

Avaya Solution & Interoperability Test Lab

# **Application Notes for AMC Connector for Avaya Aura® Application Enablement Services – Issue 1.0**

### Abstract

These Application Notes describe the configuration steps required to integrate 3rd party business applications using the AMC Connector for Avaya Aura® Application Enablement Services (AES) with a contact center environment provided by Avaya Aura® Communication Manager. The AMC connector for AES provides CTI integration to business applications from Microsoft, Oracle, Salesforce and SAP. The AMC Contact Canvas Server (CCS), which includes the connector, provides call control, agent session control and screen pop to help make contact center agents more efficient and to realize higher levels of customer satisfaction. CCS and the AES connector can also be used for adjunct routing. AES passes the adjunct route request to CCS which leverages VB scripting to execute a data dip within the business application and invokes AMC's advanced routing gateway to provide a route recommendation. For this compliance test, the AMC Connector was used to integrate 6 different Customer Relationship Management (CRM) adapters with a call center on Communication Manager.

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 3rd party business applications using the AMC Connector for Avaya Aura® Application Enablement Services (AES) with a contact center environment provided by Avaya Aura® Communication Manager. The AMC connector for AES provides CTI integration to business applications from Microsoft, Oracle, Salesforce and SAP. The AMC Contact Canvas Server (CCS), which includes the connector, provides call control, agent session control and screen pop to help make contact center agents more efficient and to realize higher levels of customer satisfaction. CCS and the AMC connector can also be used for adjunct routing. AES passes the adjunct route request to CCS which leverages VB scripting to execute a data dip within the business application and invokes AMC's advanced routing gateway to provide a route recommendation. For this compliance test, the AMC Connector was used to integrate 6 different CRM adapters with a call center on Communication Manager.

The AES connector uses a TSAPI connection and requires Basic license for standard integration or Advanced licenses necessary to monitor VDNs, if CCS provides adjunct routing. AMC's CCS is built upon component architecture using a connector / adapter pattern: connectors integrate contact channels and adapters integrate business applications, such as Salesforce. This provides a "future proof" foundation with the flexibility to upgrade existing channels and applications or to move to or incorporate new or different channels and applications, and the scalability to integrate contact centers of all size, small, medium, large and enterprise / multi-site.

# 2. General Test Approach and Test Results

To verify interoperability of the AMC Connector with Application Enablement Services and Communication Manager, the 6 different CRM applications were used; detail is listed in **Section 4**. SAPWeb/CRM7 is one of the business applications used. This business application allowed the functionality available in the AMC Connector to be verified, including logging in and out of a skill, placing and disconnecting calls, exercising basic telephony features, agent session control, and screen pop. The features listed in **Section 2.1** were covered.

All test cases were executed and passed. The following observation was noted during the compliance test:

Best practice – in order to avoid possible synchronization issues between the hardphone and softphone, agents should refrain from the following actions in this order: logging in via hardphone  $\rightarrow$  going ready  $\rightarrow$  receiving or making a call  $\rightarrow$  logging into CRM during the call.

### 2.1. Interoperability Compliance Testing

The interoperability compliance test verified the following feature functionality available to agents with the AMC Connector for AES.

- Logging in and out of a skill/split.
- Monitoring agent states (e.g., Ready or Not Ready).

LYM; Reviewed:	
SPOC 3/17/2015	

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- Agent synchronization with agent hardphones.
- Establishing calls with other agents and non-monitored devices and verifying the correct call states.
- Screen pop consisting of customer or business partner information using ANI for calls.
- Basic telephony features such as call hold, transfer, and conference.
- Restarting the AMC Connector.

#### 2.2. Test Results

All test cases were executed and passed. The following observation was noted during the compliance test:

Best practice – in order to avoid possible synchronization issues between the hardphone and softphone, agents should refrain from the following actions in this order: logging in via hardphone  $\rightarrow$  going ready  $\rightarrow$  receiving or making a call  $\rightarrow$  logging into CRM during the call.

#### 2.3. Support

Technical support on the AMC Connector can be obtained through the following:

- **Phone:** (800) 390-4866
- **Email:** <u>support@amctechnology.com</u>

# 3. Reference Configuration

The following diagram illustrates a sample configuration of a contact center environment integrated with CRM Servers using the AMC Connector for Application Enablement Services. The configuration includes, including Avaya Aura® Application Enablement Services, a pair of Avaya S8800 Servers with a G650 Media Gateway running Avaya Aura® Communication Manager, and Avaya IP endpoints serving as agent stations. In addition, the agent's interaction center included CRM Web client and separate servers containing the AMC Multi-Channel Integration Server/CCS with the AMC Connector and the CRM server.

Device Type	Value
Skill Group Number	1
Skill Group Extension	13001
VDN	14001
Agent IDs	11001 and 11002
Agent Station Extensions	10001 and 10002



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# 4. Equipment and Software Validated

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

Equipment	Software
Avaya Aura® Communication Manager	6.3.9.0 (Build R016x.03.0.124.0-21971)
Avaya Aura® Application Enablement Services	6.3.3.1.10-0
96x1 Series H.323 IP Deskphone	6.4014
AMC Connector for Avaya Aura® Application Enablement Services	6.5.0.0
SAPCRM7EHP3	6.5.0.0
Oracle Siebel	6.5.0.0
Salesforce.com	6.5.0.0
Oracle PeopleSoft	6.5.0.0
Oracle RightNow	6.5.0.0
SFDC Desk.com	6.5.0.0

# 5. Configure Aura® Avaya Communication Manager

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

- Verify Communication Manager license
- Administer CTI link
- Administer agent hunt group
- Administer vector and VDN
- Administer agent station
- Administer agent IDs

#### 5.1. Verify Communication Manager 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 to verify that the **Computer Telephony Adjunct Links** customer option is set to "y" on **Page 3**. If this option is not enabled, then contact the Avaya sales team or business partner for a proper license file.

```
Page
                                                                    3 of 11
display system-parameters customer-options
                              OPTIONAL FEATURES
   Abbreviated Dialing Enhanced List? y
                                               Audible Message Waiting? y
       Access Security Gateway (ASG)? n
                                                 Authorization Codes? y
       Analog Trunk Incoming Call ID? y
                                                             CAS Branch? n
A/D Grp/Sys List Dialing Start at 01? y
                                                               CAS Main? n
                                                      Change COR by FAC? n
Answer Supervision by Call Classifier? y
                               ARS? y Computer Telephony Adjunct Links? y
               ARS/AAR Partitioning? y Cvg Of Calls Redirected Off-net? y
         ARS/AAR Dialing without FAC? n
                                                           DCS (Basic)? y
         ASAI Link Core Capabilities? y
                                                      DCS Call Coverage? y
         ASAI Link Plus Capabilities? y
                                                     DCS with Rerouting? y
      Async. Transfer Mode (ATM) PNC? n
 Async. Transfer Mode (ATM) Trunking? n Digital Loss Plan Modification? y
                                                               DS1 MSP? y
             ATM WAN Spare Processor? n
                               ATMS? y
                                                  DS1 Echo Cancellation? y
                 Attendant Vectoring? y
        (NOTE: You must logoff & login to effect the permission changes.)
```

### 5.2. Administer CTI Link

Add a CTI link using the "add cti-link n" command, where "n" is an available CTI link number. Enter an available extension number in the **Extension** field. Note that the CTI link number and extension number may vary. Enter "ADJ-IP" in the **Type** field, and a descriptive name in the **Name** field. Default values may be used in the remaining fields.

```
add cti-link 3 Page 1 of 3
CTI LINK
CTI Link: 3
Extension: 10093
Type: ADJ-IP
COR: 1
Name: TSAPI Service - AES6x
COR: 1
```

### 5.3. Administer Agent Hunt Group

Administer an agent hunt group. Agents will log into this split to handle calls coming into the call center. Use the "add hunt-group n" command, where "n" is an available hunt group number. Configure the hunt group as shown below.

add hunt-group 1				Page	1 of	4
	HUNT	GROUP				
Group Number:	1		ACD?	У		
Group Name:	Sales		Queue?	У		
Group Extension:	13001		Vector?	У		
Group Type:	ead-mia					
TN:	1					
COR:	1	MM Early 2	Answer?	n		
Security Code:		Local Agent Prefe	erence?	n		
ISDN/SIP Caller Display:	grp-name	-				
Queue Limit:	unlimited					
Calls Warning Threshold:	Port:					
Time Warning Threshold:	Port:					

Navigate to **Page 2** and set the Skill field to 'y'.

add hunt-group 1 2 of Page 4 HUNT GROUP Expected Call Handling Time (sec): 180 Skill? y AAS? n Service Level Target (% in sec): 80 in 20 Measured: both Supervisor Extension: 11003 Controlling Adjunct: none VuStats Objective: Multiple Call Handling: none Timed ACW Interval (sec): After Xfer or Held Call Drops? n

### 5.4. Administer Vector and VDN

Modify an available vector using the "change vector n" command, where "n" is an existing vector number. The vector will be used to route calls to agents logged into skill 1.

 change vector 1
 Page 1 of 6

 CALL VECTOR
 CALL VECTOR

 Number: 1
 Name: Sales

 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? y
 G3V4 Adv Route? y
 CINFO? y
 BSR? y
 Holidays? y

 Variables? y
 3.0 Enhanced? y
 2
 secs hearing ringback
 skill 1
 prim

 03 wait-time
 900 secs hearing music
 after announcement none
 of
 05

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

```
add vdn 75000 Page 1 of 3

VECTOR DIRECTORY NUMBER

Extension: 75000

Name*: Call Center

Destination: Vector Number 250

Attendant Vectoring? n

Meet-me Conferencing? n

Allow VDN Override? n

COR: 1

TN*: 1

Measured: none
```

#### 5.5. Administer Agent Stations

Below is the configuration of the agent station. Repeat this step for each agent in the call center.

```
add station 10001
                                                                        Page 1 of
                                                                                        5
                                         STATION
                                           Lock Messages? n
Security Code: 111222
Coverage Path 1:
Coverage Path 2:
                                             Lock Messages? n
Extension: 10001
                                                                               BCC: 0
     Type: 9611G
                                                                                TN: 1
                                                                              COR: 1
COS: 1
     Port: S00002
                                           Coverage Path 2:
     Name: 10001
                                          Hunt-to Station:
                                                                             Tests? y
STATION OPTIONS
               Location:Time of Day Lock Table:Loss Group:19Personalized Ringing Pattern:1
        Speakerphone: 2-way
Display Language: english
able GK Node Name:
                                                      Message Lamp Ext: 10001
                                                   Mute Button Enabled? y
                                                        Button Modules: 0
 Survivable GK Node Name:
           Survivable COR: internal
                                                    Media Complex Ext:
   Survivable Trunk Dest? y
                                                           IP SoftPhone? y
                                                    IP Video Softphone? n
                                 Short/Prefixed Registration Allowed: default
                                                    Customizable Labels? y
```

#### 5.6. Administer Agent IDs

Add an **Agent Login ID** for each agent in the call center using the "add agent-loginID n" command, where "n" is a valid agent ID that adheres to the dial plan. Specify the password used by the agent to log into the split. Repeat this step for each agent in the call center.

```
add agent-loginID 11001
                                                                  Page 1 of
                                                                                3
                                 AGENT LOGINID
                Login ID: 11001
                                                                  AAS? n
                    Name: Alice
                                                                AUDIX? n

    AUDIX? n

    TN: 1
    Check skill TNs to match agent TN? n

                     COR: 1
           Coverage Path:
                                                        LWC Reception: spe
           Security Code: 1234
                                              LWC Log External Calls? n
                                            AUDIX Name for Messaging:
                                         LoginID for ISDN/SIP Display? n
                                                             Password: 1234
                                               Password (enter again): 1234
                                                         Auto Answer: none
                                                   MIA Across Skills: system
                                            ACW Agent Considered Idle: system
                                            Aux Work Reason Code Type: system
                                              Logout Reason Code Type: system
                       Maximum time agent in ACW before logout (sec): system
                                            Forced Agent Logout Time: :
    WARNING: Agent must log in again before changes take effect
```

add agent-loginID 11001 Page 2 of 3				
	AGENT	LOGINID		
Direct Agent S	Skill:	Ser	vice Objective? n	
Call Handling Prefer	ence: skill-level	Local C	all Preference? n	
SN RL SL	SN RL SL	SN RL SL	SN RL SL	
1:1 1	16:	31:	46:	
2:	17:	32:	47:	
3:	18:	33:	48:	
4:	19:	34:	49:	
5:	20:	35:	50:	
6:	21:	36:	51:	
7:	22:	37:	52:	
8:	23:	38:	53:	
9:	24:	39:	54:	
10:	25:	40:	55:	
11:	26:	41:	56:	
12:	27:	42:	57:	
13:	28:	43:	58:	
14:	29:	44:	59:	
15:	30:	45:	60:	

On Page 2, specify the skill number to which the agent will log in. In the example, the agent will log into skill 1.

# 6. Configure Avaya Aura® Application Enablement Services

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

- Verify TSAPI license
- Launch OAM interface
- Administer TSAPI link
- Disable security database
- Restart TSAPI service
- Obtain Tlink name
- Administer user for AMC Connector

#### 6.1. Verify TSAPI License

Access the Web License Manager interface by using the URL "https://<ip-addr>/WebLM/" in an Internet browser window, where <ip-addr> is the IP address of the Application Enablement Services server.

The Web License Manager screen is displayed. Log in using the appropriate credentials.

AVAYA	Web License Manager (WebLM	1 v6.3)	
	User Name: Password:	sdnin +	
		Log On	Clear
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The Web License Manager screen is displayed. Select Licensed Products  $\rightarrow$  APPL\_ENAB $\rightarrow$  Application\_Enablement in the left pane to display the Licensed Features screen in the right pane.

Verify that there are sufficient licenses for **TSAPI Simultaneous Users** as shown below. Also verify that there is an applicable advanced switch license for the switch type.

VAYA We	b License Manager (Web	LM v6.3)		Help   About   Change Passwo
WebLM Home	Application Enablement (CTI) - R	elease: 6 - SI	D: 10503000	Standard I
Install license	You are here: Licensed Products > Application	Enablement > Vi	w License Capacity	
Licensed products				
APPL_ENAB	License installed on: January 26, 201	5 3:26:53 PM	+08:00	
<ul> <li>Application_Enablement</li> </ul>			01.05.13.65.00	
View license capacity	License File Host 105: 00-00	-29-92-00-50, VC	-01-BE-13-05-00	
View peak usage				
IPO	Licensed Features			
▶IP_Office				
VSS	10 Items 💝 Show ALL 🔻	1		
▶Voice_Portal	Feature (License Keyword)	Expiration dat	e Licensed capacity	
Uninstall license	VALUE AES CVLAN ASAI	permanent	1	
Server properties	Unified CC API Desktop Edition VALUE AES AEC_UNIFIED_CC_DESKTOP	permanent	2500	
Manage users	AES ADVANCED SMALL SWITCH VALUE_AES_AEC_SMALL_ADVANCED	permanent	16	
elp for Installed Product	CVLAN Proprietary Links VALUE_AES_PROPRIETARY_LINKS	permanent	16	
	Product Notes VALUE_NOTES	permanent	SmallServerTypes: s8300c;s3000;icc;premio;tn8400;lay MediumServerTypes: ibmx306;ibmx306;inc;gal3802;d38562;d isp2100;ibmx306;id3802;d38562;d38562;d isp2100;ibmx305;d3802;d38562;d38562;d DMCUmrestricted; 1XP_001, BasicUm DMCUmrestricted; 1XP_001, BasicUm DMCUmrestricted; C001, BasicUm DMCUmrestricted; C01, BasicUm DMCUmrestricted; C01, BasicUm DMCUmrestricted; SAMETIME_001, BasicU DMCUmrestricted; SAMETIME_001, BasicUm DMCUmrestricted; SAMETIME_001, BasicUm DMCUmrestricted; SAMETIME_001, BasicUm DMCUmrestricted, DMCUmrestric AdvancedUmrestricted, DMCUmrestric AdvancedUmrestricted, DMCUmrestric AdvancedUmrestricted, AdvancedUmrestric AdvancedUmrestricted, AgentEvents;	ptop; CtiSmallServer 20; hs20_8832_vm; CtiMe 1355g2; umknown; CtiLarg Inrestricted, AdvancedUne restricted, AdvancedUne starkted, AdvancedUnres estricted, AdvancedUnres stricted, AdvancedUnres stricted, AdvancedUnres stricted, AdvancedUnres stricted, AdvancedUnres (; CCE_001, BasicUnrest ted; CSI T_001, BasicU ted; CSI T_001, BasicU ted; CSI T_001, BasicU ted; AVAYAVERINT_001, ted; DCUnrestricted; nrestricted, AdvancedUnr
	VALUE_AES_AEC_LARGE_ADVANCED	permanent	16	
	VALUE_AES_TSAPI_USERS	permanent	2500	
	VALUE_AES_DLG	permanent	1	
	Device Media and Call Control VALUE_AES_DMCC_DMC	permanent	2500	
	AES ADVANCED MEDIUM SWITCH VALUE_AES_AEC_MEDIUM_ADVANCED	permanent	16	
	4			4
	Acquired Licenses			
	1 Item 😂 Show ALL 🔻			
	Feature		Acquired by	Count
	VALUE AES_PROPRIETARY_LINKS		CVLAN (aes6x)	1

#### 6.2. Launch OAM Interface

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

#### 6.3. Administer TSAPI Link

To administer a TSAPI link, select **AE Services→TSAPI→TSAPI Links** from the left pane. The **TSAPI Links** screen is displayed as shown below. Click **Add Link**.

avaya	Application E Mana	Enablement Sei gement Console	rvices Serve Serve HA SI	me: User devconnect ogin: Fri Feb 13 14:54:32 2015 ere of prior failed login attempts: lame/IP: aes6x/10.1.10.70 r Offer Type: VIRTUAL_APPLIAN ersion: 6.3.3.1.10-0 r Date and Time: Fri Feb 13 15: atus: Not Configured	from 192.168.100.18 0 CE_ON_VMWARE 37:37 SGT 2015
AE Services   TSAPI   T	SAPI Links			н	ome   Help   Logout
▼ AE Services	TSAPI Li	nks			
▶ DLG	Link	Switch Connection	Switch CTI Link	# ASAI Link Version	Security
> DMCC	Add Lin	k Edit Link Delete Link	c		
TSAPI					
TSAPI Links     TSAPI Propertie	IS				

The Add TSAPI Links screen is displayed next. The Link field is only local to the Application Enablement Services server and may be set to any available number. For Switch Connection, select the relevant switch connection from the drop-down list. In this case, the existing switch connection "Duplex" is selected. For Switch CTI Link Number, select the CTI link number from Section 5.2. Retain the default values in the remaining fields and click Apply Changes.

avaya	Application Enablement Services Management Console	Welcome: User devconnect Last login: Fri Feb 13 14:54:32 2015 from 192,168.100.18 Number of prior failed login attempts: 0 HostName/IP: aes6x/10.1.10.70 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.3.1.10-0 Server Date and Time: Fri Feb 13 15:33:32 SGT 2015 HA Status: Not Configured
AE Services   TSAPI   1	SAPI Links	Home   Help   Logout
* AE Services		
> CVLAN	Add TSAPI Links	
DLG	Link 3	
DMCC	Switch Connection Duplex V	
> SMS	Switch CTI Link Number 3 🗸	
* TSAPI	ASAI Link Version 7 V	
TSAPI Links     TSAPI Propertie	Security Unencrypted V es Apply Changes Cancel Changes Advanced (	Settings
+ TWS		())

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#### 6.4. Disable Security Database

Select Security→Security Database→Control from the left pane to display the SDB Control for DMCC and TSAPI screen. Uncheck Enable SDB TSAPI Service, JTAPI and Telephony Service and click Apply Changes.

AVAYA Applic	ation Enablement Services Management Console	Welcome: User devconnect Last login: Fri Feb 13 14:54:32 2015 from 192.168.100.18 Number of prior failed login attempts: 0 HostName/IP: aes6x/10.1.10.70 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.3.1.10-0 Server Date and Time: Fri Feb 13 15:26:07 SGT 2015 HA Status: Not Configured
Security   Security Database   Contr	ol	Home   Help   Logout
AE Services     Communication Manager     Interface	SDB Control for DMCC, TSAPI, JTAPI and Teleph	ony Web Services
High Availability	Enable SDB for DMCC Service	
<ul> <li>Licensing</li> </ul>	Enable SDB for TSAPI Service, JTAPI and Telepho	ony Web Services
▶ Maintenance	Apply Changes	
▶ Networking		
▼ Security		
> Audit		
> Certificate Management		
Enterprise Directory		
> Host AA		
Security Database		
Control		
CTI Users		
Devices     Device Groups		

### 6.5. Restart TSAPI Service

Select **Maintenance→Service Controller** from the left pane to display the **Service Controller** screen. Check the **TSAPI Service** and click **Restart Service**.

	ation Enablement Services Management Console	Welcome: User devconnect Last login: Fri Feb 13 14:54:32 2015 from 192.168.100.18 Number of prior failed login attempts: 0 HostName/IP: aes6x/10.1.10.70 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.3.1.10-0 Server Date and Time: Fri Feb 13 15:23:41 SGT 2015 HA Status: Not Configured
Maintenance   Service Controller		Home   Help   Logout
AE Services     Communication Manager     Interface	Service Controller	
High Availability	ASAI Link Manager Running	
Alight Constant Maintenance Date Time/NTP Server Security Database Service Controller Server Data	DMCC Service       Running         CVLAN Service       Running         DLG Service       Running         Transport Layer Service Running         TSAPI Service       Running	
Networking	For status on actual services, please use Status and Col	ntroi
<ul> <li>Security</li> <li>Status</li> <li>User Management</li> </ul>	Start Stop Restart Service Restart AE Service	VEI RESLAIL LIIUX RESLAIL WED SEIVEI
Vtilities		
▶ Help		

### 6.6. Obtain Tlink Name

Select Security  $\rightarrow$  Security Database  $\rightarrow$  Tlinks from the left pane. The Tlinks screen shows a listing of the Tlink names. A new Tlink name is automatically generated for the TSAPI service. Locate the Tlink name associated with the relevant switch connection, which would use the name of the switch connection as part of the Tlink name. Make a note of the associated Tlink name, which will be used later for configuring the AMC Connector.

In this case, the associated Tlink name is "AVAYA#**DUPLEX**#CSTA#AES6X". Note the use of the switch connection "DUPLEX" from **Section 6.3** as part of the Tlink name.

	cation Enablement Services Management Console	Welcome: User devconnect Last login: Mon Feb 16 14:22:55 2015 from 10.1.10.99 Number of prior failed login attempts: 0 HostName/IP: aes6x/10.1.10.70 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.3.1.10-0 Server Date and Time: Mon Feb 23 14:46:56 SGT 2015 HA Status: Not Configured
Security   Security Database   Tlink	s	Home   Help   Logout
<ul> <li>&gt; AE Services</li> <li>&gt; Communication Manager Interface</li> <li>&gt; High Availability</li> <li>&gt; Licensing</li> <li>&gt; Maintenance</li> <li>&gt; Networking</li> <li>&gt; Security</li> <li>&gt; Audit</li> <li>&gt; Certificate Management</li> <li>Enterprise Directory</li> <li>&gt; Host AA</li> <li>&gt; Security Database</li> <li>= Control</li> <li>= CTI Users</li> <li>= Devices</li> <li>= Devices</li> <li>= Device Groups</li> <li>= Tlinks</li> <li>= Tlinks</li> </ul>	Tlinks Tink Name AVAYA#DUPLEX#CSTA#AES6X AVAYA#DUPLEX#CSTA-S#AES6X Delete Tlink	

#### 6.7. Administer User for AMC Connector

Select User Management→User Admin→Add User from the left pane to display the Add User screen.

Enter desired values for User Id, Common Name, Surname, User Password, and Confirm Password. For CT User, select "Yes" from the drop-down list. Retain the default value in the remaining fields. Click Apply at the bottom of the screen (not shown below).

	ation Enable Management	es	Welcome: User devconnect Last login: Mon Feb 16 14:22:55 2015 from 10.1.10.99 Number of prior failed login attempts: 0 HostName/IP: aes6x/10.1.10.70 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.3.1.10-0 Server Date and Time: Mon Feb 23 14:49:32 SGT 2015 HA Status: Not Configured	
User Management   User Admin   List	t All Users			Home   Help   Logout
AE Services     Communication Manager     Interface	Edit User			
High Availability	* User Id	CRTADM 🗎		
Licensing	* Common Name	AMC		
Maintenance	* Surname	AMC		
▶ Networking	User Password	•••••		
▹ Security	Confirm Password	•••••		
→ Status	Admin Note			
▼ User Management	Avaya Role	None	$\checkmark$	
Service Admin	Business Category			
Viser Admin	Car License			
Add User	CM Home			
<ul> <li>Change User Password</li> </ul>	Css Home			
List All Users	CT User	Yes 🗸		
<ul> <li>Modify Default Users</li> </ul>	Department Number			
<ul> <li>Search Users</li> </ul>	Display Name			
Utilities	Employee Number			
▶ Help	Employee Type			
	Enterprise Handle			
	Given Name			
	Home Phone			
	nome Postal Address			
	Initials			
	Labeled URI			

### 7. Configure AMC Connector for Application Enablement Services

This section covers the procedure for configuring the AMC Connector and integrating it with Application Enablement Services using a TSAPI link.

- Verify that the Avaya Aura® Application Enablement Services TSAPI Client MS Windows 6.2 has been installed on the AMC Contact Canvas server.
- Modify the config.ini in the C:\Program Files\AMC Technology\MCIS directory as follows. Note that the complete file is not shown below. Some of the key parameters for integration with Application Enablement Services include:
  - the Module Class and Module parameters which specify the pipe connector under the Avaya CT/AES comment,
  - the Avaya AES license under License Manager, and
  - the CTIModule section which includes the Channel (default value of CT1 is recommended), the ServerID or Tlink name obtained in Section 0, and the user login credentials configured in Section 6.7.

```
***********
# MCIS Configuration file: Config.ini with ACT/AES Connector and SFDC -
#
                      Avaya Certification lab in Singapore
# MCIS Release 6.5
#
**********
###
# Global Keys
    Applies to every module that does not explicitly set their local value
#
###
[Global]
# MessageLibrary=AMCMessages.dll
# EventManager=EventManager
# TraceMaxSize=1024
TraceEnabled=1
TraceLevel=4
TracePath=C:\Program Files (x86)\AMC Technology\MCIS\Server\Logs
     ...
### Avaya CT/AES
ModuleClass=CentreVuCTI,CentreVuCTI.CentreVuCTIModule
Module=CTIModule,CentreVuCTI
     ...
###
# License Manager
#
###
[LicenseManager]
# TraceEnabled=1
 TraceLevel=2
#
 TraceMaxSize=1024
```

Solution & Interoperability Test Lab Application Notes ©2015 Avaya Inc. All Rights Reserved. MCIS=DMBVHKJLDEFGEJDGFDBATCJAJGBEFDMMLGOPKNTR AA-DOTNET=DMBVHRJPDXFEEGDJFGBDVEFAJGBEFDMMLGOPKNTR CTI CentreVu=DZBLHUJKDCFDEEDIFBBFTBDAJGBEFDZMLGOPKNTR ## For ACT [CTIModule] TraceLevel=4 Channel=CTI1 #ServerID=LUCENT#G3 SWITCH#CSTA#AMCW23S09 ServerID=AVAYA#DUPLEX#CSTA#AES6X UserName=CRTADM #UserName=AMC Password=amcamc #Password=Connector#123 AllowDTMF=Yes DTMFPause=5 #ForceStateRefresh=1 UseAutoIn=1 ### # IciAdapter # ### [IciAdapter] #ProxyForEvents=http://localhost:8080 TraceLevel=6 ConfigDBHost=(local) \SQLEXPRESS ConfigServerName=AMCW12CCSVASU ConfigDBUser=sa ConfigDBPass=Amcw12ccsvasu EventHandlingLevel=6 NEventHandlingLevel=6 NewHandleOnWarmTransfer=False NewHandleOnConference=False WaitForCallStateUpdateDelay=1500 DropCreatedItemAfterFailedDial=False DropCreatedItemAfterFailedConsult=False CheckCallStateAfterConosult=True CheckCallStateAfterDial=True UseExtensionForAlternate=False DefaultNotReadyReasonCode=3 DataStore=DataStore ContactDataKeyName=CAD ListenForImmediateChannelArrivalEvent=True ListenForNewWorkEvent=False UpdateTransferHandleTelephony=False AllowWorkCenterList=False PostImmediateChannelArrivalDelay=0 WrapupMode=2 WaitCallStateAfterDail=3000 LetDropEventCleanItem=True NotReadyReasonCode=6,Break NotReadyReasonCode=7,Lunch NotReadyReasonCode=8,Meeting

DefaultNotReadyReasonCode=0001...

- Administer a user domain account in the Active Directory for DCOM communication between agents and CMService. In this example, the user is amc\devservice.
- Navigate to the Component Services in the Windows Server 2012 to access the window shown below. Double-click on CMService to open the properties window.



• In the CMService Properties window, navigate to the Identity tab and specify the amc\devservice user along with the password.

MService Properties	<b>?</b> ]							
General Location Sec	urity Endpoints Identity							
Which user account do	you want to use to run this application?							
C The interactive user.								
C The Jaunching user.								
This user.								
Us <u>e</u> r:	amc\devservice <u>B</u> rowse							
Password:	•••••							
Confirm password:	•••••							
C. The sustem account (services only)								
	OK Cancel Apply							

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Ele       Action       View       Window       Help <ul> <li></li></ul>	Component Services											
Image: Services       Image: Services       Image: Services       Image: Services       Image: Services       Status       Status       Status       Status       Status       Status       Status       Status       Status       Image: Services       Image: Services <th colspan="10">🐌 Eile Action View Window Help</th>	🐌 Eile Action View Window Help											
Console Root       Description       Status       Startup Type       Log On As         Component Services       Computers       Manual       Local System         Computer       Computer       Startup Type       Log On As         Computer       Computer       NET Runtime Optimization Service v2.0.50       Manual       Local System         Computer       Optimization Experience Lookup Service       Processes ap       Startup Manual       Local System         Component Services       Running Processes       Application Management       Processes i       Manual       Local System         Active Directory Users and Comp       Asyn.NET State Service       Provides s       Started       Automatic       Local System         Services (Local)       Services (Local)       Avaya VPN Service       Started       Automatic       Local System         Services (Local)       Services (Local)       Services       Started       Automatic       Local System <t< th=""><th colspan="12"></th></t<>												
Component Services       Manual       Local System         Computers       Started       Manual       Local System         Computers       Computers       Started       Manual       Local System         Computer       AdminToolService       Process ap       Started       Manual       Local System         Distributed Transaction       Application Experience Lookup Service       Process ap       Started       Manual       Local System         Application ILayer Gateway Service       Provides s       Started       Manual       Local System         Application Layer Gateway Service       Provides s       Started       Manual       Local System         Application Viser (Local)       Services (Local)       Started Started       Automatic       Local System         Services (Local)       Services (Local)       Started       Automatic       Local System         CipBook       Enables th       Started       Manual       Local System         CipBook       Enables th       Started       Manual       Local System         Cold System       Supports S       Started       Manual       Local System         Cold System       Supports S       Started       Manual       Local System         Cod	Console Root	Name 🛆	Description	Status	Startup Type	Log On As	<u> </u>					
AdminToolService       Started       Manual       Local System         Alerter       Notifies sel       Disabled       Local System         Alerter       Process ap       Started       Manual       Local System         Application Experience Lookup Service       Process ap       Started       Manual       Local System         Application Layer Gateway Service       Processes i       Manual       Local System         Application Layer Gateway Service       Provides s       Started       Manual       Local System         Application Layer Gateway Service       Provides s       Started       Manual       Local System         Application Layer Gateway Service       Provides s       Started       Manual       Local System         Services (Local)       Services (Local)       Started       Automatic       Local System         Services (Local)       Service       Started       Manual       Local System         COMP System Application       Mana	Component Services	NET Runtime Optimization Service v2.0.50	Microsoft		Manual	Local System						
Image: Service S (Local)       Image: Service S (Local)       Image: Service S (Local)       Image: Service S (Local)       Started Service		AdminToolService		Started	Manual	Local System						
COMP Applications       Application Experience Lookup Service       Process ap       Started       Automatic       Local System         Processes       Provides s       Started       Manual       Local System         Application Management       Processes i       Manual       Local System         Application Management       Provides s       Manual       Local System         Application Management       Provides s       Manual       Local System         Application Management       Provides s       Manual       Local System         Application Experience Lookup Service       Provides s       Manual       Local System         Application Management       Provides s       Started       Automatic       Local System         Application Intelligent Transfer Service       Transfers f       Manual       Local System         Avaya VPN Service       Started       Automatic       Local System         COM+ Experience System       Supports S       Started       Automatic       Local System         COM+ System Application       Managest       Started       Manual       Local System         COM+ System Application       Managest       Started       Automatic       Local System         COM+ System Application <t< td=""><td>Introducer</td><td>Alerter 😳</td><td>Notifies sel</td><td></td><td>Disabled</td><td>Local Service</td><td></td></t<>	Introducer	Alerter 😳	Notifies sel		Disabled	Local Service						
<ul> <li>Deconnecting</li> <li>Distributed Transacti</li> <li>Application Layer Gateway Service</li> <li>Provides s</li> <li>Started</li> <li>Manual</li> <li>Local System</li> <li>Manual</li> <li>Local System</li> <li>Manual</li> <li>Network Service</li> <li>Automatic</li> <li>Local System</li> <li>Started</li> <li>Automatic</li> <li>Local System</li> <li>Started</li> <li>Manual</li> <li>Local System</li> <li>Manual</li> <li>Network Service</li> <li>Network Service</li> <li>Network Service</li> <li>Network Service</li> <li>Manual</li> <li>Network Service</li> <li>Network Service</li></ul>		Application Experience Lookup Service	Process ap	Started	Automatic	Local System						
Application Management       Processes i       Manual       Local System         Active Directory Users and Complex       Automatic Updates       Enables th       Started       Automatic       Local System         Services (Local)       Services (Local)       Started       Automatic       Local System         Services (Local)       Service       Transfer Service       Transfers f       Manual       Local System         Services (Local)       Service       Started       Automatic       Local System         Services (Local)       Service       Started       Automatic       Local System         Services (Local)       Service       Started       Automatic       Local System         Service (Local)       Service       Service       Manual       Local System         COM+ Event System       Supports S       Started       Automatic       Local System         OCOM+ Event System       Supports S       Started       Automatic<	Decom coning     Distributed Transaction	Application Layer Gateway Service	Provides s	Started	Manual	Local Service						
Active Directory Users and Comp       Started       Automatic       Local System         Event Viewer (Local)       Services (Local)       Started       Automatic       Local System         Services (Local)       Services (Local)       Started       Automatic       Local System         Services (Local)       Services (Local)       Started       Automatic       Local System         Services (Local)       Services (Local)       Started       Manual       Local System         COM+ Event System       Supports 5       Started       Manual       Local System         COM+ Event System       Supports 5       Started       Automatic       Local System         COM+ System Application       Manages t       Started       Automatic       Local System         COM+ System Application       Manages t       Started       Automatic       Local System         COM+ System Application       Manages t       Started       Automatic       Local System         COM+ Event System       Supports 5       Started       Automatic       Local System         COM+ System Application       Manages t       Started       Automatic       Local System         DCOM Server Process Launcher       Provides la       Started       Automatic		Application Management	Processes i		Manual	Local System						
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Services (Local)       Started       Automatic       Local System         Background Intelligent Transfer Service       Transfers f       Manual       Local System         ClipBook       Enables Cli       Disabled       Local System         CMService       Started       Manual       amc\devservice         COM+ Event System       Supports S       Started       Manual       Local System         COM+ Event System       Supports S       Started       Automatic       Local System         Computer Browser       Maintains a       Started       Automatic       Local System         COM Server Process Launcher       Provides th       Started       Automatic       Local System         DCOM Server Process Launcher       Provides la       Started       Automatic       Local System         DIStributed File System       Integrates       Manual       Local System         Distributed Link Tracking Client       Enables cli       Started       Automatic       Local System         Distributed Link Tracking Server       Enables cli       Started       Automatic       Local System         Distributed Link Tracking Server       Enables cli       Started       Automatic       Local System         Distributed Link Tracking Se	Event Viewer (Local)	Sector Automatic Updates	Enables th	Started	Automatic	Local System						
Background Intelligent Transfer Service       Transfers f       Manual       Local System         ClipBook       Enables Cli       Disabled       Local System         CMService       Started       Manual       amc(devervice)         COM+ Event System       Supports S       Started       Automatic       Local System         COM+ Event System       Supports S       Started       Automatic       Local System         COM+ System Application       Manages t       Started       Automatic       Local System         Computer Browser       Maintains a       Started       Automatic       Local System         Cryptographic Services       Provides th       Started       Automatic       Local System         DCOM Server Process Launcher       Provides la       Started       Automatic       Local System         DICP Client       Registers a       Started       Automatic       Local System         Distributed File System       Integrates       Manual       Local System         Distributed Link Tracking Client       Enables cli       Started       Automatic       Local System         Distributed Link Tracking Server       Enables cli       Started       Automatic       Local System         Distributed Link	Services (Local)	🖏 Avaya VPN Service		Started	Automatic	Local System						
ClipBook       Enables Cli       Disabled       Local System         CMService       Started       Manual       anticlevservice         COM+ Event System       Supports S       Started       Automatic       Local System         COM+ Event System       Manges t       Started       Automatic       Local System         Computer Browser       Maintains a       Started       Automatic       Local System         Cryptographic Services       Provides th       Started       Automatic       Local System         DCOM Server Process Launcher       Provides th       Started       Automatic       Local System         DICP Client       Registers a       Started       Automatic       Local System         Distributed File System       Integrates       Manual       Local System         Distributed Link Tracking Client       Enables cli       Started       Automatic       Local System         Distributed Link Tracking Server       Enables cli       Started       Automatic       Local System         Distributed Link Tracking Server       Enables cli       Started       Automatic       Local System         Distributed Link Tracking Server       Enables cli       Started       Automatic       Local System <t< td=""><td>545</td><td>Background Intelligent Transfer Service</td><td>Transfers f</td><td></td><td>Manual</td><td>Local System</td><td></td></t<>	545	Background Intelligent Transfer Service	Transfers f		Manual	Local System						
Started       Manual       amc\devservice         COM+ Event System       Supports S       Started       Automatic       Local System         COM+ System Application       Manages t       Started       Manual       Local System         Computer Browser       Maintains a       Started       Automatic       Local System         Cryptographic Services       Provides th       Started       Automatic       Local System         DCOM Server Process Launcher       Provides th       Started       Automatic       Local System         DCOM Server Process Launcher       Provides la       Started       Automatic       Local System         DCOM DECP Client       Registers a       Started       Automatic       Network Service         Distributed File System       Integrates       Manual       Local System         Distributed Link Tracking Client       Enables cli       Started       Automatic       Network Service         Distributed Link Tracking Server       Enables cli       Started       Automatic       Local System         Distributed Link Tracking Server       Enables th       Disabled       Local System       Local System         Distributed Transaction Coordinator       Coordinate       Started       Automatic		ClipBook .	Enables Cli		Disabled	Local System						
COM+ Event System       Supports S Started       Automatic       Local System         COM+ System Application       Manages t Started       Manual       Local System         Computer Browser       Maintains a Started       Automatic       Local System         Cryptographic Services       Provides th Started       Automatic       Local System         DCOM Server Process Launcher       Provides la Started       Automatic       Local System         DCOM Server Process Launcher       Provides la Started       Automatic       Local System         DCOP Client       Registers a Started       Automatic       Network Service         Distributed File System       Integrates       Manual       Local System         Distributed Link Tracking Client       Enables cli Started       Automatic       Local System         Distributed Link Tracking Server       Enables th       Disabled       Local System         Distributed Transaction Coordinator       Coordinate Started       Automatic       Network Service         Distributed Transaction Coordinator       Resolves a Started       Automatic       Network Service		CMService		Started	Manual	amc\devservice						
COM+ System Application       Manages t       Started       Manual       Local System         Computer Browser       Maintains a       Started       Automatic       Local System         Cryptographic Services       Provides th       Started       Automatic       Local System         DCOM Server Process Launcher       Provides th       Started       Automatic       Local System         DHCP Client       Registers a       Started       Automatic       Network Service         Distributed File System       Integrates       Manual       Local System         Distributed Link Tracking Client       Enables cli       Started       Automatic       Local System         Distributed Link Tracking Server       Enables cli       Started       Automatic       Local System         Distributed Transaction Coordinator       Coordinate       Started       Automatic       Network Service         DNS Client       Resolves a       Started       Automatic       Network Service		COM+ Event System	Supports S	Started	Automatic	Local System						
Computer Browser       Maintains a Started       Automatic       Local System         Cryptographic Services       Provides th Started       Automatic       Local System         DCOM Server Process Launcher       Provides la Started       Automatic       Local System         DHCP Client       Registers a Started       Automatic       Network Service         Distributed File System       Integrates Started       Automatic       Network Service         Distributed Link Tracking Client       Enables cli Started       Automatic       Local System         Distributed Link Tracking Server       Enables cli Started       Automatic       Local System         Distributed Link Tracking Server       Enables th       Disabled       Local System         Distributed Transaction Coordinator       Coordinate Started       Automatic       Network Service         Distributed Transaction Coordinator       Resolves a Started       Automatic       Network Service		COM+ System Application	Manages t	Started	Manual	Local System						
Cryptographic Services       Provides th Started       Automatic       Local System         DCOM Server Process Launcher       Provides la Started       Automatic       Local System         DHCP Client       Registers a Started       Automatic       Network Service         Distributed File System       Integrates Manual       Local System         Distributed Link Tracking Client       Enables cli Started       Automatic       Local System         Distributed Link Tracking Server       Enables th       Disabled       Local System         Distributed Transaction Coordinator       Coordinate Started       Automatic       Network Service         Distributed Transaction Coordinator       Resolves a Started       Automatic       Network Service		Computer Browser	Maintains a	Started	Automatic	Local System						
Image: Construction of the system       Provides Ia Started       Automatic       Local System         Image: Construction of the system       Registers a Started       Automatic       Network Service         Image: Construction of the system       Integrates Manual       Local System         Image: Construction of the system       Integrates Manual       Local System         Image: Construction of the system       Enables cli Started       Automatic       Local System         Image: Construction of the system       Enables cli Started       Automatic       Local System         Image: Construction of the system       Enables cli Started       Automatic       Network Service         Image: Construction Coordinator       Coordinate Started       Automatic       Network Service         Image: Construction Coordinator       Resolves a Started       Automatic       Network Service		Cryptographic Services	Provides th	Started	Automatic	Local System						
Image: Started Problem       Registers a Started Automatic       Network Service         Image: Started Problem       Integrates Manual Local System         Image: Started Problem       Enables cli Started Automatic Local System         Image: Started Problem       Started Problem         Image: Started Problem       Enables cli Started Automatic Local System         Image: Started Problem       Disabled Local System         Image: Started Problem       Disabled Local System         Image: Started Problem       Disabled Local System         Image: Started Problem       Started Automatic Network Service         Image: Started Problem       Resolves a Started Automatic Network Service		DCOM Server Process Launcher	Provides la	Started	Automatic	Local System						
Distributed File System       Integrates       Manual       Local System         Distributed Link Tracking Client       Enables cli       Started       Automatic       Local System         Distributed Link Tracking Server       Enables th       Disabled       Local System         Distributed Link Tracking Server       Enables th       Disabled       Local System         Distributed Transaction Coordinator       Coordinate       Started       Automatic       Network Service         Distributed Transaction Coordinator       Resolves a       Started       Automatic       Network Service		Client	Registers a	Started	Automatic	Network Service						
Distributed Link Tracking Client       Enables cli       Started       Automatic       Local System         Distributed Link Tracking Server       Enables th       Disabled       Local System         Distributed Link Tracking Server       Enables th       Disabled       Local System         Distributed Transaction Coordinator       Coordinate       Started       Automatic       Network Service         Distributed Transaction Coordinator       Resolves a       Started       Automatic       Network Service		System 2015 Strain Contract St	Integrates		Manual	Local System						
Distributed Link Tracking Server Enables th Disabled Local System     Distributed Transaction Coordinator Coordinate Started Automatic Network Service     Disclient Resolves a Started Automatic Network Service		🆏 Distributed Link Tracking Client	Enables cli	Started	Automatic	Local System						
Distributed Transaction Coordinator Coordinate Started Automatic Network Service     Distributed Transaction Coordinator Resolves a Started Automatic Network Service		Server 2000 Server	Enables th		Disabled	Local System						
💑 DNS Client Resolves a Started Automatic Network Service 🥣		Solution Coordinator	Coordinate	Started	Automatic	Network Service						
		Schent & Client	Resolves a	Started	Automatic	Network Service						
Collecter & Collecter & Collecter & Collecter & Collecter		(63) Common Description - Commission	~-II	CLINE J	A	1 I C +	<u> </u>					

• Start the CMServices from the Services management window.

• Restart IIS by running the **iisreset** command in a command prompt window for SAPWeb/CRM7.

# 8. Configure SAPWeb/CRM7

As there are 6 CRM adapters tested, this section will describe only the procedure for adding agents to SAPWeb/CRM7. From the CCS server, start the **Agent Configuration Manager** to set up the agents. Navigate to **File→Open→Agents** as shown below.

ANS?				AN	IC IA Configuration Manager		x
File	Edit	View	Window	Help			
	New			•			
	Open			•	Database Connections		
	Impor	t / Expo	ort Agents		MCMS Servers		
	Close				Agents		
	Exit				Workcenters		
Conne	ected to	(local)\{	SQLEXPRE	SS			//

From the Edit Agent Wizard window, select CCS server below and click Next.

<u>9</u>	Edit Agent Wizard 📃 🗖 🗙										
Ec	Edit Agent Wizard This wizard modifies the configuration for an Agent										
	Please choose the server which t	his agent is configured t	o use:								
	MCMS Server Name	Host	Port								
	amew12ccsvasu	amcw12ccsvasu	80								
		< Back	Next >	Cancel							

In the next window, specify the **Agent User Id** (e.g., **tester2**) and click **Next**.

<u>9</u>	Edit Ag	ent Wizard	Ŀ	- 🗆 X
Edit / This	gent Wizard wizard modifies the configurat	ion for an Age	ent	
Selec Age Ne Ex	he User Id for the agent you wish to User Id :: :: ting: tester2 : Delete selected agent	o configure ▼		
		< Back	Next >	Cancel

In the last window, the **Extension**, **AgentID**, and **AgentIDPassword** configured in **Sections 5.5** and **5.6** are specified. Click **Finish**.

<u>9</u>	Edit Agent Wizard - tester2									
Edit Agent Wizard - tester2 This wizard modifies the configuration for an Agent										
Telephony (CTI1)										
Name	Value	Please fill in the configuration								
Extension	10001	information for this channel								
AgentID	11001									
AgentIDPassword	1234									
Queues	14001									
		Skip this channel								
< Back Finish Cancel										

# 9. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya Aura® Communication Manager, Avaya Aura® Application Enablement Services, the AMC Connector and SAPWeb/CRM7.

### 9.1. Verify Avaya Aura® Communication Manager

On Communication Manager, verify the status of the administered CTI link by using the "status aesvcs cti-link" command. Verify that the **Service State** is "established" for CTI link 2 administered in **Section 5.2** as shown below.

statu	status aesvcs cti-link										
			AE SERVICES	CTI LINK STAT	US						
CTI Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Revd					
1		no		down	0	0					
2		no		down	0	0					
3	7	no	aes6x	established	15	15					
4	7	no	aes6x	established	15	15					

### 9.2. Verify Avaya Aura® Application Enablement Services

On Application Enablement Services, verify the status of the TSAPI link by selecting Status → Status and Control→TSAPI Service Summary from the left pane. The TSAPI Link Details screen is displayed. Verify the Status is "Talking" for the TSAPI link administered in Section 6.3 as shown below.

	Application Enablement Services Management Console									Last login: Thu Feb 12 21:53:14 2015 from 10.1.10.153 Number of prior failed login attempts: 0 HostName/IP: aes6x/10.1.10.70 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.3.1.10-0 Server Date and Time: Fri Feb 13 14:55:11 SGT 2015 HA Status: Not Configured				
Status   Status and Control  TSAP]	Service	e Sum	nmary							Ha	me   Hel	p   Logout		
<ul> <li>▶ AE Services</li> <li>Communication Manager</li> <li>Interface</li> <li>High Availability</li> </ul>	TSAF	PI Link	<b>Details</b> age refresh	every 60	✓ secor	nds								
<ul> <li>Licensing</li> <li>Maintenance</li> <li>Networking</li> </ul>		Link	Switch Name	Switch CTI Link ID	Status	Since	State	Switch Version	Associations	Msgs to Switch	Msgs from Switch	Msgs Period		
Security     Status	۲	3	Duplex	3	Talking	Wed Feb 4 11:29:08 2015	Online	16	0	15	15	30		
Log Manager	On	line	Offline											
Status and Control     CVLAN Service Summary     DLG Services Summary     DMCC Service Summary     Switch Conn Summary     TSAPI Service Summary	For se	rvice-w	ide informal	tion, choos s TLin	e one of ti	he tollowing: User Stat	us							

### 9.3. Verify AMC Connector and SAPWeb/CRM7

To verify that AMC Connector and SAPWeb/CRM7 are operational, log into the SAP Web client and change the agent state from "Not Ready" to "Ready". Place a call to the VDN that routes the call to the agent and verify that the SAPWeb client receives the call and that the call can be answered. Prior to performing these steps, check that the AMC Connector has established a connection for the Application Enablement services by reviewing the **CTIModule.log** file.

Enter the appropriate URL in an internet browser to access the SAP Web client login screen shown below. Click **Log On**.

	SAP Net	Neaver
A Start	No switch to HTT password System: Client: *	PS occurred, so it is not secure to send a
	User: * Password: * Language:	English v
	Change Password	Log On
	Copyright © 2015 SAP	AG. All rights reserved.

Log on using the appropriate credentials.

	SAP Net	Veaver
A STATE OF	No switch to HTTF password	PS occurred, so it is not secure to send a
	System:	C13
	Client: *	010
	User: *	tester2
	Password: *	*
	Language:	English 👻
	Change Password	
	Copyright © 2015 SAP	AG. All rights reserved.



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Verify that the agent is logged in and the default state is "Not Ready".

SAP CRM Inter	action Center						Personative Apstern News Log.
0					1		
C Aust	Report [ Host ] Retrieve [ Hang Lp ] Traveller [ 4	Varan Transfer   Consult	Garderware   Topgie	Card Tel: Dat Post   Reset 1	D CHAINERSTON DTW/ Part Log Of		Water a fur Really
						Smed Southet -	Contraction of the second
Contraction Contraction	Identify Account						2
None of the other							.00
Account identification	Access				Installed Black   Others		
Account Fact Sheet	Cost Russel and Allers				Company in the	B time are togged on to the	construction regist activate syste
Account Overview	Account				Donated D		
Interaction Record	Account ID				his starting		M
Interaction History	Street Name Number				Bearth (Caar)		
Fea	Chr						
Letter	Postal Code/Report		0				
<b>Nauwledge Search</b>	Country	8					
Hauwiedge Article Sea	Transatties O						
E.Mail	Contact Type:	Al					
Solat	Telephone						
inhes	E-Mail Address						
Index	Fac						
	Pairtosta	Has Cantact Person					
	Rear & Percent Poort (1994) (1)						
	Second Line						- C 4
	The second se	in the second	and a second	Banket Contra	1.00	Tabut and	163110
	Access Acces	84 L/ ·	1000	Plane Colle	1.5.87	Terrore	CONTROL

Change the state to "Ready" as shown below.

SAP CRM Inter	action Center						Personalis Syst	Int News Log Cit
6								
C Accept	Holens   House   House   Hard Ch 5 Lawrence   A	vane frankter Cantal	Conversione   Toppe   Cod   6	Dull Part - Reear C	The Count offer although DOMF Part   Log CH		· Hants	Not Ready *
						field Seatter *		Ine American State
Sector Contra	mensity account							9-9-9-
								100
Account Montfication	Account				Installed Spec   Hubble			
Account Fact Sheet	First Normal and Name				Contravient (D			.0
Account Gvervlew	Assault				Product (D)			10
Interaction Record	Autourt (D)				inertification			10
Interaction History	StathHouse Number				Search Dear			
Fee	City				100 million 100			
Letter	Plantal Code/Requiry		0					
Kesseledge Search	Dourity	12						
Knowledge Article Sea	Transactor (D							
E-Mail	Context Type	AI.		10				
Script	Septem.							
hétos	E-Mail Antropo.							
Index	Fait							
	Relationenep	Has Contact Person						
	Search Account (Heard) (Chair (C))							
	Contrast Line							17.4
	Table 1 and	in the second	The second se	I Water Print	1994	Providence -	Concerns V	110-00
	-Choller T. Piete	100 m		Plane Code	1.44	Condition of the	C. Barner States	

Place a call to the VDN that routes the call to the agent. Verify that the call is delivered to the agent and the call can be answered and disconnected.

# 10. Conclusion

These Application Notes describe the configuration steps required to integrate 3rd party business applications in a call center environment consisting of Avaya Aura® Communication Manager using the AMC Connector for Avaya Aura® Application Enablement Services (AES). The AMC connector used a TSAPI link to provide CTI integration to CCS and all the CRM adapters used, including call control, agent session control and screen pop. All test cases were completed with an observation noted in **Section 2.2**.

# 11. Additional References

This section references the Avaya documentation relevant to these Application Notes. The following Avaya product documentation is available at <u>http://support.avaya.com</u>.

- [1] *Administering Avaya Aura*<sup>®</sup> *Communication Manager*, Release 6.3, June 2014, Issue 10.0, Document Number 03-300509.
- [2] Avaya Aura<sup>®</sup> Application Enablement Services Administration and Maintenance Guide, June 2014, Release 6.3, Document Number 02-300357.
- [3] AMC Telephony Connector Avaya Computer Telephony Implementation Guide, Version 6.5.0.0.

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