

Avaya Solution & Interoperability Test Lab

# Application Notes for VPI EMPOWER Suite with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services 6.3 Using Station Tap – Issue 1.0

### Abstract

These Application Notes describe the configuration steps required for Voice Print International EMPOWER Suite to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services 6.3 using station tap. Voice Print International EMPOWER Suite provides solutions for interaction recording, quality monitoring, performance management, and eLearning. The compliance testing focused on the recording solution.

In the testing, Voice Print International EMPOWER Suite used the Telephony Services Application Programming Interface from Avaya Aura® Application Enablement Services to monitor contact center devices on Avaya Aura® Communication Manager, and used the station tap method to capture media associated with the monitored agent stations for call recording.

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 Voice Print International (VPI) EMPOWER Suite to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services 6.3 using station tap. VPI EMPOWER Suite provides solutions for interaction recording, quality monitoring, performance management, and eLearning. The compliance testing focused on the recording solution.

In the testing, VPI EMPOWER Suite used the Telephony Services Application Programming Interface (TSAPI) from Avaya Aura® Application Enablement Services to monitor VDNs, skill groups, and agent digital stations on Avaya Aura® Communication Manager, and used the station tap method to capture media associated with the monitored agent digital stations for call recording.

# 2. General Test Approach and Test Results

The feature test cases were performed both automatically and manually. Upon start of the EMPOWER Suite recording application, the application automatically requests monitoring on VDNs, skill groups, and agent stations.

For the manual part of the testing, each call was handled manually on the agent station with generation of unique audio content for the recordings. Necessary user actions such as hold and reconnect were performed from the agent telephones to test the different call scenarios.

The serviceability test cases were performed manually by disconnecting/reconnecting the Ethernet cable to EMPOWER Suite.

The verification of tests included using the EMPOWER Suite logs for proper message exchanges, and using the EMPOWER Suite web interface for proper logging and playback of 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 feature and serviceability testing.

The feature testing focused on verifying the following on EMPOWER Suite:

- Handling of TSAPI messages in the areas of event notification and value queries.
- Proper recording, logging, and playback of calls for scenarios involving inbound, outbound, internal, external, ACD, non-ACD, hold, reconnect, multiple calls, multiple agents, conference, and transfer.

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

### 2.2. Test Results

All test cases were executed and passed.

### 2.3. Support

Technical support on EMPOWER Suite can be obtained through the following:

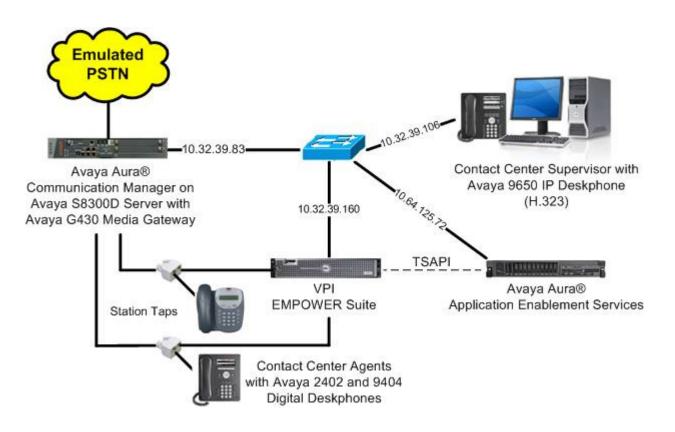
- **Phone:** (805) 389-5201
- Email: <u>support@vpi-corp.com</u>
- Web: <u>http://www.vpi-corp.com/support.asp</u>

# 3. Reference Configuration

EMPOWER Suite can be configured on a single server or with components distributed across multiple servers. The compliance test used a single server configuration. In the compliance testing, the RTP streams for agent stations were captured using TDM splitters that replicated all conversations from the agent digital stations to the AudioCodes SmartTAP NGX PCIe board on EMPOWER Suite.

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, EMPOWER Suite monitored the contact center devices shown in the table below.

Device Type	Extension
VDN	48001, 48002
Skill Group	48101, 48102
Agent Station	45001, 45002



**Figure 1: Compliance Testing Configuration** 

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# 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 S8300D Server	6.3.2 (R016x.03.0.124.0-21053)		
Avaya G430 Media Gateway • MM712AP DCP	34.5.0 HW07 FW015		
Avaya Aura® Application Enablement Services	6.3.1 (6.3.1.0.19-0)		
Avaya 9650 IP Deskphone (H.323)	3.210A		
Avaya 2402 Digital Deskphone	NA		
Avaya 9404 Digital Deskphone	NA		
<ul> <li>VPI EMPOWER Suite on</li> <li>Windows Server 2008</li> <li>AudioCodes SmartTAP NGX PCIe</li> <li>Avaya TSAPI Windows Client (csta32.dll)</li> </ul>	5.4 SP3 R2 Standard 05.07.00 Build 1038 6.1.0.396		

# 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

### 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.

```
Page 3 of 11
display system-parameters customer-options
                               OPTIONAL FEATURES
   Abbreviated Dialing Enhanced List? y
                                                Audible Message Waiting? y
                                                  Authorization Codes? y
       Access Security Gateway (ASG)? n
       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
                                         Digital Loss Plan Modification? y
 Async. Transfer Mode (ATM) Trunking? n
             ATM WAN Spare Processor? n
                                                                DS1 MSP? y
                                                  DS1 Echo Cancellation? y
                               ATMS? y
                 Attendant Vectoring? 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 1
CTI Link: 1
Extension: 40001
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: 1
```

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

```
Page 13 of 20
change system-parameters features
                        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
 ASAI
           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
```

# 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 services
- Obtain Tlink name
- Administer VPI 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		
	Please login here: Username Password Login Reset	Help	
	Copyright © 2009-2013 Avaya Inc. All Rights Reserved.		

The Welcome to OAM screen is displayed next.

Ανάγα Αρ	plication Enablement Services Management Console	Welcome: User Last login: Mon Oct 21 07:26:14 2013 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: 6.3.1.0.19-0 Server Date and Time: Mon Oct 21 10:38:03 MDT 2013 HA Status: Not Configured
Home		Home   Help   Logout
▶ AE Services		
Communication Manager Interface	Welcome to OAM	
High Availability		
▶ Licensing	The AE Services Operations, Administration, and Manage managing the AE Server. OAM spans the following admin	
Maintenance	AE Services - Use AE Services to manage all AE S     Server.	Services that you are licensed to use on the AE
Networking	Communication Manager Interface - Use Commun connection and dialolan.	nication Manager Interface to manage switch
▶ Security	<ul> <li>High Availability - Use High Availability to manage</li> </ul>	
▶ Status	<ul> <li>Licensing - Use Licensing to manage the license se</li> <li>Maintenance - Use Maintenance to manage the routenance</li> </ul>	utine maintenance tasks.
▶ User Management	<ul> <li>Networking - Use Networking to manage the networking</li> <li>Security - Use Security to manage Linux user accounts</li> </ul>	
Vtilities	<ul> <li>authorization, configure Linux-PAM (Pluggable Aut</li> <li>Status - Use Status to obtain server status infoma</li> </ul>	
▶ Help	<ul> <li>User Management - Use User Management to mar related resources.</li> <li>Utilities - Use Utilities to carry out basic connectivi</li> <li>Help - Use Help to obtain a few tips for using the C</li> </ul>	nage AE Services users and AE Services user- ty tests.
	Depending on your business requirements, these adminis administrator for all domains, or a separate administrato	

#### 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.

WAYA We	eb License Manager (W	CDEIT VO	.5)	elp   About		
WebLM Home	Application Enablement (CTI) - Rel	ease: 6 - SID:	10503000 Si	tandard Lic		
Install license	Versee have the end of the Archite	- Fachlander	in the second			
Licensed products	You are here: Licensed Products > Application	on_cnablement >	view License Capacity			
APPL_ENAB	License installed on: May 11, 2012 7:0	7:47 PM -04:00				
+ Application_Enablement						
View license capacity	License File Host IDs: 00-16-3E-48-ED-82					
View peak usage						
Uninstall license	Licensed Features					
Server properties				_		
Manage users	10 Items 🦿 Show ALL 💌	-				
	Feature (License Keyword)	Expiration dat	e Licensed capacity			
elp for Installed Product	CVLAN ASAI VALUE_AES_CVLAN_ASAI	permanent	16			
Pip for Installed 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_AES_PROPRIETARY_LINKS	permanent	16			
	Product Notes VALUE_NOTES	permanent	SmallServerTypes: s8300c;s8300d;icc;premio;tn8400;laptop;t MediumServerTypes: ibmx306;ibmx306m;dell1950;xen;hs20;hs LargeServerTypes: isp2100;ibmx305;dl380g3;dl385g1;dl385g1 TrustedApplications: IPS_001, BasicUnrestric DMCUnrestricted; 1XP_001, BasicUnrestric DMCUnrestricted; IXP_001, BasicUnrestric DMCUnrestricted; OPC_001, BasicUnrestric DMCUnrestricted; DMCUnrestricted; O AdvancedUnrestricted, DMCUnrestricted; O AdvancedUnrestricted, DMCUnrestricted; D AdvancedUnrestricted, DMCUnrestricted; O AdvancedUnrestricted, DMCUnrestricted; O CCT_ELTE_CALL_CTRL_001, BasicUnrestric DMCUnrestricted, AgentEvents;	s20_ 12;ui trict cted cted ted, tted ricte red, CSI CSI CSI AVA DM(		
	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

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

avaya	A COMPANY OF A COM	n Enablement S nagement Console	Services	Welcome: User Last login: Mon Oct 21 07:26:14 2013 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: 6.3.10.19-0 Server Date and Time: Mon Oct 21 10:38:03 MDT 2013 HA Status: Not Configured		
AE Services   TSAPI   1	ISAPI Links				Home   Help   Logout	
▼ AE Services						
> CVLAN	TSAPI Li	nks				
> DLG	Link	Switch Connection	Switch CTI Li	nk # ASAI Link V	ersion Security	
▶ DMCC	⊙ 1	S8800	2	6	Both	
▶ SMS				Ĩ	bour	
TSAPI	Add Lin	k Edit Link Delete Lir	nk			
<ul> <li>TSAPI Links</li> <li>TSAPI Propertie</li> </ul>	s					

The Add TSAPI Links screen is displayed next.

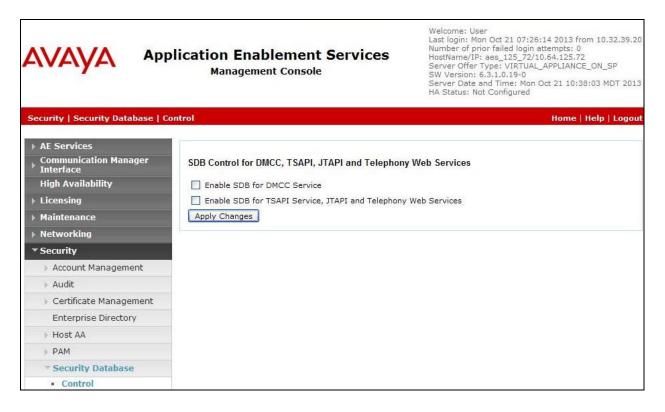
The Link field is only local to the Application Enablement Services server, and may be set to any available number. For Switch Connection, select the relevant switch connection from the drop-down list. In this case, the existing switch connection "S8300D" is selected. For Switch CTI Link Number, select 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: Mon Oct 21 07;26:14 2013 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: 6.3.10.19-0 Server Date and Time: Mon Oct 21 10:38:03 MDT 2013 HA Status: Not Configured
AE Services   TSAPI   TSA	API Links	Home   Help   Logout
AE Services CVLAN DLG DMCC SMS	Add TSAPI Links Link 2  Switch Connection S8300D  Switch CTI Link Number 1	
	ASAI Link Version 6 Security Unencrypted Apply Changes Cancel Changes	

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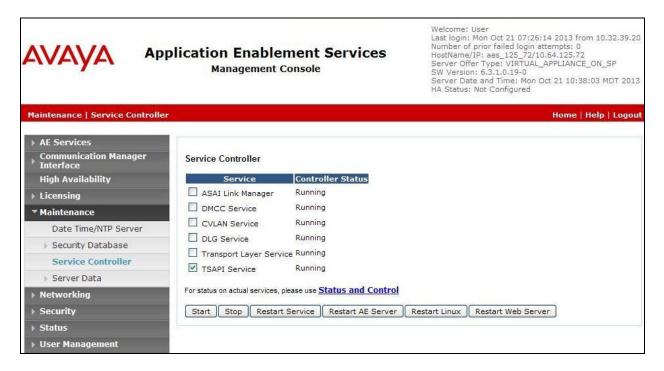
#### 6.4. Disable Security Database

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 Services

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.

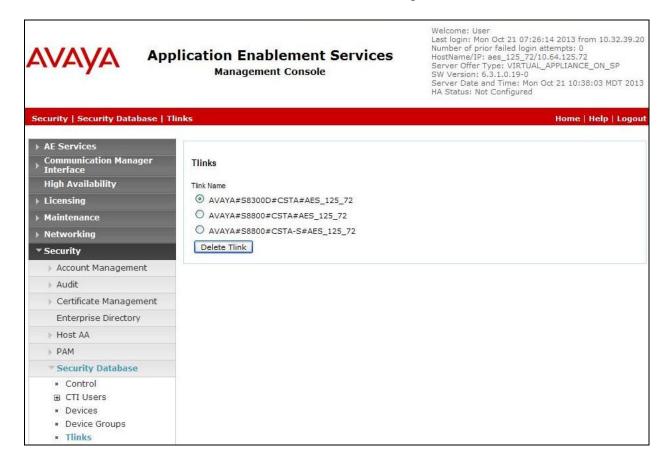


#### 6.6. Obtain Tlink Name

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 EMPOWER Suite.

In this case, the associated Tlink name is "AVAYA**#S8300D**#CSTA#AES\_125\_72". Note the use of the switch connection "S8300D" from **Section 6.3** as part of the Tlink name.



#### 6.7. Administer VPI 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.

dd User			Home   Help   Logout
Add User Fields marked with * can r	not be empty.		
* User Id * Common Name	vpi vpi		
* Surname * User Password * Confirm Password	vpi		
Admin Note Avaya Role	None	×	
Car License CM Home Css Home CT User Department Number Display Name Employee Number Employee Type	Yes		
	Fields marked with * can r * User Id * Common Name * Surname * User Password * Confirm Password Admin Note Avaya Role Business Category Car License CM Home Css Home CSs Home CT User Department Number Display Name Employee Number	Fields marked with * can not be empty.         * User Id       vpi         * Common Name       vpi         * Surname       vpi         * Surname       vpi         * User Password       •••••••         * Confirm Password       •••••••         Admin Note       •••••••         Avaya Role       None         Business Category       ·         Car License       ·         CM Home       ·         CT User       Yes ♥         Department Number       ·         Display Name       ·         Employee Number       ·         Employee Type       ·	Fields marked with * can not be empty.         * User Id       vpi         * Common Name       vpi         * Surname       vpi         * Surname       vpi         * User Password       ••••••••         * Confirm Password       ••••••••         Admin Note       ••••••••         Avaya Role       None         Business Category       ·         Car License       ·         CM Home       ·         CT User       Yes          Department Number       ·         Display Name       ·         Employee Number       ·         Employee Type       ·

# 7. Configure VPI EMPOWER Suite

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

- Administer SmartControl
- Launch VPI Configuration
- Administer start/stop events
- Administer TSAPI
- Administer channels
- Launch Activ!Voice

The configuration of EMPOWER Suite is performed by VPI installers. The procedural steps are presented in these Application Notes for informational purposes.

#### 7.1. LAdminister SmartControl

From the EMPOWER Suite server, select Start  $\rightarrow$  Control Panel, and click on the SmartControl icon (not shown below).

The AudioCodes USA Inc SmartWORKS screen is displayed. Select the Board tab. For PBX Type, select the appropriate type to correspond to the digital card on Communication Manager, in this case "Avaya Definity 2W". Reboot the EMPOWER Suite server.

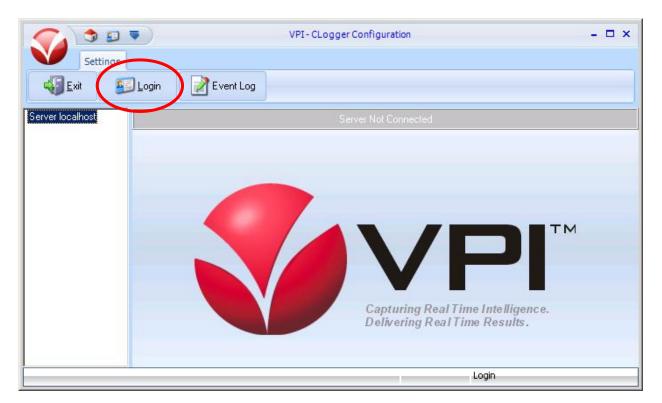
ect Board			
ard Number 1	PCI Bus No: 11	PCI Slot No: 0	Total Channels: 24
ase DC1 DC2	1		
Information For Board	11(Base Board)		
PBX Type	Avaya Definity 2VV	▼ <sup>DCh</sup>	annel Options
PBX Version	01.01.00	Г	D Channel
PDA Version	01.01.00		
Board Type	SmartTAP NGX PCle	Г	Event Updates
			Event Updates Cell Control
Board Type	SmartTAP NGX PCle	Г	
Board Type Channels	SmartTAP NGX PCle 8	-Terr	Call Control

#### 7.2. Launch VPI Configuration

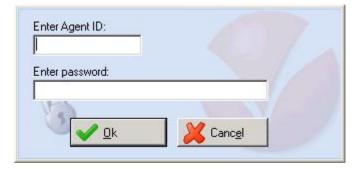
From the EMPOWER Suite server, double-click on the **VPI Configuration** icon shown below, which is created as part of the installation.



The VPI - CLogger Configuration screen is displayed. Click on Login, as shown below.



The screen below is displayed next. Log in using the appropriate credentials.

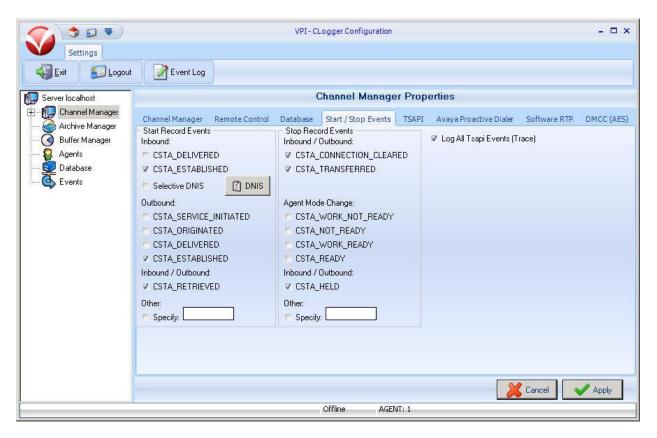


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### 7.3. Administer Start/Stop Events

The VPI - CLogger Configuration screen is displayed. Select Server localhost  $\rightarrow$  Channel Manager in the left pane, to display the Channel Manager Properties screen.

Select the **Start / Stop Events** tab in the right pane. Check the desired events to trigger the start and stop of call recordings. The screen below shows the selections used for the compliance testing. The **Log All Tsapi Events (Trace)** field was checked in the compliance testing for event verification purposes.



#### 7.4. Administer TSAPI

Select the **TSAPI** tab in the right pane. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Server 1 Machine:
- Application Username:
- Application Password:
- Switch Type:
- ACD Groups:
- VDNs:
- Recording Line Type:

The Tlink name from **Section 6.6**.

- The VPI user credentials from Section 6.7.
- The VPI user credentials from Section 6.7.
- "Avaya / Lucent"
- The skill group extensions from Section 3.
- The VDN extensions from Section 3.
- pe: "Extension Side"

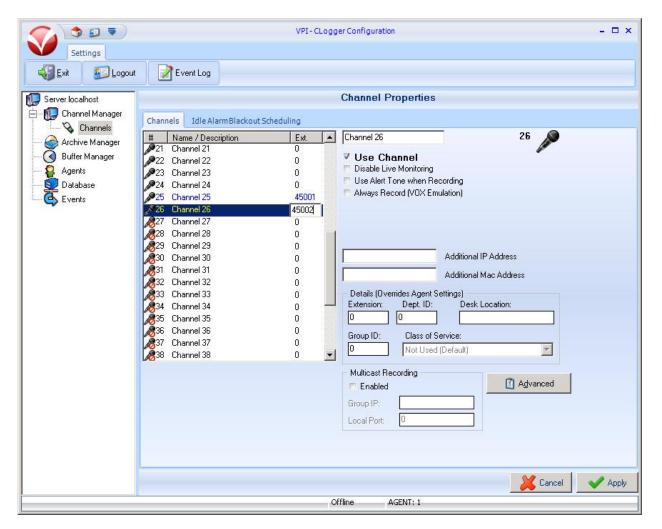
<b>S</b>	VPI - CLogger Configuration	- 🗆 ×
Settings		
Server localhost Channel Manager Archive Manager Buffer Manager Agents Database Events	Channel Manager Properties         Channel Manager Remote Control Database Start / Stop Events TSAPI Avaya Proactive Dialer DMCC (AES)         TSAPI Server Setup Server 1 Machine:       General Options       Lock Status Lights       Use Tsapi Time Stamp         AVAYA#\$8300D#CSTA Server 2 Machine:       Record All Agents       Lock Status Lights       Use Tsapi Time Stamp         TSAPI Device:       Additional Monitors       ACD Groups:       #8101, 48102       Trunks:         YDNs:       #8001, 48002       Extensions:       Extensions:       Extensions:         Pisable recording of calls when SPLIT is empty       Disable recording of calls when DISTRIBUTING VDN is empty         Disable recording of calls when DISTRIBUTING VDN is empty       Service Observe Options         Switch Type       Service Observe Options       Peature Code:         Soviet Meridian       Recording Line Type       Extension Side         Aspect       NEC       Trunk Side	
	Offline AGENT: 1	Apply

#### 7.5. Administer Channels

Select Server localhost  $\rightarrow$  Channel Manager  $\rightarrow$  Channels in the left pane, to display the Channel Properties screen. Select the first pertinent digital channel from the left portion of the Channel Properties screen, in this case Channel 25, and enter the following values for the specified fields in the right portion of the screen. Retain the default values for the remaining fields.

- Use Channel: Check this field.
- **Extension:** The first station extension from **Section 3**.

Repeat this section to administer a channel for each agent digital station to be monitored from **Section 3**. In the compliance testing, two channels **25** and **26** were configured as shown below.



#### 7.6. Launch Activ!Voice

From the EMPOWER Suite server, double-click on the **Activ!Voice** icon shown below to start the application. Note that the icon is created as part of the installation.



The **VPI – Digital Call Logger** screen is displayed. In the **Channel Manager** section, verify that the **Channels Recording** entry has the yellow status, and that all other entries have the green status, as shown below.

🔨 😏 🤜 VPI - Digital Call Logger (v4.6.0.69 b4.6.0.69), ID: 1 🛛 🗛 🗖						- 🗆 ×
Home Channels Buffer De	vices A	rchive Devices				
Disconnect 🗾 Login	Shutdown	Event Log	Server Status	Environment	Exit	
Server	Server Support System Information					
Process Status						
Channel Manager						5 📤
SAPI	Link OK, 1	Manager Idle.				
Channels Recording	0					
line Channels Idle	26					
Channels Reporting Errors	0					
Channels Enabled	26					_
Buffer Manager						3
Primary Buffer 1	79% Free	for use				
Overflow Buffer 1	No Device	e Selected.				
LTS Buffer 1	75% Free	for use				
🗄 Database Manager						2
VPData, Firebird 2.0.3.12981	Collecting	Data Store @ 11:3	5:09 AM			
VPortal, SQL Server 11.0.3000.0 SP1						
🗄 Archive Manager	- 1					1
🔴 Media Manager Service	Sweep Se	ession @ 11:35:49 AM				
Archive Devices						1
🔴 Media Manager 1	95.47% Fr	ee. Process Idle.				

# 8. Verification Steps

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

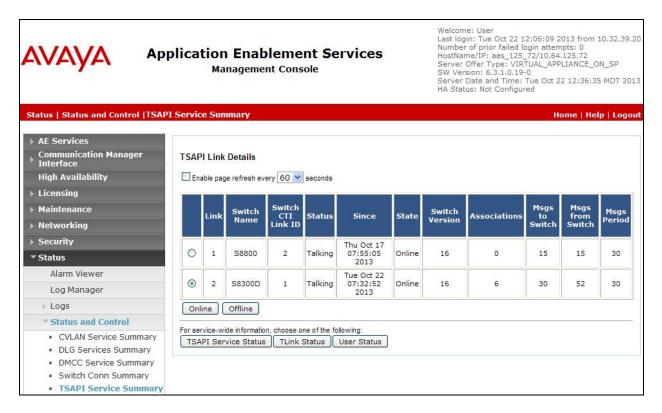
### 8.1. Verify Avaya Aura® Communication Manager

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.

1	6	no	aes_125_72	established	43	21
CTI Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Rcvd
			AE SERVICES	CTI LINK STAT	US	
statu	s aesvcs	cti-li	nk			

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

On Application Enablement Services, verify the 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 total number of monitored contact center devices from Section 3.



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### 8.3. Verify VPI EMPOWER Suite

Log an agent in to the skill group to handle and complete an ACD call. Access the EMPOWER Suite web-based interface by using the URL "https://ip-address/VPortal" in an Internet browser window, where "ip-address" is the IP address of the EMPOWER Suite server. Log in using the appropriate credentials.

User Name: Password:	Login
POWERED BY	About VPI EMPOWER Copyright © 2009 - 2013 Voice Print International, Inc. All rights reserved.

The screen below is displayed next, with a list of the call recordings for the current day. Verify that there is an entry reflecting the last call, with proper values in the relevant fields.

🌗 My VPI 🗸 🥂 Interactions 🗸 📄 Quality 🗸 🛝 Coaching	🗸 🖉 Performance Metri	ics 🗸 🧃 Messages 🗸 📲 A	Administration 🗸 👖 Help 🗸
Interactions > Audio Segment Search			
Search Actions V-Clip Sea	irching: Audio 🛛 🔽 Us	ing: Calls for 2013-10-23 00:00:	00 AND 2013-10-23 06:44:00
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POWERED BY		Log Off: vpadmin   Char Convergent @ 2009 - 2013 Voice	nge Password   About VPI EMPOWER e Print International, Inc. All rights reserved.

Solution & Interoperability Test Lab Application Notes ©2013 Avaya Inc. All Rights Reserved. Double click on the entry to listen to the playback. Verify that the screen is updated and that the call recording is played back.

My VPI 🗸 🧕 Interactions 🗸	Quality 🗸 🛝 Coaching 🗸 🎽	Performance Metrics 🗸 📆 Messages 🗸	🛛 📲 Administration 🗸 👖 Help 🗸
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# 9. Conclusion

These Application Notes describe the configuration steps required for VPI EMPOWER Suite to successfully interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services 6.3. All feature and serviceability test cases were completed.

# 10. Additional References

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

- 1. *Administering Avaya Aura*® *Communication Manager*, Document 03-300509, Issue 9, Release 6.3, October 2013, available at <u>http://support.avaya.com</u>.
- **2.** Avaya Aura® Application Enablement Services Administration and Maintenance Guide, Release 6.3, Issue 2, October 2013, available at <a href="http://support.avaya.com">http://support.avaya.com</a>.
- **3.** *VPI EMPOWER Avaya Channel Manager Guide*, September 2013, available on the VPI EMPOWER Suite server as part of installation.

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