

Avaya Solution & Interoperability Test Lab

Application Notes for InteractCRM ThinConnect 7.1 with Avaya Aura® Communication Manager 6.3 and Avaya Aura® Application Enablement Services 6.3 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for InteractCRM ThinConnect 7.1 to interoperate with Avaya Aura® Communication Manager 6.3 and Avaya Aura® Application Enablement Services 6.3. InteractCRM ThinConnect is a desktop CTI solution.

In the compliance testing, InteractCRM ThinConnect used the Java Telephony Application Programming Interface from Avaya Aura® Application Enablement Services to monitor contact center agents on Avaya Aura® Communication Manager, to provide screen pop and call control from the web-based agent desktops.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as any observations noted in **Section 2.2**, to ensure that their own use cases are adequately covered by this scope and results.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe the configuration steps required for InteractCRM ThinConnect 7.1 to interoperate with Avaya Aura® Communication Manager 6.3 and Avaya Aura® Application Enablement Services 6.3. InteractCRM ThinConnect is a desktop CTI solution.

In the compliance testing, InteractCRM ThinConnect used the Java Telephony Application Programming Interface (JTAPI) from Avaya Aura® Application Enablement Services to monitor contact center agents on Avaya Aura® Communication Manager, to provide screen pop and call control from the web-based agent desktops.

JTAPI is a client-side interface to the Telephony Services Application Programmer Interface (TSAPI) on Avaya Aura® Application Enablement Services. As such, these Application Notes will describe the required configurations for creation and connectivity to the TSAPI service.

2. General Test Approach and Test Results

The feature test cases were performed manually. Incoming calls were placed to the VDNs with available agents. Manual call controls from the agent desktop were exercised to verify proper call handling such as transfer and conference.

The serviceability test cases were performed manually by disconnecting/reconnecting the Ethernet connection to the ThinConnect server and to the agent 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.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on verifying the following on ThinConnect:

- Handling of JTAPI/TSAPI messages in the areas of event notifications, value queries, and set agent states.
- Use of JTAPI/TSAPI call control services to support call control actions such as answer and transfer from the agent desktops.
- Proper handling of call scenarios involving inbound, outbound, internal, external, ACD, non-ACD, screen pop, drop, hold/resume, multiple calls, multiple agents, conference, transfer, long duration, pending work mode, and reason codes.

The serviceability testing focused on verifying the ability of ThinConnect to recover from adverse conditions, such as disconnecting/reconnecting the Ethernet connection to ThinConnect.

2.2. Test Results

All test cases were executed, and the following were observations on ThinConnect:

- In general, mixed use of agent desktop and telephone to perform call control actions are supported. For the transfer and conference features, however, all actions need to start and complete from the same source.
- The application does not support TSAPI user credentials that contained the special character semicolon.
- In the conference scenario, after one of the other parties drop from the conference, the conference-from agent desktop will continue to show the Outgoing Conference dialog box when only two parties remained on the call.
- Toggling between two calls is not supported by the desktop by design, and the workaround is to use the telephone instead.
- When an active call stayed up with an agent during a brief 30 seconds of disruption to the desktop LAN connection, the active call can be dropped by the application as part of the agent re-login process.
- Upon terminating a personal or internal call, the Wrap Up tab automatic comes to the foreground as in the case with ACD calls.

2.3. Support

Technical support on ThinConnect can be obtained through the following:

- **Phone:** (510) 795-7645
- Email: <u>usa@interactcrm.com</u>

3. Reference Configuration

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

In the compliance testing, ThinConnect monitored the agent stations shown in the table below.

Device Type	Extension
VDNs	60001, 60002
Skill Groups	65081, 65082
Supervisor	65000
Agent Stations	65001, 65002
Agent IDs	65881, 65882
Agent Passwords	65881, 65882



Figure 1: Compliance Testing Configuration

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® Communication Manager on Avaya S8800 Server with Avaya G650 Media Gateway	6.3.9 (R016x.03.0.124.0-21971)
Avaya Aura® Application Enablement Services	6.3.3 SP1 (6.3.3.1.10-0)
Avaya 1616 IP Deskphone (H.323)	1.350B
Avaya 9611G IP Deskphone (H.323)	6.4014
Avaya 9650 IP Deskphone (H.323)	3.230A
InteractCRM ThinConnect on Windows Server 2008 • Interaction Manager • Avaya JTAPI Client	7.1 R2 Enterprise 6.3.0.3 (Build 40) 6.3.0.12

5. Configure Avaya Aura® Communication Manager

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

- Verify license
- Administer CTI link
- Administer system parameters features
- Obtain VDN names
- Obtain reason codes

5.1. Verify License

Log in to the System Access Terminal 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 set to "y", then contact the Avaya sales team or business partner for a proper license file.

```
display system-parameters customer-options
                                                                       Page
                                                                               3 of 11
                                   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
        Analog Trunk Incoming Call ID? y
                                                                     CAS Branch? n
A/D Grp/Sys List Dialing Start at 01? y
                                                                         CAS Main? n
Answer Supervision by Call Classifier? y
                                                              Change COR by FAC? n
                                     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
                                                              DCS Call Coverage? y
           ASAI Link Core Capabilities? n
          ASAI Link Plus Capabilities? n
                                                            DCS with Rerouting? y
```

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 2
CTI Link: 2
Extension: 60100
Type: ADJ-IP
COR: 1
COR: 1
```

5.3. Administer System Parameters Features

Use the "change system-parameters features" command to enable **Create Universal Call ID** (UCID), which is located on **Page 5**. For UCID Network Node ID, enter an available node ID.

```
change system-parameters features
                                                               Page
                                                                     5 of 20
                       FEATURE-RELATED SYSTEM PARAMETERS
SYSTEM PRINTER PARAMETERS
                        Lines Per Page: 60
 Endpoint:
SYSTEM-WIDE PARAMETERS
                                    Switch Name:
           Emergency Extension Forwarding (min): 10
         Enable Inter-Gateway Alternate Routing? n
Enable Dial Plan Transparency in Survivable Mode? n
                             COR to Use for DPT: station
               EC500 Routing in Survivable Mode: dpt-then-ec500
MALICIOUS CALL TRACE PARAMETERS
              Apply MCT Warning Tone? n MCT Voice Recorder Trunk Group:
     Delay Sending RELease (seconds): 0
SEND ALL CALLS OPTIONS
    Send All Calls Applies to: station
                                          Auto Inspect on Send All Calls? n
             Preserve previous AUX Work button states after deactivation? n
UNIVERSAL CALL ID
    Create Universal Call ID (UCID)? y
                                          UCID Network Node ID: 27
```

Navigate to **Page 13**, and enable **Send UCID to ASAI**. This parameter allows for the universal call ID to be sent to ThinConnect.

```
change system-parameters features
                                                               Page 13 of 20
                        FEATURE-RELATED SYSTEM PARAMETERS
CALL CENTER MISCELLANEOUS
          Callr-info Display Timer (sec): 10
                        Clear Callr-info: next-call
       Allow Ringer-off with Auto-Answer? n
   Reporting for PC Non-Predictive Calls? n
           Agent/Caller Disconnect Tones? n
         Interruptible Aux Notification Timer (sec): 3
            Zip Tone Burst for Callmaster Endpoints: double
 ASAT
           Copy ASAI UUI During Conference/Transfer? y
       Call Classification After Answer Supervision? y
                                   Send UCID to ASAI? y
          For ASAI Send DTMF Tone to Call Originator? y
 Send Connect Event to ASAI For Announcement Answer? n
```

5.4. Obtain VDN Names

Use the "list vdn" command to display a list of pre-configured VDNs. Make a note of the **Name** for each VDNs from **Section 3**, which will be used later to configure ThinConnect. In the compliance testing, the two VDNs shown below were used.

list vdn								Page	1
	VECTOR DIRE	CTOR	Y NUI	MBER	S				
Name (22 characters)	Ext/Skills	VDN Ovr	COR	TN	Vec PRT	Num	Orig Meas Annc	Evnt Noti Adj	
InteractCRM Sales	60001	n	1	1	V	1	none	1	
InteractCRM Support	60002	n	1	1	V	2	none	1	

5.5. Obtain Reason Codes

For contact centers that use reason codes, enter the "change reason-code-names" command to display the configured reason codes. Make a note of the **Aux Work** reason codes, which will be used later to configure ThinConnect.

Note that ThinConnect makes use of a default reason code and a system reason code for use with aux work upon login. In the compliance testing, separate reason codes were created for these two purposes, as shown below.

```
change reason-code-names
                                                                   1 of
                                                                          1
                                                            Page
                              REASON CODE NAMES
                         Aux Work/
                                            Logout
                      Interruptible?
       Reason Code 1: Tea Break
                                    /n
       Reason Code 2: Lunch Brea
                                    /n
       Reason Code 3: Restroom
                                    /n
       Reason Code 4: Outbound
                                    /n
       Reason Code 5: Aux on Login
                                    /n
       Reason Code 6:
                                    /n
       Reason Code 7:
                                    /n
       Reason Code 8:
                                    /n
       Reason Code 9:
                                    /n
 Default Reason Code: 0
```

6. Configure Avaya Aura® Application Enablement Services

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

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

6.1. Launch OAM Interface

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

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

AVAYA	Application Enablement Services Management Console	
		Hel
	Please login here: Username	
	Continue	
	Copyright © 2009-2014 Avaya Inc. All Rights Reserved.	

The Welcome to OAM screen is displayed next.

AVAYA	Application Enablement Services Management Console	Welcome: User Last login: Tue Jan 27 06:48:26 2015 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.3.1.10-0 Server Date and Time: Tue Jan 27 06:49:44 MST 2015 HA Status: Not Configured
Home		Home Help Logout
> AE Services		
Communication Mana	ger Welcome to OAM	
High Availability	The AE Services Operations, Administration, and Managem	ent (OAM) Web provides you with tools for
▶ Licensing	AE Services - Use AE Services to manage all AF Services	vices that you are licensed to use on the AE
Maintenance	Server. • Communication Manager Interface - Use Communic	ation Manager Interface to manage switch
Networking	connection and dialplan.	
Security	Licensing - Use Licensing to manage the license set	Ver.
→ Status	Namenance - Ose Namenance to manage the rout Networking - Use Networking to manage the netwo	rk interfaces and ports.
> User Management	 Security - Use Security to manage Linux user accou authorization, configure Linux-PAM (Pluggable Auth 	entication Modules for Linux) and so on.
Vtilities	 Status - Use Status to obtain server status infomati User Management - Use User Management to mana 	ions. age AE Services users and AE Services user-
⊧ Help	 elated resources. Utilities - Use Utilities to carry out basic connectivit Help - Use Help to obtain a few tips for using the O 	y tests. AM Help system
	Depending on your business requirements, these administ administrator for all domains, or a separate administrator	rative domains can be served by one for each domain.

6.2. Verify License

Select Licensing \rightarrow WebLM Server Access in the left pane, to display the Web License Manager pop-up screen (not shown), and log in using the appropriate credentials.



The Web License Manager screen below is displayed. Select Licensed products \rightarrow APPL_ENAB \rightarrow Application_Enablement in the left pane, to display the Application Enablement (CTI) screen in the right pane.

Verify that there is sufficient license for TSAPI Simultaneous Users, as shown below.

AVAYA We	eb License Manager (W	ebLM v6	.3) не	ip About Change Passw	
	Anolization Frablamont (CTT) - Bal		10503000 54	andard Licensee file	
WebLM Home	Application enablement (C11) - Rei	ease: 6 - SID:	10:03000 50	andard License me	
Install license	You are here: Licensed Products > Applicatio	n, Enablement >	View License Capacity		
Licensed products	License installed on: May 11, 2012 7:0	France installed on: May 11, 2012 7:07:47 PM -04:00			
APPL_ENAB	bende abtaneo on: may 11, 2012 7.07.97 PM -09700				
 Application_Enablement 	License File Host IDs: 00-15-3F-	48-80-82			
View license capacity		100 Selet 198			
View peak usage					
Uninstall license	Licensed Features				
Server properties	The second second second second				
Manage users	10 Items C Show ALL		1		
	reature (License Keyword)	Expiration dat	e Licensed capacity		
eip for Installed Product	VALUE_AES_CVLAN_ASAI	permanent	16		
nep for mistalies Product	Unified CC API Desktop Edition VALUE_AES_AEC_UNIFIED_CC_DESKTOP	permanent	10000		
	AES ADVANCED SMALL SWITCH VALUE_AES_AEC_SMALL_ADVANCED	permanent	16		
	CVLAN Proprietary Links VALUE_ACS_PROPRIETARY_LINKS	permenent	16		
	Product Rotes VALUE_NOTES	permanent	SmallServerTypes: #3300c;s8300d;icc;premio;tn8400;leptop;C MedumsServerTypes: ibmx306;ibmx306;m;dell950;xen;hs30;hs2 LargeServerTypes: isp2100;ibmx305;d1380g3;d1385g1;d1385g1 TruatedApplications: IPS_001, BasicUnrestric DMCUnrestricted; IXP_001, BasicUnrestricted; DMCUnrestricted; IXP_001, BasicUnrestricted; DMCUnrestricted; IXP_001, BasicUnrestricted; DMCUnrestricted; IXP_001, BasicUnrestricted; DMCUnrestricted; IXP_001, BasicUnrestricted; DMCUnrestricted; VP_001, BasicUnrestricted; DMCUnrestricted; VP_001, BasicUnrestricted; DMCUnrestricted; VP_001, BasicUnrestricted; DMCUnrestricted; VP_001, BasicUnrestricted; DMCUnrestricted; VP_001, BasicUnrestricted; DMCUnrestricted; DMCUnrestricted; DMCUnrestricted; AdvancedUnrestricted, DMCUnrestricted; A BasicUnrestricted, AdvancedUnrestricted; A BasicUnrestricted, AdvancedUnrestricted; A BasicUnrestricted, AdvancedUnrestricted; A BasicUnrestricted, AdvancedUnrestricted; A BasicUnrestricted, AgentEvents;	CHS 20_ Linu Hot Hot Hot Hot Hot Hot VA MU Hot Hot Hot Hot Hot Hot Hot Hot Hot Hot	
	AES ADVANCED LARGE SWITCH VALUE_AES_AEC_LARGE_ADVANCED	permanent	16		
	TSAPI Simultaneous Users VALUE_AES_TSAPI_USERS	permanent	10000		
	DLG VALUE_AES_DLG	permanent	16		
	Device Media and Call Control VALUE_AES_DMCC_DMC	permanent	10000		
	AES ADVANCED MEDIUM SWITCH VALUE_AES_AEC_MEDIUM_ADVANCED	permanent	16		

6.3. Administer TSAPI Link

Select AE Services \rightarrow TSAPI \rightarrow TSAPI Links from the left pane of the Management Console, to administer a TSAPI link. The TSAPI Links screen is displayed, as shown below. Click Add Link.

avaya	Application Enablement Services Management Console	Welcome: User Last login: Tue Jan 27 06:48:26 2015 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.3.1.10-0 Server Date and Time: Tue Jan 27 06:49:44 MST 2015 HA Status: Not Configured
AE Services TSAPI 1	ISAPI Links	Home Help Logout
▼ AE Services		
> CVLAN	TSAPI Links	
> DLG	Link Switch Connection Switch CT	I Link # ASAI Link Version Security
▶ DMCC	Add Link Edit Link Delete Link	
> SMS		
TSAPI		
TSAPI Links TSAPI Propertie	s	

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 "S8800" is selected. For **Switch CTI Link Number**, select the CTI link number from **Section 5.2**. Retain the default values in the remaining fields.

AVAYA	Application Enablement Services Management Console	Welcome: User Last login: Tue Jan 27 06:48:26 2015 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.31.10-0 Server Date and Time: Tue Jan 27 06:49:44 MST 2015 HA Status: Not Configured
AE Services TSAPI TS	API Links	Home Help Logout
AE Services CVLAN DLG DMCC SMS	Add TSAPI Links Link 1 Switch Connection 58800 Switch CTI Link Number 2	
 TSAPI TSAPI Links TSAPI Properties TWS Communication Mana Interface 	ASAI Link Version 6 V Security Unencrypted V Apply Changes Cancel Changes	

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6.4. Disable Security Database

Select Security \rightarrow Security Database \rightarrow Control from the left pane, to display the SDB Control for DMCC, TSAPI, JTAPI and Telephony Web Services screen in the right pane. Uncheck both fields below.



6.5. Restart Service

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



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, to be used later for configuring ThinConnect.

In this case, the associated Tlink name is "AVAYA#**S8800**#CSTA#AES_125_72". Note the use of the switch connection "S8800" from **Section 6.3** as part of the Tlink name.

AVAYA	Application Enablement Services Management Console	Welcome: User Last login: Tue Jan 27 06:48:26 2015 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes.125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPILANCE_ON_SP SW Version: 6.3.3.1.10-0 Server Date and Time: Tue Jan 27 06:49:44 MST 2015 HA Status: Not Configured
Security Security Datab	ase Tlinks	Home Help Logout
 AE Services Communication Manage Interface High Availability 	r Tlinks	
▶ Licensing	O AVAYA#S8300D#CSTA#AES_125_72	
Maintenance	AVAYA#S8800#CSTA#AES_125_72	
Networking		
* Security		
Account Managemer	ht	
> Audit		
 Certificate Manager 	nent	
Enterprise Directory		
▶ Host AA		
► PAM		
* Security Database		
 Control CTI Users Devices Device Groups Tlinks 		

6.7. Administer InteractCRM User

Select User Management \rightarrow User Admin \rightarrow Add User from the left pane, to display the Add User screen in the right pane.

Enter desired values for User Id, Common Name, Surname, User Password, and Confirm Password. For CT User, select "Yes" from the drop-down list. Retain the default value in the remaining fields.

Application Enablement Services Management Console			Welcome: User Last login: Tue Jan 27 06:48:26 2015 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.3.1.10-0 Server Date and Time: Tue Jan 27 06:49:44 MST 2015 HA Status: Not Configured
User Management User	Admin Add User		Home Help Logout
 AE Services Communication Mana Interface High Availability 	ager Add User Fields marked with * can * User Id	not be empty.	
 Licensing Maintenance Networking 	* Common Name * Surname * User Password	interactorm	
▶ Security▶ Status	* Confirm Password Admin Note	[
 User Management Service Admin User Admin Add User Change User Passi List All Users Modify Default Use Search Users Utilities Help 	Avaya Role Business Category Car License CM Home CSS Home CT User PTS Department Number Display Name Employee Number Employee Type	None None	
	Enterprise Handle Given Name		

7. Configure InteractCRM ThinConnect

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

- Launch web interface
- Administer server
- Administer agents
- Administer queues
- Administer aux codes

The configuration of ThinConnect is performed by InteractCRM implementation specialists. The procedural steps are presented in these Application Notes for informational purposes.

7.1. Launch Web Interface

Launch the web interface by using the URL "http://ip-address:15050/ContactCenterManager" in an Internet Explorer browser window, where "ip-address" is the IP address of the ThinConnect server.

The **ThinConnect Contact Center Manager** screen below is displayed. Log in using the appropriate credentials.

ThinCon	nect Contact Center Manager	
	Login Id	
Thin Connect		

7.2. Administer Server

The WELCOME screen below is displayed

ThinConnect Multimedia Administration		Hi, (
Server Manager		
Tenant Group		
Administration		
Manage Servers		
	WELCOME	

Select Server Manager \rightarrow Server from the left pane, to display the Server Details screen. Click on the Interaction Manager entry.

er ver manager								
Server	Se	rver D	etails		Add S	erver Upda	ate Exp	ort Delete
Server Interaction	Sr.No.	Select	Server Type	Host	Connector	Shutdown	AJP	Additional
Tenant Group	1.		ADS Server	WIN-	8888	35985	8889	settings
Administration	2.		Agent Desktop	WIN- HAKI 70A235V	18080	18005	18009	
Manage Servers	3.		CDS Server	WIN- HAKL70A235V	9999	45985	9996	o
	4.		Interaction Manager	WIN- HAKL7OA235V	8080	8005	8089	
	5.		Multimedia Interaction Manager	WIN- HAKL7OA235V	5050	5005	5009	
	6.		System Manager	WIN- HAKL7OA235V	7070	7005	7009	
	7.		VoiceQueueMonitor	WIN- HAKL7OA235V	45325	45326	45327	

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

- AES Host Name: IP address of Application Enablement Services.
- AES User Name: The InteractCRM user credentials from Section 6.7.
- **AES Password:** The InteractCRM user credentials from **Section 6.7**.
- **TS Link String:** The Tlink name from **Section 6.6**.

ThinConnect Multimedia	Administration		Hi,
Server Manager	Edit Sonvor		
Server	Euroerver		
Server Interaction			
Tenant Group	SDK Path *	MIS	
A	AES Host Name *	10.64.125.72	
Administration	AES Port *	450	
Manage Servers	AES User Name *	interactorm	
	AES Password *	InteractCRM123;	
	TS Link String *	AVAYA#S8800#CSTA#AES_12	
	Debug Level *	4	
	Trace File Location *	C://Users//Administrator//Docur	
	Heart Beat Interval in Telephony for AES *	40	
	Max QM communicator thread count *	10	
	Max QM communicator worker count *	5	
	QM communicator sleep time *	30	
	Is CDS Server Enabled *	1	
	Enable Outbound Dialer *	0	
	Outbound Dialer URL *	http://localhost	
	Is Voice Only Deployment *	1	
	Enable Password Encryption *	0	
	Agent Job Status Check Interval(Min) *	5	
		Quant Consul	
		Save Cancel	

7.3. Administer Agents

Follow [3] to create a tenant group and an admin user for the tenant group. Use the procedures in **Section 7.1** to launch the web interface, and log in using the admin user account, in this case mary@interactcrm.com.



Select User Manager \rightarrow Agents from the left pane, to display the Agents screen. Click on CREATE.

ThinConnect Multimedia Admi	nistration					Hi, mary@in	ternotorm.co
Call Flow Manager							
User Manager	Agent	3				CREATE	IMPORT
Apenta			Agent dek	eted successfully.			Contraction of the local data
VIIII ARTING	Sr.No.	Agent ID	First Name	Last Name	Forced Logout	Advance	Delete
Aux Codes		mary@interactcrm.com	Mary	InteractCRM	Forced Logout	0	
Action Rights							
Roles							
User Role Mapping							

The Add Agent screen is displayed. Enter desired values for Login ID, First Name, Last Name, Preferred Name, Password, and Confirm Password.

For Role, select AGENT. For Channels, check Voice.

For **PBX ID**, **PBX Password**, and **Confirm PBX Password**, enter the first agent ID and agent password from **Section 3**. For **Hunt Group**, enter the first skill group extension that the agent belongs to from **Section 3**.

ThinConnect Multimedia Administration		Hi, mary@interactorm.com
Call Flow Manager		
User Manager Add Agent		
Agenti		
Aux Codes	Login ID * sgent1@interactcrm.co	
Action Rights	First Name * AgentOne	
Poles	Last Name * InteractCRM	
	Preferred Name * AgentOna	
User Role Mapping	Password *	
TMS	Confirm Password *	
Reports	Supervisor :	
License Manager	Chausels :	
Manage Servers	Email : 000	
Outrie Manager	Voice :	
Queue manager	Mode Oacd eas	
Tenant Administra	PBX ID * 65881	
Contact Profiling	PBX Password •••••	
Campaign Designe	Confirm PBX Password •••••	
	Station ID	
	Hunt Group * 65081	
	Campaign Mode* INBOUND V	
	Chat :	
	Twitter:	
	Eax :	
	SIPIVoice : 0	
	Task Ceiling	
	SME : D	
	Li Distriturg . Upes Biending	
	Save Cancel	

Repeat this section to add an agent for each agent shown in **Section 3**. In the compliance testing, two agents were created, as shown below.

Call Flow Manager	_						
User Manager	Agent	5				CREATE	IMPORT
Annues			Agent adde	d successfully.			
17 State	Sr.No.	Agent ID	First Name	Last Name	Forced Logout	Advance	Deleta
Aux Codes	1	agent1@interactcrm.com	AgentOne	InteractCRM	Forced Logout	0	Delete
Action Rights	2	agent2@interactcrm.com	AgentTwo	InteractCRM	Forced Logout	0	Delete
Roles	э	maryginteractcrm.com	Mary	InteractCRM	Forced Logout	0	
Jser Role Mapping							
TMS							

7.4. Administer Queues

Select Queue Manager \rightarrow Manage Queues from the left pane, to display the Queues screen. Click on CREATE.

ThinConnect Multimedia Admin	nistration						Hi, ma	ry@interactorm.com
Call Flow Manager								
User Manager	Queu	es						CREATE
тмз	Sr.No.	Name	1D	Media	Tenant	Addressable	Threshold	Delete
Reports	_							
License Manager								
Manage Servers								
Queue Manager								
Manage Guerre								

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

The first VDN extension from Section 3.

- Media Type: "Voice"
- Tenant: "Voice Tenant"
- ID:
- Name:
- The corresponding VDN name from Section 5.4.
- Monitor Context Data: Check this field.
- **Display In Directory:** Check this field.
- Queue Group: "DefaultVoiceQueueGroup"

ThinConnect Multimedia Adminis	strabon		Hi, mary@interactorm.com
Call Flow Manager			
User Manager	Add Queue		9
TMS			
Reports	Media Type *	Voice V	
	Tenant *	VoiceTenant V	
License Manager	1D *	60001	
Manage Servers	Name *	InteractCRM Sales	
Queue Manager	Monitor Context Data +	2	
Manage Gueues	Display In Directory ±	2	
Annat Outsus Manale	Queue Group *	DefaultVoiceQueueGroup 🗸	
Willeur wiene wabben	WrapUp Category 1: ±	Select V	
Manage Queue Grou	WrapUp Category 2: 1	-Select- V	
Tenant Administrat	WrapUp Category 3: t	Select V	
Contract Des filles	WrapUp Category 4: 1	-Select- V	
Contact Profiling	WrapUp Category 5: 1	-Stiloct - V	
Campaign Designe	Priority Group *	No Priority Profiling 🗸	
	Enable Blending a		
	Add	Cancel	

Repeat this section to add a queue for each VDN shown in **Section 3**. In the compliance testing, two queues were created, as shown below.

ThinConnect Multimedia Admi	inistration						Hi, mary@	internctorn
Call Flow Manager								
User Manager	Queue	85						CREATE
7340	Queue ac	dded successfully						
IMS	Sr.No.	Namo	ID	Media	Tenant	Addressable	Threshold	Delete
Reports	1	InteractCRM Sales	60001	Voice	VoiceTenant	YES		Delete
License Manager	2	InteractCRM Support	60002	Voice	VoiceTenant	YES		Delete
Manage Servers	-							
Queue Manager								
Manage Quebes								

7.5. Administer Aux Codes

Select User Manager \rightarrow Aux Codes from the left pane, to display the Manage Aux Codes screen. Click on Create.

ThinConnect Multimedia Adm	ministration	Hi, mary@interactorm.com (
Call Flow Manager		
User Manager	Manage Aux Codes	Create
Agents		
Aux Codes	Alla Group : De	RestAutoop
Action Rights	·	
Roles		

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

- Aux Code Name: The first aux work reason code name from Section 5.5.
- **Tenant:** The first aux work reason code number from **Section 5.5**.

ThinConnect Multimedia Adr	ninistration	Hi, mary@interactcrm.com
Call Flow Manager	Add AuxCode	
User Manager		
Agents	Aux Code Name : Tea Break	
Aux Codes	Aux Code : 1	
Action Rights	Is System Aux? : Is Pavable Aux? :	
Roles		
User Role Mapping	Save Cancel	
TMS		

Repeat this section to add an aux code for each aux work reason code shown in **Section 5.5**. In the compliance testing, six aux codes were created, as shown below. Note that the **Aux Unique Code** values were automatically generated by ThinConnect.

ThinConnect Multimedia Admi	nistration					Hi, mary@int	eracterm.com
Call Flow Manager	(
User Manager	Mana	age Aux Codes					Create
Agents				Aux Group : Default	AurGroon		3
Aux Goldes				Read Realistic & Delectronic			
Action Rights	Sr.No.	Aux Code Name	Aux Code	is System Aux	is Payable Aux	Aux Unique Code	Delete
Roles	3	Tea Broak	1	False	Falso	20	Delete
User Role Mapping	2	Lunch Break	2	False	False	21	Delete
STORY STORY	3	Restroom	з	False	Faise	22	Delete
TMS	4	Outbound	4	False	Faise	23	Delete
Reports	5	Aux on Login	5	True	Faise	24	Delete
License Manager	6	Default	0	False	Faise	26	Delete

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8. Verification Steps

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

8.1. Verify Avaya Aura® Communication Manager

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

statu	s aesvcs	cti-li	nk			
			AE SERVICES	CTI LINK STAT	US	
CTI Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Rcvd
2	6	no	aes_125_72	established	92	80

8.2. Verify Avaya Aura® Application Enablement Services

On Application Enablement Services, verify status of the TSAPI link by selecting Status \rightarrow Status and Control \rightarrow TSAPI Service Summary from the left pane. The TSAPI Link Details screen is displayed. Verify the Status is "Talking" for the TSAPI link administered in Section 6.3, and that the Associations column reflects the number of agents from Section 3 that are currently logged into ThinConnect and therefore monitored, in this case "2".



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8.3. Verify InteractCRM ThinConnect

From the agent PC, launch the Internet Explorer browser window and enter the URL"http://ip-address:18080/AgentDesktop/html/AgentDesktop.jsp", where "ip-address" is the IP address of the ThinConnect server.

The **ThinConnect Unified Agent Desktop** screen is displayed. For **Login Id** and **Password**, enter the relevant user credentials from **Section 7.3**. For **Station Id**, enter the applicable agent station extension from **Section 3**.

ThinConne	ect Unified Agent Desktop
	Login Id Password Station Id
Thin Connect by InteractCRM	

The screen below is displayed next. In the left pane, click on the **AgentO>Aux on Login** dropdown list and select **Become Available**.

AgentO>Aux on Login		
Actions	>	1
NO CONTACTS WAITING	Extension No. : 65001 PBX ID : 65881	T

The left pane is updated, showing the agent in the **Available** mode.

AgentO > Available	*	A 1
NO CONTACT WAITING	S	Extension No.: 65001 PBX ID : 65881

Make an incoming ACD call. Verify that the screen of the available agent is updated to reflect **New Incoming Call**, along with proper call information, as shown below. Click **Answer**.

()	New Incoming Call		Answer
Nu	mber Called:	3035360001	
Ca	II From:	9088485601	
Hu	nt Group:	65081	

Verify that the agent is connected to the PSTN caller with two-way talk paths, and that the screen is updated to reflect call **In Progress** in the left pane, as shown below.

Actions >	New Call from	m 908848560)1	
9088485601 In Progress 3035360001	Work Details	Contact History	Process Guide	Wrap-Up
	CDS ID:	cbb6a0000004020	50a4065cf270f0000	
	Contact Identity:	9088485601		
	Primary DNIS:	3035360001		
	ANI:	9088485601		
	DNIS:	3035360001		

9. Conclusion

These Application Notes describe the configuration steps required for InteractCRM ThinConnect 7.1 to successfully interoperate with Avaya Aura® Communication Manager 6.3 and Avaya Aura® Application Enablement Services 6.3. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

10. Additional References

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

- **1.** *Administering Avaya Aura*® *Communication Manager*, Document 03-300509, Issue 10, Release 6.3, June 2014, available at <u>http://support.avaya.com</u>.
- **2.** Avaya Aura® Application Enablement Services Administration and Maintenance Guide, Release 6.3, 02-300357, June 2014, available at http://support.avaya.com.
- **3.** *InteractCRM ThinConnect Installation Manual*, January 12, 2015, available upon request to InteractCRM Support.

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