

Avaya Solution & Interoperability Test Lab

Application Notes for configuring inContact Call Recording from inContact to interoperate with Avaya Aura® Communication Manager R7.0 and Avaya Aura® Application Enablement Services R7.0 using DMCC Single Step Conference to record calls - Issue 1.0

Abstract

These Application Notes describe the configuration steps for inContact Call Recording to interoperate with the Avaya solution consisting of an Avaya Aura® Communication Manager R7.0, an Avaya Aura® Session Manager R7.0, and Avaya Aura® Application Enablement Services R7.0 using Single Step Conference.

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 the inContact Call Recording R16.2 from inContact to interoperate with the Avaya solution consisting of an Avaya Aura® Communication Manager R7.0, an Avaya Aura® Session Manager R7.0, and Avaya Aura® Application Enablement Services R7.0. inContact Call Recording uses Communication Manager's Single Step Conference (SSC) feature via the Application Enablement Services (AES) Device, Media, and Call Control (DMCC) interface and the Telephony Services API (TSAPI) to capture the audio and call details for call recording on various Communication Manager endpoints, listed in **Section 4**.

DMCC works by allowing software vendors to create soft phones on a recording server, and use them to monitor and record Avaya phonesets. This is purely a software solution and does not require telephony boards or any wiring beyond a typical network infrastructure. The DMCC API associated with the AES server monitors the digital and VoIP extensions. The application uses the Single Step Conference feature to conference in a virtual extension and record the conversation.

inContact Call Recording is just one part of inContact's Call suite designed to improve the contact center's operational performance. Call recording provides the flexibility, efficiency and strength to handle all recording needs in terms of audio and screen/desktop capture. inContact Call Recording interface allows for simple configurations and flexibility to make changes within the product. The Hybrid recording compatibility with various telephony platforms allows for a seamless integration with the Avaya solution.

Note: The recording of SIP phones is currently not supported.

2. General Test Approach and Test Results

The interoperability compliance testing evaluated the ability of the inContact Call Recording to carry out call recording in a variety of scenarios using DMCC SSC with AES and Communication Manager. A range of Avaya endpoints were used in the compliance testing all of which are listed in **Section 4**.

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:

- **Inbound/Outbound calls** Test call recording for inbound and outbound calls to the Communication Manager to and from PSTN callers.
- **Hold/Transferred/Conference calls** Test call recording for calls transferred to and in conference with PSTN callers.
- Forwarded calls Test call recording for calls that were forwarded to various endpoints.
- **Feature calls** Test call recording for calls that are parked or picked up using Call Park and Call Pickup.
- Calls to Elite Agents Test call recording for calls to Communication Manager agents logged into one-X® Agent.
- **Serviceability testing** The behavior of inContact Call Recording under different simulated failure conditions.

2.2. Test Results

All functionality and serviceability test cases were completed successfully, except for the following feature test which had an issue as follows.

- Call Park. The un-parked call is not being recorded. It appears that there are no events being sent for un-parking a call by Communication Manager. Modification Report [CM-9860] has been raised with the Communication Manager support team. A fix for this issue will be implemented for release 7.1 of Communication Manager.
- 2. The Recording of SIP telephones is currently not supported. There were issues observed when SIP telephones were involved in conference or transfer scenarios, therefore these endpoints cannot be supported.

2.3. Support

Technical support can be obtained for inContact Call Recording from the website <u>http://www.uptivity.com/contact</u> or from the following.

Telephone

Toll-free: 888-922-5526 Direct/International: 614-340-3346 Fax: 614-340-4840 Support: 888-922-5526, option 2 **Email** support@uptivity.com

3. Reference Configuration

The configuration in **Figure 1** was used to compliance test inContact Call Recording with the Avaya solution using DMCC SSC to record calls. The inContact server is setup for DMCC Single Step Conference mode and connects to the AES.

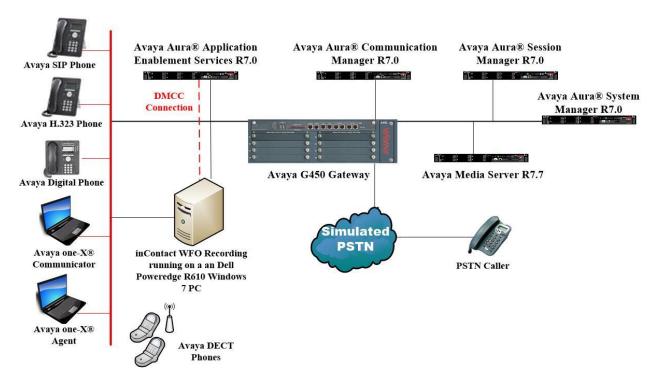


Figure 1: Connection of inContact Call Recording R16.2 from inContact with Avaya Aura® Communication Manager R7.0, Avaya Aura® Session Manager R7.0 and Avaya Aura® Application Enablement Services R7.0

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 a virtual server	System Manager 7.0.1.1 Build No 7.0.0.0.16266 Software Update Revision No: 7.0.1.1.065378 Service Pack 1
Avaya Aura® Session Manager running on a virtual server	Session Manager R7.0 SP1 Build No. – 7.0.1.1.701114
Avaya Aura® Communication Manager running on a virtual server	R7.0 R017x.00.0.441.0 00.0.441.0-23169
Avaya Aura® Application Enablement Services running on a virtual server	R7.0 Build No – 7.0.1.0.2.15-0
Avaya Media Server running on a virtual server	Media Server SYSTEM R7.7.0.8 Media Server R7.7.0.200
Avaya G450 Gateway	37.19.0 /1
Avaya 9608 H323 Deskphone	96x1 H323 Release 6.6.028
Avaya 9620 H323 Deskphone	9600 H323 S3.220A
Avaya 9408 Digital Deskphone	V2.0
Avaya one-X® Communicator H.323	R6.2.4.07-FP4
Avaya one-X® Agent	R 2.5.50022.0
Avaya DECT Handsets	3725 DH4 (R3.3.11) 3720 DH3 (R3.3.11)
inContact Call Recording running Windows 2012 Server R2	R16.2

5. Configure Avaya Aura® 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
                                                   DCS Call Coverage? y
         ASAI Link Core Capabilities? n
         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 (**aes70vmpg**).

display node-names	; ip	Page	1 of	2
	IP NODE NAMES			
Name	IP Address			
SM100	10.10.40.12			
aes70vmpg	10.10.40.26			
default	0.0.0			
G450	10.10.40.15			
procr	10.10.40.13			

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 5.2
- 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 aes70vmpg.
- **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** must 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	rices			Page	4 of	4
	AE	Services Admini	stration			
Server ID	AE Services Server	Password	Enabled	Status		
1: 2: 3:	aes70vmpg	*****	У	idle		

5.4. Configure CTI Link for TSAPI Service

Add a CTI link using the **add cti-link n** command, where n is the cti-link number. In the example shown below this is **1**.. 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
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```

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5.5. Configure Virtual Stations for Single Step Conference

Add virtual stations to allow inContact Call Recording to record calls using Single Step Conference. Type **add station x** where x is the extension number of the station to be configured. Also note this extension number for configuration required in **Section 7.1.** Note the **Type** is set to **4624** and **Security Code** and ensure that **IP SoftPhone** is set to **y**.

add station 58900		Page	1 of 6
		STATION	
Extension: 58900		Lock Messages? n	BCC: 0
Type: 4624		Security Code: 1234	TN: 1
Port: S00101		Coverage Path 1:	COR: 1
Name: Recorder		Coverage Path 2:	COS: 1
		Hunt-to Station:	
STATION OPTIONS			
		Time of Day Lock Table:	
Loss Group:	19	Personalized Ringing Pattern:	1
		Message Lamp Ext:	58900
Speakerphone:	2-way	Mute Button Enabled?	У
Display Language:	english		
Survivable GK Node Name:			
Survivable COR:	internal	Media Complex Ext:	
Survivable Trunk Dest?	У	IP SoftPhone?	У
		IP Video Softphone?	n
	Short/	Prefixed Registration Allowed:	default

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 and DMCC Ports
- Create CTI User
- 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.

A factorial (registering in Numberlands) (Sec. 2)		
C () A https://10.10.40.16 aesvcs/login.xhtml	P → S Certificate error C A AES Management Console ×	ଜ ☆
File Edit View Favorites Tools Help		
👍 🛕 AACC64 SIP 🗃 smgr70vmpg 🛕 AACC6.4 AML 🛃 A	AOA 🛕 AES63vmpg 🗿 Avaya-Nortel PEP Library 👩 SMGR63VMPG	
AVAYA	Application Enablement Services Management Console	
		Help
	Please login here: Username cust Password •••• Login Reset	
	Copyright © 2009-2015 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 both the TSAPI and DMCC Service is licensed by ensuring that **TSAPI Service** is in the list of **Services** and that the **License Mode** is showing **NORMAL MODE** and the same for the **DMCC Service**. If not, contact an Avaya support representative to acquire the proper license for your solution.

AVAYA	Application Enablement Services Management Console			Number of prior failed login atten HostName/IP: AES70vmpg/10.10 Server Offer Type: VIRTUAL_APP SW Version: 7.0.0.0.0.13-0 Server Date and Time: Tue Jun 1 HA Status: Not Configured	0.40.16 PLIANCE_ON_VMWARE
AE Services					Home Help Logo
▼AE Services					
▶ CVLAN	AE Services				
▶ DLG					
▶ DMCC	IMPORTANT: AE Services must be restarted for Changes to the Security Database do not requ		iect.		
▶ SMS					
► TSAPI	Service	Status	State	License Mode	Cause*
▶ TWS	ASAI Link Manager	N/A	Running	N/A	N/A
	CVLAN Service	OFFLINE	Running	N/A	N/A
		OTTEINE			N/A
Communication Manager		OFFLINE	Running	N/A	N/A N/A
Communication Manager ▶ Interface				N/A NORMAL MODE	
Communication Manager Interface High Availability	DLG Service	OFFLINE	Running		N/A
 Communication Manager Interface High Availability Licensing 	DLG Service DMCC Service	OFFLINE	Running Running	NORMAL MODE	N/A N/A
 Communication Manager Interface High Availability 	DLG Service DMCC Service TSAPI Service	OFFLINE ONLINE ONLINE	Running Running Running	NORMAL MODE	N/A N/A N/A
 Communication Manager Interface High Availability Licensing 	DLG Service DMCC Service TSAPI Service Transport Layer Service AE Services HA	OFFLINE ONLINE ONLINE N/A Not Configured	Running Running Running Running	NORMAL MODE NORMAL MODE	N/A N/A N/A N/A
 Communication Manager Interface High Availability Licensing Maintenance 	DLG Service DMCC Service TSAPI Service Transport Layer Service	OFFLINE ONLINE ONLINE N/A Not Configured	Running Running Running Running	NORMAL MODE NORMAL MODE	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.

Αναγα	Application Enablement Services Management Console				Welcome: User cust Last login: Tue Nov 17 10:07:45 2015 from 10.10.40.222 Number of prior failed login attempts: 1 HostName/UP:aes70vmgA Server Offer Type: VIRTUAL_APPLANCE_ON_VMWARE SW Version: 7.0.0.0.0.13-0 Server Date and Time: Tue Nov 24 16:16:56 GMT 2015 HA Status: Not Configured
Communication Manager Interface	Switch Connections			Home Help Logout	
AE Services Communication Manager Interface Switch Connections	Switch Connections				
▶ Dial Plan	Connection Name	Processor Ethernet	Msg Period	Number of Active Connections	
High Availability					
Licensing	Edit Connection Edit PE/CLAN IPs	Edit H.323 Gatekeeper Delete Connection	Survivability Hierarchy		
Maintenance		-)[]			
▶ Networking					
> Security					
▶ Status					
User Management					
▶ Utilities					
> Help					

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**. The remaining fields should show as below. Click **Apply** to save changes.

Αναγα	Application Enablement Services Management Console				
Communication Manager Interface	Switch Connections				
 AE Services Communication Manager Interface 	Connection Details - cm70vmpg				
Switch Connections	Switch Password	•••••]		
▶ Dial Plan	Confirm Switch Password	••••••]		
High Availability	Msg Period	30	Minutes (1 - 72)		
► Licensing	Provide AE Services certificate to switch				
Maintenance	Secure H323 Connection				
Networking	Processor Ethernet	\checkmark			
 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 the previous page). 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.

Αναγα	Application Enablement Services Management Console		
Communication Manager Interface	Switch Connections		
 AE Services Communication Manager Interface Switch Connections 	Edit Processor Ethernet IP - cm70vmpg 10.10.40.13 Add/Edit Name or IP		
▶ Dial Plan	Name or IP Address		
High Availability	10.10.40.13		
 Licensing Maintenance 	Back		
Networking			
 Security 			
Status			
User Management			
▶ Utilities			
) Help			

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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.

Αναγα	Application Enablement Services Management Console				
AE Services TSAPI TSAPI Links					
AE Services CVLAN	TSAPI Links				
▶ DLG	Link Switch Connection	Switch CTI Link #			
> DMCC	Add Link Edit Link Delete Link				
> SMS					
▼ TSAPI					
 TSAPI Links 					
 TSAPI Properties 					
> TWS					
Communication Manager					

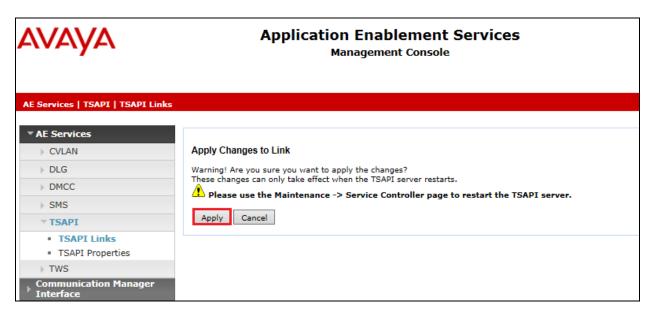
On the Add TSAPI Links screen (or the Edit TSAPI Links screen to edit a previously configured TSAPI Link as shown below), enter the following values:

- Link: Use the drop-down list to select an unused link number.
- Switch Connection: Choose the switch connection cm70vmpg, 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		
AE Services TSAPI TSAPI Links			
▼ AE Services			
> CVLAN	Edit TSAPI Links		
> DLG	Link 1		
► DMCC	Switch Connection Cm70vmpg V		
> SMS	Switch CTI Link Number 1 💙		
TSAPI	ASAI Link Version 5 V		
TSAPI LinksTSAPI Properties	Security Both Apply Changes Cancel Changes Advanced Settings		
> TWS			
Communication Manager Interface			

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



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

ļ	Application Enablement Se Management Console	ervices	Number of prior failed HostName/IP: aes70v; Server Offer Type: VIF SW Version: 7.0.0.0.0	mpg RTUAL_APPLIANCE_ON_VMWARE .13-0 : Tue Nov 24 16:26:08 GMT 2015
				Home Help Logout
TSAPI Links	Switch Connection cm70vmpg it Link Delete Link	Switch CTI Link #	ASAI Link Version	Security Both
	TSAPI Links	Imagement Console Image	TSAPI Links Link Switch Connection Switch CTI Link # ① 1 cm70vmpg 1	Application Enablement Services Management Console Number of prior Tailed Server Offer Type: VI Server Offer Type: VI Server Date and Time HA Status: Not Config TSAPI Links Image: Console Server Date and Time HA Status: Not Config Link Switch Connection Switch CTI Link Ø ASAT Link Version 1 5

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**.

Αναγα	Application Enablement Services Management Console						
Maintenance Service Controller							
Communication Manager	Service Controller						
High Availability	Service	Contro	ller Status				
Licensing	ASAI Link Mana	iger Running	1				
 Maintenance Date Time/NTP Server Security Database Service Controller Server Data Networking Security Status 	TSAPI Service	Running Running Running	9 9 9	l Restart Linux	Restart Web Server		
 User Management Utilities Help 							

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 inContact Call Recording in **Section 7.3**.

Αναγα	Application Enablement Services Management Console
Security Security Database Tlin	ks
AE Services	
Communication Manager	Tlinks
High Availability	Tlink Name
▶ Licensing	AVAYA#CM70VMPG#CSTA#AES70VMPG
Maintenance	O AVAYA#CM70VMPG#CSTA-S#AES70VMPG
Networking	Delete Tlink
▼Security	
Account Management	
> Audit	
Certificate Management	
Enterprise Directory	
Host AA	
▶ PAM	
Security Database	
Control	
 Devices 	
 Device Groups 	
 Tlinks 	
 Tlink Groups 	
 Worktops 	

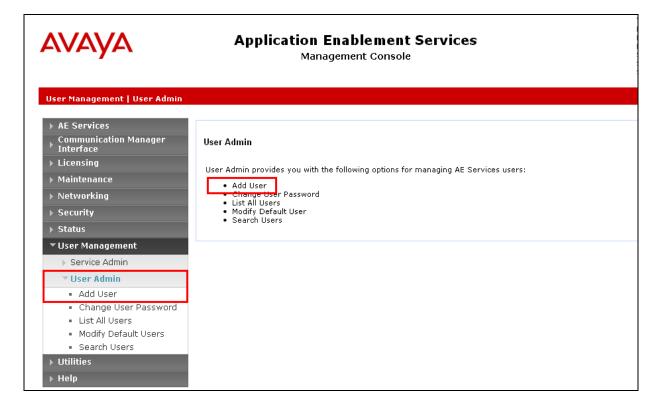
6.5. Enable TSAPI and DMCC Ports

To ensure that TSAPI ports are enabled, navigate to **Networking** \rightarrow **Ports**. Ensure that the TSAPI ports are set to **Enabled** as shown below. Ensure that the **DMCC Server Ports** are also **Enabled** and take note of the **Unencrypted Port 4721** which will be used later in **Section 7.1**.

AVAYA	A	Application Enablement Services Management Console					
Networking Ports							
AE Services							
Communication Manager Interface	Ports						
High Availability	CVLAN Ports			Enabled Disabled			
Licensing		Unencrypted TCP Port	9999	• •			
> Maintenance		Encrypted TCP Port	9998	• •			
 Networking AE Service IP (Local IP) 	DLG Port	TCP Port	5678				
Network Configure	TSAPI Ports			Enabled Disabled			
Ports	1	TSAPI Service Port	450	• •			
TCP Settings	-	Local TLINK Ports					
-		TCP Port Min	1024				
Security		TCP Port Max	1039				
Status		Unencrypted TLINK Ports					
User Management		TCP Port Min	1050				
Utilities		TCP Port Max	1065				
Help		Encrypted TLINK Ports					
пер		TCP Port Min	1066				
		TCP Port Max	1081				
	DMCC Server Port	·s		Enabled Disabled			
		Unencrypted Port	4721	• •			
		Encrypted Port	4722				
		TR/87 Port	4723				

6.6. Create CTI User

A User ID and password needs to be configured for the inContact Call Recording to communicate 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 inContact Call Recording setup in Section 7.1 and Section 7.3.
- Common Name and Surname Descriptive names need to be entered.
- User Password and Confirm Password This will be used with inContact Call Recording setup in Section 7.1 and Section 7.3.
- **CT User** Select **Yes** from the drop-down menu.

Click on **Apply Changes** at the bottom of the screen.

User Management User Admin List AE Services Communication Manager Interface High Availability Licensing Maintenance Networking Security Status User Management Service Admin User Admin Add User Change User Password	All Users
 Communication Manager Interface High Availability Licensing Maintenance Networking Security Status User Management Service Admin User Admin Add User Change User Password 	
 Licensing Maintenance Networking Security Status User Management Service Admin User Admin Add User Change User Password 	Edit User * User Id incontact
 Networking Security Status User Management Service Admin User Admin Add User Change User Password 	* Common Name incontact * Surname incontact
 Service Admin User Admin Add User Change User Password 	User Password Confirm Password Admin Note
-	Avaya Role None Business Category
 List All Users Modify Default Users Search Users Utilities 	CT User Yes ✓ Department Number Display Name Employee Number
▶ Help	Employee Type Enterprise Handle Given Name Home Phone Home Postal Address
	Initials Labeled URI Mail
	MM Home Mobile Organization Pager
	Preferred Language English Room Number

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6.7. Associate Devices with CTI User

Navigate to Security \rightarrow Security Database \rightarrow CTI Users \rightarrow List All Users. Select the CTI user added in Section 6.6 and click on Edit.

AVAYA	Application Enablement Services Management Console						
Security Security Database CTI	Users List All Users						
 AE Services Communication Manager Interface 	CTI Users						
High Availability	<u>User ID</u>	<u>Common Name</u>					
▶ Licensing	O enghouse	enghouse					
Maintenance	incontact	incontact					
Networking							
▼ Security	Edit List All						
Account Management							
▶ Audit							
Certificate Management							
Enterprise Directory							
> Host AA							
► PAM							
Security Database							
Control							
CTI Users							
List All Users Search Users							

In the main window ensure that **Unrestricted Access** is ticked. Once this is done click on **Apply Changes**.

Αναγα	Application Enable Management	Number o HostName Server Of SW Versio Server Da HA Status	
Security Security Database CTI	(Users List All Users		
 AE Services Communication Manager Interface 	Edit CTI User		
High Availability	User Profile:	User ID	incontact
▶ Licensing		Common Name	incontact
▶ Maintenance		Worktop Name Unrestricted Access	
▶ Networking		Unrestricted Access	•
▼ Security	Call and Device Control:	Call Origination/Termination and Device Status	None 🗡
Account Management	Call and Device Monitoring:	Device Monitoring	None V
▶ Audit	Can and Device Homoning.	Calls On A Device Monitoring	None V
Certificate Management		Call Monitoring	None
Enterprise Directory	·		
▶ Host AA	Routing Control:	Allow Routing on Listed Devices	None 🗡
▶ PAM	Apply Changes Cancel Changes		
Security Database			

7. Configure inContact Call Recording

Either from the inContact Call Recording server or from another PC, open a web session to the inContact Call Recording server's IP address Enter the proper credentials and click on **LOGIN**.

🗲 🔿 🚾 http://localhost Security/Authorize/		ۍ ، م	LogIn	×		
Discover					Uptivity Copyright © 2015 Uplivity, Inc. All Rights Reserved. 5.7	^
		•••••		*		
	Remember m	Forgot your pass y username?	<u>wordz</u>	LOGIN		
						~

7.1. Create Voice Board

Click on the Administration tab and select **Recorder Settings** \rightarrow **Voice Boards** in the left window, click on Add at the top right of the main window.

Discover					uptiv	
Home Interactions List	Coaching Reporting	Surveys Adminis	tration	Logged in	as superuser Change Password	l Logou
Core Functions Add-Ons						
Permissions	Voice Boards					Add
Scheduling	Voice Board ID	Core ID	Hardware Type	Channel Count	Actions	
_						
Tools	_					
Recorder Settings	_					
CTI Cores Custom Lookup						_
IP Phones						
On Demand Transcoder						
Voice Boards						

Select Avaya DMCC as the Hardware Type.

Core Functions Add-On	8
Permissions	Create
Scheduling	Select Hardware Type <supported hardware=""> AI-Logix DP3209 T1/E1 Passive Tap</supported>
Tools	Al-Logix DP6409 T1/E1 Passive Tap Al-Logix DT3209 T1/E1 Terminate Board
Recorder Settings	AI-Logix DT6409 T1/E1 Terminate Board AI-Logix LDA1609 AI-Logix LDA2409
CTI Cores Custom Lookup IP Phones On Demand	Al-Logix LDA409 Al-Logix LDA809 Al-Logix NGX1600 16 Channel Passive Tap Al-Logix NGX2400 24 Channel Passive Tap
Transcoder Voice Boards	Avaya DMCC Clsco Active Recording Loopback Mitel SRC Nortel MLS RTP Logger ShoreTel Media Redirection VoIP Sniffer

Enter the **AES/DMCC Host** information which will be the IP Address of the AES. The DMCC connection can be secure or unsecure, for compliance testing **Secure DMCC Connection** was set to **No**. The **DMCC Port** for an unsecure connection is set to **4721** and can be found in **Section 6.5**. Choose a suitable **DMCC Application Name** and enter the **DMCC User** and **Password** as per **Section 6.6**. All other values can be left as default, scroll down to the end.

Core Functions Add-Ons	
Permissions	Edit VoiceBoard #1002
Scheduling	
Tools	General Board Settings (Avaya DMCC)
Recorder Settings	AES/DMCC Host 10.10.40.26
CTI Cores	Secure DMCC Connection
Custom Lookup IP Phones	No
On Demand Transcoder	Encrypted RTP Stream
Voice Boards	No
	DMCC Port
	4721
	DMCC Application Name
	DevConnectLab ×
	DMCC User
	incontact
	DMCC Password
	•••••
	DMCC Protocol Version
System Settings	4.0
Web Portal Settings	DMCC Protocol Session Cleanup Delay
	5
	DMCC Protocol Session Duration
	180

Scroll down to PBX Addresses and enter the IP Address for Communication Manager in the **Avaya Call Manager Host** field. The **DMCC Station Endpoint Host** will be the IP address of the inContact server, which in this case will be the localhost. The value for the **RTP Listening Interface (NIC)** can be obtained from either Wireshark or from the program cc_interfaceBrowser.exe as shown in **Appendix A**.

DMCC Proto	col Session D	uration				
180						
Avaya Call M	lanager Host					
10.10.40.13	-					
DMCC Statio	n Endpoint H	ost				
10.10.40.51						
DMCC Codeo						
G.711 - A-Lav				$\mathbf{\mathbf{v}}$		
DTD Lietonin	g Interface (N	11(2)		_		
	51-4694-8B08-5		,			
DMCC Statio	n Endpoint In	itial Port				
7000						
Tamp Dagar	ling Logation					
-	ling Location			_		
c:\default_rec				_		
Use Voice Bo	oard Reloadin	g				
No				\mathbf{v}		
				_		
11110						
UNC		Add				
Paths						
Local	Remote					
LUGAI	Remote					

Enter the **Number of Channels to Add**, this will determine the number of simultaneous devices that can be monitored. For compliance testing **9** were chosen allowing each virtual recorder be associated with a different Communication Manager extension. These virtual stations are created on Communication Manager as per **Section 5.5**.

Channels		Number	of Channels to Add:	9	Add	
Channel ID	Assign		Station	Password	Name	
17	Anything	~	58900	1234		Delet
18	Anything	~	58901	1234		Delet
19	Anything	~	58902	1234		Delet
20	Anything	~	58903	1234		Delet
21	Anything	~	58904	1234		Delet
22	Anything	~	58905	1234		Delet
23	Anything	~	58906	1234		Delet
24	Anything	V	58907	1234		Delet
25	Anything	~	58908	1234		Delet

Scroll back up to the top again and click on **Save**, as highlighted below.

inContact. w	FO						
Home Intera	ctions List	Coaching	Reporting	Surveys	Administration		Logged in as superuser Change Password 🛞 Help Logout
Core Functions	Add-Ons						
Permissions		Edit Voi	ceBoard #1002				Back Save
Scheduling							
Tools			neral Boar	d Setting	I <mark>S</mark> (Avaya DMC)	C)	
Recorder Settings			10.40.26				
CTI Cores Custom Lookup		Sec	ure DMCC Co	nnection			
IP Phones		No				~	
On Demand Transcoder		Enc	rypted RTP St	ream			
Voice Boards		No				~	
		DMC	CC Port				
		472					
		DMC	CC Application	n Name			
			ConnectLab			×	
		DMC	CC User				
		inco	ontact				
		DMC	CC Password				
			•••••				

7.2. Create Schedule

Remain in the Administration tab and select Scheduling \rightarrow Create Schedule in the left window, click on Create a Custom Schedule (Advanced) in the main window.

Discover		uptivity
Home Interactions List Core Functions Add-Ons	Coaching Reporting Surveys Administration	Logged in as superuser Change Password Logout
Permissions Scheduling Create Schedule Timed Schedules Find Schedule	Schedule Wizard 1 Record All Calls For An Agent During A Time Range 2 Create A Custom Schedule (Advanced) 3 Record The Next N Calls For An Agent	

Enter a suitable name for the schedule. For compliance testing the following were set,

• Type

• Direction

• Target Percent

Set to **Percentage** Set to **100** Set to **both**

• Schedule Requirements Voice Port Not Equal To 0

The other values can be left as default. Click on **Save Schedule** to save this.

Core Functions Add-Ons			
Permissions	New Schedule		Save Schedule
Scheduling	Name : Avaya	Description :	
Create Schedule Timed Schedules Find Schedule	Owner : CallCopy Admir 🔽		
rind schedule	Never Expire : 🗹		
	Type : Percentage	Target Percent : 1	00
		Random Probability :	
	Direction : both	Priority : 5	0
	Min Record Length (Sec) : 5	Max Record Silence(Sec) : 6	00
	Max Record Length (Sec) : 6000	Retention Days : 3	65
	Screen capture wrap length (Sec) : 0	Archive Action : F	Purge 🔽
	Stop screen capture wrap on call start : No		
Tools	Audio Capture : Yes 🔽	Screen Capture :	lo 🗸
Recorder Settings	Speech Analytics : Yes 💌		
System Settings	Disk Location : C:\Recordings	Comparison : A	ND 🗸
Web Portal Settings	Blackout Remote Audio :		
	Schedule Requirements		
	Value Type Comparison	Value	Case Sensitive
	1 Voice Port V Not Equal To	0	
	2	~	

7.3. Create Core

Remain in the Administration tab and select **Recorder Settings** \rightarrow **CTI Cores** in the left window, click on **Add Core** at the top right of the main window.

Discover			uptivity
Home Interactions List	Coaching Reportin	g Surveys Administration	Logged in as superuser Change Password Logout
Core Functions Add-Ons			
Permissions	CTI Cores List		Add Core
Scheduling	#	Location	Name
Tools			
Recorder Settings			
C11 Cores Custom Lookup IP Phones On Demand Transcoder Voice Boards			

Enter a suitable **Name.** The **Host** must be set to that of the inContact Call Recording server, in the case below this was the localhost or IP address for the localhost. The **Record Method** should be set to **Single Step Conference** and the **Enable Event interface** should be set to **Yes**. All other fields can be left as default. Scroll down to the bottom of the page.

Core Functions Add-Ons			
Permissions	Settings		
Scheduling			1
Tools	Name :	DMCC-SSC	1
	Location :	Default	
Recorder Settings	Host :	10.10.40.51	
CTI Cores Custom Lookup	Port :	5685]
IP Phones On Demand	Monitor Reload Frequency :	15	(s)
Transcoder Voice Boards	Record Method :	Single Step Conference	
	Playback Method :	- Select -	
	Enable Event Interface :	Yes	
	Api Commands To Script :	No	
	JCOM Timeout Interval :	300	(ms)
	JCOM Reconnect Interval :	300	(ms)
	Default Screen Capture Port :	5633	
	Generate XML with recordings :	Yes	
System Settings	Transcode by Board :	No	
	Channel Selection :	Round Robin	
Web Portal Settings	Local Data Directory :		
	Use Media Server :	No	Ì

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Select the **Related Boards** and the **Related Schedules** as is shown below by clicking on the add icon.

Related Components				
Related Boards	Related C	ore(s)	Related Schedules	÷.
	4.			
	%			<u>×</u>
1002 - AVAYADMCC	✓	✓ 🕄	RecAll	✓ C

With the Board and Schedule selected click on the drop down menu highlighted and select **Avaya DMCC**, with this selected click on **Add CTI Module**.

Related Components			_
Related Boards	Related Core(s)	Related Schedules	
1002 - AVAYADMCC		RecAll	
*	×		<i>3</i> ¢
✓	IPOv500 🗸 🛟	OnDemand 🗸	•
CTI Modules			Avaya DMCC Add CTI Module
		N	lame

From the drop down menu select Avaya TSAPI and click on Add CTI Module.

Related Components			_
Related Boards	Related Core(s)	Related Schedules	
1002 - AVAYADMCC	*	RecAll	×
	IPOv500 🗸 🛟	OnDemand 🗸	•
CTI Modules			Avaya TSAPI Add CTI Module
#		l l	lame
1006	cc_AvayaDMCC		h ey t _{iga} ac

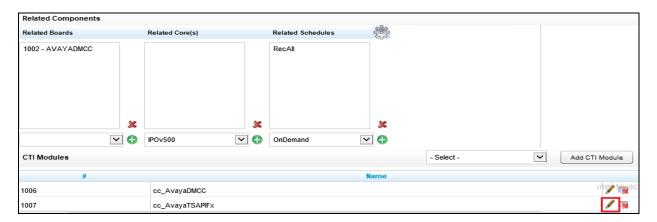
Solution & Interoperability Test Lab Application Notes ©2016 Avaya Inc. All Rights Reserved. Each new CTI Module needs to be edited, click on the edit icon as shown below and edit each CTI core starting with **cc_AvayaDMCC** as shown below.

Related Boards	Related Core(s)	Related Schedules		
1002 - AVAYADMCC		RecAll		
×	*		×	
✓	IPOv500 🗸 🛟	OnDemand 🗸		
CTI Modules			Avaya TSAPI Add CTI	Module
#		N	Name	
1006	cc_AvayaDMCC			📝 🗟 act
1007	cc_AvayaTSAPIFx			/ 🕱

The settings below show the configuration used during compliance testing.

0	(ms)
•	
0	
•	
0	✓

Edit the cc_AvayaTSAPIFx module as shown below.



Enter the TLINK information (found from Section 6.4) into the Server Name box. Enter the CTI user and password as per Section 6.6 for the Server Username and Server Password. The other information can be left as default. Scroll down to Monitors, each device that needs to be monitored can be added here, as shown below these are Communication Manager extensions ranging from 7000 to 7050.

		Server Name :	AVAYA#CM70VMPG#C	STA#AES70VMPG	
		Server Username :	incontact		
		Server Password :	•••••		
	Re	gister Monitor Delay :	10		
Number	of AES C	Connection Attempts :	0		
		Private Data Type :	ECS#2-7		
		TS Version :	TS1-2		
	Que	ry Info On Establish :	No		~
Re	egister DN	MCC by Agent Login :	No		~
	Us	e Dynamic Monitors :	No		~
Monitor Devices by Group :		No		~	
Monitors:					
Mor	nitor Type	e: Device		 ✓ ⊕ 	
Monito	or Values	:		*	
	Prefix				
	Postfix	:			
Filter	Monitors	: All Monitors		VY	
ID		Monito	or Type		
7000	de	vice			
7001	de	vice			
7010	de	vice			
7011	de	vice			
7020	de	vice			
7021	de	vice			
7050	de	vice		38	

Scroll up to the top of the page and click on **Save**.

inConta	act. WFO								
								0	
Home	Interactions List	Coaching	Reporting	Surveys	Administration		Logged in as superuser	Change Password	Help Logout
Core Fun	ctions Add-Ons								
Permission	\$	Avaya TSA	PI :: Settings					Back	Save
Users Groups				Server Name :	AVAYA#CM70VMPG#CSTA#A	ES70VMPG			
Roles			Ser	ver Username :	incontact				
			Server Password :		•••••				
			Register	Monitor Delay :	10]		
		Number	of AES Connec	ction Attempts :	0				
			Private Data Type : TS Version : Query Info On Establish :		ECS#2-7]		
					TS1-2				
					No	~			
		Re	egister DMCC b	y Agent Login :	No	~			
			Use Dyn	amic Monitors :	No	~			
Scheduling			Monitor Devi	ices by Group :	No	~			
		Monitors:							
Tools		Mon	nitor Type: De	vice	~	0			
Recorder Se	ettings	Monito	or Values :			×			
System Set	tings		Prefix :						

8. Verification Steps

This section provides the steps that can be taken to verify correct configuration of the inContact Call Recording and Avaya Aura® Application Enablement Services.

8.1. Verify Avaya Aura® Communication Manager CTI Service State

Before checking the connection between the inContact Call Recording and AES, check the connection between Communication Manager and AES to ensure it 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	5	no	aes70vmpg	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.

avaya	Application Enablement Services Management Console							Neconner Osar Cost Last login: Tue Nov 24 16:15:05 2015 from 10.10.40.22 Number of prior Failed login attempts: 0 HostName/IP: aes70vmg Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 7.0.0.0.0.13-0 Server Date and Time: Wed Nov 25 14:33:01 GMT 2015 HA Status: Not Configured					
Status Status and Control TSAPI S	Service S	Summa	iry								Home H	lelp Logo	
 AE Services Communication Manager Interface High Availability 	TSAPI		etails refresh every 60 💙	seconds									
Licensing Maintenance Networking		Link	Switch Name	Switch CTI Link ID	Status	Since	State	Switch Version	Associations	Msgs to Switch	Msgs from Switch	Msgs Period	
 Security 	۲	1	cm70vmpg	1	Talking	Mon Nov 23 10:28:15 2015	Online	17	8	15	15	30	
Status Alarm Viewer Log Manager Logs Status and Control CVLAN Service Summary DLG Service Summary DMCC Service Summary Switch Conn Summary TSAPI Service Summary Utilities Utilities Help		ce-wide i	filme Information, choose on e Status TLink St		tus								

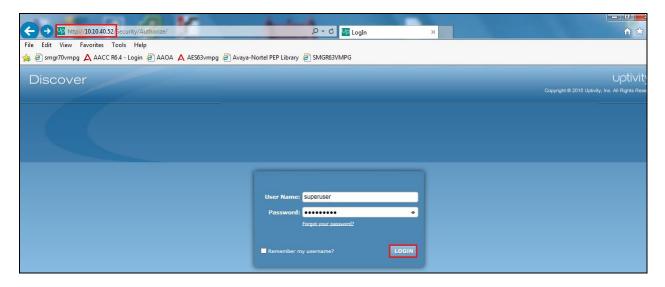
8.3. Verify DMCC link on AES

Verify the status of the DMCC link by selecting Status \rightarrow Status and Control \rightarrow DMCC Service Summary to display the DMCC Service Summary – Session Summary screen. The screen below shows that the user inContact is connected from the IP address 10.10.40.51 which is the inContact Call Recording server.

AVAYA	Application Enablement Services Management Console Number of prior failed login attempts: 0 HostName/IP: aes70vmpg/10.10.40.26 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 7.0.1.0.2.15-0 Server Date and Time: Fri Sep 23 14:42:54 IST 2016 HA Status: Not Configured
Status Status and Control DMC	C Service Summary Home Help Logout
 > AE Services Communication Manager Interface High Availability Licensing Maintenance Networking Security 	DMCC Service Summary - Session Summary Please do not use back button □ Enable page refresh every 60 v seconds Session Summary Device Summary Generated on FN Sep 23 14.4254 IST 2016 Service Uptime: 8 days, 12 hours 49 minutes Number of Active Sessions: 1 Number of Session Strated Since Service Boot: 6
▼ Status	Number of Existing Devices: 10
Alarm Viewer	Number of Devices Created Since Service Boot: 40
 Log Manager Logs 	Session ID User Application Far-end Identifier Connection Type # of Associated Devices Image: Session ID 9AA7E9586B2FEC173 799B8632E29D0CA-8 incontact CallCopy 10.0.40.51 XML Unencrypted 10
Status and Control CVLAN Service Summary DLG Services Summary DMCC Service Summary Switch Conn Summary TSAPI Service Summary	Terminate Sessions Show Terminated Sessions Item 1-1 of 1

8.4. Verify inContact Call Recording

From any PC that has a sound card and speakers, open a browser session and browse to the IP address of the inContact Call Recording server. Enter the proper credentials and click on **LOGIN**.



Select the **Interactions List** tab and within that tab select the **Call List** tab. Select the required date from the **Calendar** as shown below and this will display all the call recordings that were recorded on that particular date. Select any of the play icons highlighted to play back that particular recording.

Discover											uptivity
	oaching	Reporting	Surveys 4	Administration							Logged in as superuser Change Password Log
Call List Live Monitor											
Calendar	Filt	Previou	s Filter Cur	rent Filter: Ti	me Recorde	d ×					Settings
▲ November, 2015 ▶	*	Record ID	📕 🛛 First Nam	e Last Name	Voice Port	Time Recorded	Duration	Video	Evaluations Completed	QA Score	
Su Mo Tu We Th Fr Sa		134			5221	11/10/2015 3:48:57 PM	00:00:11		0	-	
Su Pio Tu we Ti Pi Sa	Þ	133			5250	11/10/2015 3:48:50 PM	00:00:10		0	-	
1 2 3 4 5 6 7	Þ	132			5250	11/10/2015 3:44:09 PM	00:00:09		0		
8 9 10 11 12 13 14 15 16 17 18 19 20 21	Þ	131			5250	11/10/2015 3:41:53 PM	00:00:54		0	-	
22 23 24 25 26 27 28	Þ	130			5250	11/10/2015 3:40:09 PM	00:00:11		0	÷	
29 30	Þ	129			5221	11/10/2015 3:38:57 PM	00:00:08		0		
Agent	Þ	128			5221	11/10/2015 3:36:13 PM	00:00:38		0	-	
	Þ	127			5221	11/10/2015 3:35:08 PM	00:00:09		0		
CallCopy group	D	125			5221	11/10/2015 3:23:53 PM	00:00:09		0	-	
ACD Gate	D	126			5222	11/10/2015 3:23:18 PM	00:00:49		0	-	
Group	Þ	124			5221	11/10/2015 3:21:55 PM	00:00:34		0	-	
aroup	Þ	123			5221	11/10/2015 3:19:05 PM	00:00:12		0	-	
Categories	D	122			5250	11/10/2015 3:13:11 PM	00:00:05		0	-	
My Filters	D	121			5221	11/10/2015 3:12:35 PM	00:00:04		0	-	
•	D	120			5250	11/10/2015 3:11:21 PM	00:00:09		0	-	
Tag Cloud	Þ	119			5221	11/10/2015 3:08:08 PM	00:00:18		0	-	

Calendar	Filte	er Previous	; Filter	Current Filter: Ti	me Recorde	d X					Settings)
November, 2015	*	Record ID	R First	Name Last Name	Voice Port	Time Recorded	Duration	Video	Evaluations Completed	QA Score		Ì
	D	134			5221	11/10/2015 3:48:57 PM	00:00:11		0	-		•
Su Mo Tu We Th Fr Sa	Þ	133			5250	11/10/2015 3:48:50 PM	00:00:10		0	-		
1 2 3 4 5 6 7		132			5250	11/10/2015 3:44:09 PM	00:00:09		0	-		
8 9 10 11 12 13 14 15 16 17 18 19 20 21	Þ	131			5250	11/10/2015 3:41:53 PM	00:00:54		0	-		
22 23 24 25 26 27 28	Þ	130			5250	11/10/2015 3:40:09 PM	00:00:11		0	-		
29 30	Þ	129			5221	11/10/2015 3:38:57 PM	00:00:08		0	-		
Agent	Þ	128			5221	11/10/2015 3:36:13 PM	00:00:38		0	-		
	Þ	127			5221	11/10/2015 3:35:08 PM	00:00:09		0	-		
CallCopy group	Þ	125			5221	11/10/2015 3:23:53 PM	00:00:09		0	-		
ACD Gate	Þ	126			5222	11/10/2015 3:23:18 PM	00:00:49		0	-		
Group	Þ	124			5221	11/10/2015 3:21:55 PM	00:00:34		0	-		
Group	Þ	123			5221	11/10/2015 3:19:05 PM	00:00:12		0	-		
Categories	Pages	: 1 2 3 4	>			25	· · · · ·	tems Pe	r Page		Go To Page: 1 of 4	
My Filters		Web Player 4 2 3 4 7 1 1 3 4 7 1 1 3 4 7 1 1 3 4 7 1 1 3 4 7 1 1 3 4 7 1 1 3 4 7 1 1 3 4 7 1 1 3 4 7 1 1 3 4 7 1 1 3 4 7 1 1 3 4 7 1 1 1 3 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
Tag Cloud	Layer Details										Ê	
l ag Cloud		* .		Type Info								
	D Pla	ayback Details										^
	_		1	. I = 1 F	110.0.0			AL 30 UK			ter den Minde statisten i Alle Minde andere ande	-
		0:05 / 0:0	9 👘) 🤄	• A	And Links	and the second	A SHE HALL	No. of Lot Have	1	الاغاطانيان حاجالات	In the line, and the second stand of the design of the second stands of the second stand stands of the second stand stands of the secon	

In the example below a recording number 132 is played back to the user.

8.5. Verify inContact Services

If these recordings are not present or cannot be played back the **CallCopy CTICore** service may not be running or may need to be restarted. The inContact Call Recording server can be logged into and checked to ensure that the **CallCopy CTICore** service is running.

There may be a number of **CallCopy CTICore** services running depending on the number of connections to the PBX that are in place.

Services (Local) CallCopy CTICore1003 4	Name 📩	Description	Status	Startup Type	Log On As
	🔍 ASP.NET State Service	Provides su		Manual	Network S
Stop the service	🔍 Background Intelligent Tran	Transfers fil	Running	Manual	Local Syste
<u>Restart</u> the service	🔍 Background Tasks Infrastru	Windows in	Running	Automatic	Local Syste
	🔍 Base Filtering Engine	The Base Fil	Running	Automatic	Local Service
Description:	🔍 CallCopy CTICore1 1	Handles mu	-	Automatic	Local Syste
landles mutliple CTI components,	🔍 CallCopy CTICore1002 3	Handles mu		Automatic	Local Syste
nd communication methdods.	🔍 CallCopy CTICore1003 4	Handles mu	Running	Automatic	Local Syste
	🔍 CallCopy CTICore2 2	Handles mu		Automatic	Local Syste
	🔍 CallCopy Logger	Common L	Running	Automatic	Local Syste
	🔍 cc_LiveInfoBroker	Allows com	Running	Automatic	Local Syste
	🔍 cc_Transcoder 1	Pulls and co	Running	Automatic	Local Syste
	🔍 CC_WebMediaServer_1 1	Manages th	Running	Automatic	Local Syste
	🔍 cc_webSocketServer 1	Allows con	Running	Automatic	Local Syste
	🔍 Certificate Propagation	Copies user	Running	Manual	Local Syste
	🔍 CNG Key Isolation	The CNG ke		Manual (Trig	Local Syste
	🔍 COM + Event System	Supports Sy	Running	Automatic	Local Service
	🔍 COM + System Application	Manages th		Manual	Local Syste
	🔍 Computer Browser	Maintains a		Disabled	Local Syste
	🔍 Credential Manager	Provides se	Running	Manual	Local Syste
	🔍 Cryptographic Services	Provides thr	Running	Automatic	Network S
	🔍 DCOM Server Process Laun	The DCOM	Running	Automatic	Local Syste
	🎑 Device Association Service	Enables pair		Manual (Trig	Local Syste
	🔍 Device Install Service	Enables a c		Manual (Trig	Local Syste
	🔍 Device Setup Manager	Enables the		Manual (Trig	Local Syste
	🔍 DHCP Client	Registers an	Running	Automatic	Local Service
	🔍 Diagnostic Policy Service	The Diagno	Running	Automatic (D	Local Service
	🔍 Diagnostic Service Host	The Diagno	-	Manual	Local Service
	🔍 Diagnostic System Host	The Diagno		Manual	Local Syste
	🌼 Diagnostics Tracking Service	The Diagno	Running	Automatic	Local Syste

9. Conclusion

These Application Notes describe the configuration steps required for inContact Call Recording from inContact to successfully interoperate with Avaya Aura® Communication Manager R7.0 using Avaya Aura® Application Enablement Services R7.0 to connect to using DMCC Single Step Conference to record calls. 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 inContact product documentation that are relevant to these Application Notes. Product documentation for Avaya products may be found at http://support.avaya.com.

- [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 7.0

Technical support can be obtained for inContact Call Recording from the website <u>http://www.uptivity.com/contact</u> or from the following.

Telephone

Toll-free: 888-922-5526 Direct/International: 614-340-3346 Fax: 614-340-4840 Support: 888-922-5526, option 2 **Email** support@uptivity.com

Appendix A

Open the application called **cc_interfaceBrowser.exe**, this should be located in **Program Files** \rightarrow **CallCopy** \rightarrow **Recorder** folder.

	c (C:) ▶ Program Files ▶ CallCopy ▶ Re	ecorder 🕨 🔻 😽	Search Recorder		
Organize 🔻 🛛 Include in	library 👻 Share with 👻 Burn	New folder			(
🛠 Favorites	Name	Date modified	Туре	Size	
E Desktop	🗊 cc_CTI_eOn.exe	12/08/2015 01:12	Application	1,102 KB	
Downloads	cc_cticore_deploy.xml	12/08/2015 17:36	XML Document	104 KB	
Recent Places	🗊 cc_DataServerService.exe	12/08/2015 01:11	Application	1,406 KB	
	🗊 cc_ExportServerService.exe	12/08/2015 01:12	Application	1,641 KB	
🔁 Libraries	cc_ftpclient_deploy.xml	12/08/2015 17:44	XML Document	10 KB	
Documents	cc_fusionScriptServer_deploy.xml	12/08/2015 17:43	XML Document	7 KB	
J Music	cc_insight_deploy.xml	12/08/2015 17:39	XML Document	6 KB	
Pictures	cc_InstallAssist.exe	12/08/2015 17:42	Application	13 KB	
Videos	cc_installAssist_deploy.xml	12/08/2015 17:42	XML Document	1 KB	
	🧐 cc_interfaceBrowser.exe	07/08/2008 16:00	Application	262 KB	
💻 Computer	cc_licenseStub_deploy.xml	12/08/2015 17:40	XML Document	1 KB	
Local Disk (C:)	📄 cc_LiveInfoBroker_deploy.xml	File description; cc inter File Version; 10:0:05	XML Document	5 KB	
DVD RW Drive (D:) G	cc_Logger.exe	Datie2/029/22011/028/200	8 1 6:00 lication	1,075 KB	
	📄 cc_logger_deploy.xml	Size 261 KB	XML Document	1 KB	
📬 Network	cc_loggerService.exe	12/08/2015 17:38	Application	1,045 KB	
	📄 cc_mediafx_deploy.xml	12/08/2015 17:41	XML Document	47 KB	
	cc_mediaServer.exe	12/08/2015 01:12	Application	654 KB	
	cc_nortelMLS.exe	12/08/2015 01:12	Application	3,923 KB	

Select the correct Network Interface which is used to capture the RTP from the data switch. The **Listening Interface** should then be populated and this is used for the setup of the inContact Call Recording server in **Section 7**.

	face Browser					
Select Interface						
Sniffer LAN (0.0.0.0)				•		
Info						
Listening Interface (NIC)	DE81B526-D59A	A-4F7D-BE8D-0C399F8	31662F			
IP Address	0.0.0.0					
Connection Name Sniffer LAN						
Connection Mame		IS client driver				
Description	Broadcom L2 ND	no client unver				

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Appendix B

Avaya one-X® Agent Softphone

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

display station 7011		F	age	1 of	5
		STATION			
Extension: 2100		Lock Messages? n		BCC:	
Type: 9630		Security Code: *		TN:	1
Port: S00031		Coverage Path 1:		COR:	1
Name: one-X Agent1		Coverage Path 2:		COS:	1
		Hunt-to Station:		Tests?	У
STATION OPTIONS					
Location:		Time of Day Lock Table	:		
Loss Group:	19	Personalized Ringing Pattern	: 1		
		Message Lamp Ext	: 701	1	
Speakerphone:	2-way	Mute Button Enabled	l?y		
Display Language:	english	Button Modules	: 0		
Survivable GK Node Name:	-				
Survivable COR:	internal	Media Complex Ext	:		
Survivable Trunk Dest?	V	IP SoftPhone	? v		
	-		-		
		IP Video Softphone	? n		
	Short/1	Prefixed Registration Allowed	l: def	ault	
		-			
		Customizable Labels	? Y		

ĺ	display station 7011		Page 2 of 5
		STATION	
	FEATURE OPTIONS		
	LWC Reception:	pe Auto Selec	t Any Idle Appearance? n
	LWC Activation?	C C	overage Msg Retrieval? y
	LWC Log External Calls?	L	Auto Answer: none
	CDR Privacy?	L	Data Restriction? n
	Redirect Notification?	Idle .	Appearance Preference? n
	Per Button Ring Control?	Bridged	Idle Line Preference? n
	Bridged Call Alerting?		trict Last Appearance? y
	Active Station Ringing:	ingle	
			EMU Login Allowed? n
	H.320 Conversion?		- Send Calling Number?
	Service Link Mode:	s-needed	EC500 State: enabled
	Multimedia Mode:	enhanced Au	dible Message Waiting? n
	MWI Served User Type:	Displ	ay Client Redirection? n
	AUDIX Name:	Select	Last Used Appearance? n
			rage After Forwarding? s
			ltimedia Early Answer? n
			IP-IP Audio Connections? y
	Emergency Location Ext:	011 Always Use? n	IP Audio Hairpinning? n
- 1			

display station 7011 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 7011 Page 4 of 5 STATION SITE DATA Room: Headset? n Jack: Speaker? n Cable: Mounting: d Floor: Cord Length: 0 Building: Set Color: ABBREVIATED DIALING List1: List2: List3: BUTTON ASSIGNMENTS 5: manual-in Grp: 6: after-call Grp: 7: aux-work RC: Grp: 8: 1: call-appr 2: call-appr 3: call-appr 4: auto-in Grp: 8: voice-mail

Avaya 9608 H.323 Deskphone

This is a printout of the Avaya 9608 H.323 deskphone used during compliance testing.

display station 7000	P	age 1 of	5
1 1	STATION	5	
Extension: 7000	Lock Messages? n	BCC:	0
Type: 9608	Security Code: *	TN:	1
Port: S00000	Coverage Path 1: 1	COR:	1
Name: Ext2000	Coverage Path 2:	COS:	1
	Hunt-to Station:	Tests?	У
STATION OPTIONS			
	Time of Day Lock Table:		
Loss Group: 19	Personalized Ringing Pattern:	1	
	Message Lamp Ext:	7000	
Speakerphone: 2-way	Mute Button Enabled?	, Х	
Display Language: englis	h Button Modules:	0	
Survivable GK Node Name:			
Survivable COR: interr	al Media Complex Ext:		
Survivable Trunk Dest? y	IP SoftPhone?	, Х	
	IP Video Softphone?		
Sh	ort/Prefixed Registration Allowed:	yes	
	Customizable Labels?	, Х	

ſ	display station 7000	Page 2 of 5				
	alopiay beacton (000	STATION				
	FEATURE OPTIONS	01111101				
	LWC Reception: spe	Auto Select Any Idle Appearance? n				
	LWC Activation? y	Coverage Msg Retrieval? y				
	LWC Log External Calls? n	Auto Answer: none				
	CDR Privacy? n	CDR Privacy? n Data Restriction? n				
	Redirect Notification? y Idle Appearance Preference? n					
Per Button Ring Control? n Bridged Idle Line Preference? n						
	Bridged Call Alerting? n	Restrict Last Appearance? y				
	Active Station Ringing: single					
		EMU Login Allowed? n				
	H.320 Conversion? n	Per Station CPN - Send Calling Number?				
	Service Link Mode: as-nee	ded EC500 State: enabled				
Multimedia Mode: enhanced		ed Audible Message Waiting? n				
MWI Served User Type: sip-adjunct		junct Display Client Redirection? n				
	Select Last Used Appearance? n					
	Coverage After Forwarding? s					
	Multimedia Early Answer? n					
		s: as-on-local Direct IP-IP Audio Connections? y				
	Emergency Location Ext: 7000	Always Use? n IP Audio Hairpinning? n				

display station 700	00	Page	3 of	5			
	STATION						
Conf/Trans on Primary Appearance? n							
Bridged Appearance Origination Restriction? n Offline Call Logging? y							
Require Mutual Authentication if TLS? n							
Call American Display Demote dian assume default							
Call Appearance Display Format: disp-param-default							
	IP Phone Group ID:						
Ennanced Calir-Inio	D Display for 1-Line Phones? n						
ENHANCED CALL FORWARDING							
Forwarded Destination Active							
Unconditional For	Internal Calls To:	л	n				
Uncondicional FOI	External Calls To:		n				
Pucu For	Internal Calls To:		n				
Busy For	External Calls To:						
No Doply For			n				
NO REPLY FOL	Internal Calls To:		n				
	External Calls To:		n				
SAC/CE	Override. n						
SAC/CF	Override. II						
SAC/CF	Override: n						

display station 7000			Deere	1	5
display station 7000			Page	4 of	5
	STA				
SITE DATA					
Room:		Headset?	n		
Jack:		Speaker?	n		
Cable:		Mounting:			
Floor:		Cord Length:			
Building:		Set Color:	-		
Durraring.		5ec coloi.			
ABBREVIATED DIALING					
List1:	List2:	List3:			
LISCI.	11362.	11565.			
BUTTON ASSIGNMENTS					
1: call-appr		5: call-park			
2: call-appr		6:			
3: call-appr		7:			
4: extnd-call		8:			
4: exthu-call		0:			
voice-mail					

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