



Avaya Solution & Interoperability Test Lab

Application Notes for Tetherfi Omni Channel Management Multimedia Agent Client with Avaya Aura® Communication Manager 6.3 and Avaya Aura® Application Enablement Services 6.3 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Tetherfi Omni Channel Management (OCM) Multimedia Agent Client to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services (AES).

Tetherfi Multimedia Agent Client (TMAC) is a web based CTI solution. This thin client provides a single unified CTI desktop capable of servicing Voice, SMS, Email, Chat, Video and Social Media Channels. TMAC communicates with Avaya AES using the (Telephony Services Application Programming Interface) TSAPI Service.

Readers should pay attention to **section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as any 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 required for Tetherfi Omni Channel Management (OCM) Multimedia Agent Client (to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services (AES).

2. General Test Approach and Test Results

The feature test cases were performed manually. Inbound and outbound calls were made on Communication Manager and calls handled by agents running the TMAC. In this testing, agents were logged in from the respective phones as expert agents. Also, inbound email were also sent and handled by agents running the TMAC according to their skill levels.

The serviceability test cases were also performed manually by disconnecting/reconnecting the ethernet cable on the client PC, restarting the TSAPI service on AES server as well as the CTI link on 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.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on verifying TMAC for the following:

- Agent in manual in or auto-in login mode, logout and failure scenarios.
- Handling of incoming and outgoing calls.
- Holding and resuming of calls.
- Consult voice transfers as well as voice conference.
- Correct status of Agent reflected on the wallboard API
- Handling of email base on their skill levels.

The serviceability testing focused on verifying the ability of TMAC to recover from adverse conditions such as disconnecting the ethernet cables on the TMAC PC and restarting of the TSAPI service on the Avaya AES server, and CTI link on the Communication Manager.

2.2. Test Results

All feature test cases were successfully completed.

2.3. Support

Technical support on Interlink can be obtained through the following:

- Phone: +65-31507414
- Email: info@ilinknet.com.sg
- Web: <http://www.ilinknet.com.sg>

3. Reference Configuration

Figure 1 illustrates a sample configuration consisting of a duplex pair of Avaya S8800 Servers, an Avaya G430 Media Gateway, Avaya AES Server and Avaya 96x1 H.323 IP Telephones. TMAC accessed the Tetherfi OCM through browsers installed on a Microsoft Windows 7 Professional PCs. Tetherfi OCM is installed on Microsoft Windows 2012 R2 server which communicates with the TSAPI Service on the Avaya AES Server. Microsoft SQL 2012 was installed as the database on the same server. The Avaya 4548GT-PWR Converged Stackable Switch provides ethernet connectivity to the servers and IP telephones.

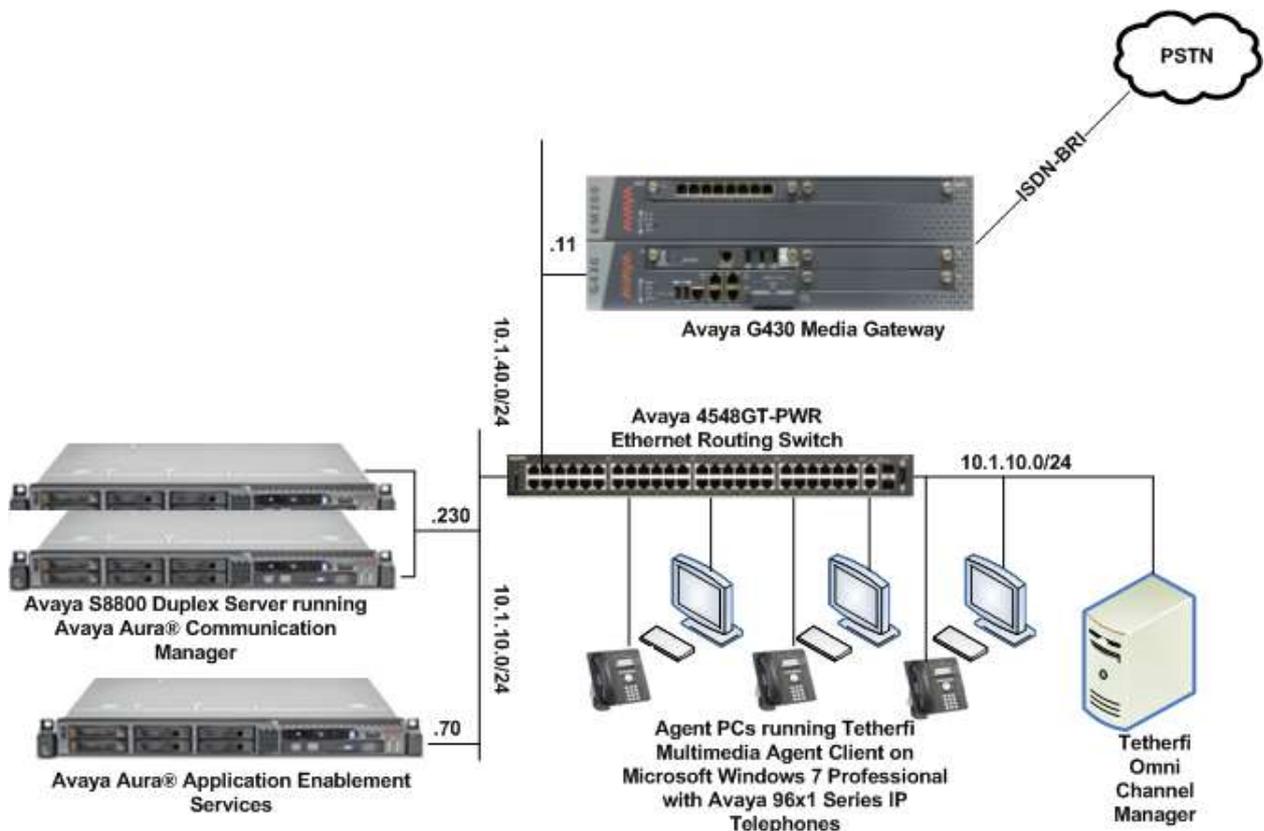


Figure 1: Test Configuration

4. Equipment and Software Validated

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

Equipment/Software	Version
Avaya Aura® Communication Manager on S8800 Duplex Servers	R6.3.12.0-SP12 (R016x.03.0.124.0-22505)
Avaya G430 Media Gateway	36.14.0
Avaya Aura® Application Enablement Services	R6.3.3 (6.3.3.4.10-0)
96x1 Series (H.323) IP Telephones	6.6029
Tetherfi Omni Channel Management running on Microsoft Windows 2012 R2 with Microsoft SQL 2012 application	1.3.08.05
Tetherfi Multimedia Agent Client accessed through browser on PC running on Microsoft Windows 7 SP1	1.3.08.05

Table 1: Equipment/Software Validated

5. Configure Avaya Communication Manager

This section provides the procedures for configuring Computer Telephony Integration (CTI) links on Avaya Communication Manager. Setup of Agent Stations, Agent Login ID, VDNs, Hunt Groups, Trunks and Call Center features is assumed to be configured and will not be detailed here.

All the configuration changes in Communication Manager are performed through the System Access Terminal (SAT) interface. The highlights in the following screens indicate the values used during the compliance test.

5.1. Configure AES and CTI Links

Avaya AES server forwards CTI requests, responses, and events between Tetherfi OCM and Communication Manager. Avaya AES server communicates with Communication Manager over an AES link. Within the AES link, CTI links may be configured to provide CTI services to CTI applications such as Tetherfi OCM. The following steps demonstrate the configuration of the Communication Manager side of the AES and CTI links.

Step	Description
1.	Enter the display system-parameters customer-options command. On Page 3 , verify that Computer Telephony Adjunct Links is set to y . If not, contact an authorized Avaya account representative to obtain the license.
	<pre>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? n DCS (Basic)? y ASAI Link Core Capabilities? y DCS Call Coverage? y ASAI Link Plus Capabilities? y 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</pre> <p>(NOTE: You must logoff & login to effect the permission changes.)</p>
2.	Enter the add cti-link m command, where m is a number between 1 and 64, inclusive. Enter a valid Extension under the provisioned dial plan in Avaya Communication Manager, set the Type field to ADJ-IP , and assign a descriptive Name to the CTI link.
	<pre>add cti-link 3 Page 1 of 3 CTI LINK CTI Link: 3 Extension: 10093 Type: ADJ-IP Name: TSAPI Service - AES6x COR: 1</pre>

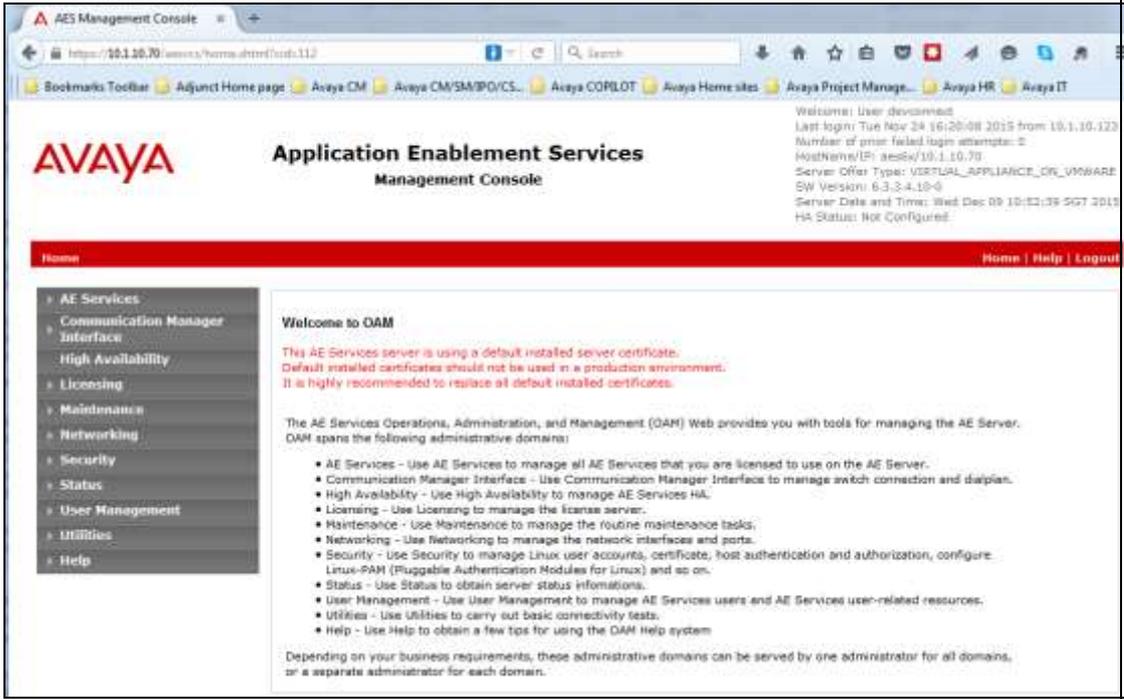
Step	Description
3.	Enter the change node-names ip command. In the compliance-tested configuration, the processor of the communication manager with the node-name procr was utilized for connectivity to Avaya AES server.
	<pre>change node-names ip</pre> <p style="text-align: right;">Page 1 of 2</p> <pre> IP NODE NAMES Name IP Address ----- procr 10.1.10.230 procr6 :: </pre>
4.	Enter the change ip-services command. On Page 1 , configure the Service Type field to AESVCS and the Enabled field to y . The Local Node field should be set to the procr that was configured previously in Step 3 . During the compliance test, the default port was utilized for the Local Port field.
	<pre>change ip-services</pre> <p style="text-align: right;">Page 1 of 4</p> <pre> IP SERVICES Service Enabled Local Local Remote Remote Type Node Port Node Port ----- AESVCS y procr 8765 </pre>
	<p>On Page 4, enter the hostname of the Avaya AES server for the AE Services Server field. The server name may be obtained by logging in to the Avaya AES server using Secure Shell (SSH) and running the uname -a command. Enter an alphanumeric password for the Password field and set the Enabled field to y. The same password will be configured on Avaya AES server in Section 6.3 Step 2.</p>
	<pre>change ip-services</pre> <p style="text-align: right;">Page 4 of 4</p> <pre> AE Services Administration Server ID AE Services Password Enabled Status Server 1: 2: aes6x abcdef1234567890 y 3: </pre>
5.	Enter the save translation command to save the changes to the system. This completes the configuration of Avaya Communication Manager.

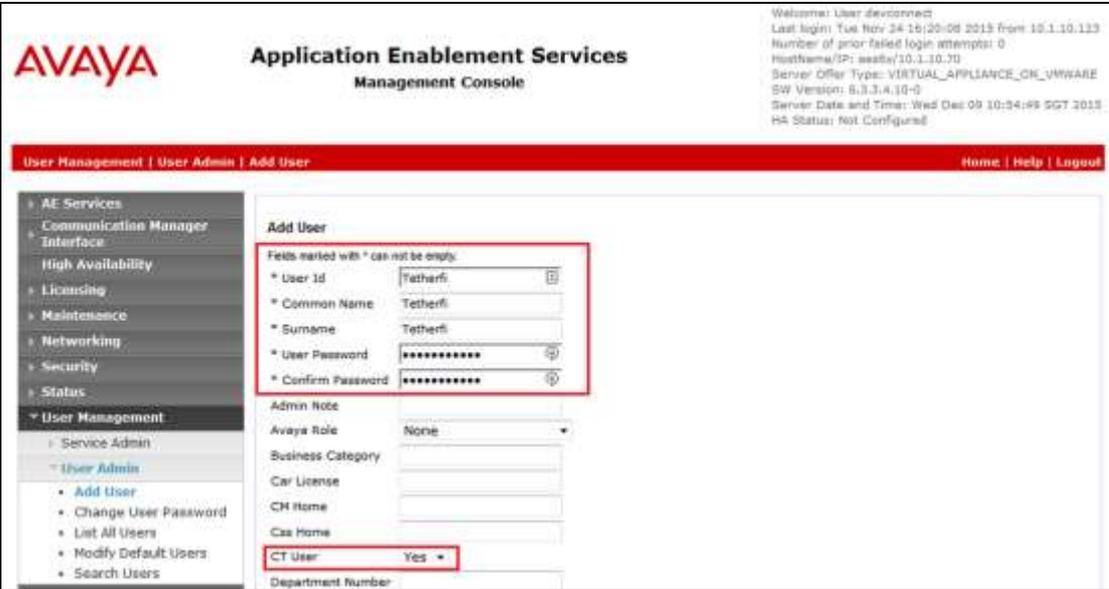
6. Configure Avaya Application Enablement Services

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

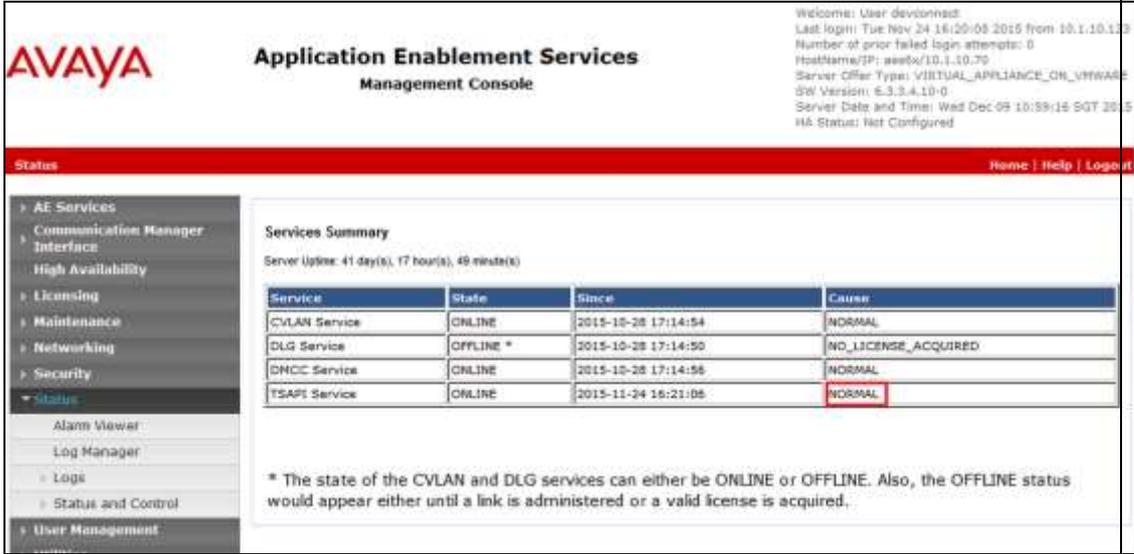
- Administer CTI User
- Verify Avaya Application Enablement Services License
- Administer Switch Connection
- Administer TSAPI link and Verify TSAPI Service Port
- Administer CTI user permission

6.1. Administer CTI User

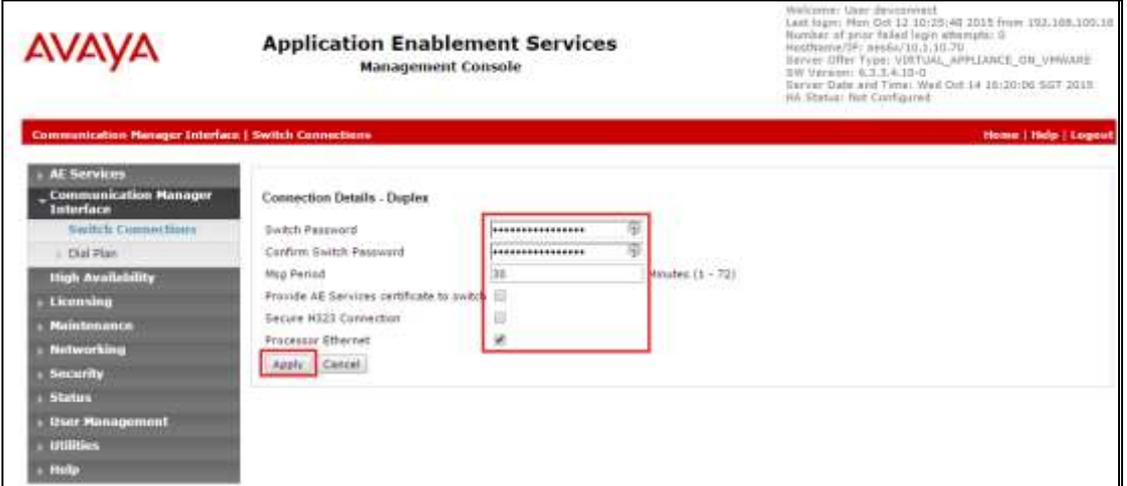
Step	Description
1.	<p>Launch a web browser and enter https://<IP address of Avaya AES server> to access the AES Management Console web based interface. Log in to AES Management Console using an administrative login and password (not shown) and the Welcome To OAM screen will be displayed.</p>  <p>The screenshot shows the Avaya Application Enablement Services Management Console interface. The browser address bar displays the URL: https://10.1.10.70/aes/warn-ctrl/ctrl.112. The page header includes the Avaya logo and the title 'Application Enablement Services Management Console'. A navigation menu on the left lists various administrative domains: AE Services, Communication Manager Interface, High Availability, Licensing, Maintenance, Networking, Security, Status, User Management, Utilities, and Help. The main content area displays a 'Welcome to OAM' message with a warning about default certificates and a list of administrative domains and their functions.</p>

Step	Description
2.	<p>Select User Management → User Admin → Add User in the left pane. Specify a value for User Id, Common Name, Surname, User Password and Confirm Password. Set CT User to Yes. Use the values for User Id and User Password to configure OCM in Section 7 to access the TSAPI Service on Avaya AES server. Scroll down to the bottom of the page and click Apply (not shown).</p>  <p>The screenshot shows the Avaya Application Enablement Services Management Console. The left navigation pane is expanded to 'User Management' > 'User Admin' > 'Add User'. The main content area displays the 'Add User' form. A red box highlights the required fields: User Id (Tetherf), Common Name (Tetherf), Surname (Tetherf), User Password (masked), and Confirm Password (masked). Another red box highlights the 'CT User' dropdown menu, which is currently set to 'Yes'. The top right of the console shows system information, including the user name 'User', connection time, and server details.</p>

6.2. Verify Avaya Application Enablement Services License

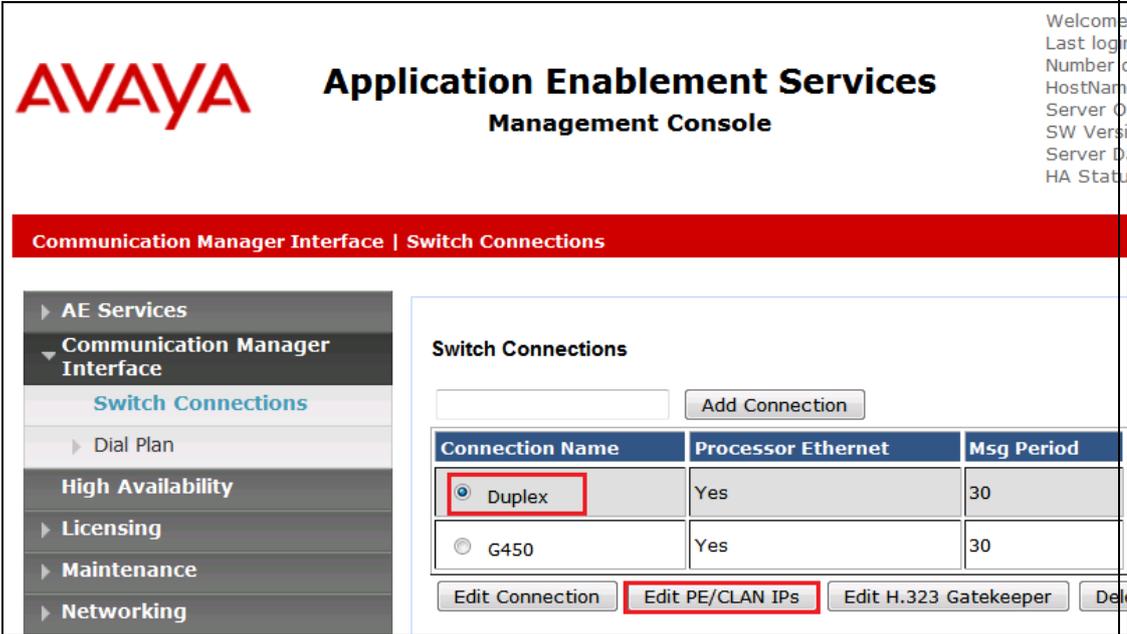
Step	Description
1.	<p>Select Status from the Welcome to OAM Screen page. Verify that Avaya Application Enablement Services license has proper permissions for the features illustrated in these Application Notes by ensuring the TSAPI service is licensed. If the TSAPI service is not licensed, then contact the Avaya sales team or business partner for a proper license file.</p>  <p>The screenshot shows the Avaya Application Enablement Services Management Console. The top right corner displays system information: Welcome: User devconnect, Last login: Tue Nov 24 16:20:08 2015 from 10.1.10.123, Number of prior failed login attempts: 0, HostName/IP: avaya10.1.10.79, Server Offer Type: VIRTUAL_APPLIANCE_CN_VFWA06, SW Version: 6.3.3.4.10-0, Server Date and Time: Wed Dec 09 10:59:16 SGT 2015, HA Status: Not Configured. The main content area is titled 'Services Summary' and shows a table of service statuses. The table has four columns: Service, State, Since, and Cause. The rows are: CVLAN Service (ONLINE, 2015-10-28 17:14:54, NORMAL), DLG Service (OFFLINE *, 2015-10-28 17:14:50, NO_LICENSE_ACQUIRED), DNCC Service (ONLINE, 2015-10-28 17:14:56, NORMAL), and TSAPI Service (ONLINE, 2015-11-24 16:21:05, NORMAL). A note below the table states: '* The state of the CVLAN and DLG services can either be ONLINE or OFFLINE. Also, the OFFLINE status would appear either until a link is administered or a valid license is acquired.'</p>

6.3. Administer Switch Connection

Step	Description
1.	<p>From the Home menu, select Communication Manager Interface → Switch Connections. Enter a descriptive name for the switch connection and click Add Connection. In this configuration, Duplex is used.</p> 
2.	<p>The Connection Details – Duplex screen is displayed. For the Switch Password and Confirm Switch Password fields, enter the password that was administered in Avaya Communication Manager using the IP Services form in Section 5.1 Step 4. Here we are using the Processor Ethernet as well for connection and the field needs to be checked. Click on Apply to effect changes.</p> 

Step **Description**

3. The Switch Connections screen is displayed. Select the newly added switch connection name and click **Edit PE/CLAN IPs**.

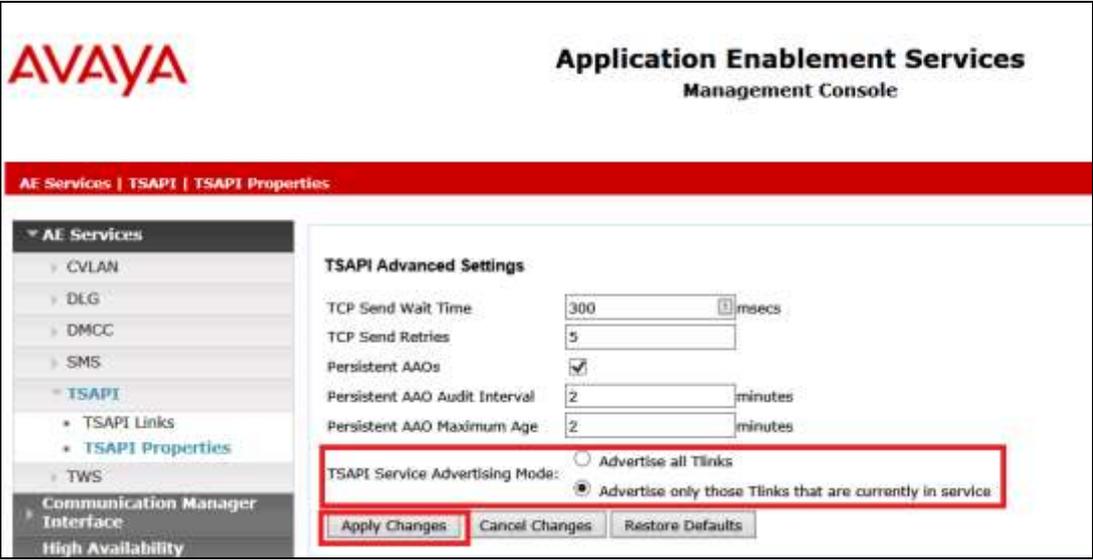
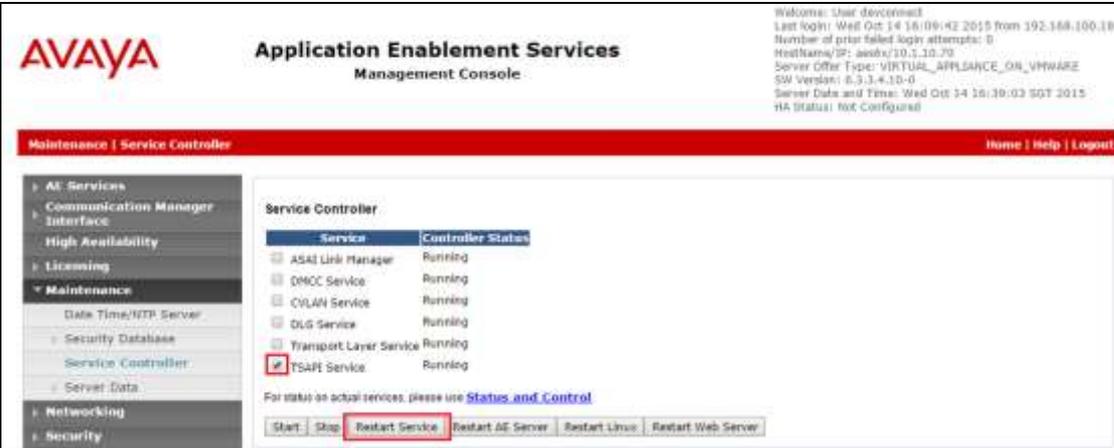


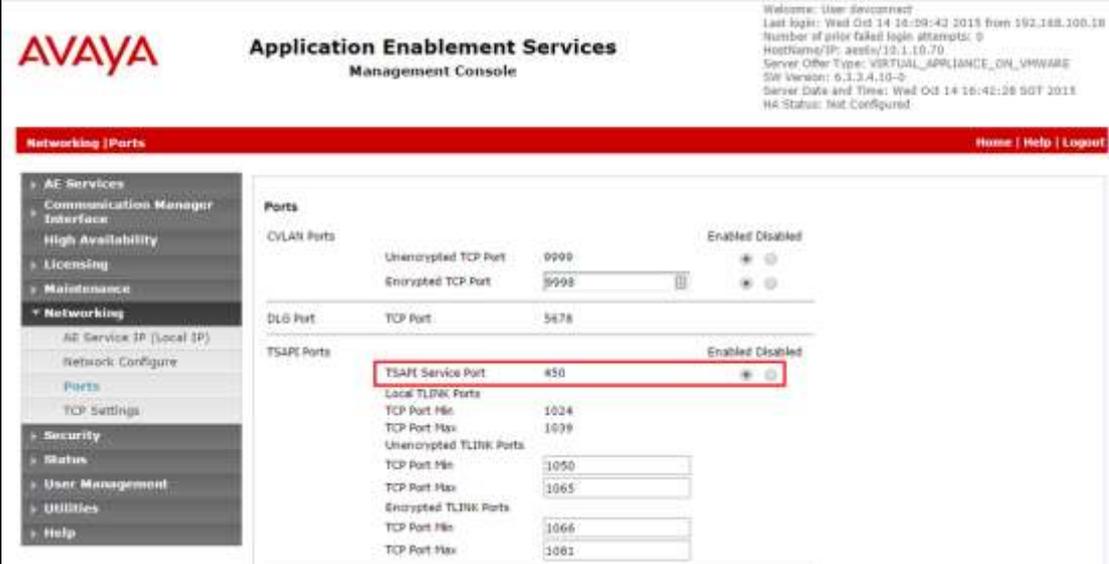
5. In the **Edit Processor Ethernet IP – Duplex** screen, enter the host name or IP address of the PE/C-LAN used for AES connectivity. In this case, **10.1.10.230** is used, which corresponds to the Common IP address of the Avaya Communication Manager. Click **Add/Edit Name or IP**.



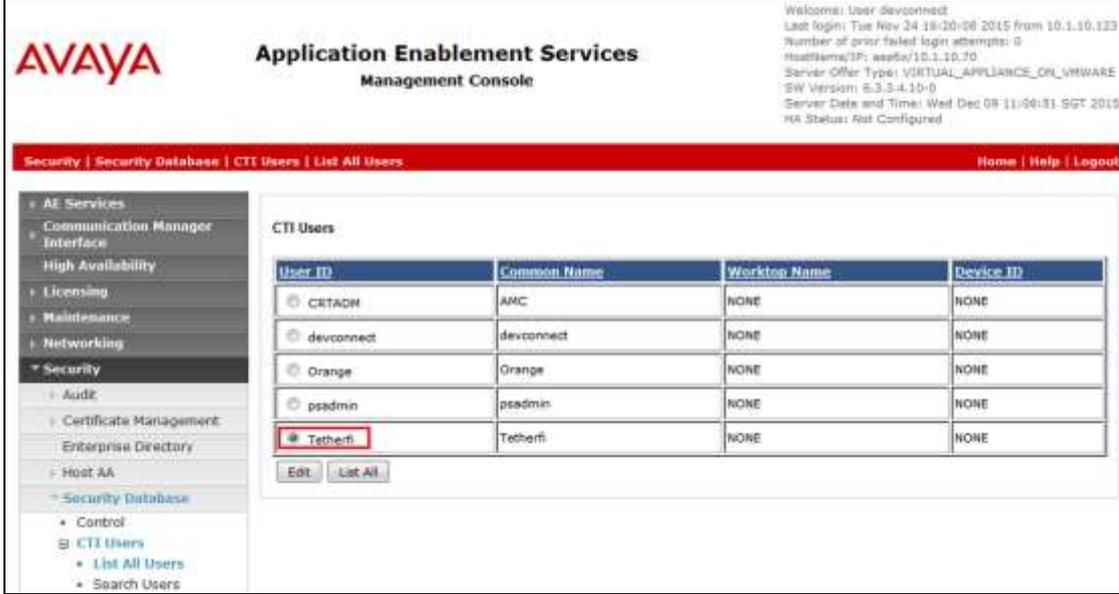
6.4. Administer TSAPI Link and Verify TSAPI Service Port

Step	Description
1.	<p>To administer a TSAPI link on AES, select AE Services → TSAPI → TSAPI Links. Click Add Link.</p>  <p>The screenshot shows the Avaya Application Enablement Services Management Console. The left sidebar has a tree view with 'TSAPI Links' selected and highlighted with a red box. The main content area shows a table with columns: Link, Switch Connection, Switch CTI Link #, ASAI Link Version, and Security. Below the table, the 'Add Link' button is highlighted with a red box.</p>
2.	<p>In the Add TSAPI Links screen, select the following values:</p> <ul style="list-style-type: none"> • Link: Select an available Link number from 1 to 16. • Switch Connection: Administered switch connection in Section 6.3 Step 1. • Switch CTI Link Number: Corresponding CTI link number in Section 5.1 Step 2. • ASAI Link Version: Set to 7 for the latest version. • Security: Select Both to allow for encrypted or unencrypted link. <p>Note that the actual values may vary. Click Apply Changes.</p>  <p>The screenshot shows the 'Add TSAPI Links' configuration screen. The fields are: Link (3), Switch Connection (Duplex), Switch CTI Link Number (3), ASAI Link Version (7), and Security (Both). The 'Apply Changes' button is highlighted with a red box.</p>

Step	Description														
3.	<p>From the home screen, select AE Services → TSAPI → TSAPI Properties. Select the button on Advertise only those Tlinks that are currently in service. This will have the effect that only those Tlinks that are in service will be available to TSAPI applications. Any Tlinks that are not in service will not be available to TSAPI applications.</p>  <p>The screenshot shows the 'Application Enablement Services Management Console' with the 'TSAPI Properties' page. Under 'TSAPI Advanced Settings', the 'TSAPI Service Advertising Mode' is set to 'Advertise only those Tlinks that are currently in service'. Other settings include TCP Send Wait Time (300 msecs), TCP Send Retries (5), Persistent AAOs (checked), Persistent AAO Audit Interval (2 minutes), and Persistent AAO Maximum Age (2 minutes). Buttons for 'Apply Changes', 'Cancel Changes', and 'Restore Defaults' are visible at the bottom.</p>														
4.	<p>To restart the TSAPI Service, select Maintenance → Service Controller from the Home menu. Check the TSAPI Service checkbox and click Restart Service.</p>  <p>The screenshot shows the 'Application Enablement Services Management Console' with the 'Maintenance Service Controller' page. A table lists services and their controller states:</p> <table border="1" data-bbox="555 1384 821 1534"> <thead> <tr> <th>Service</th> <th>Controller Status</th> </tr> </thead> <tbody> <tr> <td>ASAI Link Manager</td> <td>Running</td> </tr> <tr> <td>DMCC Service</td> <td>Running</td> </tr> <tr> <td>CVLAN Service</td> <td>Running</td> </tr> <tr> <td>DLG Service</td> <td>Running</td> </tr> <tr> <td>Transport Layer Service</td> <td>Running</td> </tr> <tr> <td><input checked="" type="checkbox"/> TSAPI Service</td> <td>Running</td> </tr> </tbody> </table> <p>Below the table, there are buttons for 'Start', 'Stop', 'Restart Service', 'Restart AE Server', 'Restart Linux', and 'Restart Web Server'. The 'Restart Service' button is highlighted with a red box.</p>	Service	Controller Status	ASAI Link Manager	Running	DMCC Service	Running	CVLAN Service	Running	DLG Service	Running	Transport Layer Service	Running	<input checked="" type="checkbox"/> TSAPI Service	Running
Service	Controller Status														
ASAI Link Manager	Running														
DMCC Service	Running														
CVLAN Service	Running														
DLG Service	Running														
Transport Layer Service	Running														
<input checked="" type="checkbox"/> TSAPI Service	Running														

Step	Description
5.	<p>Navigate to the Tlinks screen by selecting Security → Security Database → Tlinks from the Welcome to OAM home menu. Note the value of the Tlink Name, as this will be needed to configure the Omni Channel Management in Section 7. In this configuration, the unencrypted Tlink Name AVAYA#DUPLEX#CSTA#AES6X, which is automatically assigned by the Avaya AES server, is used.</p>  <p>The screenshot shows the Avaya Application Enablement Services Management Console. The left sidebar has 'Security' expanded, and 'Tlinks' is selected. The main content area shows a 'Tlinks' section with a 'Tlink Name' field containing 'AVAYA#DUPLEX#CSTA#AES6X'. A 'Delete Tlink' button is also visible.</p>
6.	<p>Navigate to the networking ports by Networking → Ports. Verify that the default TSAPI Service Port 450 is enabled.</p>  <p>The screenshot shows the Avaya Application Enablement Services Management Console. The left sidebar has 'Networking' expanded, and 'Ports' is selected. The main content area shows a 'Ports' section with various port configurations. The 'TSAPI Service Port' is highlighted with a red box, showing a value of '450' and a status of 'Enabled'.</p>

6.5. Administer CTI User Permission

Step	Description																								
1.	<p>Select Security → Security Database → CTI Users → List All Users from the AES Management Console Home menu. Select the User ID created in Section 6.1 Step 2 and click Edit.</p>  <p>The screenshot shows the Avaya Application Enablement Services Management Console. The breadcrumb trail is Security Security Database CTI Users List All Users. A table lists CTI Users with columns: User ID, Common Name, Worktop Name, and Device ID. The 'Tether1' user is selected, and its 'Unrestricted Access' checkbox is checked.</p> <table border="1" data-bbox="555 719 1394 913"> <thead> <tr> <th>User ID</th> <th>Common Name</th> <th>Worktop Name</th> <th>Device ID</th> </tr> </thead> <tbody> <tr> <td>CRTADM</td> <td>AMC</td> <td>NONE</td> <td>NONE</td> </tr> <tr> <td>devconnect</td> <td>devconnect</td> <td>NONE</td> <td>NONE</td> </tr> <tr> <td>Orange</td> <td>Orange</td> <td>NONE</td> <td>NONE</td> </tr> <tr> <td>psadmin</td> <td>psadmin</td> <td>NONE</td> <td>NONE</td> </tr> <tr> <td>Tether1</td> <td>Tether1</td> <td>NONE</td> <td>NONE</td> </tr> </tbody> </table>	User ID	Common Name	Worktop Name	Device ID	CRTADM	AMC	NONE	NONE	devconnect	devconnect	NONE	NONE	Orange	Orange	NONE	NONE	psadmin	psadmin	NONE	NONE	Tether1	Tether1	NONE	NONE
User ID	Common Name	Worktop Name	Device ID																						
CRTADM	AMC	NONE	NONE																						
devconnect	devconnect	NONE	NONE																						
Orange	Orange	NONE	NONE																						
psadmin	psadmin	NONE	NONE																						
Tether1	Tether1	NONE	NONE																						
2.	<p>Tick the Unrestricted Access box. Click Apply Changes.</p>  <p>The screenshot shows the 'Edit CTI User' page for the 'Tether1' user. The 'Unrestricted Access' checkbox is checked. The 'Apply Changes' button is highlighted with a red box.</p>																								

7. Configure Tetherfi Multimedia Agent Client

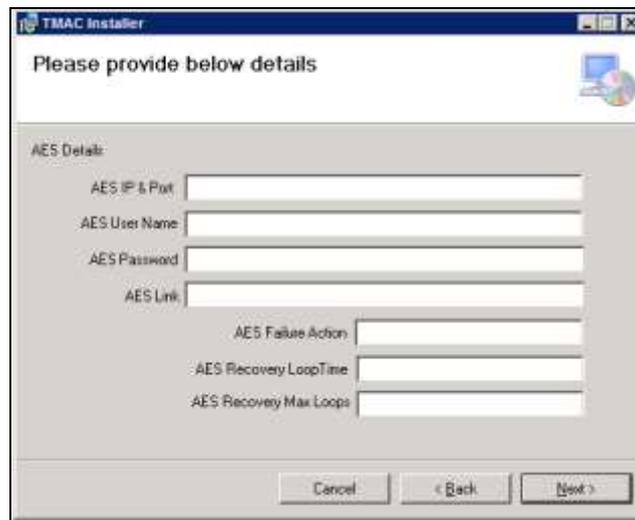
This section highlights the configuration of TMAC which includes the following areas:

- Configure Omni Channel Management
- Configure Agents

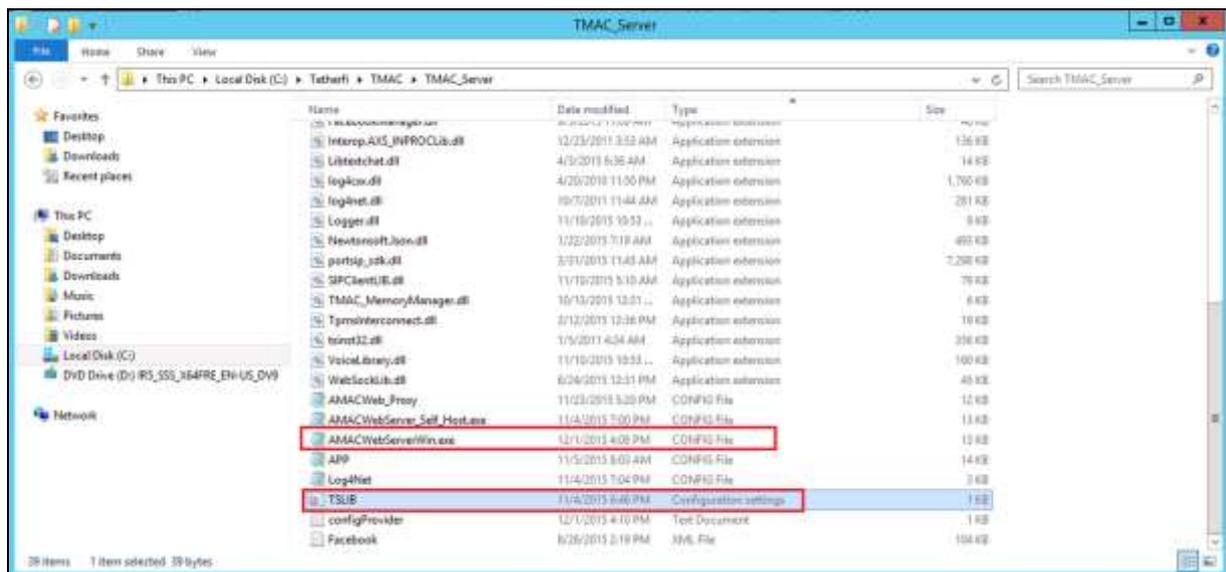
7.1. Configure Omni Channel Management

7.1.1. Setup & Configuration files

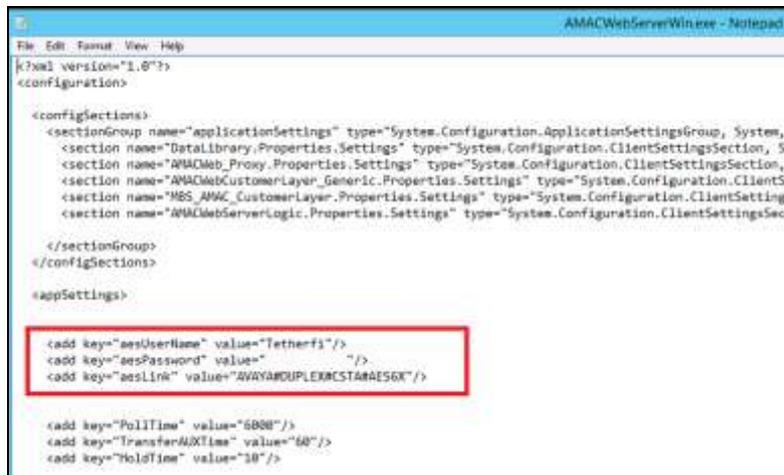
Installation and configuration of OCM server will be performed by Interlink engineers and will not be detailed here. Below installer screen will help setup the basic TMAC configuration. However, the interface setting to AES is illustrated below.



Locate the file ‘AMACWebServerWin.exe.config’ and ‘TSLIB.ini’ configuration settings file. In this compliance testing it was located in C:\Tetherfi\TMAC\TMAC_Server. This path is specified during the TMAC Server software installation.

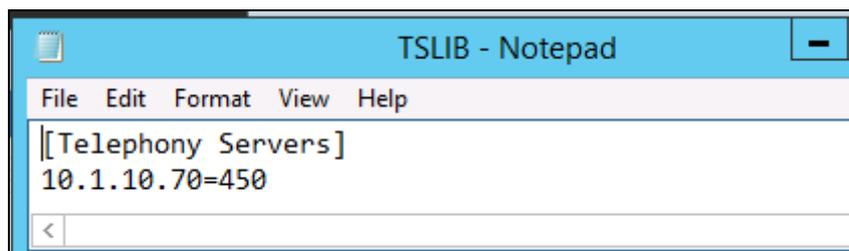


Below illustrates the configuration file 'AMACWebServerWin.exe.config' where AES access is configured with the aesUserName/aesPassword and aesLink corresponding to Section 6.1 Step 2 and Section 6.4 Step 5 respectively. The aesPassword was not displayed for security reason.



```
AMACWebServerWin.exe - Notepad
File Edit Format View Help
[?xml version="1.0"?]
<configurations>
  <configSections>
    <sectionGroup name="applicationSettings" type="System.Configuration.ApplicationSettingsGroup, System.
    <section name="DataLibrary.Properties.Settings" type="System.Configuration.ClientSettingsSection, Sy
    <section name="AMACWebProxy.Properties.Settings" type="System.Configuration.ClientSettingsSection,
    <section name="AMACWebCustomerLayer.Generic.Properties.Settings" type="System.Configuration.ClientSe
    <section name="MBS_AMAC_CustomerLayer.Properties.Settings" type="System.Configuration.ClientSettings
    <section name="AMACWebServerLogic.Properties.Settings" type="System.Configuration.ClientSettingsSect
  </sectionGroup>
</configSections>
<appSettings>
  <add key="aesUserName" value="Tetherfl"/>
  <add key="aesPassword" value=""/>
  <add key="aesLink" value="AWAY#DUPLER#CSTAR#AES63"/>
  <add key="PollTime" value="6000"/>
  <add key="TransferMaxTime" value="60"/>
  <add key="HoldTime" value="30"/>
</appSettings>
</configurations>
```

The TSLIB configuration settings file defined the AES IP address 10.1.10.70 and port 450 (defined in Section 6.4 item 6).



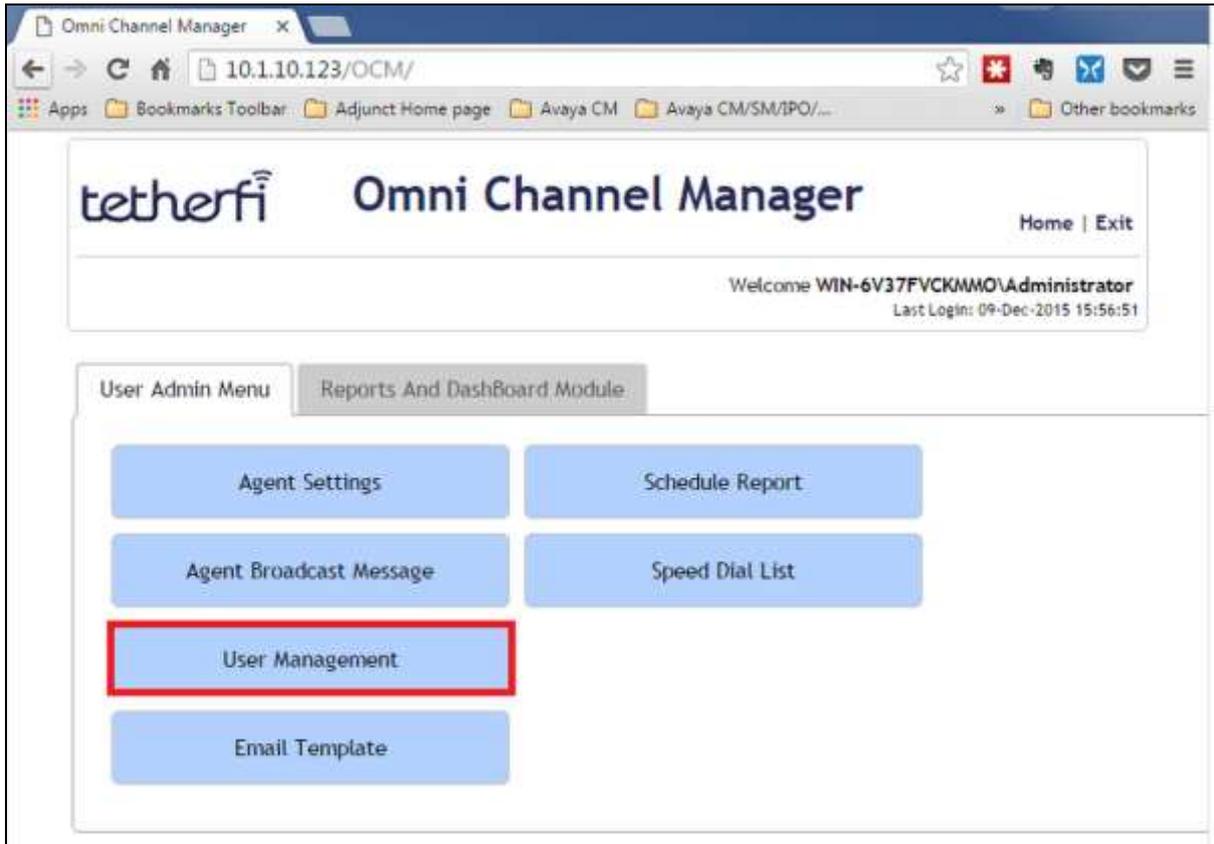
```
TSLIB - Notepad
File Edit Format View Help
[[Telephony Servers]
10.1.10.70=450
```

7.2. Configure Agents

Launch a web browser and enter <http://<IP address of OCM server>/OCM> to access the OCM for configuration of OCM Admin Users and TMAC Agents.

7.2.1. User creation

Assuming user accounts for agents are already created in the Windows Domain, click on the **User Management** to add agents.



Below is a list of 'OCM Admin' users already created. To create new users, click on the **Create** soft button.

CMM Users x

10.1.10.123/OCM/CMM_USER

Apps Bookmarks Toolbar Adjunct Home page Avaya CM Avaya CM/SM/IPO/... Other bookmarks

tetherfi **Omni Channel Manager** Home | Exit

User Access Management Welcome WIN-6V37FVCKMMO\Administrator
Last Login: 09-Dec-2015 15:56:51

Search

User ID

All Search Clear Search

Create Export Edit Delete Print

CMM User List

Page 1 of 1 100 View 1 - 3 of 3

User ID	User Name	Last Changed By	Last Changed On
WIN-6V37FVCKMMO\Administrator	WIN-6V37FVCKMMO\Administrator	WIN-6V37FVCKMMO\Administrator	09-Nov-2015 03:12:34
WIN-6V37FVCKMMO\TMACUSER	WIN-6V37FVCKMMO\TMACUSER	WIN-6V37FVCKMMO\Administrator	09-Nov-2015 03:13:43
WIN-6V37FVCKMMO\TMACUSER2	WIN-6V37FVCKMMO\TMACUSER2	WIN-6V37FVCKMMO\Administrator	24-Nov-2015 19:57:02

A sample of the agent created for TMACUSER account and its capabilities is illustrated below.

tetherfi **Omni Channel Manager** [Home](#) | [Exit](#)

Edit User Welcome WIN-6V37FVCKMMO\Administrator
Last Login: 09-Dec-2015 15:56:51

User ID	WIN-6V37FVCKMMO\TMACUSEF
User Management	Disable ▼
Email Template	Enable ▼
Agent Broadcast Message	Enable ▼
Speed Dial List	Enable ▼
Schedule Report	Disable ▼
Agent Settings	Disable ▼

OCM Reports

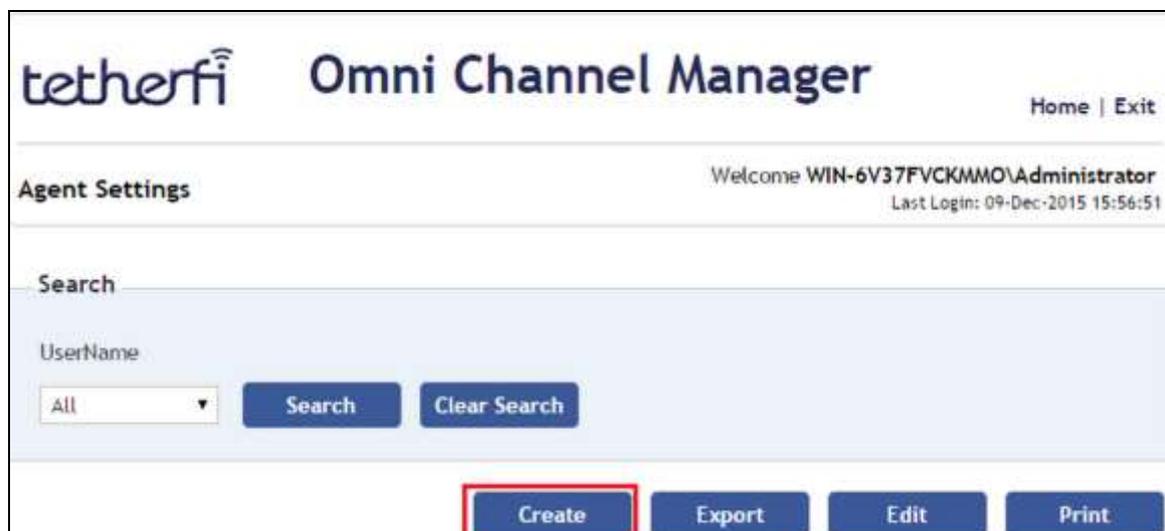
Dashboard	Enable ▼
CMM Audit Trail Report	Disable ▼
Email Summary Report	Enable ▼
Email Skill Daily Report	Enable ▼
Interval Report	Enable ▼
Email SL Report	Enable ▼
Agent AHT Report	Enable ▼
Pending Email Ageing Report	Enable ▼
Agent Performance Skill Report	Enable ▼
Call Work Report	Enable ▼

Modify Reason*

Save **Cancel**

7.2.2. Agent Settings

From the initial login screen or click on **Home** button on the top right; select **Agent Settings** → **Create**.



Configure the agent as below:

1. **User Name** - Enter user windows account name
2. **First Name** - Enter user first name
3. **Last Name** – Enter user last name
4. **Team** – Select team user is under
5. **Profile** – Select **Agent** or **Supervisor**
6. **Avaya LoginID** – Enter LoginID configured on Communication Manager
7. **Supervisor** – Select Supervisor user account
8. **Features** – Select features desired
9. **Total Tabs** – Enter total number of tabs for agent that include voice, chat and email
10. **Total Voice Tabs** – Enter number of Voice calls agent can handle
11. **Total Chat Tabs** – Enter number of Chats agent can handle
12. **Total Email Tabs** – Enter number of Emails agent can handle
13. **Auto-In/Manual-In** – Select agent be in Auto-In or Manual-In after login
14. **Auto answer all ACD calls** – Incoming calls will be auto-answered if selected
15. **Go to ACW after any calls** – As the name implies

The screenshot of a typical agent is illustrated on next page.

Agent Settings

User Name*	<input type="text" value="tmacuser"/>
First Name*	<input type="text" value="Tmac"/> <input type="button" value="A"/>
Last Name	<input type="text" value="User"/>
Team	<input type="text" value="Tetherfi"/> ▼
Profile	<input checked="" type="radio"/> Agent <input type="radio"/> Supervisor
Avaya LoginID	<input type="text" value="11002"/>
Supervisor *	<input type="text" value="Admin User"/> ▼
Features	<input checked="" type="checkbox"/> Voice <input checked="" type="checkbox"/> Email <input checked="" type="checkbox"/> SMS <input checked="" type="checkbox"/> Text Chat <input checked="" type="checkbox"/> Video Chat
Total Tabs *	<input type="text" value="20"/>
Total Voice Tabs*	<input type="text" value="10"/>
Total Chat Tabs *	<input type="text" value="5"/>
Total Email Tabs *	<input type="text" value="5"/>
	<input checked="" type="radio"/> Auto-In <input type="radio"/> Manual-In
	<input checked="" type="checkbox"/> Go to ACW after each ACD calls
	<input type="checkbox"/> Auto answer all ACD calls
	<input type="checkbox"/> Go to ACW after any calls
	<input type="button" value="Save"/> <input type="button" value="Cancel"/>

8. Verification Steps

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

8.1. Verify Avaya Communication Manager

Verify the status of the administered TSAPI CTI link by using the **status aesvcs cti-link** command. The **Service State** field should display **established**.

```
status aesvcs cti-link
```

AE SERVICES CTI LINK STATUS						
CTI Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Rcvd
1		no		down	0	0
2		no		down	0	0
3	7	no	aes6x	established	861	861

8.2. Verify Avaya Application Enablement Services

From the Welcome to OAM web pages, verify the status of the TSAPI Service by selecting **Status**. The **State** field for the **TSAPI Service** should display **ONLINE**.

The screenshot shows the Avaya Application Enablement Services Management Console. The top right corner displays system information: Welcome: User devconnect, Last login: Wed Dec 9 10:32:14 2015 From 192.168.100.18, Number of prior failed login attempts: 0, HostName/IP: aes6x/10.1.10.70, Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE, SW Version: 6.3.3.4.10-0, Server Date and Time: Wed Dec 09 11:18:59 SGT 2015, HA Status: Not Configured.

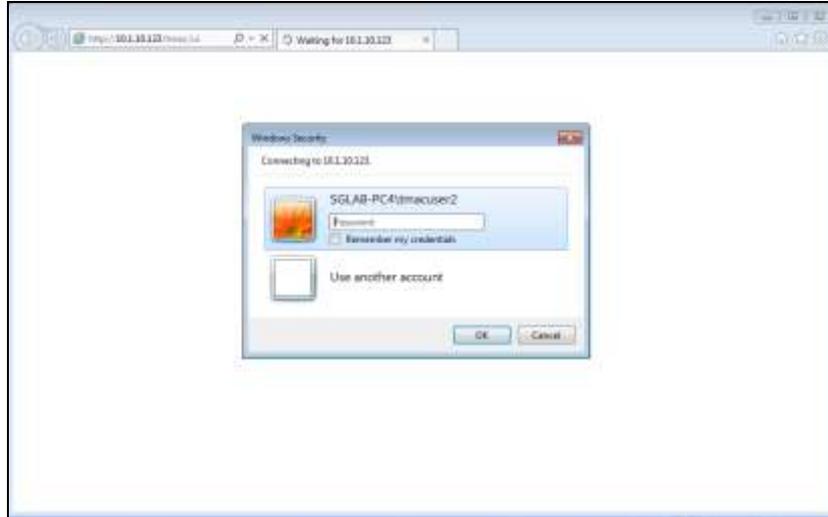
The main content area is titled "Services Summary" and shows the server uptime as 41 day(s), 18 hour(s), 09 minute(s). A table lists the services and their status:

Service	State	Since	Cause
CVLAN Service	ONLINE	2015-10-28 17:14:54	NORMAL
DLG Service	OFFLINE *	2015-10-28 17:14:50	NO_LICENSE_ACQUIRED
DMCC Service	ONLINE	2015-10-28 17:14:56	NORMAL
TSAPI Service	ONLINE	2015-11-24 16:21:06	NORMAL

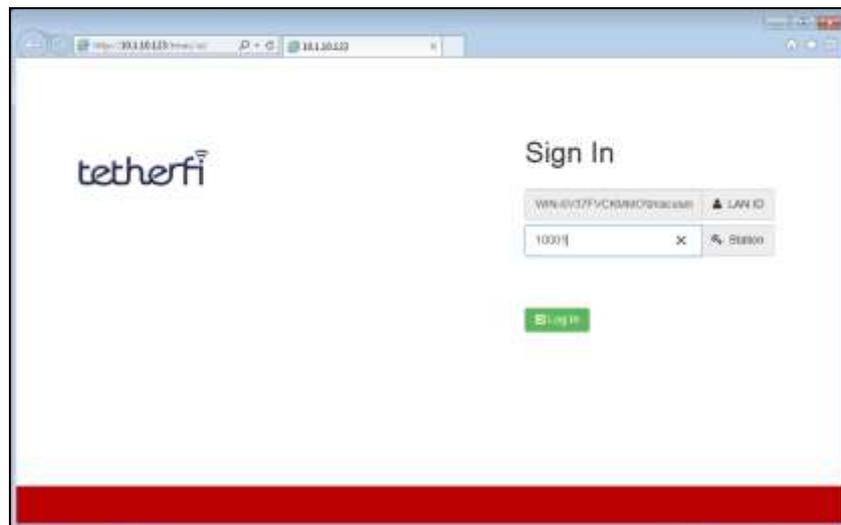
* The state of the CVLAN and DLG services can either be ONLINE or OFFLINE. Also, the OFFLINE status would appear either until a link is administered or a valid license is acquired.

8.3. Verify Tetherfi Multimedia Agent Client

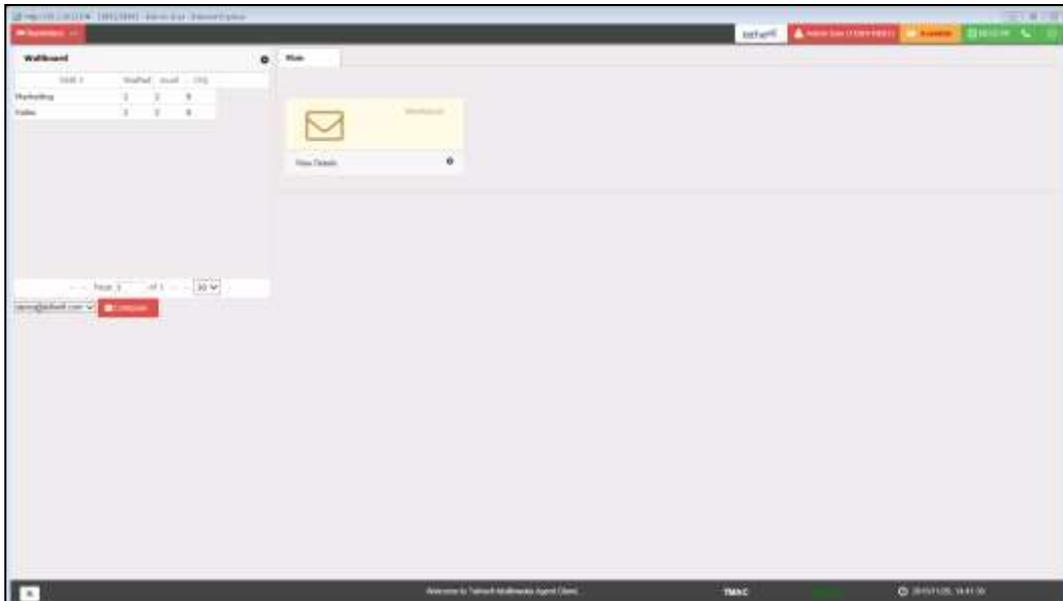
Launch a web browser on the agent PC and enter address **http://<IP address of OCM>/tmac/ui** to access the TMAC. Log in to an agent user account in **password** box.



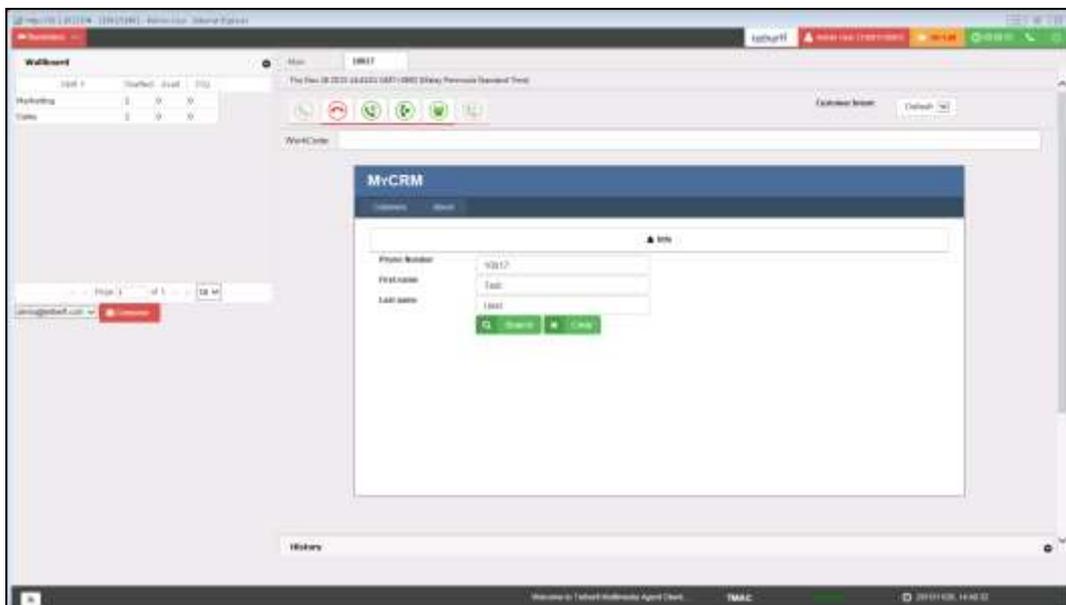
On the next screen that pop-up, enter an available station number as below and in this case **10001**.



The agent will be in **default** mode. Change the agent to **Available** mode by clicking on the mode and select (not shown). The agent login station **10001** and loginID **11001** is also displayed. Skills assigned to agent are shown on left **Wallboard** along with the real-time queue status.



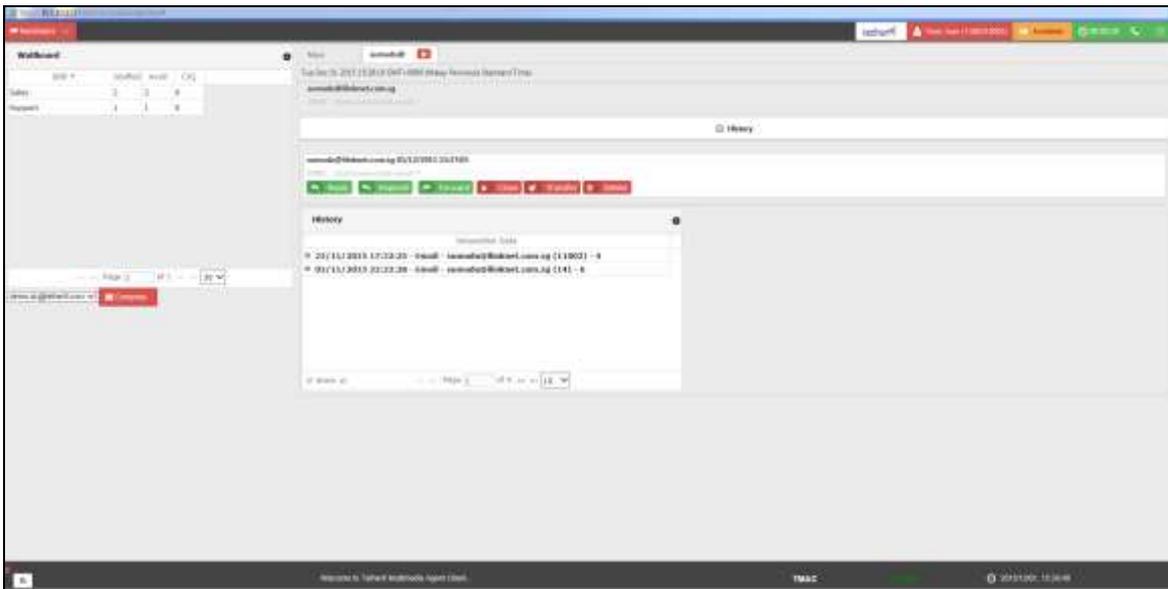
Make an incoming call to the agent. Verify the agent desktop is now highlighted with call control functionality (onhook, call hold, consult transfer and conference) visible at the top middle of the interface. The **ANI** details is presented and the **On Call** mode is displayed on the top right bar. Verify also on the same place that the **Duration** timer is counting.



Put the call on hold by pressing the **Hold** soft button. Verify the green **Unhold** soft button is displayed and the **Hold** timer is counting.



Send an email to the OCM and verify that the appropriate agent with the relevant skill for handling that email is able to see it and handle it.



9. Conclusion

These Application Notes describe the configuration steps required for Tetherfi Multimedia Client to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services using the Telephony Services Application Programming Interface (TSAPI). All feature test cases were completed successfully.

10. Additional References

This section references the Avaya and Tetherfi documentations that are relevant to these Application Notes.

The following Avaya product documentations can be found at <http://support.avaya.com>.

[1] *Avaya Aura® Application Enablement Services Administration and Maintenance Guide*, Document Number 02—300357, Release 6.3, Jun 2014.

[2] *Avaya Aura® Avaya Communication Manager Feature Description and Implementation*, Document Number 555-245-205, Issue 12, Jun 2015.

Tetherfi product documentations can be obtained from Interlink Network Systems.

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