

Avaya Solution & Interoperability Test Lab

Application Notes for Presence Technology Presence Recording R11.0 with Avaya Aura® Communication Manager R7.1 and Avaya Aura® Application Enablement Services R7.1 - Issue 1.0

Abstract

These Application Notes describe the configuration steps for Presence Technology Presence Recording to successfully interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services. Presence Technology Presence Recording is part of the Presence Technology Presence Suite, a multi-channel contact management suite which handles voice, text chat, email and web contact mechanisms. Presence Technology Presence Recording integrates with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services using single step conferencing implemented via DMCC over TSAPI.

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 compliance tested configuration using Presence Technology Presence Recording R11.0 with Avaya Aura® Communication Manager R7.1 and Avaya Aura® Application Enablement Services R7.1.

Presence Technology Presence Recording is a component of Presence Technology Presence Suite, a multi-channel contact management suite able to handle voice, e-mail and web chat contact mechanisms. Presence Technology Presence Recording uses Avaya Aura® Communication Manager's Single Step Conferencing (SSC) feature via the Device, Media and Call Control (DMCC) service provided by Avaya Aura® Application Enablement Services to capture the audio and call details for recording agent calls. Presence Technology Presence Recording uses the Avaya Aura® Application Enablement Services DMCC service to register a pool of virtual IP softphones that are used as "recorders". Target agents, whose calls are to be recorded, are configured in the Presence Technology Presence Recording administration tool. When a target agent places or receives a call, SSC is used to conference in a "recorder" to capture the audio stream and call details.

2. General Test Approach and Test Results

The interoperability compliance testing evaluated the ability of Presence Recording to carry out call recording in a variety of scenarios using DMCC with AES and Communication Manager.

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.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in this DevConnect Application Note included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Notes, the interface between Avaya systems and Presence Recording did not include use of any specific encryption features as requested by Presence Technology.

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 ACD Calls
- Call Hold/Transfer/Conference
- Outbound Calls
- Inbound Calls (Recording on Demand)
- Outbound Calls (Recording on Demand)
- Serviceability Testing

The serviceability testing focused on verifying the ability of Presence Recording to recover from disconnection and reconnection to the Avaya solution.

2.2. Test Results

All functionality and serviceability test cases were completed successfully.

2.3. Support

Technical support can be obtained for Presence Technology Presence Suite as follows:

Email: support@presenceco.com
 Website: www.presenceco.com
 +34 93 10 10 300

3. Reference Configuration

Figure 1 shows the network topology during interoperability testing. Communication Manager with an Avaya G430 Media Gateway was used as the hosting PBX. Presence Suite with the Presence Recording component and Presence Agent PC's are connected to the LAN and recording is performed using the Single Step Conference feature of Communication Manager using DMCC provided by AES.

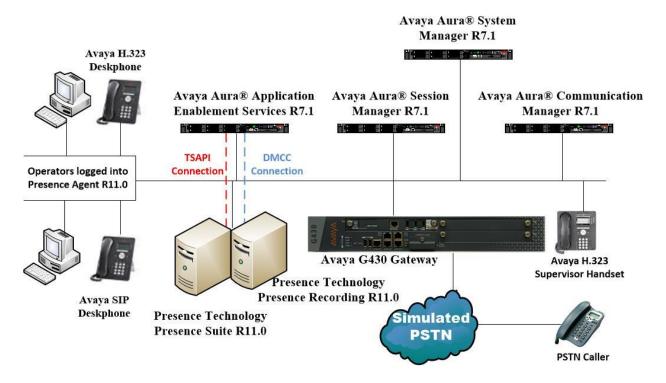


Figure 1: Avaya Aura® Communication Manager R7.1 and Avaya Aura® Application Enablement Services R7.1 with Presence Technology Presence Suite Server with Presence Recording R11.0 configuration

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 7.1.1.0 Build No 7.1.0.0.1125193 Software Update Revision No: 7.1.1.0.046931 Feature Pack 1 Service Pack 1
Avaya Aura® Session Manager running on a virtual server	Session Manager R7.1 SP1 Build No. – 7.1.1.0.711008
Avaya Aura® Communication Manager running on virtual server	R017x.01.0.532.0 R7.1.1.0.0 - FP1 Update ID 01.0.532.0-23985
Avaya Aura® Application Enablement Services	R7.1
Avaya Aura® Media Server running on virtual server	R7.8
Avaya G430 Gateway	37.42.0 /1
Avaya 96x1 H323 Deskphone	96x1 H323 Release 6.6401
Avaya 96x1 SIP Deskphone	96x1 SIP Release 7.1.0.1.1
Presence Technology Presence Suite running on Windows Server 2016	R11.0
Presence Technology Presence Recording running on Windows Server 2016	R11.0
Presence Technology Presence Client running on Windows 7 SP1	R11.0

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). Please note that this is the setup required to add the Presence Recording only the setup of the other possible Presence Suite is outside the scope of these Application Notes but can be found in the Application Notes titled *Application Notes for Configuring Presence Technology Presence Suite R11.0 with Avaya Aura® Communication Manager R7.1 and Avaya Aura® Application Enablement Services R7.1.*

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** and **Answer Supervision by Call Classifier?** is set to **y** as shown below.

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

5.2. Note 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 (**AES71vmpg**).

display node-na	mes ip	
		IP NODE NAMES
Name	IP Address	
AES71vmpg	10.10.40.43	
AMS71vmpg	10.10.40.49	
GW71vmpg	10.10.40.15	
SM70vmpg	10.10.40.12	
SM71vmpg	10.10.40.52	
default	0.0.0.0	
procr	10.10.40.47	
procr6	::	

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-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 **AES71vmpg**.
- **Password:** Enter a password to be administered on the AES server.
- Enabled: Set to y.

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

change ip-se		Page	4 of	4		
	Al					
Server ID	AE Services Server	Password	Enabled	Status		
1: 2: 3:	AES71vmpg	*****	У	idle		

5.4. Configure CTI Link for TSAPI Service

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

add cti-li	nk 1		Page	1 of	3
		CTI LINK			
CTI Link:	1				
Extension:	4499				
Type:	ADJ-IP				
				COR:	1
Name:	AES71vmpg				

5.5. Configure Recorder/Playback Pool Stations

Presence Recording uses the Single Step Conferencing method to conference "recorders" with the agent calls in order to capture the call audio. Use the command, **add station** to configure a station for each of the recording pool stations. On **Page 1** enter a descriptive **Name** and **Security Code**, set the **Port** to **IP**, set the **Type** to **4624** and set **IP SoftPhone** to **y**. Repeat according to the maximum number of call to be recorded simultaneously. These extensions can also be configured on Presence Recording for the playback of recordings. Configure sufficient stations to accommodate for the maximum number of simultaneous recording playback channels required.

add station	n 8270400		Pag	e 1	of	6
			STATION			
Extension:	8270400		Lock Messages? n		BCC:	0
Type:	4624		Security Code: 1234		TN:	1
Port:	IP		Coverage Path 1:		COR:	1
Name:	Presenceco Reco	order 1	Coverage Path 2:		cos:	1
			Hunt-to Station:			
STATION OP	TIONS					
			Time of Day Lock Table:			
	Loss Group:	19	Personalized Ringing Pattern:	1		
	•		Message Lamp Ext:	1591		
	Speakerphone:	2-wav	Mute Button Enabled?	V		
Dis	splay Language:	english		-		
	e GK Node Name:	3				
	Survivable COR:	internal	Media Complex Ext:			
	ole Trunk Dest?		IP SoftPhone?	v		
2411143	010 1141111 0000.	1	II bolomone.	2		
			IP Video Softphone?	n		

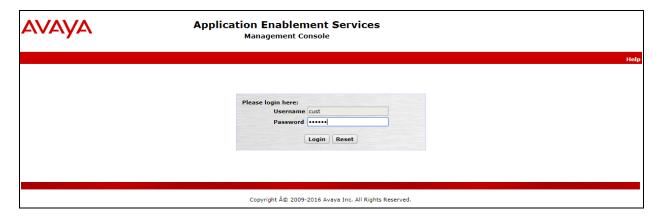
6. Configure Avaya Aura® Application Enablement Services

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

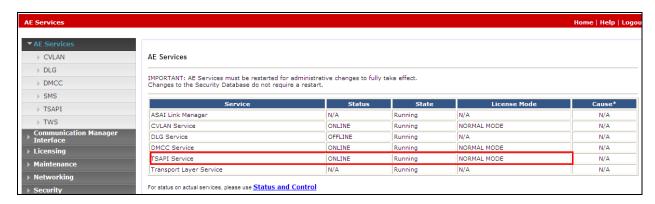
- Verify Licensing
- Create Switch Connection
- Administer TSAPI link
- Create CTI User
- Enable CTI Link User
- Identify Tlinks
- Enable DMCC Ports

6.1. Verify Licensing

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

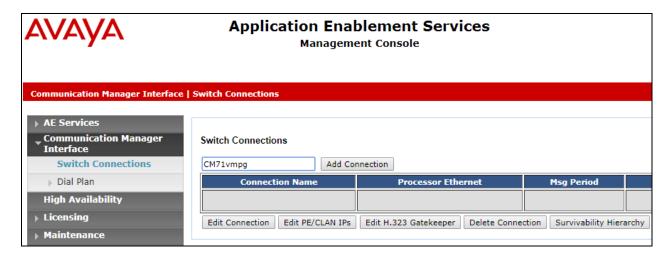


The Application Enablement Services Management Console appears displaying the **Welcome to OAM** screen (not shown). Select **AE Services** and verify that the TSAPI Service is licensed by ensuring that **TSAPI Service** is in the list of services and that the **License Mode** is showing **NORMAL MODE**.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

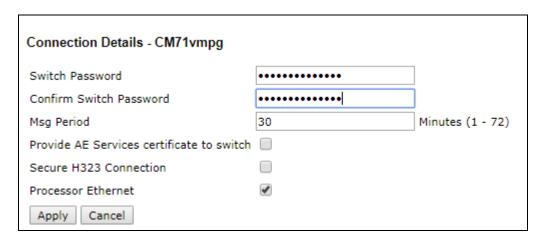


6.2. Create Switch Connection

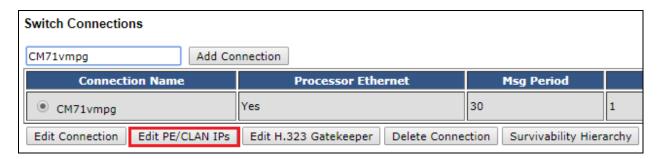
From the AES Management Console navigate to **Communication Manager Interface Switch Connections** to set up a switch connection. Enter in a name for the Switch Connection to be added and click the **Add Connection** button.



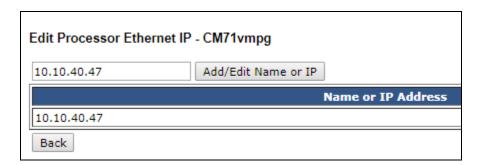
In the resulting screen enter the **Switch Password**, the Switch Password must be the same as that entered into Communication Manager AE Services Administration screen via the **change ipservices** command, described in **Section 5.3**. Default values may be accepted for the remaining fields. Click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



From the **Switch Connections** screen, select the radio button for the recently added switch connection and select the **Edit CLAN IPs** button (not shown).

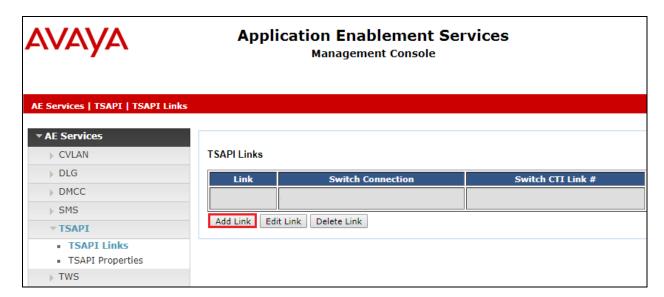


In the resulting screen, enter the IP address of the **procr** as shown in **Section 5.2** that will be used for the AES connection and select the **Add Name or IP** button.



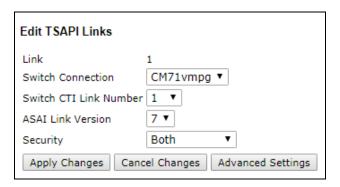
6.3. Administer TSAPI link

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

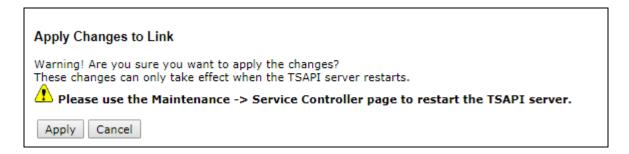


On the **Add TSAPI Links** screen, enter the following values:

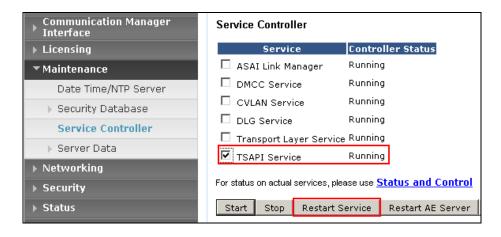
- Link: Use the drop-down list to select an unused link number.
- **Switch Connection:** Choose the switch connection **CM71vmpg**, which has already been configured in **Section 6.2**, from the drop-down list.
- Switch CTI Link Number: Corresponding CTI link number configured in Section 5.3.
- **ASAI Link Version:** This can be left at the default value of 7.
- **Security:** This can be left at the default value. The value **both** was used in this test.
- Once completed, select **Apply Changes**.



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



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



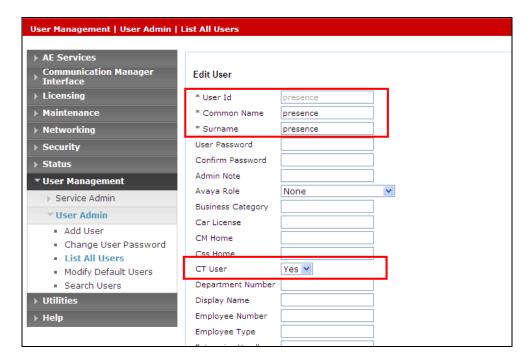
6.4. Create Avaya CTI User

A User ID and password needs to be configured for the Presence Suite server to communicate as a TSAPI client with the Application Enablement Services server. Navigate to the **User**Management

User Admin screen then choose the Add User option (not shown). In the Add User screen shown below, enter the following values:

- User Id This will be used by the Presence Suite Server in Section 7.1.
- Common Name and Surname Descriptive names need to be entered.
- User Password and Confirm Password This will be used with the User Id in Section 7.1.
- **CT User -** Select **Yes** from the drop-down menu.

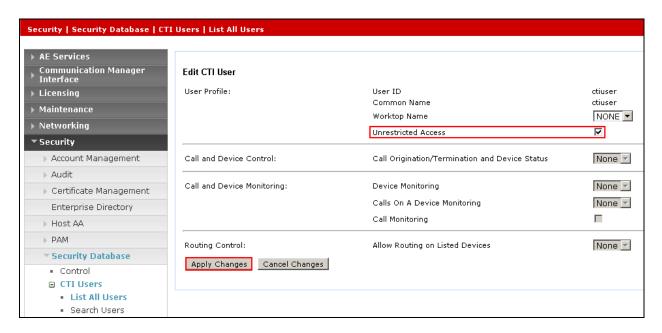
Complete the process by choosing **Apply** at the bottom of the screen (not shown).



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

6.5. Enable Unrestricted Access for CTI User

Navigate to the **CTI Users** screen by selecting **Security** → **Security Database** → **CTI Users** → **List All Users**. Select the user that was created in **Section 6.4** and select the **Edit** option (not shown). The **Edit CTI User** screen appears. Check the **Unrestricted Access** box and **Apply Changes** at the bottom of the screen.



A screen (not shown) appears to confirm applied changes to CTI User, choose **Apply**. This CTI user should now be enabled.

6.6. Identify Tlinks

Navigate to **Security** → **Security Database** → **Tlinks**. Verify the value of the **Tlink Name**. This will be needed to configure Presence Suite in **Section 7.1**.

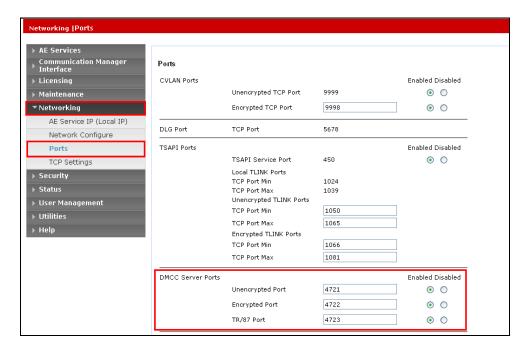


6.7. Enable DMCC ports

In order to enable DMCC for call recording navigate to **Networking→Ports→DMCC Server Ports**.

- Enable DMCC **Unencrypted Port**
- Enable DMCC Encrypted Port
- Enable DMCC TR/87 Port

Click on **Apply Changes** at the bottom of the screen (not shown).



Once this change is made a restart of the AE Server is required. Navigate to **Maintenance** > **Service Controller**. In the main screen select **Restart AE Server** highlighted.



7. Configure Presence Recording

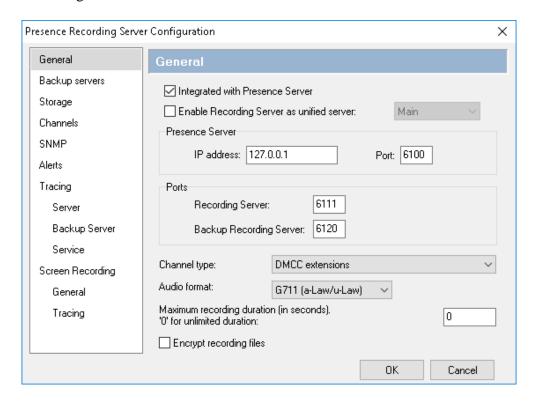
The Presence Recording can be an additional component of Presence Suite but may also be installed as a stand-alone product. These Application Notes will show the configuration for both instances in both cases the Presence Recording Server must be configured to connect with AES.

The Presence Suite includes the Presence Server, Presence Mail Interactions Server, Presence Web Interactions Server, Presence Administrator, Presence Web Supervisor, and Presence Agent. The Presence server was configured and provided by Presence Technology. The setup of Presence Server is outside the scope of these Application Notes but can be found in the Application Notes titled Application Notes for Configuring Presence Technology Presence Suite R11.0 with Avaya Aura® Communication Manager R7.1 and Avaya Aura® Application Enablement Services R7.1.

7.1. Configure Telephony, Storage and CTI Parameters

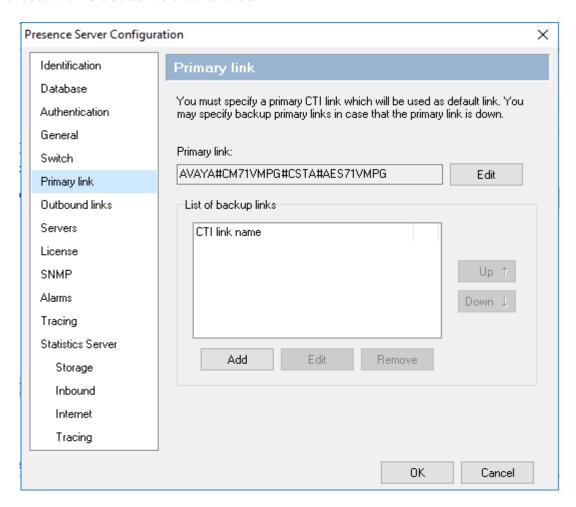
From the Presence server, navigate to C:\Presence\ and double click on precservercfg.exe (not shown), the screen below will appear. In the Ports section, configure a Recording Server port; enter the IP address of the Presence Server and the port used for connection. Tick the Integrated with Presence Server box if the Presence server has been installed and select DMCC extensions from the Channel type drop-down box.

Note: If the Presence Sever is a part of the installation the Integrated with Presence Server box is ticked and thus the CTI connection already in place for the Presence Server is used by the Presence Recording.

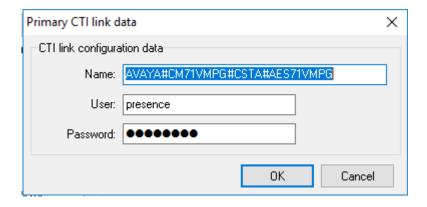


7.1.1. Configure the CTI Connection

If the CTI connection is not in place select the **Primary link** menu on the left side of the screen and choose the **Edit** button to enter a value.

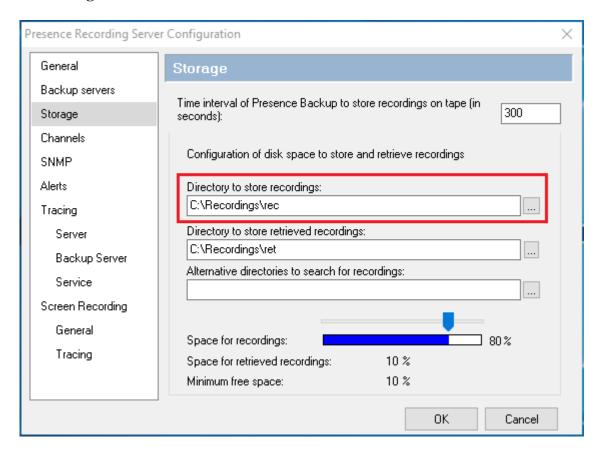


In the resulting pop-up box enter the Tlink name from **Section 6.6** in the **Name** field. For the **User** and **Password** fields enter the user name and password configured on the Application Enablement Services in **Section 6.4**. Click **OK**.



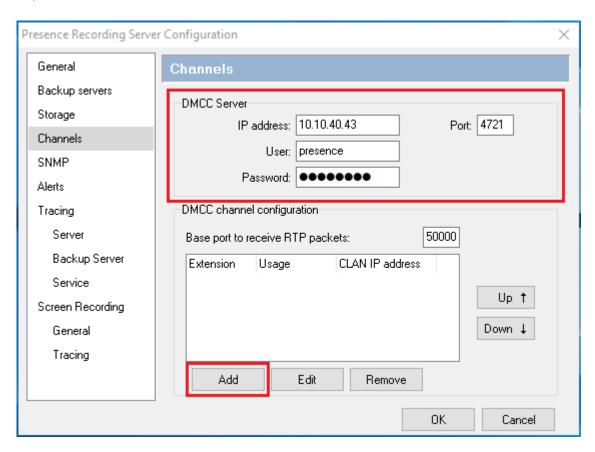
7.1.2. Configure Storage

Click on **Storage** in the left-hand pane and enter an appropriate directory in the **Director to store recordings** field.

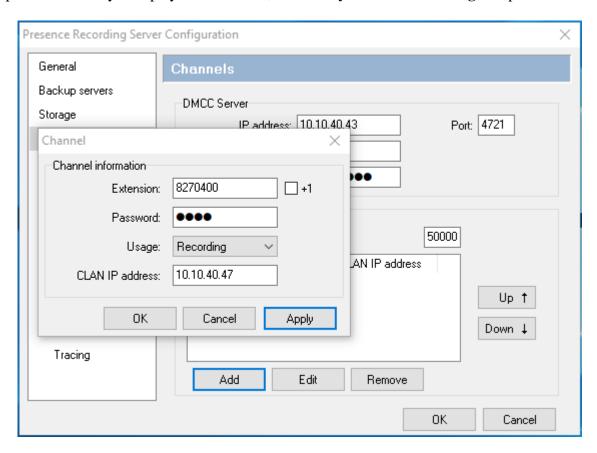


7.1.3. Configure Telephony

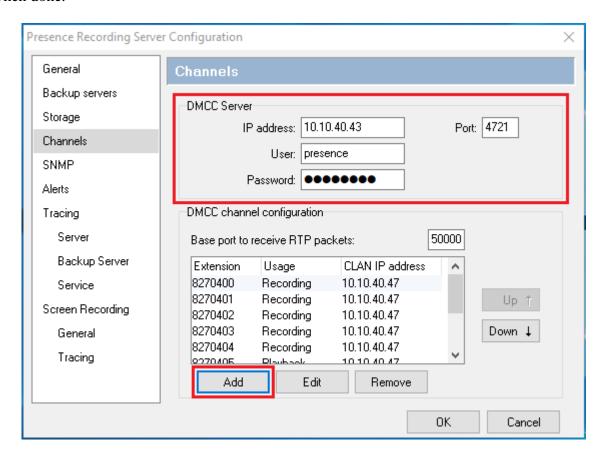
Click on **Channels** in the left-hand pane. In the **DMCC Server** section, enter the IP address of the AES server and the AES user configured for the Presence Suite installation, enter the port configured for connectivity to AES (the default is **4721**). In the **DMCC channel configuration** section, click **Add**.



Enter a valid recording channel **Extension** and **Password** as configured in **Section 5.1**. Enter the **CLAN IP address** and select **Recording** from the **Usage** drop-down box. Click **OK** when done. Repeat as necessary. For playback channels, select **Playback** from the **Usage** drop-down box.

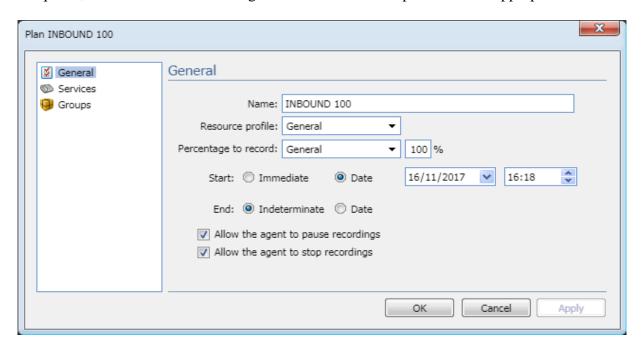


The screen shown below will appear, displaying all recording and playback channels, click **OK** when done.

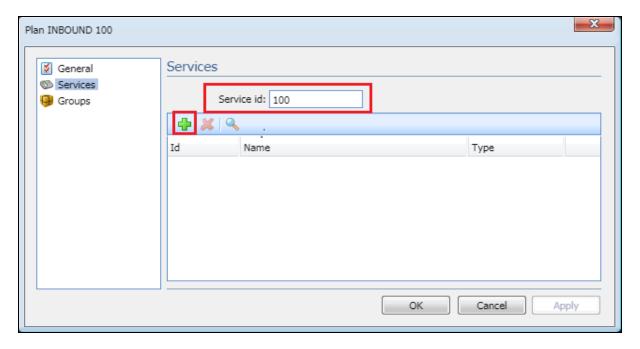


7.2. Configure Recording Plan

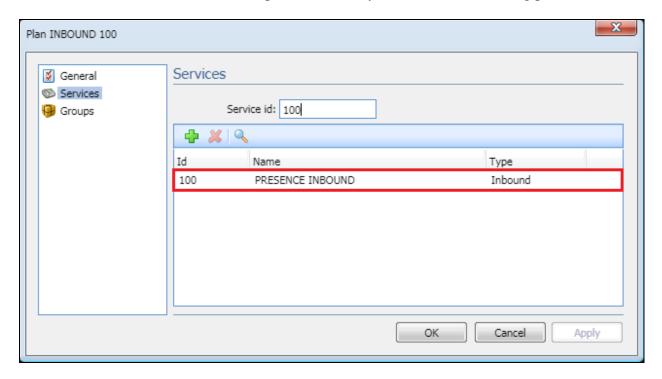
Recording plans must be configured according to the call recordings required. Using the Presence Web Supervisor, click on **Administration** \rightarrow **Recording** \rightarrow **Plans** \rightarrow **New** (not shown). In the displayed window, assign an identifying **Name** and set the **Percentage to record** as required, in this case **100%**. Configure the **Start** and **End** parameters as appropriate.



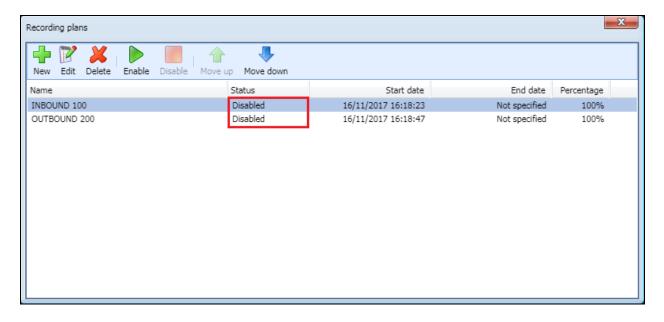
Click on **Services** in the left-hand pane, enter the inbound service identifier in the **Service ID** box and click the plus icon.



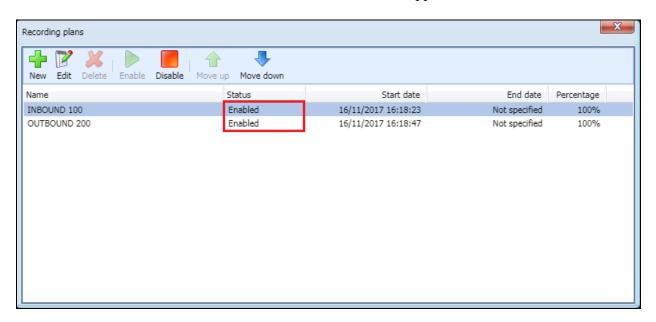
This will add the relevant configured service to the recording plan, in this case **PRESENCE INBOUND**. Click **OK** when done. Repeat as necessary for additional recording plans.



The screen below will be displayed, summarizing the added recording plans. Note that the status shows **Disabled**.



Select each one in turn and click **Enable**, the status will now appear as **Enabled**.

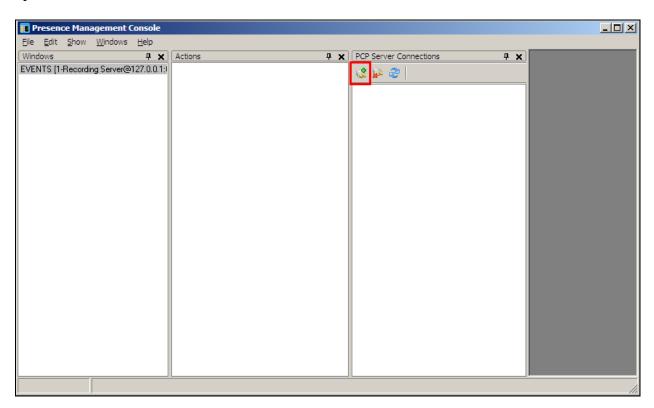


Calls that are placed via either of these services will be recorded according to the recording plan configured above.

7.3. Add Avaya Aura® Communication Manager Stations to be Recorded

If the **Integrated with Presence Server** box is not ticked in **Section 7.1** then each station that is to be recorded must be added. In the example below extensions 8270001 and 8270002 are added to be recorded by Presence Recording.

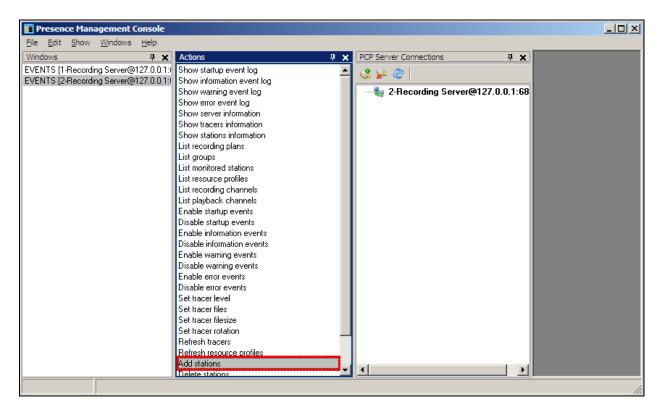
From the Presence folder, double-click on **pmconsole.exe** (not shown). The following window is opened, click on the connect icon as shown below.



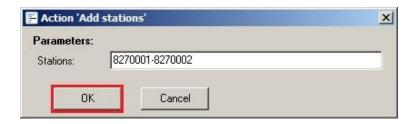
Select Recording Server from the drop down box **PCP Server Type**, ensure that the **Host** is set to the localhost **127.0.0.1** and the **Port** is set to **6805**.



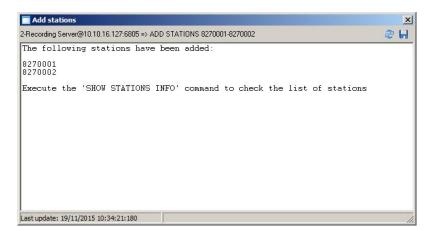
From the middle window, select **Add Stations**.



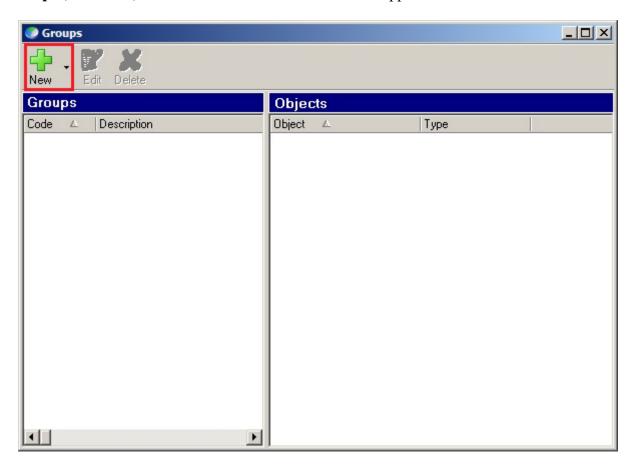
Enter the stations to be recorded and click **OK** when finished.



The following screen appears showing the stations are added.



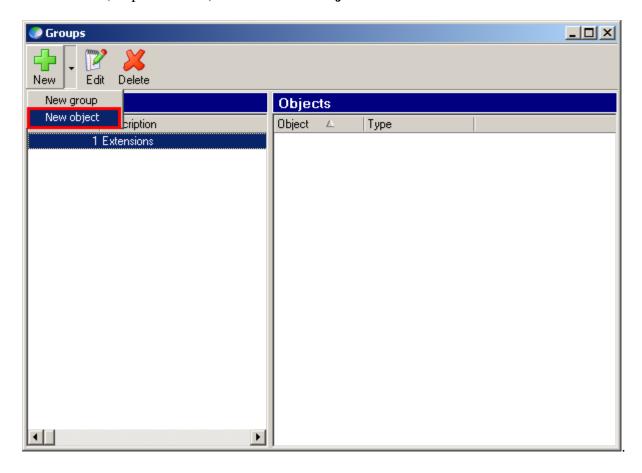
Open the Presence Recording Supervisor (precsup.exe) (not shown). Navigate to **Recordings > Groups** (not shown) and click on **New** in the window that appears.



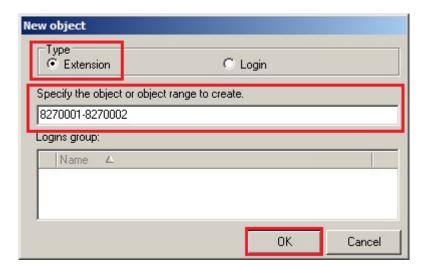
Enter the details for the new group. Note any number is used for code. Click on \mathbf{OK} when finished.



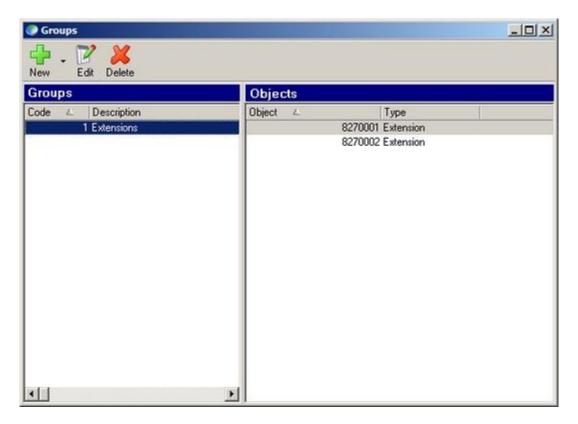
Click on New (drop-down box) and select New object.



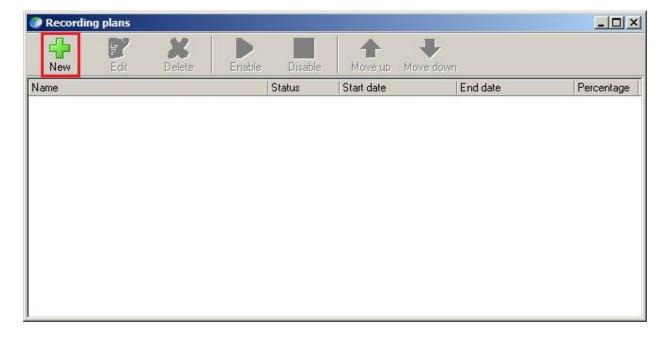
Select Extension as the Type and the extensions to be added. Click on OK once done.



Once OK is clicked above, the following screen shows the added stations.



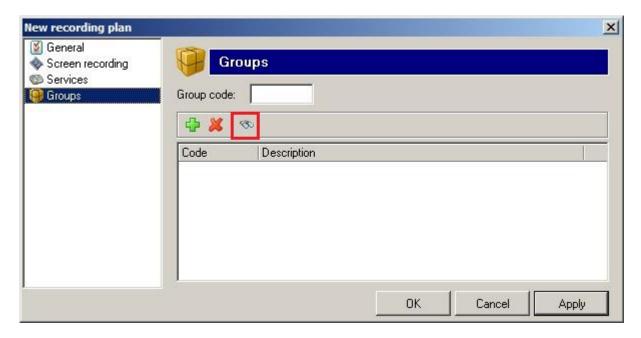
Navigate to **Recordings** → **plans** (not shown) and click on **New** in the window that appears.



Enter a Name, the Resource profile is pre-selected, Percentage to record is set to 100%. Start and End is set to Immediately and Indeterminate respectively. Click on OK once done.



On the **Groups** window click on the Search icon on the right and select the group code to be recorded. Select the group created above (not shown) and click **OK**.



8. Verification Steps

This section provides the tests that can be performed to verify correct configuration of the Avaya and Presence Technology solution.

8.1. Verify Avaya Aura® Communication Manager CTI Service State

The following steps can validate that the communication between Communication Manager and AES is functioning correctly. Check the AESVCS link status with AES 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	7	no	AES71vmpg	established	18	18	

8.2. Verify TSAPI Link and DMCC

The following steps can be taken to ensure that the TSAPI and DMCC links are up and working properly with Presence Recording.

Note: The following screens serve as an example of what the connection should show. The IP addresses may be different depending on the site.

8.2.1. Verify TSAPI Link

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



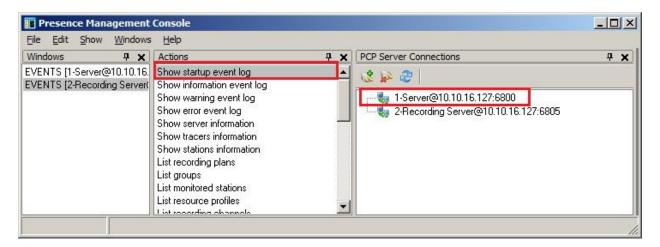
8.2.2. Verify Avaya Aura® Application Enablement Services DMCC Service

The following steps are carried out on AES to validate that the communication link between AES and the Presence Recording server is functioning correctly. Verify the status of the DMCC service by selecting Status → Status and Control → DMCC Service Summary. The DMCC Service Summary − Session Summary screen is displayed as shown below. It shows a connection to the Presence Recording server, IP address 10.10.16.127. The Application is shown as precserver.exe, and the Far-end Identifier is given as the IP address 10.10.16.127 as expected. The User is shown as the user created for the CTI user for Presence Server, in this case Presenceco.



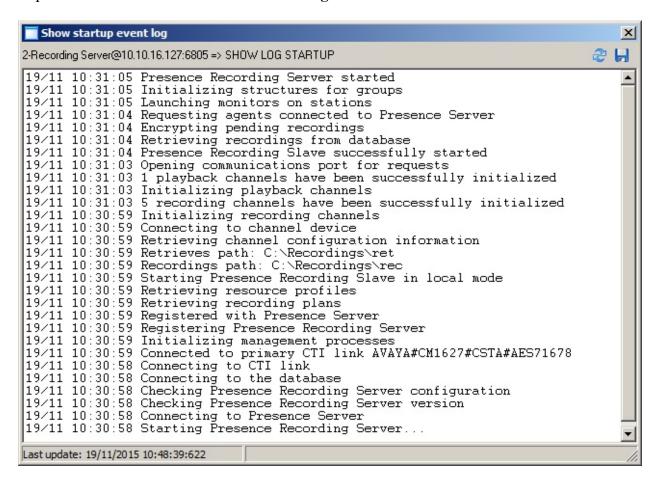
8.3. Verify Presence Suite CTI Connection

One of the available methods to confirm correct startup is a startup log which can be accessed from Presence Management Console. Navigate to C: Presence pmconsole.exe (not shown). A startup log commences when the Presence Server is trying to load and connect to AES. Click on the item named Server@127.0.0.1:6800 in the PCP Server Connections pane of the Management Console. To open the startup event log, double click Show startup event log in the Actions pane.



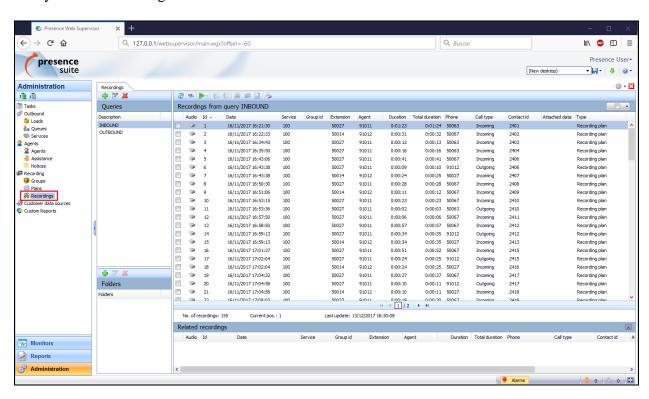
Verify successful CTI connection and service startup.

Repeat the above for the item named **Recording Server@127.0.0.1:6805.**

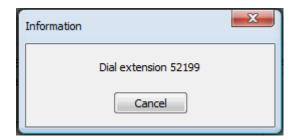


8.4. Verify Presence Recording Capture and Playback

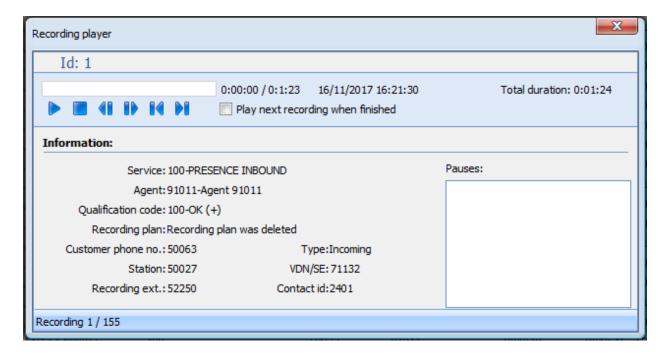
Using Presence Web Supervisor, click **Administration** → **Recording** → **Recordings**, visually verify correct recording detail as shown below.



Double click on the recording to be played; the pop up shown below will be displayed with the prompt to dial a playback extension.



Dial the number shown and manually confirm accurate, clear and audible call recording playback. The screen below will be displayed allowing playback control.



9. Conclusion

These Application Notes describe the configuration steps required for Presence Technology Presence Recording R11.0 to successfully interoperate with Avaya Aura® Communication Manager R7.1 using Avaya Aura® Application Enablement Services R7.1. All feature functionality and serviceability test cases were completed successfully as outlined in **Section 2.2**.

10. Additional References

This section references the Avaya and Presence Suite 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 7.1

The following documentation is available on request from Presence: www.presenceco.com

- [4] ACD Sys Presence Administrator Manual Presence Suite, V11.0
- [5] Presence Installation Guides Presence Software, V11.0
- [6] PBX/ACD Requirements Presence Software, V11.0

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