

Avaya Solution & Interoperability Test Lab

# Application Notes for configuring Jacada Workspace Agent Desktop to Interoperate with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Application Enablement Services R6.3 - Issue 1.0

## Abstract

These Application Notes describe the configuration steps for Jacada Workspace Agent Desktop to successfully interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services. Jacada Workspace Agent Desktop integrates with Avaya Aura® Application Enablement Services using TSAPI for Computer Telephony Integration.

Readers should pay attention to Section 2, in particular the scope of testing as outlined in Section 2.1 as well as the 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 for Jacada Workspace Agent Desktop to successfully interoperate with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Application Enablement Services R6.3. Jacada Workspace Agent Desktop communicates with telephone sets on Avaya Aura® Communication Manager using the JTAPI API which uses a TSAPI connection on Avaya Aura® Application Enablement Services (AES).

Jacada Workspace Agent Desktop is a call center unified desktop solution that is purpose built to provide an improved customer service experience by streamlining the agents interactions with a large number of systems.

**Note:** JTAPI API uses the TSAPI connection on AES. Throughout this document any reference to either JTAPI or TSAPI should be considered as the same connection type.

# 2. General Test Approach and Test Results

The interoperability compliance testing evaluated Jacada Workspace Agent Desktop to integrate correctly with AES and Communication Manager using the TSAPI link on the AES to gain third-party call control of Communication Manager telephones. A number of compliance tests were carried out using Workspace Agent Desktop to make, receive, hold and transfer calls.

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 both feature functionality and serviceability testing. The feature functionality testing focused on placing and recording calls in different call scenarios with good quality audio recordings and accurate call records. The tests included:

- Agent state change- Make agent Ready/Not Ready using Workspace Agent Desktop.
- Inbound Calls Answer calls using Workspace Agent Desktop.
- Outbound Calls Make calls using Workspace Agent Desktop.
- Call Hold Place calls on hold and retrieve calls using Workspace Agent Desktop.
- Blind Transfer Transfer callers using Workspace Agent Desktop
- Consultative Transfer Transfer callers using Workspace Agent Desktop.
- Inbound Skillset Calls Answer skillset/VDN calls using Workspace Agent Desktop.
- **Failover Testing** Verify the ability of Workspace Agent Desktop to recover from disconnection and reconnection to the Avaya solution.

## 2.2. Test Results

Most functionality and serviceability test cases were completed successfully. The following issues and observations were noted.

Issues:

- 1. Hold/Unhold when calling from Agent 1 to Agent 2. When Agent 1 presses Hold on Workspace Agent Desktop and then Agent 2 presses Hold on hard phone, the CTI link on Agent 1 is broken.
- 2. Call Forward no Answer from Agent 1 to Agent 2 results in the call being answered automatically on the Agent 2 Workspace Agent Desktop, but the call needs to be answered manually on the phone set.

Observations:

- 1. No CLID/CPND information on Workspace Agent Desktop for non VDN calls (both internal and PSTN calls to the agents DN key).
- 2. If calls are left up for a long duration without interaction with the browser, the browser will automatically logout. When the agent logs back in again, the CTI ceases to work. To extricate from this situation, the agent needs to manually hang up the call and logout manually and then log back in using the browser. This timeout is configurable in Jacada WorkSpace Agent Desktop.
- 3. CRM data is only passed to Agent 2 if Agent 1 leaves the conference.
- 4. There is no CRM data passed when a "Blind" or "Cold" transfer is performed from Agent 1 to Agent 2. CRM data is passed for warm and handshake transfers.
- 5. There is no automatic recovery from a LAN failure between the AES and Workspace Agent Desktop Server.

## 2.3. Support

Technical support can be obtained for Jacada Workspace Agent Desktop from the website <u>http://www.jacada.com/about/jacada-worldwide-offices</u>

# 3. Reference Configuration

The configuration in **Figure 1** was used to compliance test Workspace Agent Desktop with Communication Manager using a CTI connection through AES to gain call control of the Avaya one-X® Agent softphone and the Avaya H.323 deskphone.

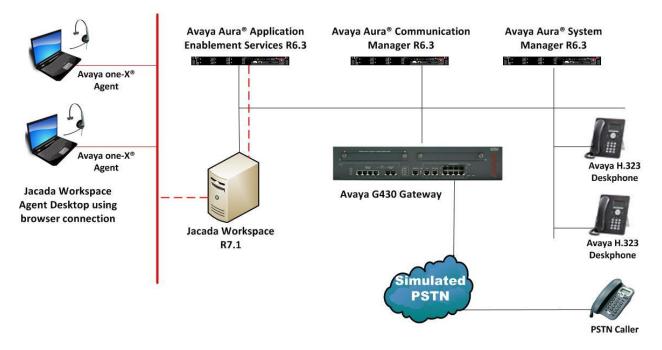


Figure 1: Connection of Jacada Workspace Agent Desktop with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Application Enablement Services R6.3

# 4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® System Manager running on Avaya S8800 Server	System Manager 6.3.7 Build No 6.3.0.8.5682-6.3.8.3204 Software Update Revision No: 6.3.7.7.2275
Avaya Aura® Communication Manager running on Avaya S8800 Server	R6.3 SP6 R016x.03.0.124.0
Avaya Aura® Application Enablement Services running on Avaya S8800 Server	R6.3 Build No - 6.3.0.0.212-0
Avaya G430 Gateway	R6.3
Avaya 96xx/96x1 Series Deskphone	96xx H.323 Release 3.1 SP2
Avaya one-X® Agent	R2.5
Jacada Workspace Agent Desktop	V 7.1

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

The information provided in this section describes the configuration of Communication Manager relevant to this solution. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 10**.

The configuration illustrated in this section was performed using Communication Manager System Administration Terminal (SAT).

## 5.1. Verify System Features

Use the **display system-parameters customer-options** command to verify that Communication Manager has permissions for features illustrated in these Application Notes. On **Page 3**, ensure that **Computer Telephony Adjunct Links?** is set to **y** as shown below.

```
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
                                                              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? y
                                                             DCS (Basic)? y
         ASAI Link Core Capabilities? n
                                                       DCS Call Coverage? y
         ASAI Link Plus Capabilities? n
                                                      DCS with Rerouting? y
      Async. Transfer Mode (ATM) PNC? n
 Async. Transfer Mode (ATM) Trunking? n
                                         Digital Loss Plan Modification? y
             ATM WAN Spare Processor? n
                                                                 DS1 MSP? y
                                ATMS? y
                                                   DS1 Echo Cancellation? y
                 Attendant Vectoring? y
```

# 5.2. Note procr IP Address for Avaya Aura® Application Enablement Services Connectivity

Display the procr IP address by using the command **display node-names ip** and noting the IP address for the **procr** and AES (**aes63vmpg**).

display node-names	s ip	Page	1 of	2
	IP NODE NAMES			
Name	IP Address			
SM100	10.10.40.34			
aes63vmpg	10.10.40.30			
default	0.0.0			
g430	10.10.40.15			
procr	10.10.40.31			

#### 5.3. Configure Transport Link for Avaya Aura® Application Enablement Services Connectivity

To administer the transport link to AES use the **change ip-services** command. On **Page 1** add an entry with the following values:

- Service Type: Should be set to AESVCS.
- Enabled: Set to y.
- Local Node: Set to the node name assigned for the procr in Section 5.10.
- Local Port: Retain the default value of 8765.

change ip-s	services				Page	1 of	4
Service Type AESVCS	Enabled Y	Local Node procr	IP SERVICES Local Port 8765	Remote Node	Remote Port		

Go to **Page 4** of the **ip-services** form and enter the following values:

- AE Services Server: Name obtained from the AES server, in this case aes63vmpg.
- **Password:** Enter a password to be administered on the AES server.
- Enabled: Set to y.

**Note:** The password entered for **Password** field must match the password on the AES server in **Section 6.2**. The **AE Services Server** should match the administered name for the AES server, this is created as part of the AES installation, and can be obtained from the AES server by typing **uname – n** at the Linux command prompt.

change ip-serv	vices			Page	<b>4</b> of	4
	AE	Services Adminis	stration			
Server ID	AE Services Server	Password	Enabled	Status		
1: 2:	aes63vmpg	* * * * * * * *	У	idle		
3:						

## 5.4. Configure CTI Link for TSAPI Service

Add a CTI link using the **add cti-link n** command. Enter an available extension number in the **Extension** field. 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 1
      Page
      1 of
      3

      CTI LINK

      CTI LINK

      CTI LINK

      CTI LINK

      Extension: 2002

      Type: ADJ-IP

      COR: 1

      Name: aes63vmpg
```

## 5.5. Configure Agent Stations

It is assumed that all agent stations are already properly configured and that all monitored phones are already in place. Please refer to the Appendix for a printout of the following that were used during compliance testing.

- Avaya 9620 Deskphone
- Avaya one-X Agent Softphone
- Agent 4400

# 6. Configure Avaya Aura® Application Enablement Services

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

- Verify Licensing
- Create Switch Connection
- Administer TSAPI link
- Identify Tlinks
- Enable TSAPI Ports
- Create CTI User
- Set Up Security Database on AES
- Associate Devices with CTI User

## 6.1. Verify Licensing

To access the AES Management Console, enter **https://<ip-addr>** as the URL in an Internet browser, where <ip-addr> is the IP address of AES. At the login screen displayed, log in with the appropriate credentials and then select the **Login** button.

AVAYA	Application Enablement Services Management Console	
		Неір
	Please login here: Username Password Login	
	© Copyright © 2009-2012 Avaya Inc. All Rights Reserved.	

The Application Enablement Services Management Console appears displaying the **Welcome to OAM** screen (not shown). Select **AE Services** and verify that the TSAPI Service is licensed by ensuring that **TSAPI Service** is in the list of **Services** and that the **License Mode** is showing **NORMAL MODE**. If not, contact an Avaya support representative to acquire the proper license for your solution.

	Application Enableme Management Cons			Welcome: User craft Last login: Wed Dec 12 10:45:16 Number of prior failed login atter HostName/IP: aceS2vmgo.devco Server Offer Type: SWONLY SW Version: r6-2-0-18-0 Server Date and Time: Thu Dec	mpts: 0 innect.local/10.10.40.10
AE Services					Home   Help   Lo
▼ AE Services					
> CVLAN	AE Services				
> DLG					
> DMCC	IMPORTANT: AE Services must be restarted fo Changes to the Security Database do not regu		take effect.		
> SMS					
		Status	State		
► TSAPI	Service	Status	State	License Mode	Cause*
> TSAPI	ASAI Link Manager	N/A	Running	N/A	Cause*
▶ TWS					
► TWS Communication Manager	ASAI Link Manager	N/A	Running	N/A	N/A
<ul> <li>TWS</li> <li>Communication Manager Interface</li> </ul>	ASAI Link Manager CVLAN Service	N/A ONLINE	Running Running	N/A NORMAL MODE	N/A N/A
TWS     Communication Manager     Interface     Licensing	ASAI Link Manager CVLAN Service DLG Service	N/A ONLINE OFFLINE	Running Running Running	N/A NORMAL MODE N/A	N/A N/A N/A
TWS     Communication Manager     Interface     Licensing     Maintenance	ASAI Link Manager CVLAN Service DLG Service DMCC Service	N/A ONLINE OFFLINE ONLINE	Running Running Running Running	N/A NORMAL MODE N/A NORMAL MODE	N/A N/A N/A N/A
TWS     Communication Manager     Interface     Licensing	ASAI Link Manager CVLAN Service DLG Service DMCC Service TSAPI Service	N/A ONLINE OFFLINE ONLINE ONLINE N/A	Running Running Running Running Running	N/A NORMAL MODE N/A NORMAL MODE NORMAL MODE	N/A N/A N/A N/A N/A

## 6.2. Create Switch Connection

From the AES Management Console navigate to **Communication Manager Interface**  $\rightarrow$  **Switch Connections** to set up a switch connection. Enter a name for the Switch Connection to be added and click the **Add Connection** button.

AVAYA	Application Enablement Services Management Console	Welcome: User craft Last login: Thu Nov 14 10:22:12 2013 from 10.10.40.140 Number of prior failed login attempts: 16 HostName/IP: AES63VMPG Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.0.0.212-0 Server Date and Time: Tue Dec 3 15:33:26 UTC 2013
Communication Manager Interfa	ce   Switch Connections	Home   Help   Logout
AE Services     Communication Manager     Interface     Switch Connections     Dial Plan     Licensing     Maintenance	Switch Connections         CM63VMPG       Add Connection         Connection Name       Processor Ethernet       Msg         Edit Connection       Edit PE/CLAN IPs       Edit H.323 Gatekeeper       Delete Connection	g Period Number of Active Connections
<ul> <li>Networking</li> <li>Security</li> </ul>		
→ Status		
<ul> <li>User Management</li> <li>Utilities</li> </ul>		
▶ Help	i	

In the resulting screen enter the **Switch Password**; the Switch Password must be the same as that entered into Communication Manager AE Services Administration screen via the **change ip-services** command, described in **Section 5.3**. Default values may be accepted for the remaining fields. Click **Apply** to save changes.

AVAYA	Application Enablement Services Management Console			Welcome: User craft Last login: Thu Nov 14 10:22:12 2013 from 10.10.40.14 Number of prior failed login attempts: 16 HostName/IP: AESGSVMPG Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.00.212-0 Server Date and Time: Tue Dec 3 15:35:47 UTC 2013
Communication Manager Interfa	ce   Switch Connections			Home   Help   Logou
AE Services     Communication Manager     Interface     Switch Connections     Dial Plan	Connection Details -	•••••		
Licensing	Msg Period	30 Min	utes (1 - 72)	
<ul> <li>Maintenance</li> </ul>	SSL			
▶ Networking	Processor Ethernet			
▹ Security	Apply Cancel			
▶ Status				
▹ User Management				
▶ Utilities				
▶ Help				

From the **Switch Connections** screen, select the radio button for the recently added switch connection and select the **Edit PE/CLAN IPs** button (not shown, see screen at the bottom of page 10). In the resulting screen, enter the IP address of the procr as shown in **Section 5.2** that will be used for the AES connection and select the **Add/Edit Name or IP** button.

AVAYA	Application Enablement Services Management Console	Welcome: User craft Last login: Thu Nov 14 10:22:12 2013 from 10.10.40.140 Number of prior failed login attempts: 16 HostName/IP: AESG3VMPG Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.0.0.212-0 Server Date and Time: Tue Dec 03 15:36:31 UTC 2013
Communication Manager Interfa	ce   Switch Connections	Home   Help   Logout
<ul> <li>▷ AE Services</li> <li>Communication Manager Interface</li> <li>Switch Connections</li> <li>▷ Dial Plan</li> <li>▷ Licensing</li> <li>▷ Maintenance</li> <li>▷ Wainten bio</li> </ul>	Edit Processor Ethernet IP - CM63vmpg       10.10.40.31     Add/Edit Name or IP       Name or IP Address       10.10.40.31     Back	Status In Use
<ul> <li>Networking</li> <li>Security</li> <li>Status</li> <li>User Management</li> <li>Utilities</li> <li>Help</li> </ul>		

## 6.3. Administer TSAPI link

From the Application Enablement Services Management Console, select AE Services  $\rightarrow$  TSAPI  $\rightarrow$  TSAPI Links. Select Add Link button as shown in the screen below.

AVAYA	Application Enablement Services Management Console	Welcome: User craft Last login: Thu Dec 15 19 HostName/IP: devconaes Server Offer Type: TURNI SW Version: r6-1-1-30-0	
AE Services   TSAPI   TS	SAPI Link	На	ome   Help   Logout
► AE Services ► CVLAN	TSAPI Links		
DLG DMCC SMS	Link         Switch Connection         Switch CTI Link #           Add Link         Edit Link         Delete Link	# ASAI Link Version	Security
• TSAPI			
TSAPI Properties     Communication Manage     Interface	ger		

On the **Add TSAPI Links** screen (or the **Edit TSAPI Links** screen to edit a previously configured TSAPI Link as shown below), enter the following values:

- Link: Use the drop-down list to select an unused link number.
- Switch Connection: Choose the switch connection CM63VMPG, which has already been configured in Section 6.2 from the drop-down list.
- Switch CTI Link Number: Corresponding CTI link number configured in Section 5.4 which is 1.
- **ASAI Link Version:** This can be left at the default value of **5**.
- Security: This can be left at the default value of both.

Once completed, select Apply Changes.

Αναγα	Application Enablement Services Management Console	Last login: Thu Nev 14 10:22:12 2013 from 10.10.40.140 Number of prior failed login attempts: 16 HostName/IP: AESG3MPG Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.0.0.212-0 Server Date and Time: Tue Dec 03 15:37:38 UTC 2013
AE Services   TSAPI   TSAPI Links	•	Home   Help   Logout
	Edit TSAPI Links Link 1 Switch Connection CM63vmpg  Switch CTI Link Number 1 ASAI Link Version 5 Security Both V Apply Changes Cancel Changes (Advanced Settings)	

Another screen appears for confirmation of the changes made. Choose **Apply**.

AVAYA	Application Enablement Services Management Console	Welcome: User craft Last login: Thu Dec 15 19:28:13 2011 from 10.10.16.62 HostName/IP: devconaes611/10.10.16.29 Server Offer Type: TURNKEY SW Version: r6-1-1-30-0
AE Services   TSAPI   T	SAPI Link	Home   Help   Logout
AE Services CVLAN DLG DMCC	Apply Changes to Link Warning! Are you sure you want to apply the changes? These changes can only take effect when the TSAPI server r Please use the Maintenance -> Service Controller page to res	
SMS     TSAPI     TSAPI Links     TSAPI Properties     Communication Mana     Interface		

When the TSAPI Link is completed, it should resemble the screen below.

Αναγα	Applic	Application Enablement Services Management Console			Last login: Tue Dec: 3 15:32:14 2013 from 10.10.40.22 Number of prior failed login attempts: 17 HostName/IP: AES63WIPG Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWAR SW Version: 6.3.0.0.212-0 Server Date and Time: Tue Dec 03 16:34:53 UTC 201		
AE Services   TSAPI   TSAPI Lin AE Services CVLAN	nks TSAPI Links				Home   Help   Logout		
DLG     DMCC     SMS	Link	Switch Connection	Switch CTI Link #	ASAI Link Ve	ersion Security Both		
TSAPI     TSAPI Links     TSAPI Properties							

The TSAPI Service must be restarted to effect the changes made in this section. From the Management Console menu, navigate to **Maintenance**  $\rightarrow$  **Service Controller**. On the Service Controller screen, tick the **TSAPI Service** and select **Restart Service**.

	pplication Enablement Services Management Console	Welcome: User craft Last login: Thu Dec 15 19:28:13 2011 from 10.10.16.62 HostName/IP: devconaes611/10.10.16.29 Server Offer Type: TURNKEY SW Version: r6-1-1-30-0		
Maintenance   Service Contro	ller	Home   Help   Logout		
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> </ul>	Service Controller			
▶ Licensing	Service Controller Status			
▼ Maintenance	ASAI Link Manager Running			
Date Time/NTP Server	DMCC Service Running			
Security Database	CVLAN Service Running			
Service Controller	DLG Service Running			
Server Data	Transport Layer Service Running			
▶ Networking	TSAPI Service Running			
► Security	For status on actual services, please use Status and Control			
▶ Status	Start Stop Restart Service Restart AE Server	Restart Linux Restart Web Server		
▶ User Management				

## 6.4. Identify Tlinks

Navigate to Security  $\rightarrow$  Security Database  $\rightarrow$  Tlinks. Verify the value of the Tlink Name. This will be needed to configure the Tlink Group in Section 6.7.2.

Αναγα	Application Enablement Services Management Console			
Security   Security Database   Tl	inks			
AE Services Communication Manager	Tlinks			
<ul><li>✓ Interface</li><li>→ Licensing</li></ul>	Tlink Name			
<ul><li>Maintenance</li><li>Networking</li></ul>	<ul> <li>AVAYA#CM63VMPG#CSTA#AES63VMPG</li> <li>AVAYA#CM63VMPG#CSTA-S#AES63VMPG</li> </ul>			
▼ Security	Delete Tlink			
Account Management     Audit				
Certificate Management				
Enterprise Directory Host AA				
► PAM				
<ul> <li>Security Database</li> <li>Control</li> <li>CTI Users</li> <li>Devices</li> <li>Device Groups</li> </ul>				
<ul> <li>Tlinks</li> </ul>				

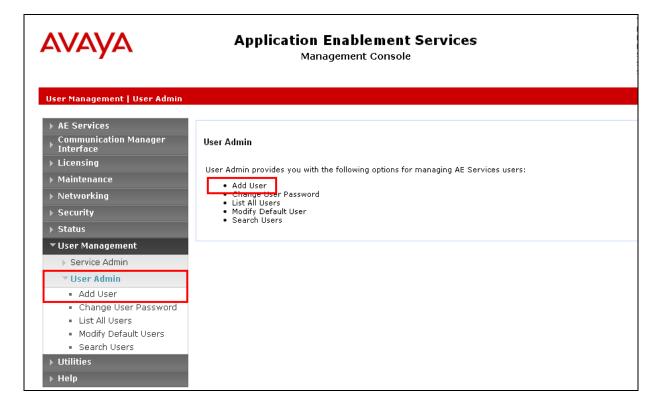
## 6.5. Enable TSAPI Ports

To ensure that TSAPI ports are enabled, navigate to **Networking**  $\rightarrow$  **Ports**. Ensure that the TSAPI ports are set to **Enabled** as shown below.

AVAYA	Application Enablement Services Management Console							
Networking  Ports	Networking  Ports							
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> </ul>	Ports							
▶ Licensing	CVLAN Ports			Enabled Disabled				
▶ Maintenance		Unencrypted TCP Port	9999	$\odot$ $\bigcirc$				
▼ Networking		Encrypted TCP Port	9998	• •				
AE Service IP (Local IP)								
Network Configure	DLG Port	TCP Port	5678					
Ports	TSAPI Ports			Enabled Disabled				
TCP Settings		TSAPI Service Port	450	$\odot$ $\bigcirc$				
Security		Local TLINK Ports						
▶ Status		TCP Port Min	1024					
		TCP Port Max Unencrypted TLINK Ports	1039					
User Management		TCP Port Min	1050	1				
▶ Utilities				]				
▶ Help		TCP Port Max	1065					
		Encrypted TLINK Ports TCP Port Min	1066	1				
				]				
		TCP Port Max	1081					

## 6.6. Create CTI User

A User ID and password needs to be configured for the Jacada Workspace server to communicate as a TSAPI client with the Application Enablement Services server. Navigate to the User Management  $\rightarrow$  User Admin screen then choose the Add User option.



In the **Add User** screen shown below, enter the following values:

- User Id This will be used by the Workspace server setup in Section 7.2.
- **Common Name** and **Surname** Descriptive names need to be entered.
- User Password and Confirm Password This will be used with the CTIPassword in Section 7.2.
- **CT User -** Select **Yes** from the drop-down menu.

Complete the process by choosing **Apply** at the bottom of the screen (not shown).

Αναγα	Application Enablement Services Management Console			
User Management   User Admin   List	All Users			
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> </ul>	Edit User		_	
Licensing	* User Id	jacada		
Maintenance	* Common Name	jacada		
Networking	* Surname	jacada		
> Security	User Password			
> Status	Confirm Password			
▼ User Management	Admin Note			
Service Admin	Avaya Role	None	~	
Vser Admin	Business Category			
Add User	Car License			
<ul> <li>Add User</li> <li>Change User Password</li> </ul>	CM Home			
List All Users	Css Home			
<ul> <li>Modify Default Users</li> </ul>	CT User	Yes 💌		
<ul> <li>Search Users</li> </ul>	Department Number		Ē	
> Utilities	Display Name			
) Help	Employee Number			

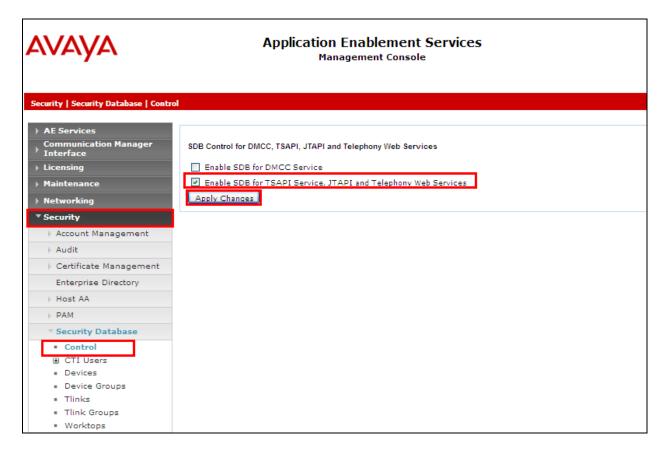
The next screen will show a message indicating that the user was created successfully (not shown).

#### 6.7. Set Up Security Database on Avaya Aura® Application Enablement Services

In order for the Jacada Workspace Agent Desktop to monitor the phone sets and agents on Communication Manager the security database on AES needs to be setup correctly. Every device must be added to a device group and this device group assigned to the CTI user created in **Section 6.6**.

#### 6.7.1. Enable Security Database for TSAPI

Navigate to Security  $\rightarrow$  Security Database  $\rightarrow$  Control. Tick the box for Enable SDB for TSAPI Service, JTAPI and Telephony Web Services and click Apply Changes.



#### 6.7.2. Create a Tlink Group

Navigate to Security  $\rightarrow$  Security Database  $\rightarrow$  Tlink Groups in the left window. In the main window enter a suitable name for the group and click on Add Tlink Group.

AVAYA	Application Enablement Services Management Console	
Security   Security Database   Tlink	Groups	
AE Services     Communication Manager     Interface	Tlink Groups	
▶ Licensing	Jacada Add Tlink Group	
> Maintenance	Tlink Group	
> Networking		
▼ Security	jacada	
Account Management	Edit Tlink Group Delete Tlink Group(s)	
Audit		
Certificate Management		
Enterprise Directory		
Host AA		
▶ PAM		
* Security Database		
= Control		
CTI Users		
<ul> <li>List All Users</li> </ul>		
<ul> <li>Search Users</li> </ul>		
<ul> <li>Devices</li> </ul>		
<ul> <li>Device Groups</li> </ul>		
<ul> <li>Tlinks</li> </ul>		
<ul> <li>Tlink Groups</li> <li>Worktops</li> </ul>		

Enter a suitable name for the **Tlink Group**,tick on the Tlink to be associated with the group and click on **Apply Changes**.

avaya	Application Enablement Services Management Console		
Security   Security Database   Tlink	Groups		
<ul> <li>&gt; AE Services</li> <li>Communication Manager</li> <li>&gt; Interface</li> <li>&gt; Licensing</li> <li>&gt; Maintenance</li> <li>&gt; Networking</li> </ul>	Add Tlink Group Tlink Group Jacada TIMKS AVAYA#CM63VMPG#CSTA#AES63VMPG		
Security     Account Management     Audit	AVAYA=CM63VMPG=CSTA-S=AES63VMPG           Apply Changes         Select All         Cancel Changes		

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#### 6.7.3. Add Devices

Every phone set, agent, hunt group, and VDN that needs to be monitored must be added to the security database in **Devices**. Navigate to **Security**  $\rightarrow$  **Security Database**  $\rightarrow$  **Devices**. In the main window enter the required number and click on **Add Device**.

AVAYA		Application Enablement Services Management Console		
Security   Security Database   Device	5			
AE Services     Communication Manager     Interface	Devices			
<ul> <li>Licensing</li> <li>Maintenance</li> </ul>	Upload devices from file Brow	Upload		
Networking	Add Device			
▼ Security	Device ID	Tlink Group		
Account Management	Edit Device Delete Device(s)			
Audit				
Certificate Management				
Enterprise Directory				
Host AA				
▶ PAM				
Security Database				
Control				
CTI Users     Devices     Device Groups				

The **Device Type** must be selected as shown in the example below for device **1000** being a **PHONE**.

AVAYA	Application Enablement Services Management Console	
Security   Security Database   Device	25	
) AE Services		
Communication Manager Interface	Add Device	
> Licensing	Device ID 1000	
> Maintenance	Location	
> Networking	Device Type PHONE	
▼ Security	Tlink Group FAX	
▶ Account Management	Apply Chan ACD Changes	
▶ Audit	VDN AGENT ID	
) Certificate Management		
Enterprise Directory		
> Host AA		
▶ PAM		
Security Database		

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AVAYA	Application Enablement Services Management Console
Security   Security Database   Devic	eç
) AE Services	
Communication Manager Interface	Add Device
Licensing	Device ID 1000
Maintenance	Location
Networking	Device Type PHONE 🕑
▼ Security	
Account Management	Apply Chan Any cel Changes
> Audit	jacada
Certificate Management	
Enterprise Directory	
> Host AA	
▶ PAM	
Security Database	

The **Tlink Group** that was created in **Section 6.7.2** is selected.

Once the proper values are inputted correctly click on Apply Changes.

AVAYA	Application Enablement Services Management Console
Security   Security Database   Devic	es
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> </ul>	Add Device
Licensing	Device ID 1000
Maintenance	Location
Networking	Device Type PHONE 👻
Security     Account Management	Tlink Group jacada M Apply Changes Cancel Changes
▶ Audit	
Certificate Management	
Enterprise Directory	
> Host AA	
▶ PAM	
Security Database	

The following devices were added for the compliance test. Note that agents **4401** and **4402** would use phone sets **2000** and **2100** when logging into the **ACD** (or hunt group) **3330**; **VDN 3300** would be used to call into this group.

avaya	Application Enablement Services Management Console				Lest regim more any 11 bit 60 a 2014 from 10 10 40 Number of prior failed (big) attempts : 3 HostName/IP: AESS3/MPG Server Offer Type: VITAL_APPLIANCE_ON_VMWA SW Version: 63.00.212-0 Server Date and Time: Fri Aug 15 11:08:04 IST 2014		
Security   Security Database   Devic	25						Home   Help   Log
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> <li>Licensing</li> <li>Maintenance</li> </ul>	Devices Upload devi	ces from file	Brov	vse) Upload			
▶ Networking		Add D	evice				
▼ Security			Device ID	Tlink Group		Device Type	Location
Account Management		2000		jacada	PHONE		Gal
Audit		2001		iacada	PHONE		Gal
Certificate Management		2002			PHONE		Gal
Enterprise Directory				jacada			
> Host AA		2100		jacada	PHONE		Gal
> PAM		3300		jacada	VDN		Gal
Security Database		3330		jacada	ACD		Gal
Control		4401		jacada	AGENT ID		Gal
<ul> <li>CTI Users</li> <li>Devices</li> </ul>		4402		jacada	AGENT ID		Gal
<ul> <li>Device Groups</li> </ul>	Edit Device	Delete Device	e(s)				
<ul> <li>Tlinks</li> </ul>							
<ul> <li>Tlink Groups</li> <li>Worktops</li> </ul>							

#### 6.7.4. Add Device Group

A Device Group must be added in order to group together the devices that were added above in Section 6.7.3. Navigate to Security  $\rightarrow$  Security Database  $\rightarrow$  Device Groups. In the main window enter a suitable name and click on Add Device Group.

Αναγα	Application Enablement Services Management Console							
Security   Security Database   Device	e Groups							
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> <li>Licensing</li> </ul>	Device Groups	Add Device Group						
▶ Maintenance	Jacada	Add Device Group	Device Group					
Networking		Jacada	Device droup	N	1			
<ul> <li>Security</li> <li>Account Management</li> </ul>	Edit Device Grou		5)		•			
> Audit								
Certificate Management								
Enterprise Directory								
> Host AA								
▶ PAM								
Security Database								
<ul> <li>Control</li> <li>CTI Users</li> <li>Devices</li> <li>Device Groups</li> <li>Tlinks</li> <li>Tlink Groups</li> </ul>								

Tick the devices that are to be added to the new device group and click on Apply Changes.

AVAYA	Application Enablement Services Management Console
Security   Security Database   Devic	te Groups
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> </ul>	Edit Device Group
Licensing	Device Group Jacada
Maintenance	Exception Group
> Networking	Devices
▼ Security	<ul> <li>✓ 1000</li> <li>✓ 1001</li> </ul>
Account Management	
Audit	
Certificate Management	☑ 2001
Enterprise Directory	2002
Host AA	☑ 3300
PAM	☑ 3330
Security Database	₩ 4401
Control	₩ 4402
Control     CTI Users	Apply Changes Select All Deselect All Cancel Changes
Devices	Papy Changes (Delett Air) (Deselett Air) (Cancer Changes)
<ul> <li>Device Groups</li> </ul>	
<ul> <li>Tlinks</li> </ul>	
<ul> <li>Tlink Groups</li> </ul>	
<ul> <li>Worktops</li> </ul>	

#### 6.8. Associate Devices with CTI User

Navigate to Security  $\rightarrow$  Security Database  $\rightarrow$  CTI Users  $\rightarrow$  List All Users and click on Edit Users (not shown). In the main window ensure that Unrestricted Access is not ticked. The device group created in Section 6.7.4 is then associated with the CTI User created in Section 6.6. Assign the Device Group to Call and Device Control and Call and Device Monitoring. Once this is done click on Apply Changes.

αναγα		blement Services aent Console	Last login: Mon Aug 11 13:27 Number of prior failed login at HostName/IP: AES63VMPG Server Offer Type: VIRTUAL SW Version: 63:0.02.12:0 Server Date and Time: Fri Aug	tempts: 33 _APPLIANCE_ON_VMWARE
Security   Security Database   CTI U	sers   List All Users			Home   Help   Logou
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> </ul>	Edit CTI User			
> Licensing	User Profile:	User ID Common Name	jacada jacada	
Maintenance		Worktop Name	NONE V	
Networking		Unrestricted Access		
▼ Security				
Account Management	Call and Device Control:	Call Origination/Termination and Device Status	Jacada 💌	
) Audit	Call and Device Monitoring:	Device Monitoring	Jacada 💙	
Certificate Management	-	Calls On A Device Monitoring	Jacada 💌	
Enterprise Directory		Call Monitoring		
Host AA				
> PAM	Routing Control:	Allow Routing on Listed Devices	Any 💌	
Security Database	Apply Changes Cancel Changes			
Control				
<ul> <li>CTI Users</li> <li>List All Users</li> </ul>				
<ul> <li>Search Users</li> </ul>				

# 7. Configure Jacada Workspace Agent Desktop Server

The installation of Jacada Workspace is usually carried out by an engineer from Jacada, please refer to the documentation in **Section 10** for information on the installation and configuration of the Jacada Workspace Agent Desktop Server . The installation and configuration of Jacada Workspace is therefore outside the scope of these Application Notes. The following sections will outline the process involved in connecting the Jacada Workspace server to the AES. All configuration of the Jacada server for connection with the AES is performed using a web browser to the Jacada **Management Console**. Open a web browser as shown below and enter the proper credentials and click on **Login**. (Default user/pass is admin/admin).

🛛 Jacada Management Con: X 📃	
← → C 10.10.40.223:8080/mc/login.faces	☆ =
👯 Apps 🛛 Jacada Managemen 🔊 WorkSpace	
Jack Management Console	
User name: admin	
Password:	
Login	

## 7.1. Configure CTI Agents

Every agent configured on Communication Manager for use with Jacada Workspace Agent Desktop will need to be configured from the Jacada Management Console. From the left window navigate to **Configuration**  $\rightarrow$  **CTI**  $\rightarrow$  **Agents** and in the main window click on **Add**.

,				_						
Jacoda 1	<b>Jana</b>	gen	nent Co	onsole						
\	NorkSpac	e								
Monitoring	WorkSpace	= > Con	figuration > CT	'I > Agents						
Configuration										
Directory Settings	Show tab		ation >>							
Dynamic Views Settings										
EMC Settings	– Us	er		Extension		CTI login	СП	Outbound		
External Script Settings		me▼	CTI profile	number	Group ID	name	password	extension number	Agent ID	Action
Feature Settings Global Settings	a2	100		2100		4401	1234	number	4401	Edit
Human Task Settings										
Instant Messaging Settings	a4	402		2002		4402	1234		4402	Edit
Interact Settings										
Locales	Add		Remove							
Machine Settings										
Page Mappings										
RSS Feed Definitions										
RTN Mappings										
Script Mappings										
Smart Pad Settings										
Supervisor View Settings										
Agent Disposition										
Auditing										
Authentication-Authorization										
CTI     Agents										
Busy Reason Codes										
Dial List										
Settings										
Default										
CISCO										
1	1									

Enter the agent's credentials such as the **Extension number** associated with the agent along with **Agent ID**, **CTI login name** and **CTI password** that was configured on Communication Manager. Click on **Save** once these are entered correctly.

Monitoring	Management WorkSpace WorkSpace > Configuration		
Directory Settings			
Dynamic Views Settings		Edit	t CTI Agent
Dynamic views Settings EMC Settings External Script Settings Feature Settings Global Settings Instant Messaging Settings Interact Settings Locales Machine Settings Page Mappings RSS Feed Definitions RTN Mappings Script Mappings Smart Pad Settings Supervisor View Settings Ø Agent Disposition Authentication-Authorization CTI Agents Busy Reason Codes Dial List Ø Settings Ø Default Ø CTI	User name: CTI profile: Extension number: Group ID: CTI login name: CTI password: Outbound extension number; Agent ID: Save Cancel	b4402           2002           4402           1234           4402           4402	(Mandatory) The name of a user defined in the additionation provider, such as Microsoft Active Directory.         The name of the CT profile used by the agent.         (Mandatory) The agent's telephone extension number.         To         To         To         When required by the CT profile used by the agent.         When required by the CT server or the switch.         the name used to log in to the extension.         When required by the CT server or the switch.         the name used to log in to the extension.         When required by the CT server or the switch.         the password used to log in to the extension.         When required by the CT server or the switch.         the password used to log in to the extension.         The telephone extension number to use for outbound calls.         (Mandatory) A logical ID for an agent (CTI PHONEID).

Solution & Interoperability Test Lab Application Notes ©2014 Avaya Inc. All Rights Reserved. From the left window navigate to Configuration  $\rightarrow$  Authentication-Authorization  $\rightarrow$  Users and in the main window click on Add.

inde N	<b>Janageme</b> r	nt Console
Jacom		
<b>–</b>	WorkSpace	
Monitoring	•	ration > Authentication-Authorization > Users
Configuration		
Directory Settings Dynamic Views Settings	Show table properties	(>>
EMC Settings	■ Name▼	Action
External Script Settings Feature Settings	a2100	Edit
Global Settings	a4401	Edit
Human Task Settings	a4402	Edit
Instant Messaging Settings Interact Settings	admin	Edit
Locales	guest	Edit
Machine Settings	workspace	Edit
Page Mappings RSS Feed Definitions		
RTN Mappings	Add Remo	love
Script Mappings Smart Pad Settings		
Supervisor View Settings		
Agent Disposition		
Auditing     Authentication-Authorization		
Groups		
Privileges		
Roles		
Settings Skills		
Users UDAP		
4		

Enter a **Name** and **Password** for each user to log into the Jacada Workspace Agent Desktop. Each user should be a part of the **Assigned Groups**. The minimum required groups are **Agents** and **CTIUsers** as shown below.

jaca da	Management	Console			
	WorkSpace				
Monitoring Configuration Directory Settings Dynamic Views Settings EMC Settings	WorkSpace > Configuration Name: Password:	a > Authentication-Authorization > a4402	Users Frlit liser	User name. User password.	
External Script Settings Feature Settings Global Settings Human Task Settings Instant Messaging Settings Interact Settings Locales Machine Settings Page Mappings RSS Feed Definitions RTN Mappings Script Mappings Script Mappings Smart Pad Settings Supervisor View Settings Ø Agent Disposition Ø Auditing Ø Authentication-Authorization Groups Privileges Roles Settings Skills Users Ø LDAP	Available Groups Administrators Save Cancel	Assigned Group Agents CTIUsers Supervisors	20		

## 7.2. Configure AES connection in Management Console

From the left window navigate to **Configuration**  $\rightarrow$  **CTI**  $\rightarrow$  **Settings**  $\rightarrow$  **AES**. In the main window the **Profile Settings** in blue must be edited. After the initial install these values will all be blank and they must be edited to show the values below with the CTIPassword and CTIUsername as configured in **Section 6.6**.

<b>~</b>	VorkSpace			
itoring	WorkSpace > Configuration > CTI > Settings > Defaul	t > CTI > AES		
figuration				
Directory Settings Dynamic Views Settings	Profile Settings			
EMC Settings	Kevt	Value	Comments	Activ
External Script Settings	CTIAgentStatusDuringCallSetBySwitch	true		<b></b>
eature Settings	CTIConfigurationMode	Agent		<b></b>
Global Settings Juman Task Settings	CTIPassword	******		<b>V</b>
nstant Messaging Settings	CTIProvider	AES		1
nteract Settings	CTISwitchSendsRepeatedAgentStatusEvents	true		1
ocales				
lachine Settings	CTIUserName	jacada		1
Aachine Settings Page Mappings RSS Feed Definitions	Inherited Profile Settings	12	Commonte	
Aachine Settings Page Mappings	Inherited Profile Settings Key†	jacada Value true	Comments	Acti
Aachine Settings Page Mappings RSS Feed Definitions RTN Mappings Gript Mappings Grant Pad Settings	Inherited Profile Settings Keyt CTIAgentStatusDuringCallSetBySwitch	Value true	Comments	Acti
Aachine Settings Page Mappings RSS Feed Definitions RTN Mappings Gript Mappings Gmart Pad Settings Gupervisor View Settings	Inherited Profile Settings Key† CTIAgentStatusDuringCallSetBySwitch CTIAllowDialPadWindow	Value true true	Comments	Acti
Aachine Settings Page Mappings RSS Feed Definitions RTN Mappings Gript Mappings Gmart Pad Settings Gupervisor View Settings Agent Disposition	Inherited Profile Settings Keyt CTIAgentStatusDuringCallSetBySwitch CTIAllowDialPadWindow CTIAllowTransferFromConsult	Value true true true	Comments	Acti
Aachine Settings Page Mappings RSS Feed Definitions RTN Mappings Gript Mappings Gmart Pad Settings Gupervisor View Settings	Inherited Profile Settings Keyt CTIAgentStatusDuringCallSetBySwitch CTIAllowDialPadWindow CTIAllowTransferFromConsult CTIApplicationSetACW	Value true true true true	Comments	Acti V V
Aachine Settings Page Mappings RSS Feed Definitions RTN Mappings Gript Mappings Smart Pad Settings Supervisor View Settings Agent Disposition Auditing Authentication-Authorization CTI	Inherited Profile Settings Keyt CTIAgentStatusDuringCallSetBySwitch CTIAllowDialPadWindow CTIAllowTransferFromConsult CTIApplicationSetACW CTIBarEnabled	Value true true true true true		Acti
Aachine Settings Page Mappings RSS Feed Definitions RTM Mappings Script Mappings Smart Pad Settings Supervisor View Settings Agent Disposition Auditing Luthentication-Authorization CTI Agents	Inherited Profile Settings Keyt CTIAgentStatusDuringCallSetBySwitch CTIAllowDialPadWindow CTIAllowTransferFromConsult CTIApplicationSetACW CTIBarEnabled CTIBarUrl	Value true true true true true Jacada.system.ui.cti.CTI		Act 2 2 2 2 2 2 2 2 2 2 2 2 2
Aachine Settings Page Mappings RSS Feed Definitions RTN Mappings Gript Mappings Smart Pad Settings Supervisor View Settings Agent Disposition Auditing Authentication-Authorization CTI	Inherited Profile Settings Keyt CTIAgentStatusDuringCallSetBySwitch CTIAllowDialPadWindow CTIAllowTransferFromConsult CTIApplicationSetACW CTIBarEnabled CTIBarUrl CTICallAutoAnswer	Value true true true true true true Jacada.system.ui.cti.CTI false		Acti           Ø
Aachine Settings Page Mappings RSS Feed Definitions RTM Mappings Script Mappings Smart Pad Settings Supervisor View Settings Agent Disposition Auditing Authentication-Authorization CTI Agents Busy Reason Codes	Inherited Profile Settings Key1 CTIAgentStatusDuringCallSetBySwitch CTIAllowDialPadWindow CTIAllowTransferFromConsult CTIApplicationSetACW CTIBarEnabled CTIBarUrl CTICallAutoAnswer CTICallMode	Value true true true true true Jacada.system.ui.cti.CTI		Acti           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø           Ø
Aachine Settings Page Mappings RSS Feed Definitions RTN Mappings Gript Mappings Smart Pad Settings Supervisor View Settings Upervisor View Settings	Inherited Profile Settings Keyt CTIAgentStatusDuringCallSetBySwitch CTIAllowDialPadWindow CTIAllowTransferFromConsult CTIApplicationSetACW CTIBarEnabled CTIBarUrl CTICallAutoAnswer	Value true true true true true true Jacada.system.ui.cti.CTI false		Acti
Aachine Settings Page Mappings RSS Feed Definitions RTN Mappings Goript Mappings Smart Pad Settings Supervisor View Settings Augent Disposition Auditing Authentication-Authorization CTI Agents Busy Reason Codes Dial List	Inherited Profile Settings Key1 CTIAgentStatusDuringCallSetBySwitch CTIAllowDialPadWindow CTIAllowTransferFromConsult CTIApplicationSetACW CTIBarEnabled CTIBarUrl CTICallAutoAnswer CTICallMode	Value true true true true true true Jacada.system.ui.cti.CTI false inbound		

## 7.3. Configure AES connection on Workspace Agent Desktop Server

From the Workspace server the **TSAPIPRO** file must be edited to insert the AES IP address. This file can be opened in Notepad or **Notepad++**. Navigate to where this file is located on the Workspace server (**C:\Tomcat\_JWS\jacada\conf\TSAPIPRO** in the example below). Enter the IP address of the AES as shown below using the default port **450** and ensure that the **#** is removed before the IP address. Save this file once this is completed.

2	C:\T	omcat_JWS\jacada\conf\TSAPI.PRO - Notepad++ [Administrator]
File	Ec	lit Search View Encoding Language Settings Macro Run Plugins Window ?
		) 🗄 🖻 🕞 🕞 😂   🎸 🗅 🌔   🤉 d   🗰 🦕   🍳 🤫   🖳 🔂 1 🏢 😨 💹 🖉   🗉 🗉 🕩 🐼   🗮 🎃
	TIG	ateway.log 🛛 🔚 Fusion.log 🗶 🔚 TSAPI.PRO 🗵
:	1	# tsapi.pro
2	2	#
1	3	# This file must be located in one of the directories found in CLASSPATH
4	1	#
3	5	# This is a list of the servers offering Telephony Services via TCP/IP.
	5	# Either domain name or IP address may be used; default port number is 450
	7	# The form is: host_name=port_number
6	З	#
9	Ð	# tzerver.mydomain.com=450
10	)	# 127.0.0.1=450
1:	1	#
12		# (Remove the '#' when creating actual server entries.)
13	3	10.10.40.30=450
14	1	#debugLevel=7
13	5	#altTraceFile=c:/temp/myfile3

# 8. Verification Steps

This section provides the steps that can be taken to verify correct configuration of the Avaya Aura® Application Enablement Services and Jacada Workspace Agent Desktop .

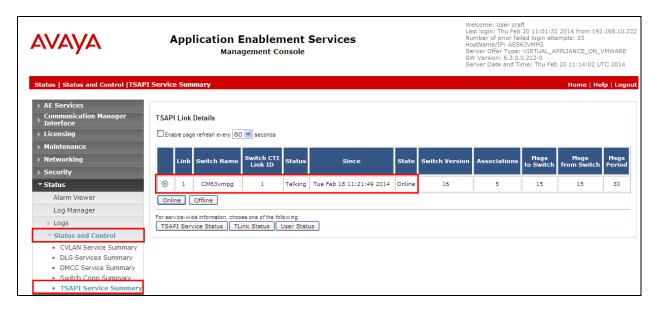
## 8.1. Verify Avaya Aura® Communication Manager CTI Service State

The following steps can validate that the communication between Communication Manager and AES is functioning correctly. Check the AESVCS link status by using the command **status aesvcs cti-link**. Verify the **Service State** of the CTI link is **established**.

statu	s aesvcs ct	i-link				
			AE SERVICES	CTI LINK STATUS		
CTI Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Rcvd
1	4	no	aes63vmpg	established	18	18

## 8.2. Verify TSAPI Link

On the AES Management Console verify the status of the TSAPI link by selecting Status  $\rightarrow$  Status and Control  $\rightarrow$  TSAPI Service Summary to display the TSAPI Link Details screen. Verify the status of the TSAPI link by checking that the Status is Talking and the State is Online.



#### 8.3. Verify Connection Between Avaya Aura® Application Enablement Services and Avaya Aura® Communication Management

A TSAPI test Application is included with AES. This application can be used to make a call from one deskphone to another on Communication Manager, this will confirm that 3<sup>rd</sup> Party Call Control is possible and therefore the connection from the Workspace server to the AES should be possible.

In the AES Management Console, navigate to **Utilities**  $\rightarrow$  **Diagnostics**  $\rightarrow$  **AE Service**  $\rightarrow$  **TSAPI Test**. The TSAPI Test window is opened; enter the **User** and **Password** for the CTI user that was created in **Section 6.6**. Enter the **From** and **To** extension number for the call and click **Dial**.

Αναγα	Application Enablement Services Management Console
Utilities   Diagnostics   AE Services	TSAPI Test
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> </ul>	TSAPI Test
> Licensing	TLink AVAYA#CM63VMPG#CSTA#AES63VMPG
> Maintenance	User: jacada
> Networking	Password: ••••••
> Security	From: 2000
> Status	To: 2002
) User Management	Dial
▼ Utilities	
Diagnostics	
AE Service	
<ul> <li>ASAI Test</li> </ul>	
<ul> <li>DMCC Test</li> </ul>	
TR/87 Test     TSAPI Test     Server	

If the connection is setup correctly deskphone 2000 will have initiated a call to deskphone 2002 and the following message will be displayed.

Αναγα	Application Enablement Services Management Console
Utilities   Diagnostics   AE Services	TSAPI Test
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> <li>Licensing</li> <li>Maintenance</li> <li>Networking</li> </ul>	TSAPI Test Result cstaMakeCall() succeeded! cstaClearConnection() succeeded! Back
<ul> <li>Security</li> <li>Status</li> <li>User Management</li> </ul>	
<ul> <li>✓ Utilities</li> <li>✓ Diagnostics</li> <li>AE Service         <ul> <li>ASAI Test</li> <li>DMCC Test</li> <li>TR/87 Test</li> <li>TSAPI Test</li> <li>Server</li> </ul> </li> </ul>	

## 8.4. Verify 3<sup>rd</sup> Party Call Control From Jacada Workspace Agent Desktop

From an agent workstation open a web browser to the Jacada server. Log in to the Jacada Workspace Agent Desktop application as shown below.

http://localhost:9090/<applicationName>?CTIProfile=CTI\_AES\_AVAYA (not captured in the screen shot below).



A window will pop up, press done at the bottom of the screen.

Favorites - Help -			o a4402 a4402 Logon
Mavigation (3) Mavigation (3) Message Board Ticker Tape Board Reports Message Center Favorites Tasks	Message Mess	Welcome adduce You have no messages. You can start your shift.	Add Transfer Cont

Once logged in to the Jacada Workspace Agent Desktop the agent will be placed automatically in the **Not Ready** state as shown below. Press the green button highlighted to change the state to Ready.

Favorites - Help - Jacada		Not Ready	9 🍃 🗟 🧳	💎 🔏 End Call Hold	a4402 a4402	<u>L</u> ogout
Navigation G	Message Board					0
▼ Home	Message				Sent On	
Message Board						
Ticker Tape Board						
Reports						
Message Center						
Favorites						
Tasks						

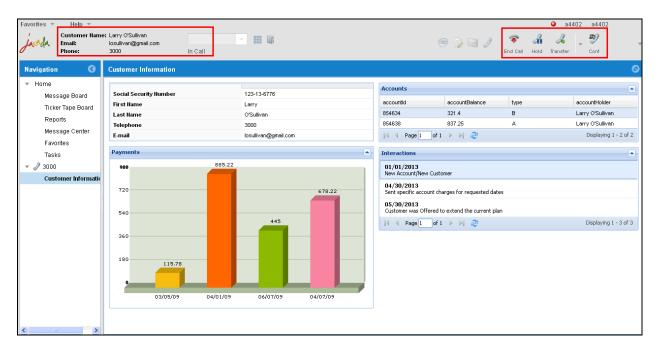
Once this is done the button turns from green to red and the agent is shown as **Ready**.

Favorites - Help -	Ready	● a4402 a4402 ● 2 2 3 2 3 4 2 3 4 4 0 2 3 4 4 4 0 2 3 4 4 0 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Navigation 🔇	Message Board	0
▼ Home	Message	Sent On
Message Board		
Ticker Tape Board		
Reports		
Message Center		
Favorites		
Tasks		

Once the call is presented to the agent, a window showing **Incoming Call** appears at the bottom right of the screen and the **answer button** highlighted in the main window can be pressed to answer the call.

Favorites • Help • Jacada	Incoming Call	● 34402 34402 ■ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
Navigation 🔇	Message Board		0
<ul> <li>Home</li> <li>Message Board</li> <li>Ticker Tape Board</li> <li>Reports</li> <li>Message Center</li> <li>Favorites</li> <li>Tasks</li> </ul>	Message	Sent On	
		J Incoming Call 3000	⊗

Once the call is answered the caller information from a CRM application is displayed and the telephony buttons become active where the agents can **End Call**, **Hold**, **Transfer** and **Conference**.



# 9. Conclusion

These Application Notes describe the configuration steps required for Jacada Workspace Agent Desktop to successfully interoperate with Avaya Aura® Communication Manager R6.3 using Avaya Aura® Application Enablement Services R6.3. All feature functionality and serviceability test cases were completed successfully with some issues and observations noted in **Section 2.2**.

# 10. Additional References

This section references the Avaya and Jacada product documentation that are relevant to these Application Notes.

Product documentation for Avaya products may be found at <u>http://support.avaya.com</u>.

- [1] Administering Avaya Aura® Communication Manager, Document ID 03-300509
- [2] Avaya Aura® Communication Manager Feature Description and Implementation, Document ID 555-245-205
- [3] Avaya Aura® Application Enablement Services Administration and Maintenance Guide Release 6.3

Technical documentation can be obtained for Jacada Workspace Agent Desktop from the website <u>www.jacada.com</u>.

Online help can be found at http://www.jacada.com/help/jws

## Appendix

#### Avaya one-X® Agent Softphone

This is a printout of the Avaya one-X® Agent softphone used during compliance testing.

display station 2100			Page 1 of	5
		STATION	5	
Extension: 2100		Lock Messages? n	BCC:	0
Type: 9630		Security Code: *	TN:	1
Port: S00031		Coverage Path 1:	COR:	1
Name: one-X Agent1		Coverage Path 2:	COS:	1
5		Hunt-to Station:	Tests?	V
STATION OPTIONS				1
Location:		Time of Day Lock Tak	ole:	
Loss Group:	19	Personalized Ringing Patte		
		Message Lamp E		
Speakerphone:	2-wav	Mute Button Enabl		
Display Language:		Button Modul		
Survivable GK Node Name:	011911011	240001110442	200.0	
Survivable COR:	internal	Media Complex B	Zvt•	
Survivable Trunk Dest?		IP SoftPho		
barvivabie frank bese.	У	ii boitine	JIIC. y	
		IP Video Softpho	ne? n	
	Short /	Prefixed Registration Allow		
	51101 07	rierized Registration Ario	weu. deraurt	
		Customizable Labe	els? Y	
		Customizable Labe	els? Y	
		Customizable Labe		
display station 2100			Page 2 of	5
		Customizable Labe		5
FEATURE OPTIONS		STATION	Page 2 of	-
FEATURE OPTIONS LWC Reception:		STATION Auto Select Any Idle	Page 2 of e Appearance? 1	n
FEATURE OPTIONS LWC Reception: LWC Activation?	У	STATION Auto Select Any Idle	Page 2 of e Appearance? n sg Retrieval? ?	n Y
FEATURE OPTIONS LWC Reception:	У	STATION Auto Select Any Idle	Page 2 of e Appearance? 1	n Y
FEATURE OPTIONS LWC Reception: LWC Activation?	y n	STATION Auto Select Any Idle Coverage Ms	Page 2 of e Appearance? n sg Retrieval? ?	n y none
FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls?	y n n	STATION Auto Select Any Idle Coverage Ms Data Idle Appearance	Page 2 of e Appearance? n sg Retrieval? y Auto Answer: n Restriction? n e Preference? n	n Y none n
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Remote Softphone Emergency Calls: as-on-local Direct IP-IP Audio Connections? y Emergency Location Ext: 2100 Always Use? n IP Audio Hairpinning? n display station 2100 Page 3 of 5 STATION Conf/Trans on Primary Appearance? n Bridged Appearance Origination Restriction? n Call Appearance Display Format: disp-param-default IP Phone Group ID: Enhanced Callr-Info Display for 1-Line Phones? n ENHANCED CALL FORWARDING Forwarded Destination Active Unconditional For Internal Calls To: 1000 n External Calls To: 1000 n Busy For Internal Calls To: n External Calls To: n No Reply For Internal Calls To: n External Calls To: n SAC/CF Override: n

display station 2100 Page 4 of 5 STATION SITE DATA Room: Headset? n Speaker? n Jack: Mounting: d Cable: Floor: Cord Length: 0 Building: Set Color: ABBREVIATED DIALING List1: List2: List3: BUTTON ASSIGNMENTS 1: call-appr 5: manual-in Grp: 2: call-appr 6: after-call Grp: 7: aux-work RC: Grp: 3: call-appr 4: auto-in Grp: 8: voice-mail

#### Avaya 9620 H.323 Deskphone

This is a printout of the Avaya 9620 H.323 Deskphone used during compliance testing.

display station 2000			Page 1 of	5
		STATION	-	
Extension: 2000		Lock Messages? n	BCC:	0
Type: 9620		Security Code: *	TN:	
Port: S00000		Coverage Path 1: 2	COR:	
Name: Paul 2000		Coverage Path 2:	COS:	
Name. raur 2000		Hunt-to Station:		
CENELON ODELONG		HUIL-LO SLALION:	Tests?	У
STATION OPTIONS			, ,	
Location:		Time of Day Lock Ta		
Loss Group:	19	Personalized Ringing Patt		
		Message Lamp		
Speakerphone:		Mute Button Enab	oled? y	
Display Language:	english			
Survivable GK Node Name:				
Survivable COR:	internal	Media Complex	Ext:	
Survivable Trunk Dest?	У	IP SoftPh	ione? n	
		IP Vi	.deo? n	
	Short/	Prefixed Registration Allo	wed: default	
	,			
		Customizable Lab	els? v	
display station 2000			Page 2 of	5
display station 2000		STATION		5
display station 2000 FEATURE OPTIONS				5
	spe		Page 2 of	
FEATURE OPTIONS		STATION Auto Select Any Idl	Page 2 of e Appearance? 1	n
FEATURE OPTIONS LWC Reception: LWC Activation?	У	STATION Auto Select Any Idl	Page 2 of	n Y
FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls?	y n	STATION Auto Select Any Idl Coverage M	Page 2 of e Appearance? 1 Isg Retrieval? 2	n Y none
FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy?	y n n	STATION Auto Select Any Idl Coverage M Data	Page 2 of e Appearance? 1 Isg Retrieval? 2 Auto Answer: 1 Restriction? 1	n Y none n
FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy? Redirect Notification?	y n n y	STATION Auto Select Any Idl Coverage M Data Idle Appearanc	Page 2 of e Appearance? 1 Isg Retrieval? 2 Auto Answer: 1 Restriction? 1 e Preference? 1	n y none n
FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy? Redirect Notification? Per Button Ring Control?	y n n y n	STATION Auto Select Any Idl Coverage M Data Idle Appearanc Bridged Idle Lin	Page 2 of e Appearance? 1 Isg Retrieval? 2 Auto Answer: 1 Restriction? 1 e Preference? 1 e Preference? 1	n Y none n n
FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy? Redirect Notification? Per Button Ring Control? Bridged Call Alerting?	y n n y n n	STATION Auto Select Any Idl Coverage M Data Idle Appearanc Bridged Idle Lin	Page 2 of e Appearance? 1 Isg Retrieval? 2 Auto Answer: 1 Restriction? 1 e Preference? 1	n Y none n n
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FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy? Redirect Notification? Per Button Ring Control? Bridged Call Alerting? Active Station Ringing:	y n n y n single	STATION Auto Select Any Idl Coverage M Data Idle Appearanc Bridged Idle Lin Restrict Las EMU L	Page 2 of Page 2 of Isg Retrieval? Auto Answer: 1 Restriction? 1 Preference? 1 Preference? 1 Appearance? 2 Sogin Allowed? 1	n y none n n y
FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy? Redirect Notification? Per Button Ring Control? Bridged Call Alerting? Active Station Ringing: H.320 Conversion?	y n n y n single n	STATION Auto Select Any Idl Coverage M Data Idle Appearanc Bridged Idle Lin Restrict Las EMU L Per Station CPN - Send Ca	Page 2 of Page 2 of Isg Retrieval? Auto Answer: 1 Restriction? 1 Preference? 1 Preference? 1 Appearance? 2 Sogin Allowed? 1 Illing Number?	n y none n n y y
FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy? Redirect Notification? Per Button Ring Control? Bridged Call Alerting? Active Station Ringing: H.320 Conversion? Service Link Mode:	y n n y n single n as-needed	STATION Auto Select Any Idl Coverage M Data Idle Appearanc Bridged Idle Lin Restrict Las EMU L Per Station CPN - Send Ca EC500	Page 2 of e Appearance? p Isg Retrieval? p Auto Answer: p Restriction? p e Preference? p e Preference? p t Appearance? p sogin Allowed? p lling Number? p State: enabled	n y none n n y y
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FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy? Redirect Notification? Per Button Ring Control? Bridged Call Alerting? Active Station Ringing: H.320 Conversion? Service Link Mode: Multimedia Mode: MWI Served User Type:	y n n y n single n as-needed	STATION Auto Select Any Idl Coverage M Data Idle Appearanc Bridged Idle Lin Restrict Las EMU L Per Station CPN - Send Ca EC500 Audible Mes Display Client	Page 2 of Page 2 of Isg Retrieval? Auto Answer: 1 Restriction? 1 Preference? 1 Preference? 1 ogin Allowed? 1 lling Number? 2 State: enabled sage Waiting? 1 Redirection? 1	n y none n n y y n y
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FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy? Redirect Notification? Per Button Ring Control? Bridged Call Alerting? Active Station Ringing: H.320 Conversion? Service Link Mode: Multimedia Mode: MWI Served User Type:	y n n y n single n as-needed	STATION Auto Select Any Idl Coverage M Data Idle Appearanc Bridged Idle Lin Restrict Las EMU L Per Station CPN - Send Ca EC500 Audible Mes Display Client Select Last Use Coverage Afte	Page 2 of Page 2 of Isg Retrieval? Auto Answer: 1 Restriction? 1 Preference? 1 Preference? 1 ogin Allowed? 1 Illing Number? 2 State: enabled sage Waiting? 1 Redirection? 1 d Appearance? 1	n y none n n y y n y n n s
FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy? Redirect Notification? Per Button Ring Control? Bridged Call Alerting? Active Station Ringing: H.320 Conversion? Service Link Mode: Multimedia Mode: MWI Served User Type:	y n n y n single n as-needed	STATION Auto Select Any Idl Coverage M Data Idle Appearanc Bridged Idle Lin Restrict Las EMU L Per Station CPN - Send Ca EC500 Audible Mes Display Client Select Last Use Coverage Afte	Page 2 of Page 2 of Isg Retrieval? Auto Answer: 1 Restriction? 1 Preference? 1 Preference? 1 Preference? 1 Appearance? 2 State: enabled sage Waiting? 1 Redirection? 1 Preference? 1 State: enabled State: enabled State: enabled State: nabled State: nabled Stat	n y none n n y y n y n n n

display station 2000	Page	3 of	5
STATION			
Conf/Trans on Primary Appearance? n			
Bridged Appearance Origination Restriction? n			
Call Appearance Display Format: inter-location			
IP Phone Group ID:			
Enhanced Callr-Info Display for 1-Line Phones? n			
ENHANCED CALL FORWARDING			
Forwarded Destination	7	Active	
	F		
Unconditional For Internal Calls To: 4000		n	
External Calls To: 4000		n	
Busy For Internal Calls To: 4202		n	
External Calls To: 4202		n	
No Reply For Internal Calls To: 2101		У	
External Calls To: 2101		У	
SAC/CF Override: n			

display station 2000	STATION		4 of	5
SITE DATA Room: Jack: Cable: Floor: Building:		Headset? n Speaker? n Mounting: d Cord Length: 0 Set Color:		
ABBREVIATED DIALING List1:	List2:	List3:		
BUTTON ASSIGNMENTS 1: call-appr 2: call-appr 3: auto-in	5:	manual-in Grp: after-call Grp: aux-work RC: Grp:		
voice-mail				

## Avaya Agent LoginID

This is a printout of one of the agents used during compliance testing.

display agent-loginID 4400	Page	1 of 3
	AGENT LOGINID	
Login ID: 44	AAS?	n
Name: Pa	AUDIX?	n
TN: 1	LWC Reception:	spe
COR: 1	LWC Log External Calls?	n
Coverage Path:	AUDIX Name for Messaging:	
Security Code:		
	LoginID for ISDN/SIP Display?	n
	Password:	
	Password (enter again):	
	Auto Answer:	station
	MIA Across Skills:	system
	ACW Agent Considered Idle:	system
	Aux Work Reason Code Type:	system
	Logout Reason Code Type:	system
Maxim	time agent in ACW before logout (sec):	system
	Forced Agent Logout Time:	:

display	agent-log	inID 4400				Page	e 2 of	3
			AGENT	LOGINID				
Di	Direct Agent Skill: Service Objective? n							
Call Har	ndling Pre	ference: sł	ill-level		Local Ca	all Prefe	erence? n	
SN	RL SL	SN	RL SL	SN	RL SL	SN	RL SL	
1: 33	1	16:		31:		46:		
2: 34	1	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:		

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