааер	10.64.110.51	Voice Portal
Adaptations ^		acm8	10.64.110.131	CM
Adaptations		asm8	10.64.110.135	Session Manager

## 6.4. Configure Entity Links

For each SIP Entity, with the exception of Session Manager, an entity link needs to be added. On the left pane, select **Entity Links**. To add a new entity link, select **New**. For compliance testing two entity links, one for Communication Manager and another for Experience Portal, were added.

Aura® System Manager 8.0	_	sers v	🗲 Elements 🗸 🗳	Services v	Widget	ts v	S AVAYA DevConner	ct Se	earch	
Home Routing	Sessio	n Manage	r							
Routing	^	Entity	Links							
Domains		New	Edit Delete Du	blicate More A	tions •					
Locations		15 Item	5 1							
Conditions		□ Na	me	SIP Entity 1	Protocol	Port	SIP Entity 2 🔺	Port	DNS Override	С
Adaptations	^		m8 mpp722 5060 T(	<u>P</u> sm8	ТСР	5060	ааер	5060		
Adaptations			n8 brz8 5061 TLS	sm8	TLS	5061	brz8	5061		
radplations			m8 cm8 5061 TLS	sm8	TLS	5061	cm8	5061		
			0 cmm0 F061 TIC	0	TIC	5061	0	5061		

### 6.5. Configure Time Ranges

On the left pane, select **Time Ranges**. To add a new time range, select **New.** For compliance testing, time range of **24/7** was added.

Aura® System Manager 8.0	占 Us	ers 🗸 🍃	₽ Elements	~ 4	Servi	ices v	I	Widg	ets v	S AVAYA DevConnec	Search		📕 🛛 adm
Home Routing	Session	Manager											
Routing	^	Time R	langes										Help
Domains		New	dit Delete	e Du	plicate	Mo	ore Act	ions •	)				
Locations		1 Item   🗧	9										Filter: Enable
Conditions		Nam	ne Mo	Tu	We	Th	Fr	Sa	Su	Start Time	End Time	Notes	
Adaptations	^	24/ Select : All	_	V			2	✓	2	00:00	23:59	Time Rang	e 24/7

## 6.6. Configure Routing Policies

On the left pane, select **Routing Policies**. To add a new routing policy, select **New**. For compliance testing, two routing policies were added, one for Communication Manager and another for Experience Portal.

Aura® Syster	m Manager 8.0		sers v	ہ بہ Elements ک	Services 🗸	v   Widg	gets ~ S	AVAYA DevConnect	Search
Home	Routing	Sessio	n Manag	er					
Routing		^	Rout	ing Policies					
Doma			New	Edit Delete Du	plicate M	ore Actions	•		
Locat	ions		9 Item	s 🛛 🍣					
Cond	itions			lame	Disabled	Retries		Destination	
Adap	tations	^		aaep acm8			) )	aaep cm8	

## 6.7. Configure Dial Patterns

On the left pane, select **Dial Patterns**. To add a new dial pattern, select **New.** For compliance testing, all calls starting with pattern 5 with 5 digits were routed to communication manager.

AVAYA Aura® System Manager 8.0	占 Users 🗸	🗲 Elements 🗸	🔅 Serv	ices v 🛛 🛔	Widgets 🗸	s AVAYA	ect Search		🗮 🛛 admi
Home Routing S	ession Manag	er							
Routing ^	^ Dial I	Pattern Deta	ails					Commit Cance	Help ?
Domains	Genera	al							
Locations			* Pat	tern: 5					
Conditions			*	Min: 5					
Adaptations ^			*	Max: 5					
/ dup to to to to		Em	ergency	Call:					
Adaptations			SIP Don		$\sim$				
Regular Expressi			N	otes:					
SIP Entities	Origina	ating Locations	and Ro	uting Policie	es				
Sir Linues	Add	Remove							
Entity Links	1 Item	2°						Fi	iter: Enable
Time Ranges	•	riginating Location	Name 🔺	Originating Location Note	s Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes
Routing Policies		DevConnect			acm8	0		cm8	
Dial Patterns 🗸 🗸	Select :	All, None							

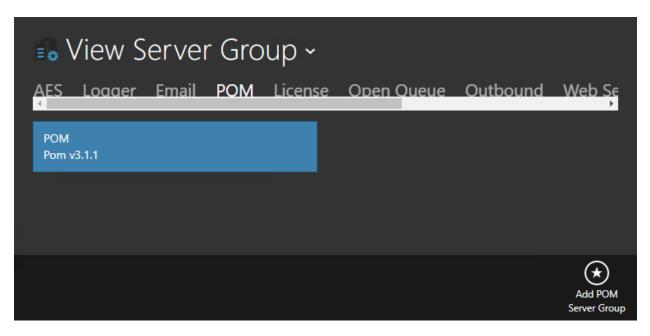
# 7. Configure CTIntegrations CT Suite

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 v	/3.3.0
Log In	<u>Security Admin</u>
Username:	
Password:	
Remember me next time	e.
LOG IN	

## 7.1. Administer POM Server

Navigate to: Site  $\rightarrow$  Server  $\rightarrow$  Server Group  $\rightarrow$  POM. To add a new POM Server Group, select Add POM Server Group to add a new group.



Solution & Interoperability Test Lab Application Notes ©2019 Avaya Inc. All Rights Reserved. 26 of 34 CTS-AD-POM31 To view/edit settings, select a POM server on the list screen, or click Add POM Server to add a new server.

Servers Details										
Name	Description	Is Primary	Server IP	Port	Created By	Created	Modified By	Modified		
РОМ	v3.1.1	true	10.64.110.50	9970	admin	2/22/2019	admin	2/22/2019		
								Add POM Server		

On the Add Edit POMServers screen:

- **Is Primary**: Set as primary.
- Name: Name of server.
- **Description**: Description (friendly) name.
- Server IP: Enter IP address of POM server from Section 5.4.
- **Port**: Enter the default port 9970.

w POM ers Detai	Add Edit POMServe	rs 🕞 (	×		
Description	Yes			Modified By	
	Name	Server IP			
	POM Description v3.1.1 Remove Callback Leading Digits 0	10.64.110.50 Port 9970 Preview Warning Seconds 60			
		Dele	/		Add POM Server

## 7.2. Administer POM Agents

Note that further details available in CT Suite Administration Guide for agent and server configurations can be found in **Section 10**.

From **CT** Admin navigate to the CT Suite Agent: Site  $\rightarrow$  Agent Templates  $\rightarrow$  Agent. The list of configured agents is displayed, if more agents need to be added, select Add Agent button.

<u> </u>											
First Name	Last Name	Username	Extension	Agent ID	Personal Queue VDN	Created By	Created	Modified By	Modified		
Test	User 1	administr	50001	55001		admin	3/6/2019	admin	5/24/2019		
Test	User 2	interop	50002	55002		admin	2/15/2019	admin	5/24/2019		
									+ Add Agent		

To edit an agent, select the agent and navigate to the AGENT tab and ensure POM Agent is set to Yes.

∎o Ag Agents	ent Te <sub>Compute</sub>		Add Edit A	Agents Agent	PRESENCE	(F) C	$(\mathbf{x})$		
			Agent		Agent ID		<u>^</u>		
			Yes		55001				
		Us	Auto In Yes		Agent Password				
			DOM Anot		Email				
		inte	POM Agent		Yes			9	
			SalesForce		Chat No				

## 7.3. AES Server

To view the AES Server navigate to Site  $\rightarrow$  Server  $\rightarrow$  Server Group  $\rightarrow$  AES. 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 was pre-configured. Note that an AES server group is required to be configured.

🐻 View S	erve	r Gro	up ~				
AES Loager	Email	РОМ	License	Open Queue	Outbound	Web Service	Device
AES							
							Add AES Server Group

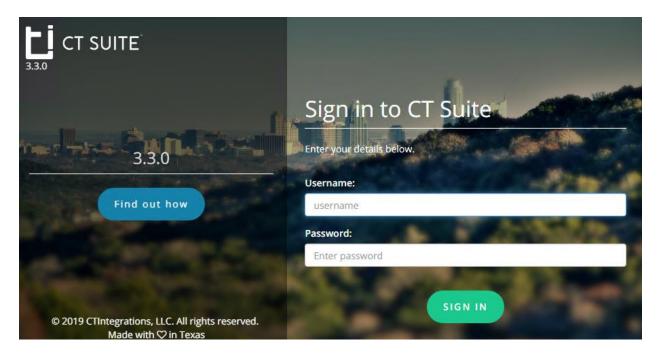
## 8. Verification Steps

This section provides the verification steps that may be performed to verify that the CT Desktop agent to work with Avaya POM.

#### 8.1. 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.

ь:	TEST USER	1 - EXTENSIO	ON 50001					Û
Ľ	_							
	<b>S</b>			00:00		AgentID	55001	
	<b>€</b>			00:00		Password		
	<b>S</b>			00:00		AUX Reason	Select Reason Code	
$\mathbf{\times}$							Auto-In Manual-In	
							LOGIN	
	Details	✓ His	tory 🗸					
0								Ð

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L. i	TEST USER	1 (55001) - E	XTENSION	50001				00:21	Û
Ľ	€			00:00		AgentID	55001	_	
	€			00:00		Password			Ξ.
_	<b>S</b>			00:00		AUX Reason	Select Reason Code		v
×							🔵 Auto-In 📄 Manual-In		
							AVAILABLE ACW		
	Details	✓ His	story 🗸						
									e

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

On the left pane, select POM Agent.

ti	TEST USER 1 (55001) - EXTENSION 50001					
	C Enter number		HOLD	00:00		Call info
	C Enter number		HOLD	00:00		
	C Enter number		HOLD	00:00		υυι
$\mathbf{X}$						
	Details 🗸 History 🗸					
	A Login 🛛 🌬 Unready 🗍 🌜 Call 🛛 🥸 Ca POM Agent	ncel 🦉	Hold	Con	iference 🏾 🗣 Hangup	
	Agent State	Customer	Callb	ack 1	Wrapup	
Q	Nailup State	First				Address
	Campaign	Last				Address

Select Login to log the agent to POM, followed by Ready.

٩	Logout Ready	📞 Call 🛛 🥙	Cancel 🛛 🕊 Hol		Conference	🗣 Hangup
•	Agent State Logged In Nailup State		Customer	Callback	Wrapup	]
G	Call State Campaign					

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ti	TEST USER 1 (55001) - EXTENS	ON 50001						
-	30355512121	ANSWER	HOLD	00:00	CONFERE		S: Skil	
	Conter number			HOLD	00:00			
	CEnter number			HOLD	00:00	COPY CALL	VARIABLE	υυι
×								
	Details 🗸 History 🗸	,						
	🛆 Logout 🛛 🏜 UnRea	dy 🔍 📞 Call 🛛 🥙 Ca	incel 🛛 🕊	Hold	<b>ددد</b> د	onference	🗣 Hang	up   I
<u>^</u>	Agent State Ready Nailup State PendingN			Callb	ack	Wrapup		
Q	Call State	anop	First					Add
	Campaign		Last					
			Phone 1					
G			Phone 2					E
			Phone 3					

Start a POM Campaign and verify the agent receives the call.

Check POM Monitor, it should show the same status as displayed in the CT Desktop agent.

POM Home	Campaigns 🔻	Contacts	▼ Agents	<ul> <li>Supervi</li> </ul>	sor   Configurations		
							5.2 2 2
tive Agents							8
Agent	Agent Extension	Agent Name	Skills	Skill Attribute	Agent State	Call State	
55001	50001	Agent 1	1,2,3,4,5		BUSY	Preview	POMPreviewCan

# 9. Conclusion

These Application Notes describe the configuration steps required to integrate the CTIntegrations CT Suite and CT Desktop with Avaya Proactive Outreach Manager. All feature and serviceability test cases were completed successfully.

## 10. Additional References

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

- 1. Administering Avaya Aura® Communication Manager, Release 8.0.x, Issue 4, May 2019.
- **2.** Administering and Maintaining Aura® Application Enablement Services, Release 8.0.1, Issue 2, December 2018.
- 3. Administering Avaya Aura® Session Manager, Release 8.0.1, Issue 3, December 2018.
- **4.** Administering Avaya Aura® System Manager for Release 8.0.1, Release 8.0.x, Issue 9, May 2019.
- **5.** Application Notes for CTIntegrations CT Suite 3.3 with Avaya Aura® Communication Manager 8.0.1 and Avaya Aura® Application Enablement Services 8.0.1, Release 1.0.
- 6. Administering Avaya Aura® Experience Portal, Release 7.2.2, Issue 1, March 2019.
- 7. Using Avaya Proactive Outreach Manager, Release 3.1.1, Issue 1.1, September 2018.

Documentation related to CT Desktop may directly be obtained from CTIntegrations.

8. CTIntegrations CT Suite Admin User Guide, User Guides v3.2

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