

# Avaya Solution & Interoperability Test Lab

# Application Notes for configuring Aperio from Fiserv with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Application Enablement Services R6.3 - Issue 1.0

#### **Abstract**

These Application Notes describe the configuration steps for Aperio from Firserv to interoperate with Avaya Aura® Communication Manager R6.3 and Avaya Aura® Application Enablement Services R6.3. Aperio utilizes the Device Media Call Control on Avaya Aura® Application Enablement Services to allow 3<sup>rd</sup> party call control.

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 to integrate Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services with Aperio.

Aperio consists of a backend Application Server and an agent client. It is a solution for agent desktops in an Avaya call center environment focused on voice

Aperio database contains customer and third party agency information which is available to Aperio clients. The Aperio client allows Computer Telephony Integration to Avaya telephones via Avaya Aura® Application Enablement Services using Device Media Call Control (DMCC). The client can access stored information from the Aperio database using recognised phone numbers.

# 2. General Test Approach and Test Results

The general test approach was to configure the Aperio client to communicate with Communication Manager via the Application Enablement Services (Avaya AES). Two Aperio clients were configured. Two Agents and two skills were created on Communication Manager. See **Figure 1** for a network diagram. The interoperability compliance test included both feature functionality and serviceability tests focusing on validating successful handling of inbound skillset/VDN calls using Aperio Client. This was performed by calling inbound to a VDN and/or outbound using Aperio Client to answer and make calls.

Aperio has a Client/Server relationship and Aperio server was installed on a Windows 7 laptop running an MS SQL 2008 R2 database. Connect client software is installed on each client PC utilised by an agent. The Aperio database contains the IP address of the AES and the Aperio software references this when connecting to AES ensuring that each agent PC will get its connection information to AES from a single source i.e., the database on the Aperio server.

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 receiving calls in different call scenarios. The tests included:

- Aperio client controlling 9630 IP Deskphone.
- Aperio client controlling 9611G IP Deskphone.
- Agent logs on/off of the Avaya desk phones.
- Internal/External calls to Aperio client.
- Agent Transfer and conference from Aperio client.
- Hold initiated by Aperio client
- Calls to Aperio client from customers with/without case files.
- Failover/Service Tests the behaviour of Aperio Client during certain failed conditions.

#### 2.2. Test Results

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

- 1. Aperio does not support making agent state changes on the handset controlled by the Aperio Client. The Ready/Not Ready events are not sent via Avaya AES to Aperio
- 2. Direct Agent calls cannot be made to the client when Aperio has the agent in an Unavailable state
- 3. Aperio does not return an Agent to ready state even if the AUTO-IN feature is used. Agent must be manually made available from the client. It is recommended that MANUAL-IN is used on Communication Manager stations.
- 4. Aperio does not have the ability to detect that an unanswered call has been terminated meaning a call answer pop up remains on screen. There is no adverse effect on the functionality when this is closed.
- 5. Aperio only supports conferencing to existing agents administered on the system via a drop down menu and there is no functionality to manually enter a number to add to the conference.

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# 4. Reference Configuration

The configuration shown in **Figure 1** was used during the compliance test of Aperio with Avaya AES and Communication Manager. Aperio utilises a DMCC connection through Avaya AES to gain call control of the Avaya Aura® Communication Manager agent sets.

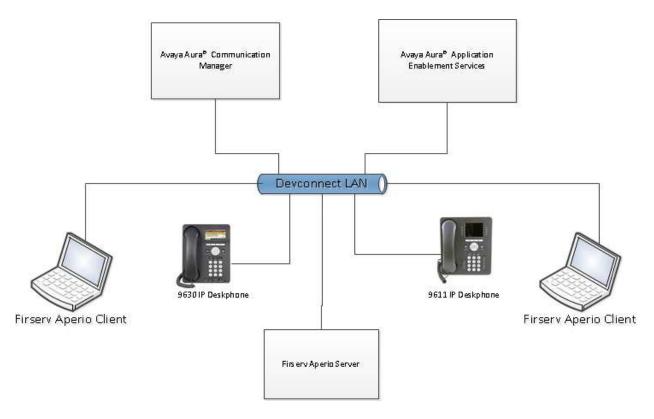


Figure 1: Connection of Firserv Aperio with Avaya Aura® Application Enablement Services R6.3, Avaya Aura® Communication Manager R6.3

# 5. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® Communication Manager running on a virtual server	R6.3 SP11 R016x.03.0.124.0 - 22361
Avaya Aura® Application Enablement Services running on a virtual server	R6.3 SP4 Build No – 6.3.3.4.10-0
Avaya G450 Gateway	36.14.0
Avaya 9611G IP Deskphone	96x1 H323 Release 6.6.029
Avaya 9630 IP Deskphone	96xx H323 Release 3.2
Aperio for Agiliti	PSO_Release 2.1 20150910

# 6. 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).

# 6.1. Configure the Avaya Aura® Communication Manager Connection to Avaya Aura® Application Enablement Services

The connection between Communication Manager and Avaya AES is assumed to be already in place however the steps required to set this connection are listed in the sections below.

#### 6.1.1. 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
                                                                    3 of 11
                                                             Page
                              OPTIONAL FEATURES
   Abbreviated Dialing Enhanced List? y Audible Message Waiting? y
                                                Authorization Codes? y
      Access Security Gateway (ASG)? n
       Analog Trunk Incoming Call ID? y
                                                             CAS Branch? n
A/D Grp/Sys List Dialing Start at 01? y
                                                               CAS Main? n
Answer Supervision by Call Classifier? y
                                                      Change COR by FAC? n
                                ARS? y Computer Telephony Adjunct Links? y
                ARS/AAR Partitioning? y Cvg Of Calls Redirected Off-net? y
         ARS/AAR Dialing without FAC? y
                                                            DCS (Basic)? y
         ASAI Link Core Capabilities? n
                                                      DCS Call Coverage? y
         ASAI Link Plus Capabilities? n
                                                     DCS with Rerouting? y
      Async. Transfer Mode (ATM) PNC? n
 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
```

# 6.1.2. 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 Avaya AES (**aes63vmpg**).

display node-nar	mes ip		Pa	age	1 of	2
		IP NODE NAMES				
Name	IP Address					
SM100	10.10.40.34					
aes63vmpg	10.10.40.30					
default	0.0.0.0					
g430	10.10.40.15					
procr	10.10.40.31					

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

To administer the transport link to Avaya 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 5.1.2
- Local Port: Retain the default value of 8765.

change ip-services Page							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 Avaya AES server, in this case **aes63vmpg**.
- **Password:** Enter a password to be administered on the Avaya AES server.
- Enabled: Set to y.

**Note:** The password entered for **Password** field must match the password on the Avaya AES server in **Section 6.2**. The **AE Services Server** should match the administered name for the Avaya 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	ices AE	Page	<b>4</b> of	4		
	110					
Server ID	AE Services Server	Password	Enabled	Status		
1: 2: 3:	aes63vmpg	*****	У	idle		

#### 6.1.4. Configure CTI Link for TSAPI Service

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

add cti-link 1

CTI LINK

CTI Link: 1

Extension: 2002

Type: ADJ-IP

COR: 1

Name: aes63vmpg

# 6.2. Configure routing on Avaya Aura® Communication Manager

This section shows the steps required to add a new service or skill on Communication Manager. Services are accessed by calling a Vector Directory Number (VDN) which points to a hunt group associated with an agent. These VDN's are also configured on Aperio, for example, "Sales" or "Support". The following sections give step by step instructions on how to add or configure the following:

- Variable.
- VDN.
- Vector.
- Hunt Group.
- Agent.

This same procedure is required for every VDN and Agent that is to be added on Aperio, the following sections will show the required steps to add one agent 4404 and the necessary routing for VDN 2901.

#### 6.2.1. Add VDN

To add a VDN, type **add vdn x**, where x is your VDN number. Enter a suitable name for example the **VDN 2901** below will be used exclusively for calls to support.

```
add vdn 2901
                                                             Page 1 of
                                                                          3
                            VECTOR DIRECTORY NUMBER
                             Extension: 2901
                                Name*: Support Voice
                           Destination: Vector Number
                                                             2901
                   Attendant Vectoring? n
                  Meet-me Conferencing? n
                   Allow VDN Override? n
                                   COR: 1
                                   TN*: 1
                              Measured: both
        Acceptable Service Level (sec): 20
        VDN of Origin Annc. Extension*:
                            1st Skill*:
                            2nd Skill*:
                            3rd Skill*:
* Follows VDN Override Rules
```

#### 6.2.2. Add Vector

Use **change vector x** where x is the vector number to edit the vector entered in **Section 6.2.1**. The example below shows the call queuing to skill 1 (**queue-to skill 1**).

## 6.2.3. Add Hunt Group

To add a new skillset or hunt group type, **add hunt-group x** where x is the new hunt group number. For example the hunt group 1 is added for the **Support\_Voice** skill. Ensure that **ACD**, **Queue** and **Vector** are all set to **y**. Also that **Group Type** is set to **ucd-mia**.

```
add hunt-group 1
                                                          Page 1 of 4
                                HUNT GROUP
           Group Number: 1
                                                         ACD? y
            Group Name: Support_Voice
                                                       Queue? y
        Group Extension: 1901
                                                      Vector? y
             Group Type: ucd-mia
                     TN: 1
                    COR: 1
                                             MM Early Answer? n
          Security Code:
                                     Local Agent Preference? n
ISDN/SIP Caller Display:
            Queue Limit: unlimited
Calls Warning Threshold: Port:
 Time Warning Threshold:
                             Port:
```

#### On **Page 2** ensure that **Skill** is set to **y** as shown below.

```
add hunt-group 1

Skill? y
AAS? n
Measured: both
Supervisor Extension:

Controlling Adjunct: none

VuStats Objective:
Multiple Call Handling: none

Timed ACW Interval (sec): After Xfer or Held Call Drops? n
```

#### 6.2.4. Add Agent

To add a new agent type **add agent-loginID** x, where x is the login id for the new agent. Enter a suitable password for **Password** as this will be used to log the agent into the phone sets.

```
add agent-loginID 4404
                                                             Page 1 of
                                 AGENT LOGINID
                Login ID: 4404
                                                                  AAS? n
                   Name: Paul AUDIX? n
TN: 1 Check skill TNs to match agent TN? n
COR: 1
           Coverage Path:
                                                       LWC Reception: spe
                                              LWC Log External Calls? n
           Security Code:
                                            AUDIX Name for Messaging:
                                        LoginID for ISDN/SIP Display? n
                                                            Password:
                                               Password (enter again):
                                                         Auto Answer: station
                                                   MIA Across Skills: system
                                            ACW Agent Considered Idle: system
                                            Aux Work Reason Code Type: system
                                             Logout Reason Code Type: system
                       Maximum time agent in ACW before logout (sec): system
                                             Forced Agent Logout Time: :
    WARNING: Agent must log in again before changes take effect
```

On **Page 2** add the required skills. Note that the skill **1** is added to this agent so that when a call to the VDN added in **Section 6.2.1** is initiated, the call is routed correctly to this agent.

add agen	t-loginID	4404			Page 2	of 3		
	AGENT LOGINID							
Di	Direct Agent Skill: Service Objective? n							
Call Handling Preference: skill-level Local Call Preference? n								
SN	RL SL	SN	RL SL	SN	RL SL SN I	RL SL		
1: 1	1	16:		31:	46:			
2:		17:		32:	47:			
3:		18:		33:	48:			
4:		19:		34:	49:			
5:		20:		35 <b>:</b>	50:			
6:		21:		36:	51 <b>:</b>			
7:		22:		37:	52:			
8:		23:		38:	53:			
9:		24:		39:	54:			
10:		25:		40:	55 <b>:</b>			
11:		26:		41:	56:			
12:		27:		42:	57 <b>:</b>			
13:		28:		43:	58:			
14:		29:		44:	59:			
15:		30:		45:	60:			

# 7. Configure Avaya Aura® Application Enablement Services

This section provides the procedures for configuring Avaya AES. The procedures fall into the following areas:

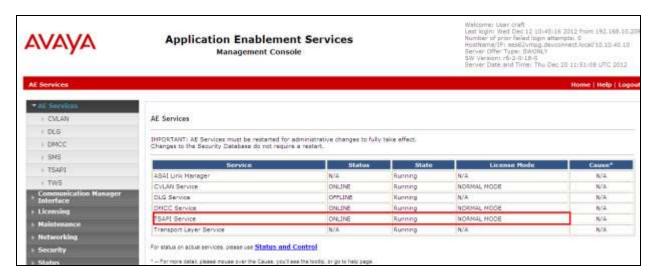
- Verify Licensing.
- Create Switch Connection.
- Administer TSAPI link.
- Enable DMCC Ports.
- Create CTI User.
- Associate Devices with CTI User.

# 7.1. Verify Licensing

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

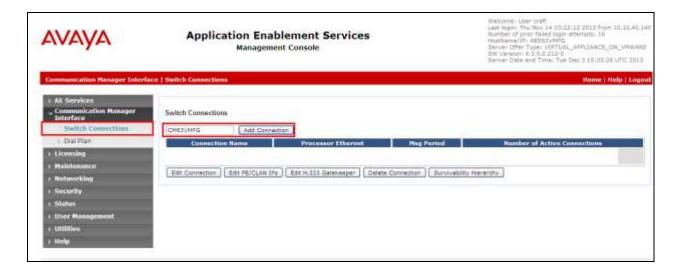


The Application Enablement Services Management Console appears displaying the **Welcome to OAM** screen (not shown). Select **AE Services** and verify that the TSAPI Service is licensed by ensuring that **TSAPI Service** is in the list of **Services** and that the **License Mode** is showing **NORMAL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

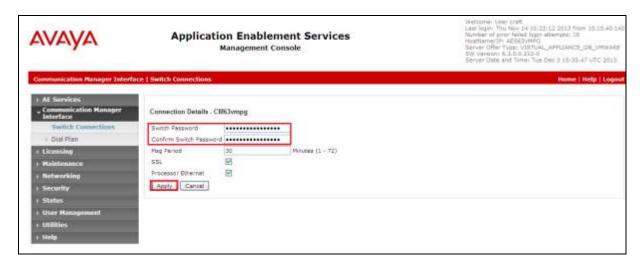


#### 7.2. Create Switch Connection

From the Avaya AES Management Console navigate to **Communication Manager Interface Switch Connections** to set up a switch connection. Enter 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 6.1.3**. 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 PE/CLAN IPs** button (not shown). In the resulting screen, enter the IP address of the procr as shown in **Section 6.1.2** that will be used for the Avaya AES connection and select the **Add/Edit Name or IP** button.



#### 7.3. 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.



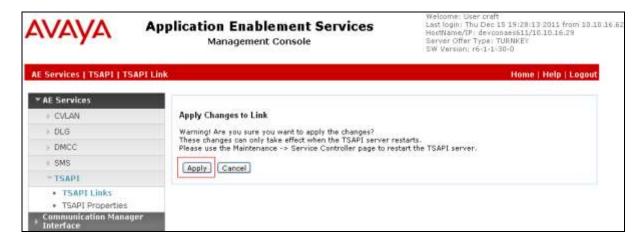
On the **Add TSAPI Links** screen (or the **Edit TSAPI Links** screen to edit a previously configured TSAPI Link as shown below), enter the following values:

- Link: Use the drop-down list to select an unused link number.
- **Switch Connection:** Choose the switch connection **CM63VMPG**, which has already been configured in **Section 7.2** from the drop-down list.
- **Switch CTI Link Number:** Corresponding CTI link number configured in **Section 5.1.4** 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**.



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



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



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**.



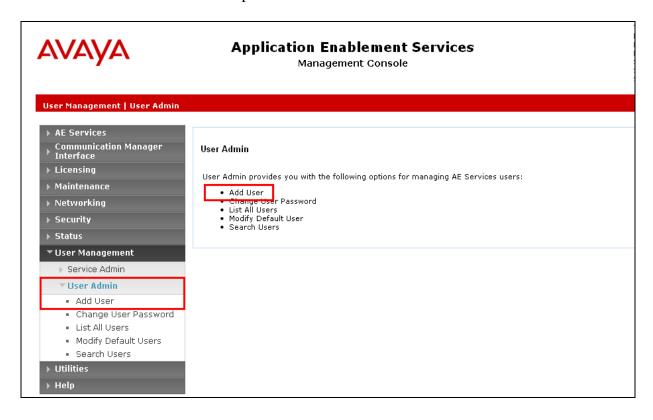
# 7.4. Enable DMCC Ports

To ensure that DMCC ports are enabled, navigate to **Networking** → **Ports**. In the section **DMCC Server Ports**, ensure that the **Unencrypted Port** is set to **Enabled** as shown below.

DLG Port TSAPI Ports	Unencrypted TCP Port  Encrypted TCP Port  TCP Port  TSAPI Service Port  Local TLINK Ports TCP Port Min TCP Port Max Unencrypted TLINK Ports TCP Port Min TCP Port Mix Encrypted TLINK Ports	9999 9998 5678 450 1024 1039 1050 1065	Enabled Disabled  Enabled Disabled
	TCP Port  TSAPI Service Port  Local TLINK Ports TCP Port Min TCP Port Max Unencrypted TLINK Ports TCP Port Min TCP Port Min	9998 5678 450 1024 1039	Cnabled Disabled
	TCP Port  TSAPI Service Port Local TLINK Ports TCP Port Min TCP Port Max Unencrypted TLINK Ports TCP Port Min TCP Port Min	5678 450 1024 1039	Enabled Disabled
	TSAPI Service Port Local TLINK Ports TCP Port Min TCP Port Max Unencrypted TLINK Ports TCP Port Min TCP Port Max	450 1024 1039	
	TSAPI Service Port Local TLINK Ports TCP Port Min TCP Port Max Unencrypted TLINK Ports TCP Port Min TCP Port Max	450 1024 1039	
TSAPI Ports	Local TLINK Ports TCP Port Min TCP Port Max Unencrypted TLINK Ports TCP Port Min TCP Port Max	1024 1039	
	Local TLINK Ports TCP Port Min TCP Port Max Unencrypted TLINK Ports TCP Port Min TCP Port Max	1024 1039	• ○
	TCP Port Min TCP Port Max Unencrypted TLINK Ports TCP Port Min TCP Port Max	1039	
	TCP Port Max Unencrypted TLINK Ports TCP Port Min TCP Port Max	1039	
	Unencrypted TLINK Ports TCP Port Min TCP Port Max	1050	
	TCP Port Min TCP Port Max		
	TCP Port Max		
		1065	
	Eliciypted TERM Forts		
	TCP Port Min	1066	
	TOP POIL MAX	1001	
DMCC Server Ports			Enabled Disabled
	Unencrypted Port	4721	• ○
	Encrypted Port	4722	• 0
	TR/87 Port	4723	• ○
H.323 Ports			
	TCP Port Min	20000	
	TCP Port Max	24999	
	Local UDP Port Min	30000	
	Local UDP Port Max	34999	
			Enabled Disabled
	Server Media		• ○
	RTP Local UDP Port Min*	40000	
	RTP Local UDP Port Max*	49999	
-	H.323 Ports	DMCC Server Ports  Unencrypted Port  Encrypted Port  TR/87 Port  H.323 Ports  TCP Port Min  TCP Port Max  Local UDP Port Min  Local UDP Port Max  Server Media  RTP Local UDP Port Max*	TCP Port Max  Unencrypted Port 4721  Encrypted Port 4722  TR/87 Port 4723  H.323 Ports  TCP Port Min 20000  TCP Port Max 24999  Local UDP Port Min 30000  Local UDP Port Max 34999  Server Media  RTP Local UDP Port Min* 40000

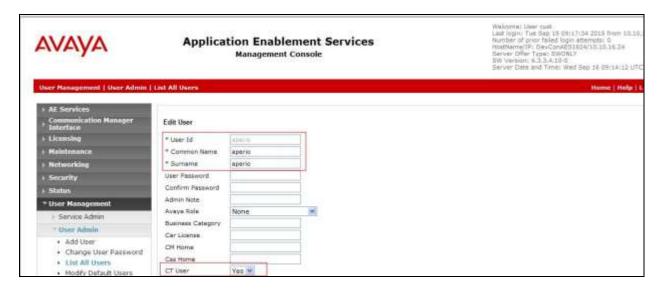
#### 7.5. Create CTI User

A User ID and password needs to be configured for the Aperio server to communicate as a TSAPI client with the Avaya AES server. Navigate to the **User Management** → **User Admin** screen then choose the **Add User** option.

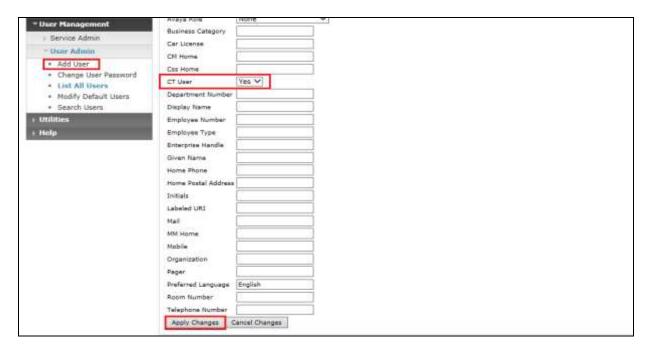


In the **Add User** screen shown below, enter the following values:

- User Id This will be used by the Aperio Server to connect to Avaya AES.
- Common Name and Surname Descriptive names need to be entered.
- User Password and Confirm Password This will again be used by the Aperio Server.
- **CT User -** Select **Yes** from the drop-down menu.



Complete the process by choosing **Apply** at the bottom of the screen.



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

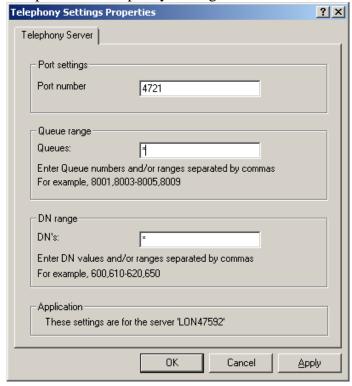
# 8. Configure Aperio

# 8.1. Configure telephony server

Run Portrait management console and create a new telephony server whose name is the server name of the Avaya AES.



The Properties of Telephony Settings should be set as below



Note: If the Portrait MMC does not resolve the server name (or IP address) being added as the telephony server it will refuse to allow the server to be added.

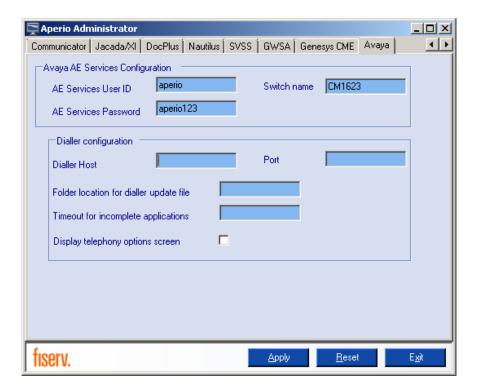
## 8.1.1. Manually Add Telephony Server

Create a telephony server whose name is the name of the local server and set up all other settings as above. Go to the Aperio database and update the relevant tables directly in order to add the Avaya AES server as a new telephony server. The following script will create and update the necessary tables, and should be modified beforehand so that the names of the new and configured telephony server are correctly set as indicated by the comments in the script.



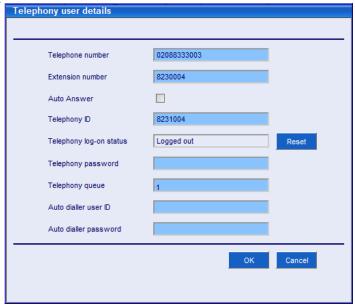
# 8.2. Configure Aperio Administrator

Configure the **AE Services User ID**, **AE Services Password** and **Switch name** into Aperio Administrator. Use the user and Switch created in **Section 7** 



# 8.3. Configure Agent in Agent Manager

Each agent will need to be configured in Agent Manager with **Extension number**, **Telephony ID** and **Telephony queue**.

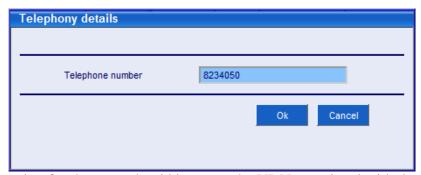


Entries in the above dialogue should be set as follows.

Extension number	The extension of the phone used by the agent.
Telephony ID	The agent ID as configured in CM for the
	agent.
Telephony password	The password for the agent ID as configured in
	CM.
Telephony queue	The hunt group number that the agent will log
	on to as configured in CM.

# 8.4. Configure Teams in Agent Manager

In Agent Manager configure the telephony details for individual teams.



The telephone number for the team should be set to the VDN associated with the hunt group as defined in **Section 6.2.1**.

# 9. Verification Steps

This section provides the steps that can be taken to verify correct configuration of the Avaya solution and Aperio server.

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

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

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

# 9.2. Verify TSAPI Link

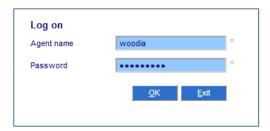
On the Avaya AES Management Console verify the status of the TSAPI link by selecting **Status**  $\rightarrow$  **Status and Control**  $\rightarrow$  **TSAPI Service Summary** to display the **TSAPI Link Details** screen. Verify the status of the TSAPI link by checking that the **Status** is **Talking**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



# 9.3. Aperio connection

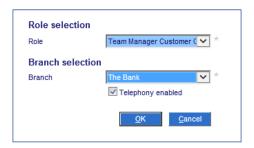
Start Aperio client and enter **Agent name** and **Password** as configured in Agent Manager. Note, this is the user ID and password for Communicator / Signature. Press **OK** to validate Agent Name and Password.

#### **Aperio**

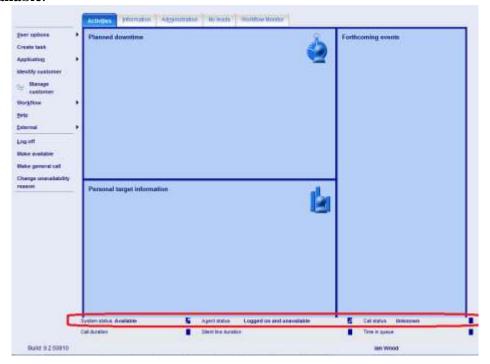


Choose a role and branch for the agent and ensure that the "Telephony enabled" checkbox is ticked. Press  $\mathbf{OK}$ 

#### **Aperio**



The agent desktop will be displayed. The telephony bar at the bottom of the screen will show the initial status of telephony. **System status** will be **Available** and **Agent status** will be **Logged on and unavailable**.



## 10. Conclusion

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

#### 11. Additional References

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

Product documentation for Avaya products may be found at <a href="http://support.avaya.com">http://support.avaya.com</a>

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

Technical documentation can be obtained for fisery Aperio by contacting Fisery and / or consulting the following Portrait base documents.

- [1] *Integrating telephony*, Edition 7.1.
- [2] New Feature Overview, Edition 1.0.
- [3] Telephony Client Integration Developers Guide, Edition 1.0.

# **Appendix**

#### Avaya 9608 H323 Deskphone

This is a printout of the Avaya 9608 H323 Deskphone used during compliance testing.

```
display station 2016
                                                                 Page 1 of
                                     STATION
Extension: 2016
                                         Lock Messages? n
                                                                        BCC: M
    Type: 9608
                                         Security Code: *
                                                                         TN: 1
    Port: S00102
                                     Coverage Path 1:
                                                                         COR: 1
                                     Coverage Path 2:
    Name: CCT Agent2
                                                                        cos: 1
                                      Hunt-to Station:
                                                                     Tests? y
STATION OPTIONS
             Location: Time of Day Lock Table:
Loss Group: 19 Personalized Ringing Pattern: 1
                                                Message Lamp Ext: 2016
       Speakerphone: 2-way Mute Button Enabled? y
Display Language: english Button Modules: 0
 Survivable GK Node Name:
         Survivable COR: internal
                                               Media Complex Ext:
  Survivable Trunk Dest? y
                                                      IP SoftPhone? y
                                               IP Video Softphone? y
                              Short/Prefixed Registration Allowed: default
                                               Customizable Labels? y
```

#### Page 2

```
display station 2016
                                                                  2 of 5
                                  STATION
FEATURE OPTIONS
         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
                                                      Data Restriction? n
  Redirect Notification? y
                                           Idle Appearance Preference? n
                                         Bridged Idle Line Preference? n
 Per Button Ring Control? n
  Bridged Call Alerting? n
                                              Restrict Last Appearance? y
 Active Station Ringing: single
                                                    EMU Login Allowed? n
                           Per Station CPN - Send Calling Number?
       H.320 Conversion? n
      Service Link Mode: as-needed
                                                    EC500 State: disabled
       Multimedia Mode: enhanced
                                               Audible Message Waiting? n
   MWI Served User Type:
                                            Display Client Redirection? n
                                           Select Last Used Appearance? n
            AUDIX Name:
                                             Coverage After Forwarding? s
                                               Multimedia Early Answer? n
Remote Softphone Emergency Calls: as-on-local Direct IP-IP Audio Connections? y
 Emergency Location Ext: 2016 Always Use? n IP Audio Hairpinning? n
```

#### Page 3

```
display station 2016
                                                                Page
                                                                       3 of
                                     STATION
             Conf/Trans on Primary Appearance? n
  Bridged Appearance Origination Restriction? n
                                                    Offline Call Logging? y
         Require Mutual Authentication if TLS? 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:
                                                                        n
                  External Calls To:
                                                                        n
         Busy For Internal Calls To:
                                                                        n
                  External Calls To:
                                                                        n
      No Reply For Internal Calls To:
                  External Calls To:
            SAC/CF Override: n
```

#### Page 4

```
display station 2016
                                                                        4 of
                                     STATION
 SITE DATA
      Room:
                                                        Headset? n
      Jack:
                                                        Speaker? n
      Cable:
                                                       Mounting: d
      Floor:
                                                    Cord Length: 0
  Building:
                                                      Set Color:
ABBREVIATED DIALING
                               List2:
    List1:
                                                         List3:
BUTTON ASSIGNMENTS
1: call-appr
                                         5: ec500 Timer? n
2: call-appr
                                         6: extnd-call
3: call-appr
                                         7:
 4: call-park
                                         8:
    voice-mail
```

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