



## Avaya Solution & Interoperability Test Lab

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# **Application Notes for British Telecom Trading Platform 9.7 with Avaya Aura® Session Manager 10.1 and Avaya Aura® Communication Manager 10.1 - Issue 1.0**

## **Abstract**

These Application Notes describe the configuration steps required to integrate British Telecom Trading Platform 9.7 with Avaya Aura® Session Manager 10.1 and Avaya Aura® Communication Manager 10.1. British Telecom Trading Platform is a SIP endpoint management solution that registers with Avaya Aura® Session Manager as SIP endpoints.

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 required to successfully integrate British Telecom (BT) Trading Platform 9.7 with Avaya Aura® Session Manager 10.1 and Avaya Aura® Communication Manager 10.1. The BT Trading Platform is a SIP endpoint management solution that uses Avaya Aura® Session Manager to route calls between Avaya Aura® Communication Manager and BT Trading Turrets.

British Telecom (BT) Trading Platform consists of a set of BT Trading Turrets, a Turret Support Server (TSS), and a Turret Proxy to Open Line Dealing Server (TPO). The BT Trading Turrets register as SIP endpoints with Avaya Aura® Session Manager.

- **TSS server:** It provides security extensions, end user profiles management, hunt group, and bridge to middle-office applications.
- **BT Trading Turret:** The BT Trading Turret is SIP-based VoIP trading phone.
- **Turret Proxy to Open Line Dealing Server (TPO):** The TPO server serves as a proxy phone between a remote place extension and the local IP Trade end-users (turrets). When the local IP Trade end-users dial to the TPO proxy number of a remote place, the users can speak publicly or privately to that remote place. In these Application Notes, the TPO server registers one SIP endpoint as the proxy phone with Avaya Aura® Session Manager.

## 2. General Test Approach and Test Results

The general test approach was to configure the BT Trading Turrets to communicate with the Session Manager as third-party SIP endpoints.

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 these DevConnect Application Notes 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 the BT Trading Platform did not include use of any specific encryption features as requested by British Telecom.

This test was conducted in a lab environment simulating a basic customer enterprise network environment. The testing focused on the standards-based interface between the Avaya solution and the third-party solution. The results of testing are therefore considered to be applicable to either a premise-based deployment or to a hosted or cloud deployment where some elements of the third-party solution may reside beyond the boundaries of the enterprise network, or at a different physical location from the Avaya components.

Readers should be aware that network behaviors (e.g., jitter, packet loss, delay, speed, etc.) can vary significantly from one location to another and may affect the reliability or performance of the overall solution. Different network elements (e.g., session border controllers, soft switches, firewalls, NAT appliances, etc.) can also affect how the solution performs.

If a customer is considering implementation of this solution in a cloud environment, the customer should evaluate and discuss the network characteristics with their cloud service provider and network organizations and evaluate if the solution is viable to be deployed in the cloud.

The network characteristics required to support this solution are outside the scope of these Application Notes. Readers should consult the appropriate Avaya and third-party documentation

for the product network requirements. Avaya makes no guarantee that this solution will work in all potential deployment configurations.

## **2.1. Interoperability Compliance Testing**

The interoperability compliance test included both feature functionality and serviceability testing. The feature functionality testing focused on carrying out different call scenarios with good quality audio. The tests included:

- Successful registration of BT Trading Turret with Session Manager using a TCP connection.
- Calls between BT Trading Turret and Avaya SIP, H.323, and digital telephones.
- G.711A, G.711U codecs support and negotiation, with and without media shuffling.
- Basic features including making an audio call, answer, hang up, music on hold, DTMF transmission, and feature access code dialing.
- Call features including Hold, Transfers and Conference.
- Basic video between Avaya Workplace Client and BT Trading Turrets.
- Proper system recovery after removal and reconnection of LAN cable.

## **2.2. Test Results**

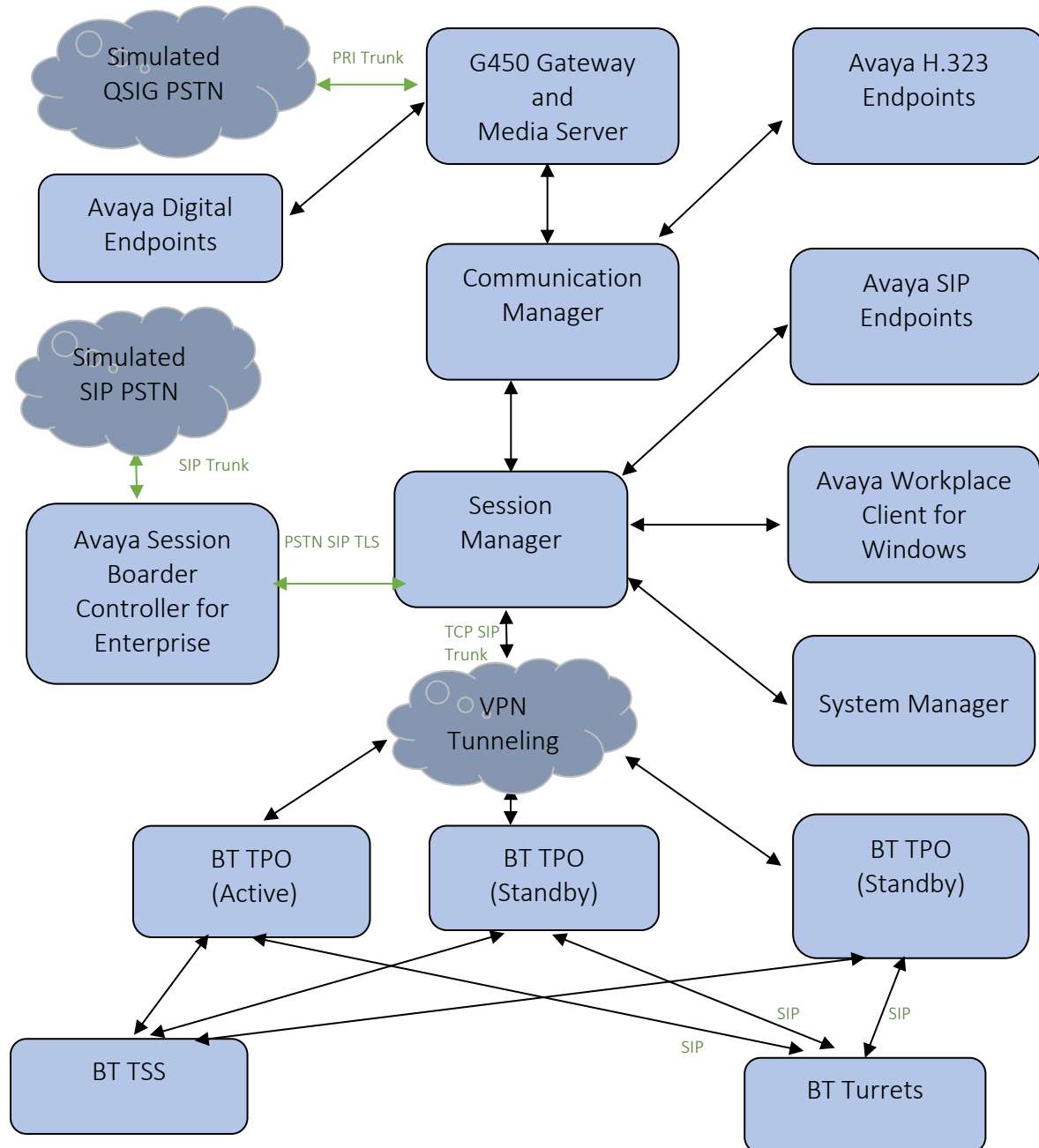
The testing was successful. All the test cases passed.

## **2.3. Support**

For technical support on BT Trading Platform, contact:  
Email: [Unified.Trading.interop.team@bt.com](mailto:Unified.Trading.interop.team@bt.com)

### 3. Reference Configuration

The configuration shown in **Figure 1** was used during the compliance test of BT Trading Platform with Session Manager and Communication Manager. BT Trading Platform manages BT Trading Turrets by registering with Avaya Session Manager and allowing communication with Avaya phones.



**Figure 1: Connection of BT Trading Platform with Avaya Aura® Session Manager and Avaya Aura® Communication Manager**

## 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 in Virtual Environment	10.1.0.2
Avaya Aura® Session Manager in Virtual Environment	10.1.0.2
Avaya Aura® Communication Manager in Virtual Environment	10.1.0.2
Avaya G450 Media Gateway <ul style="list-style-type: none"><li>• MGP</li></ul>	41.16.30
Avaya Aura® Media Server in Virtual Environment	10.1.0.1
Avaya Session Border Controller for Enterprise in Virtual Environment	10.1.0.0
9641G and J159 IP Deskphone (H.323)	6.8.5
Avaya Workplace Client for Windows	3.29.0.54
Avaya J159 and J179 IP Deskphone (SIP)	4.0.21
Avaya 1408 Digital Deskphone	2.0 Service Pack 9 (R20)
BT Trading Platform Turret Support Server (TSS) <ul style="list-style-type: none"><li>• Firmware</li><li>• Bootstrap</li></ul>	R9.7.7.56402 R9.7.7.56384

BT TPO with Redundancy Mode Session Persistency	
<ul style="list-style-type: none"> <li>Firmware</li> <li>Bootstrap</li> </ul>	R9.7.7.56377 R9.7.7.56385
BT Trading Turrets	
BT TouchPro <ul style="list-style-type: none"> <li>Firmware</li> <li>Bootstrap</li> </ul>	R9.7.7.56382 R9.7.7.56372
BT FlexPro Version	R9.7.7.56382

## 5. Configure Avaya Aura® Communication Manager

This section describes the steps required to allow Communication Manager to communicate with the BT Trading Platform. It is assumed that Communication Manager is installed and configured before implementing the configuration steps. 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 the Communication Manager System Administration Terminal (SAT).

Configuration steps include:

- Check Off PBX Station Licensing.
- SIP Trunk Administration (to Session Manager).
- Adding Route Pattern.

### 5.1. Checking Licensing

Using the *display system-parameters customer-options* command go to **Page 1** and check that the system is sufficiently licensed for **Off-PBX Telephones -OPS**.

display system-parameters customer-options		Page 1 of 12
OPTIONAL FEATURES		
G3 Version: V20	Software Package: Enterprise	
Location: 2	System ID (SID): 1	
Platform: 28	Module ID (MID): 1	
USED		
Platform Maximum Ports:	48000	2047
Maximum Stations:	36000	24
Maximum XMOBILE Stations:	36000	0
Maximum Off-PBX Telephones - EC500:	41000	0
Maximum Off-PBX Telephones - OPS:	41000	19
Maximum Off-PBX Telephones - PBFMC:	41000	0
Maximum Off-PBX Telephones - PVFMC:	41000	0
Maximum Off-PBX Telephones - SCCAN:	0	0
Maximum Off-PBX Telephones - EMX:	36000	0
Maximum Survivable Processors:	313	0
(NOTE: You must logoff & login to effect the permission changes.)		



## 5.2. Adding a SIP Trunk to Session Manager

Use the *change node-names ip* command to associate an IP address with Session Manager.

change node-names ip		Page 1 of 2
		IP NODE NAMES
Name	IP Address	
default	0.0.0.0	
procr	10.30.5.121	
procr6	:	
ams122	10.30.5.122	
<b>smsip127</b>	<b>10.30.5.127</b>	

Use *change dialplan analysis* to add a **3**-digit dial access code (**dac**) for use in the SIP trunk, a uniform dial plan (**udp**) entry for calling out over the SIP trunk and check that there is an entry for feature access codes (**fac**).

change dialplan analysis		Page 1 of 12
		change dialplan analysis
Page 1 of 12	DIAL PLAN ANALYSIS TABLE	
		Location: all Percent Full: 2
Dialed String	Total Call Length Type	Dialed String Total Call Length Type
02	11 udp	
09	10 udp	
7	5 ext	
<b>38</b>	<b>7 udp</b>	
<b>*</b>	<b>3 fac</b>	
<b>#</b>	<b>3 dac</b>	

Use **add-signaling-group x** where x is the number of the group required. Set **Transport Method** to **tls**, **Near-end Node Name** to **procr** and **Far-end Node Name** to the Session Manager entry added in **node-names**. Set the **Far-end Network Region** to the network region that will be used for the integration, in the compliance testing using network region **1**, **Direct IP-IP Audio Connections** to **y** and the **Initial IP-IP Direct Media** to **y**.

<b>add signaling-group 2</b>		Page 1 of 3
change signaling-group 2		
Page 1 of 3		
SIGNALING GROUP		
Group Number: 2	Group Type: sip	
IMS Enabled? n	<b>Transport Method: tls</b>	
Q-SIP? n		
IP Video? y	Priority Video? y	Enforce SIPS URI for SRTP? y
Peer Detection Enabled? n	Peer Server: SM	Clustered? n
Prepend '+' to Outgoing Calling/Alerting/Diverting/Connected Public Numbers? y		
Remove '+' from Incoming Called/Calling/Alerting/Diverting/Connected Numbers? n		
Alert Incoming SIP Crisis Calls? n		
<b>Near-end Node Name: procr</b>	<b>Far-end Node Name: smsip127</b>	
Near-end Listen Port: 5061	Far-end Listen Port: 5061	
	<b>Far-end Network Region: 1</b>	
Far-end Domain: hcm.com		
Incoming Dialog Loopbacks: eliminate		Bypass If IP Threshold Exceeded? n
DTMF over IP: rtp-payload		RFC 3389 Comfort Noise? n
Session Establishment Timer(min): 3	<b>Direct IP-IP Audio Connections? y</b>	
Enable Layer 3 Test? y	IP Audio Hairpinning? y	
H.323 Station Outgoing Direct Media? y	<b>Initial IP-IP Direct Media? y</b>	
	Alternate Route Timer(sec): 6	

Use **add trunk-group x**, where x is the number administered for the signaling group. On **Page 1**, set the **Group Type** to **sip**. Set the **TAC** to suitable entry based on the dial plan **dac** administered above. Set the **Service Type** to **tie**, **Signaling Group** to the one administered above and **Number of Members** to a number satisfactory for call routing required (**255** shown is the max for this type of trunk group).

<b>add trunk-group 2</b>		Page 1 of 5
TRUNK GROUP		
Group Number: 2	<b>Group Type: sip</b>	CDR Reports: y
Group Name: Aura	COR: 1	TN: 1
Direction: two-way	Outgoing Display? n	<b>TAC: #02</b>
Dial Access? n	Night Service:	
Queue Length: 0		
<b>Service Type: tie</b>	Auth Code? n	
	Member Assignment Method: auto	
	<b>Signaling Group: 2</b>	
	<b>Number of Members: 255</b>	

On **Page 2** set the **Preferred Minimum Session refresh Interval (sec)** to **1800** as this is a time greater than the BT Trading Platform refresh interval.

add trunk-group 2 Group Type: sip	Page 2 of 5
TRUNK PARAMETERS	
Unicode Name: auto	
Redirect On OPTIM Failure: 5000	
SCCAN? n	Digital Loss Group: 18
<b>Preferred Minimum Session Refresh Interval(sec): 1800</b>	
Disconnect Supervision - In? y Out? y	
XOIP Treatment: auto Delay Call Setup When Accessed Via IGAR? n	
Caller ID for Service Link Call to H.323 1xC: station-extension	

On **Page 3** set the **Numbering Format**. For this test the **private** numbering table were used to set the calling party number format.

add trunk-group 2 TRUNK FEATURES	Page 3 of 5
ACA Assignment? n	Measured: none
	Maintenance Tests? y
Suppress # Outpulsing? n	<b>Numbering Format: private</b>
	UII Treatment: shared
	Maximum Size of UII Contents: 128
	Replace Restricted Numbers? n
	Replace Unavailable Numbers? n
	Hold/Unhold Notifications? y
Send UCID? y	Modify Tandem Calling Number: no
Show ANSWERED BY on Display? y	
DSN Term? N	

### 5.3. Adding a Route Pattern

A route pattern needs to be added so that call can be routed out of Communication Manager to Session Manager. use ***change route-pattern x*** where **x** is the number of route-pattern. Enter the trunk group created above beside the first **Grp No** and **FRL** of **0**.

change route-pattern 2										Page 1 of 4		
		Pattern Number: 2				Pattern Name: Aura						
SCCAN? n		Secure SIP? n				Used for SIP stations? n						
<b>Grp FRL</b>		NPA	Pfx	Hop	Toll	No.	Inserted		DCS/ IXC			
<b>No</b>		Mrk	Lmt	List	Del	Digits		QSIG				
						Dgts		Intw				
1:	2	0								n	user	
2:											n	user
3:											n	user
4:											n	user
5:											n	user
6:											n	user
		BCC	VALUE	TSC	CA-TSC	ITC	BCIE	Service/Feature	PARM	Sub	Numbering	LAR
		0	1	2	M	4	W	Request		Dgts	Format	
1:		y	y	y	y	y	n	n			lev0-pvt	none
2:		y	y	y	y	y	n	n				none
3:		y	y	y	y	y	n	n				none
4:		y	y	y	y	y	n	n				none
5:		y	y	y	y	y	n	n				none
6:		y	y	y	y	y	n	n				none

An Automatic Alternate Routing (AAR) entry must be made for dialing numbers that are to be routed to BT Trading Platform. Use ***change aar analysis x*** where **x** is the first number in the dialed string. Set **Dialed String** to **x**, **Total Min/Max** to the length of the number to be dialed, **Route Pattern** to the one administered above and **Call Type** to **lev0**.

change aar analysis 2							Page 1 of 2	
AAR DIGIT ANALYSIS TABLE								
Location: all							Percent Full: 2	
	Dialed	Total		Route	Call	Node	ANI	
	String	Min	Max	Pattern	Type	Num	Reqd	
7		5	5	2	lev0		n	

## 5.4. Configure IP Codec Set

Enter the change *ip-codec-set x* command where x is the number codec set associated with the network region used by the sip signaling group used for the integration, on **Page 2** and set **Allow Direct-IP Multimedia** to **y** and update **Maximum Call Rate for Direct-IP Multimedia** and **Maximum Call Rate for Priority Direct-IP Multimedia** to **15360**.

```
change ip-codec-set 1                                     Page 2 of 2

IP MEDIA PARAMETERS

Allow Direct-IP Multimedia? y
Maximum Call Rate for Direct-IP Multimedia: 15360:Kbits
Maximum Call Rate for Priority Direct-IP Multimedia: 15360:Kbits

FAX          Mode          Redun-          Packet
              relay         dancy          Size (ms)
Modem         off           0
TDD/TTY       US           3
H.323 Clear-channel n           0
SIP 64K Data  n             0           20

Media Connection IP Address Type Preferences
1: IPv4
2:
```

## 6. Configure Avaya Aura® Session Manager

In this section, the configuration steps required to connect BT Trading Platform to Session Manager as a SIP endpoint is described. It is assumed that an existing Session manager instance has already been installed and configured as this is out with the scope of this document. All Configuration steps were carried out using System Manager. Configuration steps will include:

- Configure SIP User
- Adding BT Trading cluster TPO's to Local Host Name Resolution.
- Adding BT Trading cluster FQDN to SIP Entity with Type Endpoint Concentrator.

### 6.1. Configure SIP User

A SIP user must be added for each BT Trading Turret required. Navigate to the System Manager web interface, in this case <https://<IP Address>/SMGR> and login with the relevant credentials.

Recommended access to System Manager is via FQDN.

[Go to central login for Single Sign-On](#)

If IP address access is your only option, then note that authentication will fail in the following cases:

- First time login with "admin" account
- Expired/Reset passwords

Use the "Change Password" hyperlink on this page to change the password manually, and then login.

Also note that single sign-on between servers in the same security domain is not supported when accessing via IP address.

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This system is restricted solely to authorized users for legitimate business purposes only. The actual or attempted unauthorized access, use, or modification of this system is strictly prohibited.

Unauthorized users are subject to company disciplinary procedures and or criminal and civil penalties under state, federal, or other applicable domestic and foreign laws.

The use of this system may be monitored and recorded for administrative and security reasons. Anyone accessing this system expressly consents to such monitoring and recording, and is advised that if it reveals possible evidence of criminal activity, the evidence of such activity may be provided to law enforcement officials.

All users must comply with all corporate instructions regarding the protection of information assets.

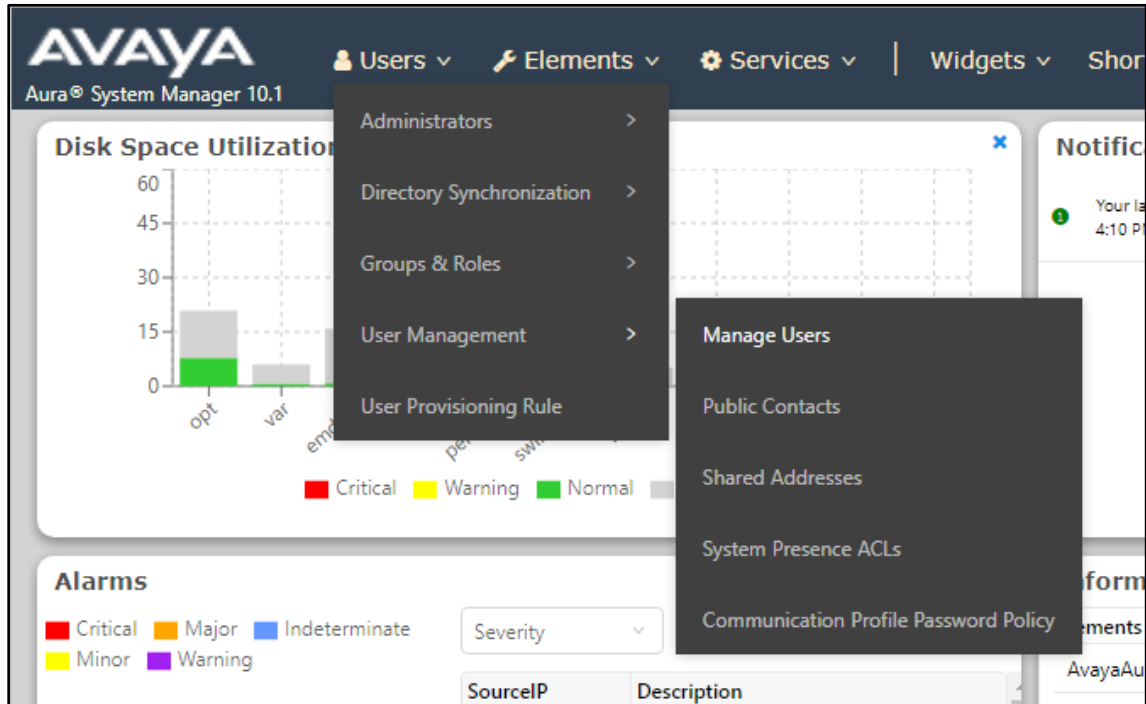
User ID:

Password:

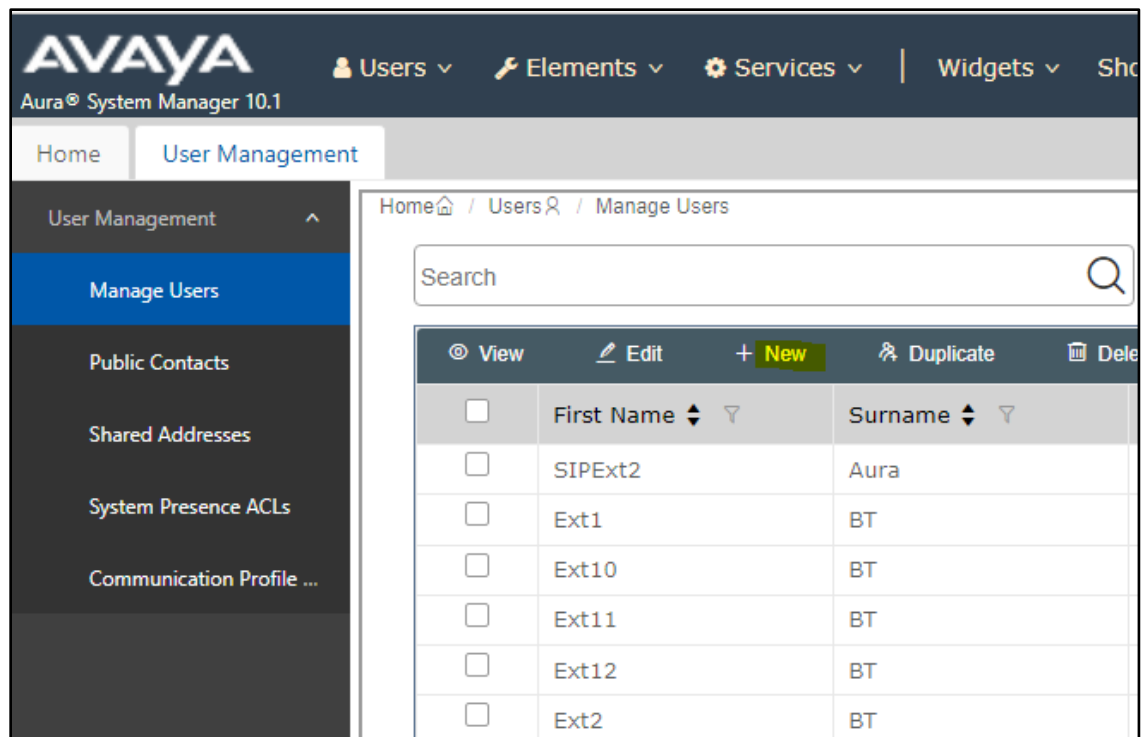
[Change Password](#)

**Supported Browsers:** Internet Explorer 11.x or Firefox 59.0, 60.0 and 61.0.

From the Dashboard, select **Users** → **User Management** → **Manage Users**.



Select **New**.



On the **Identity** tab, enter an identifying **Last Name** and **First Name**, enter an appropriate **Login Name**, and administer a password in the **Password** and **Confirm Password** fields.

The screenshot shows the 'Identity' tab of a user management system. The left sidebar has 'Basic Info' selected. The main area contains the following fields:

- User Provisioning Rule:** DevConnect (dropdown)
- \* Last Name:** BT
- Last Name (in Latin alphabet):** BT
- \* First Name:** Ext1
- First Name (in Latin alphabet):** Ext1
- \* Login Name:** 71009@devconnect.c
- Middle Name:** Middle Name Of User
- Description:** Description Of User
- Email Address:** Email Address Of User
- Password:** [masked]
- User Type:** Basic (dropdown)
- \* Confirm Password:** [empty]
- Localized Display Name:** BT, Ext1
- Endpoint Display Name:** BT, Ext1
- Title Of User:** admin

Click on the **Communication Profile** tab and enter and confirm a **Comm-Profile Password**, this is used when logging in the SIP endpoint.

The screenshot shows a 'Comm-Profile Password' dialog box with the following fields and controls:

- Comm-Profile Password:** [masked]
- \* Re-enter Comm-Profile Password:** [masked] (with a green checkmark icon)
- Generate Comm-Profile Password:** (blue link)
- Buttons:** Cancel, OK



Click on the **Communication Address**, select **New**.

The screenshot shows a web interface with four tabs: Identity, Communication Profile, Membership, and Contacts. The 'Communication Profile' tab is active. On the left, there is a sidebar with 'Communication Profile Password' and 'PROFILES'. Under 'PROFILES', 'Communication Address' is selected. The main area displays a table with columns for selection, Type, and Handle. A '+ New' button is highlighted in green above the table. The table is currently empty, showing 'No data'.

Select **Avaya SIP** from the **Type** drop down box and enter the **Fully Qualified Address** of the new SIP user. Click **OK** when done.

The dialog box contains two required fields. The first field, labeled '\* Type:', is a dropdown menu with 'Avaya SIP' selected. The second field, labeled '\*Fully Qualified Address:', consists of a text box containing '71009', followed by an '@' symbol, and another dropdown menu with 'devconnect.com' selected. At the bottom right, there are 'Cancel' and 'OK' buttons.

Continue to scroll down on the same page. Enable **Session Manager Profile** (not shown) and enter the **Primary Session Manager**, **Origination Sequence**, **Termination Sequence** and **Home Location** (not shown) relevant to the implementation.

**SIP Registration**

\* Primary Session Manager :

SM126SIP

Q

Secondary Session Manager :

Start typing...

Q

Survivability Server :

Start typing...

Q

Max. Simultaneous Devices :

3

▼

Block New Registration When Maximum Registrations  
Active? :

☐

**Application Sequences**

Origination Sequence :

CM121

▼

Termination Sequence :

CM121

▼

**Emergency Calling Application Sequences**

Emergency Calling Origination Sequence :










Select

▼

Scroll down the page and enable **CM Endpoint Profile** section. Select the Communication Manager system from the **System** drop down box, select **Endpoint** as the **Profile Type**, enter the **Extension** number that used as part of the **Fully Qualified Address** of the new SIP user above, select **J179\_DEFAULT\_CM\_10\_1** as the **Template** and ensure **IP** is configured as the **Port**, click **Commit & Continue** when finished.

Click on **Endpoint Editor** in the **CM Endpoint Profile**, click on **Feature Options (F)** tab (not shown), scroll down and check **IP Softphones** and **IP Video Softphone**. Click on **Done** (not shown) to save changes and go back to the User Communication Profile screen.

Click on **Commit** to save the user. The user is now listed. In this compliance testing, eight BT Users were created.

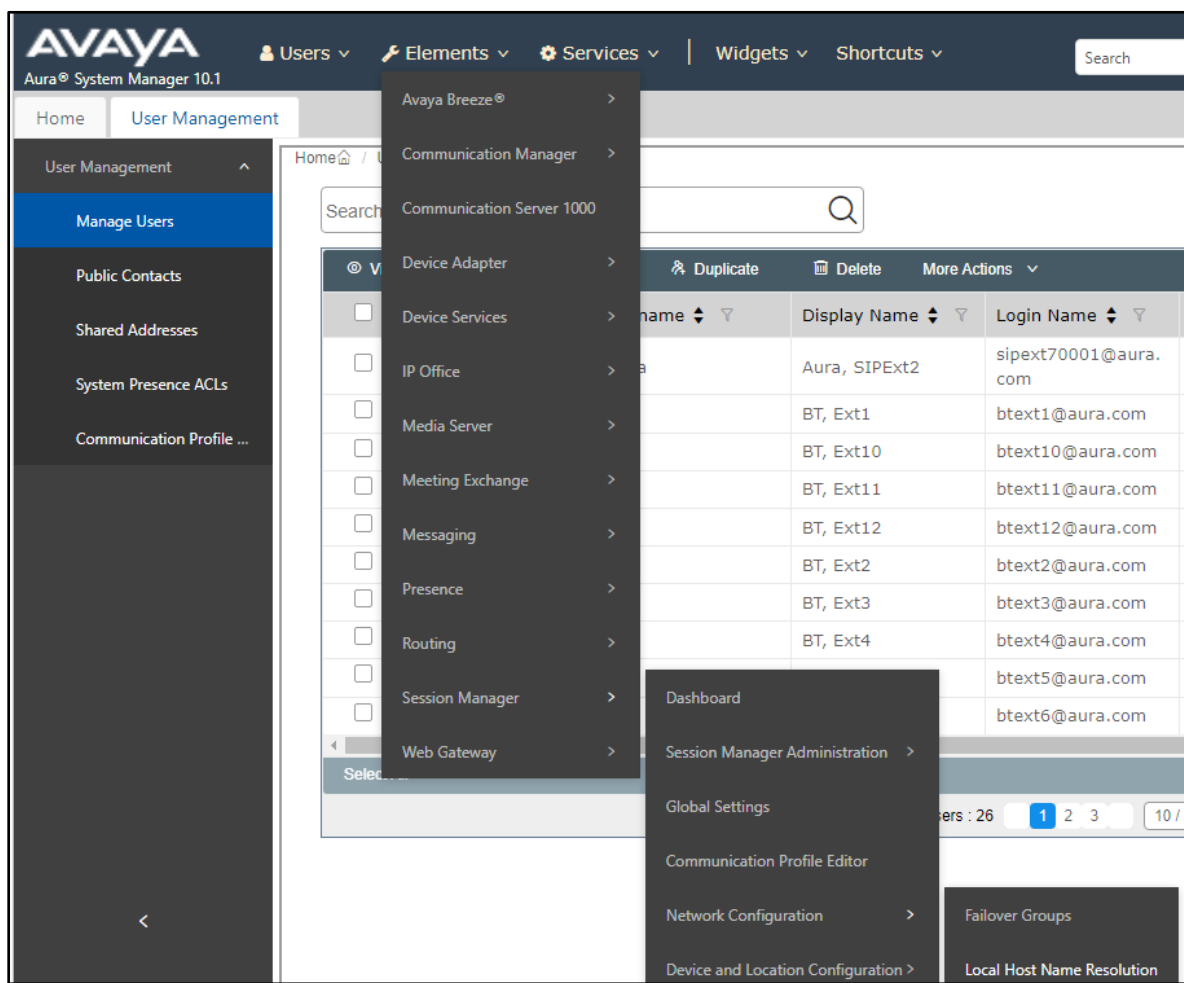
<input type="checkbox"/>	First Name  	Surname  	Display Name  	Login Name  	SIP Handle 
<input type="checkbox"/>	Ext1	BT	BT, Ext1	btext1@aura.com	+848300071001
<input type="checkbox"/>	Ext2	BT	BT, Ext2	btext2@aura.com	+848300071002
<input type="checkbox"/>	Ext3	BT	BT, Ext3	btext3@aura.com	+848300071003
<input type="checkbox"/>	Ext4	BT	BT, Ext4	btext4@aura.com	+848300071004
<input type="checkbox"/>	Ext5	BT	BT, Ext5	btext5@aura.com	+848300071005
<input type="checkbox"/>	Ext6	BT	BT, Ext6	btext6@aura.com	+848300071006
<input type="checkbox"/>	Ext7	BT	BT, Ext7	btext7@aura.com	+848300071007
<input type="checkbox"/>	Ext8	BT	BT, Ext8	btext8@aura.com	+848300071008

## 6.2. Adding BT Trading Platform TPO's to Session Manager Local Host Name Resolution

The Session Manager Local Host Names Resolution (LHNR) table is a DNS table used locally by Session Manager. When Session Manager looks at the SIP Entity IP/FQDN field it will attempt to resolve any DNS name in that field first in the LHNR table prior any attempt to resolve it with an external DNS server.

Add all three BT Platform Server IP addresses to the LHNR table giving them both the same Local Host Name. Give the third BT Platform Server IP address a priority of 300, Secondary BT Platform Server IP address a priority of 200 and the Primary BT Platform Server IP address a priority of 100. This will allow traffic to route to the primary BT Platform Server in the event of a WAN link failure between the primary BT Platform Server and two other servers. This will also allow the proper routing of traffic to the second/third BT Platform Server in the case of a primary BT Platform Server outage.

From SMGR Dashboard, go to **Elements** → **Session Manager** → **Network Configuration** → **Local Host Name Resolution**.



Click on **New** and enter all BT Servers as below.

**New Local Host Name Entries**

CommitCancel

**New Local Host Name Entries**

<input type="checkbox"/>	Host Name (FQDN)	IP Address	Port	Priority	Weight	Transport
<input checked="" type="checkbox"/>	btcluster.avaya.com	172.27.130.3	5060	100	100	TCP
<input checked="" type="checkbox"/>	btcluster.avaya.com	172.27.130.4	5060	200	100	TCP
<input checked="" type="checkbox"/>	btcluster.avaya.com	172.27.130.5	5060	300	100	TCP
<input type="checkbox"/>				400	100	TLS
<input type="checkbox"/>				500	100	TLS
<input type="checkbox"/>				600	100	TLS

Press **Commit** to save.

### 6.3. Adding BT Trading Platform Avaya TPO cluster FQDN name to SIP Entity with Type Endpoint Concentrator

Go to **Elements** → **Routing** → **SIP Entities**. Click **New**.

**AVAYA**

Users ▾Elements ▾Services ▾ | Widgets ▾Shortcuts ▾

Aura® System Manager 10.1

Search

HomeUser ManagementRouting

Routing

Domains

Locations

Conditions

Adaptations ▾

SIP Entities

Entity Links

Time Ranges

Routing Policies

**SIP Entities**

NewEditDeleteDuplicateMore Actions ▾

5 Items

<input type="checkbox"/>	Name	FQDN or IP Address	Type	No
<input type="checkbox"/>	<a href="#">BTCluster</a>	btcluster.avaya.com	Endpoint Concentrator	
<input type="checkbox"/>	<a href="#">CM121</a>	10.30.5.121	CM	
<input type="checkbox"/>	<a href="#">CM125</a>	10.30.5.125	CM	
<input type="checkbox"/>	<a href="#">SM126SIP</a>	10.30.5.127	Session Manager	
<input type="checkbox"/>	<a href="#">SM17SIP</a>	10.128.224.18	Session Manager	

Select : All, None

In **SIP Entity Details**, Choose Type **Endpoint Concentrator**. Enter following information for BT System:

**Name:** Enter an identifying Name for BT Platform Cluster.

**FQDN or IP Address:** Enter BT Trading Host Name configured in **Section 6.2**.

**Entity Links:** Add an **Entity link** with **TCP** protocol and **Port 5060** with Session Manager.

The **SIP Endpoint Concentrator Connection Policy** allows up to 1000 connections on a single IP address. This still requires authentication from REGISTER and INVITE requests but does not enforce the lower TCP connection limit.

**SIP Entity Details**

Commit

Cancel

Help ?

General

\* Name:

BTCluster

\* FQDN or IP Address:

btcluster.avaya.com

Type:

Endpoint Concentrator

Notes:

Minimum TLS Version:

Use Global Setting

Credential name:

Securable:

☐

Entity Links

Override Port & Transport with DNS SRV:

☐

Add

Remove

1 Item

Filter: Enable

<input type="checkbox"/>	Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy	Deny New Service
<input type="checkbox"/>	* DevConnect-SMSIP_BTClu	DevConnect-SMSIP	TCP	* 5060	BTCluster	* 5060	endpt conc	<input type="checkbox"/>

Select : All, None

Commit

Cancel

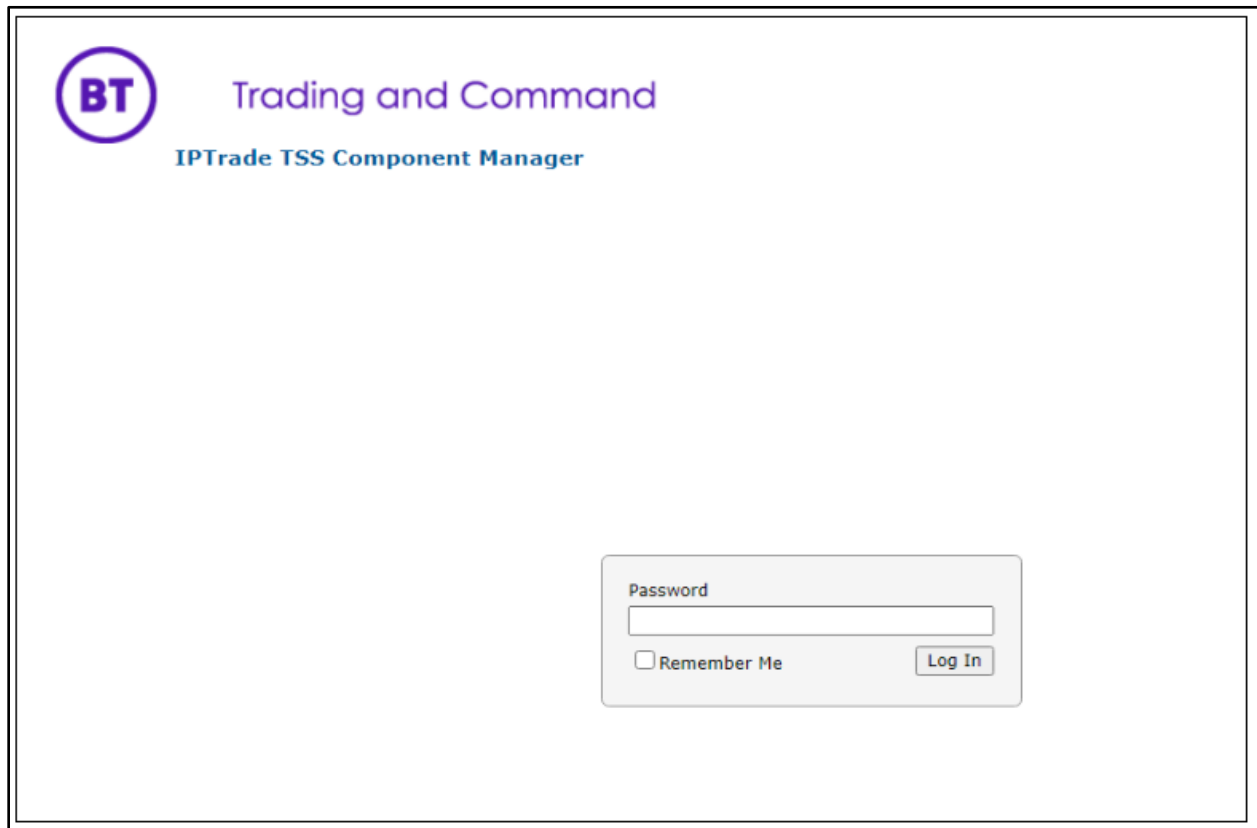
## 7. Configure the BT Trading System

This section addresses the administrative steps to be performed on the BT Trading Platform solution. The installation of the BT Trading Platform solution software, as well as the initial configuration of the turrets and servers, is beyond the scope of this document.

### 7.1. Configure the BT Trading Turret Support Server

This section describes the procedure for configuring the BT Trading Platform Turret Support Server (TSS). This procedure assumes that the TSS has already been configured with an anonymous profile and that a TFTP server (typically co-resident with the TSS) is being used for downloading certain configuration parameters to the turrets.

From a Web browser, navigate to the IP Address of the TSS. Enter the correct password and click on **Log In**.



The screenshot shows a web interface for the BT Trading and Command IPTrade TSS Component Manager. In the top left corner, there is a logo consisting of the letters 'BT' inside a purple circle. To the right of the logo, the text 'Trading and Command' is displayed in purple, and 'IPTrade TSS Component Manager' is displayed in blue below it. In the center of the page, there is a light gray rectangular box containing a login form. The form has a label 'Password' above a text input field. Below the input field, there is a checkbox labeled 'Remember Me' and a 'Log In' button.



From the **TSS Versions** tab select the **Console** link as shown below.

BT Trading and Command

IPTrade TSS Component Manager

TSS Versions TSS OS TSS Bootstrap

Replication Secondary server IP or FQDN:  Set

Default Version 9.7.7.56402 +

	PRIMARY	SECONDARY
Console	<a href="https://Avaya_TSS01.thrdpa.itsnet.bt.com/iptradenet/console">https://Avaya_TSS01.thrdpa.itsnet.bt.com/iptradenet/console</a>	
TSS	<a href="https://Avaya_TSS01.thrdpa.itsnet.bt.com/iptradenet/tss">https://Avaya_TSS01.thrdpa.itsnet.bt.com/iptradenet/tss</a>	

Enter the **User Identifier** and **Password** for the BT Trading system and select **Log In**.

BT Trading and Command

Log In

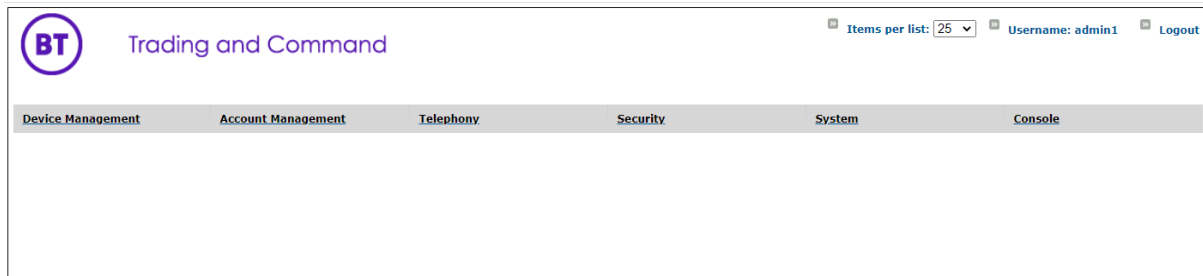
User Identifier

Password

☐ Remember my login on this computer

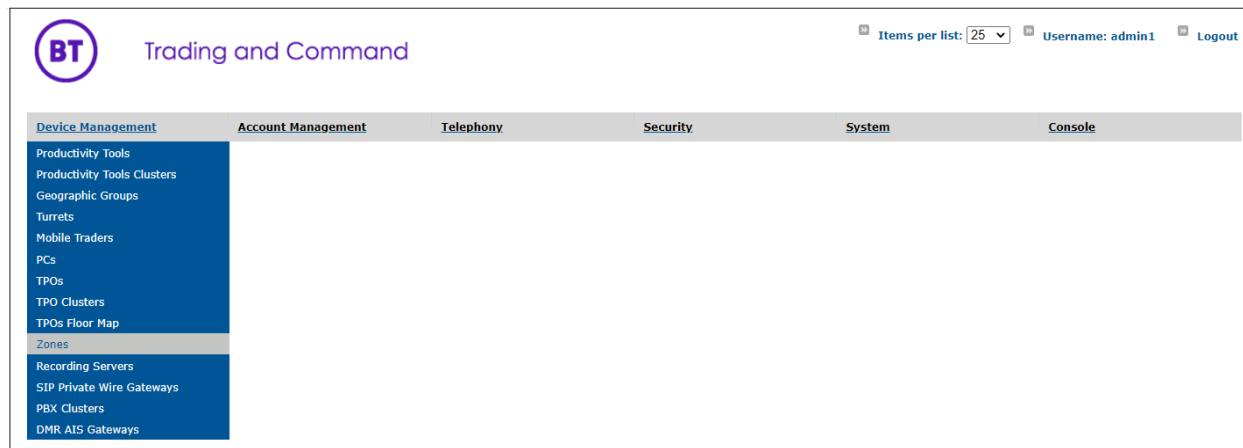
Log In

Upon successful login, the following screen will be presented.



### 7.1.1. Configure Avaya Zone

Select **Device Management** from the top menu bar and then **Zones** from the resulting drop-down box.



Select **Add new** from the Zone menu bar.



Enter a zone name for Avaya here it's **Avaya Aura Zone** and click **Update** (not shown).

BT Trading and Command

Items per list: 25 Username: admin1 Logout

Device Management: Zone Edition

Device Management Account Management Telephony Security System Console

<< Back to Zones list

General

General

Name \* Avaya Aura Zone

Comment Avaya Aura Zone

Location

Country Belgium

State Province de Liège

City Liège

Once Avaya Aura Zone is created the additional tabs will be displayed.

BT Trading and Command

Items per list: 25 Username: admin1 Logout

Device Management: Zone Edition (Avaya Aura Zone)

Device Management Account Management Telephony Security System Console

Zone: Avaya Aura Zone

<< Back to Zones list

General TPO Boot Settings Turret Boot Settings Turrets Mobile Trader TPO TPO Cluster TPO DNS Users Shared Profiles Adv. Telephony

General

Name \* Avaya Aura Zone

Comment Avaya Aura Zone

Location

Country Belgium

State Province de Liège

City Liège

Call Prefix

Recording Server Disabled

Turret WES7 (x64) OS Upgrade Level Default Inherited from global config (0)

TPO WES7 OS Upgrade Level Default Inherited from global config (19)

TPO W10 OS Upgrade Level Default Inherited from global config (0)

Usage

Turrets: DESKDEV42

MobileTrader: none

TPO: AvayaTPO1, AvayaTPO2, AvayaTPO3

Reboot all devices for this zone

Navigate to the **Turret Boot Settings** tab in Avaya Aura Zone, then select **SIP** option **Basic Mode** and enter the Session Manager signalling IP address as **SIP local domain**. Enter other checked parameters as shown below.

Zone: Avaya Aura Zone [<< Back to Zones list](#)

General TPO Boot Settings **Turret Boot Settings** Turrets Mobile Trader TPO TPO Cluster TPO DNS Users Shared Profiles Adv. Telephony

**Turret Boot Settings** + Pre-defined settings

T4 **Basic Mode** Expert Mode Advanced Mode

	Name	Value	Description
PBX Features	<input checked="" type="checkbox"/> Use bulk registration (Cisco only)	<input type="radio"/> true <input checked="" type="radio"/> false	?
	<input type="checkbox"/> MSG Proxy Transport Type	TCP	?
Recorder	<input type="checkbox"/> MSG Encoding		?
RTP	<input checked="" type="checkbox"/> SIP Compatibility mode	ccm50	?
Search	<input checked="" type="checkbox"/> SIP local domain	10.30.5.127	?
Session	<input checked="" type="checkbox"/> SIP Connection mode	TCP	?
Shortcut Notification	<input checked="" type="checkbox"/> SIP Proxy Transport Type	TCP	?
SIP	<input checked="" type="checkbox"/> Fast media connection on SIP Ringing state	<input checked="" type="radio"/> true <input type="radio"/> false	?
SNMP	<input checked="" type="checkbox"/> SIP Local IP Ports	5060	?
Sync	<input type="checkbox"/> Parking mode	<input type="radio"/> tpo <input type="radio"/> adhoc	?
Text messaging	<input type="checkbox"/> SIP Manage Unsolicited messages	<input type="radio"/> true <input type="radio"/> false	?

Navigate to the **Turret Boot Settings** tab and then select the **Advanced Mode** tab.



General TPO Boot Settings **Turret Boot Settings** Turrets Mobile Trader TPO TPO Cluster TPO DNS Users Shared Profiles Adv. Telephony

**Turret Boot Settings** + Pre-defined settings

**Basic Mode** Expert Mode **Advanced Mode**

Parameter *	Value
application.bscg.baseServiceURI	https://Avaya_TSS01.thrdpa.itsnet.bt.com/IptradeNet.TSS.9.7.7
<input type="checkbox"/> application.global.telephony.conference	standard
<input type="checkbox"/> application.mm.DTMFPayloadType	127
<input type="checkbox"/> application.mm.supportedcodecs	0,PCMU,8000 ; 8,PCMA,8000 ; 127,telephone-event,8000
<input type="checkbox"/> application.mm.supportedcodecs.video.H264	97 ° H264 ° 90000 ° profile-level-id=42801E;packetization-mode
<input type="checkbox"/> application.sip.call.fastmediaconnect	true
<input type="checkbox"/> application.sip.connection.mode	TCP
<input type="checkbox"/> application.sip.connection.port	5060
<input type="checkbox"/> application.sip.enableTCP	true
<input type="checkbox"/> application.sip.kpm.enabled	false
<input type="checkbox"/> application.sip.localdomain	10.30.5.127
<input type="checkbox"/> application.sip.non-standard.compatibility	ccm50
<input type="checkbox"/> application.sip.proxy.transporttype	TCP
<input type="checkbox"/> application.sip.register.bulk	false
<input type="checkbox"/> profile.setting.ddi.advanced.handling.on.all	true
<input type="checkbox"/> profile.setting.ddi.conference.mode	Default involved

NOTE: If any of the above advanced parameters are already configured, edit them rather than add. This can be done by either clicking the advanced parameter or by selecting either of the two symbols as shown in the picture below.

<input type="checkbox"/>	<a href="#">application.sip.localdomain</a>	10.30.5.127	 
--------------------------	---	-------------	---

If the advanced parameter is not present, select **Add new**.

**Zone: Avaya Aura Zone** [<< Back to Zones list](#)

General

TPO Boot Settings

**Turret Boot Settings**

Turrets

Mobile Trader

TPO

TPO Cluster

TPO DNS

Users

Shared Profiles

Adv. Telephony

**Turret Boot Settings**

+ Pre-defined settings

T4

Basic Mode

Expert Mode

**Advanced Mode**

Refresh

**Add new**

Bulk admin selected

Provisioning

1 / 1

Now enter the following statement, the IP Address should mirror the Session Manager. In this example, the IP Address is **10.30.5.127**. When complete, select **Update and Go Back**.

Name \*

[<< Back to Zones list](#) > [Avaya Aura Zone](#)

Name \*

application.sip.localdomain

Value

10.30.5.127

Update and Go Back

Reset

Refresh

Cancel

Delete

Finally, ensure that all other advanced parameters are configured as shown below. Add any that are missing by using the same process as above or by using the individual menus.

General

TPO Boot Settings

Turret Boot Settings

Turrets

Mobile Trader

TPO

TPO Cluster

TPO DNS

Users

Shared Profiles

Adv. Telephony

Turret Boot Settings

+ Pre-defined settings

Basic Mode

Expert Mode

Advanced Mode

Refresh

Add new

Bulk admin selected

Provisioning

1 / 1

Parameter \*

Value

application.bscg.alternateServiceURI

https://Avaya\_TSS01.thrdpa.itsnet.bt.com/IptradeNet.TSS.9.7.7

application.global.telephony.conference

standard

application.mm.DTMFPayloadType

127

application.mm.supportedcodecs

0,PCMU,8000 ; 8,PCMA,8000 ; 127,telephone-event,8000

application.mm.supportedcodecs.video.H264

97 ° H264 ° 90000 ° profile-level-id=42801E;packetization-mode=1

application.sip.call.fastmediaconnect

true

application.sip.connection.mode

TCP

application.sip.connection.port

5060

application.sip.enableTCP

true

application.sip.koml.enabled

false

application.sip.localdomain

10.30.5.127

application.sip.non-standard.compatibility

ccm50

application.sip.proxy.transporttype

TCP

application.sip.register.bulk

false

profile.setting.ddl.advanced.handling.on.all

true

profile.setting.ddl.conference.mode

Default involved

Refresh

Add new

Bulk admin selected

Provisioning

1 / 1

## 7.1.2. Configure Avaya TPO cluster:

From the top menu, select **Device Management** and then **TPO Clusters**.

BT

Trading and Command

Items per list: 500

Username: admin1

Logout

Device Management: TPO Clusters

Device Management

Account Management

Telephony

Security

System

Console

Productivity Tools

Productivity Tools Clusters

Geographic Groups

Turrets

Mobile Traders

PCs

TPOs

TPO Clusters

TPOs Floor Map

Zones

Recording Servers

SIP Private Wire Gateways

PBX Clusters

DMR AIS Gateways

efresh

Add new

Bulk admin selected

1 / 1

+ Configuration fetch

Zone	Department	Cost center	Comment	Last modification date *	
Avaya Aura Zone				11/23/2022 9:09:51 A M	<div></div> <div></div> <div></div>
Avaya IPO Zone				4/30/2021 12:39:02 P M	<div></div> <div></div> <div></div>
CUCM Zone				12/3/2018 11:44:08 A M	<div></div> <div></div> <div></div>

efresh

Add new

Bulk admin selected

1 / 1

Select **Add new** from the bottom of screenshot above to create a TPO Cluster and assign name.

**Trading and Command**

Device Management: TPO Cluster Edition

Device Management Account Management Telephony Security System Console

<< Back to TPO Clusters list

**General**

Name \* Avaya-Aura-Cluster

Zone Avaya Aura Zone

Recording Server Inherited

Comment Avaya-Aura-Cluster

Save and Go Back Save and Edit Save and Add Another Reset Cancel

Navigate to **TPO Cluster Edition (Avaya-Aura-Cluster) → Boot Settings** and configure Session Manager IP and other parameters shown in below picture.

**Trading and Command**

Device Management: TPO Cluster Edition (Avaya-Aura-Cluster)

Device Management Account Management Telephony Security System Console

<< Back to TPO Clusters list

General Boot Settings Settings TPO Cluster TPO Places TPO Lines


**Boot Settings**

Basic Mode Expert Mode Advanced Mode

	Name	Value	Description
CAPF	<input checked="" type="checkbox"/> SIP local domain	10.30.5.127	
Cluster	<input checked="" type="checkbox"/> SIP Connection mode	TCP	
FTP	<input checked="" type="checkbox"/> SIP Proxy Transport Type	TCP	
Global	<input type="checkbox"/> Early media mixing	<input type="radio"/> true <input type="radio"/> false	
Media	<input checked="" type="checkbox"/> SIP Local IP Ports	5060,5062,5064,5066,5068,5070,5072,5074,5076,5078,5080,5082,5084	
	<input checked="" type="checkbox"/> SIP Local IP addresses	10.30.5.127	
OLDCB	<input type="checkbox"/> Check replace header on incoming call	<input type="radio"/> true <input checked="" type="radio"/> false	
Recorder	<input type="checkbox"/> Use bulk registration (Cisco only)	<input type="radio"/> true <input checked="" type="radio"/> false	
SIP	<input type="checkbox"/> MSG Proxy Transport Type	TCP	
SNMP	<input type="checkbox"/> MSG Encoding		
T3MH			
TSS			

Update Refresh Updated.

Select the **Boot Settings** tab and then **Advanced Mode**, ensure that the configuration matches with the picture below but with the Session Manager details.


Trading and Command
Items per list: 25
Username: admin1
Logout

Device Management
Account Management
Telephony
Security
System
Console

[<< Back to TPO Clusters list](#)

General
Boot Settings
Settings
TPO Cluster
TPO Places
TPO Lines

### Boot Settings

Basic Mode
Expert Mode
Advanced Mode

Parameter *	Value	Level	
application.bscg.alternateServiceURI		Zone	
application.bscg.baseServiceURI	https://Avaya_TSS01.thrdpa.itsnet.bt.com/IptradeNet.TSS.9.7.7	Zone	
<input type="checkbox"/> application.mm.nvDTMFPayloadType	127	TPO Cluster	
<input type="checkbox"/> application.mm.nvsupportedcodecs	0,PCMU,8000 ; 8,PCMA,8000 ; 101,telephone-event,8000	TPO Cluster	
<input type="checkbox"/> application.mm.nvsupportedcodecs.video.H264	97 ° H264 ° 90000 ° profile-level-id=42801E;packetization-mode	TPO Cluster	
<input type="checkbox"/> application.mm.video.enable	true	TPO Cluster	
<input type="checkbox"/> application.sip.connection.laddress	10.30.5.127	TPO Cluster	
<input type="checkbox"/> application.sip.connection.mode	TCP	TPO Cluster	
<input type="checkbox"/> application.sip.connection.port	5060,5062,5064,5066,5068,5070,5072,5074,5076,5078,5080,5	TPO Cluster	
<input type="checkbox"/> application.sip.enableTCP	true	TPO Cluster	
<input type="checkbox"/> application.sip.localdomain	10.30.5.127	TPO Cluster	
<input type="checkbox"/> application.sip.non-standard.ccm50.offhold.header	dummy	TPO Cluster	
<input type="checkbox"/> application.sip.non-standard.ccm50.onhold.header	dummy	TPO Cluster	
<input type="checkbox"/> application.sip.proxy.transporttype	TCP	TPO Cluster	

Select **Device Management** and navigate to **TPOs**.

Device Management

Productivity Tools
Productivity Tools Clusters
Geographic Groups
Turrets
Mobile Traders
PCs
TPOs
TPO Clusters
TPOs Floor Map
Zones
Recording Servers
SIP Private Wire Gateways
PBX Clusters
DMR AIS Gateways



Select **Add new** from the menu bar.



Enter new TPO **Device Identifier** and select the **Avaya Aura Zone** created in previous steps. Repeat the same step again to add more TPO's. There are 3 TPOs created in the compliance test: **AvayaTPO1**, **AvayaTPO2** and **AvayaTPO3**.

A screenshot of the 'Device Management: TPO Edition (AvayaTPO1)' configuration page. The page has a header with the 'BT' logo and 'Trading and Command' text. Below the header is a navigation bar with tabs: 'Device Management', 'Account Management', 'Telephony', 'Security', 'System', and 'Console'. The 'Device Management' tab is active. On the right of the header, there are links for 'Items per list: 25', 'Username: admin1', and 'Logout'. Below the navigation bar, there are sub-tabs: 'General', 'Boot Settings', 'Settings', and 'Certificates'. The 'General' sub-tab is active. The main content area is titled 'General' and contains several fields: 'Device Identifier \*' with the value 'AvayaTPO1', 'Zone' with a dropdown menu showing 'Avaya Aura Zone', 'Recording Server' with a dropdown menu showing 'Inherited (Disabled)' and a 'Start' button, and a 'Comment' text area. Below these fields are 'Bootstrap Version' and 'Firmware Version' dropdown menus, both set to 'Default'. The 'Last Update DateTime' is '10/22/2020 2:55:15 PM'. There is a 'Dump System Information' button labeled 'Dump!' and a 'Log tracing configuration' button labeled '+ Log tracing configuration'. At the bottom, there is a section titled 'Assigned TPO Cluster' with a link 'Avaya-Aura-Cluster' and a row of buttons: 'Update', 'Update and Go Back', 'Reset', 'Refresh', and 'Cancel'.

Link newly added TPO's to Avaya-Aura-Cluster TPO cluster. Navigate to **Device Management** → **TPO Cluster** → **Avaya-Aura-Cluster** → **Settings** → **TPO Cluster**. Select **AvayaTPO1**, **AvayaTPO2** and **AvayaTPO3**, which are added in the previous step, and click on **Link Selected** to link TPO's to Cluster.

Set **TPO Redundancy Mode** to **Session Persistency**.

Trading and Command

Items per list: 25 Username: admin1 Logout

Device Management: TPO Cluster Edition (Avaya-Aura-Cluster)

Device Management Account Management Telephony Security System Console

<< Back to TPO Clusters list

General Boot Settings Settings TPO Cluster TPO Places TPO Lines

TPO Redundancy Mode

Session Persistency

TPO Cluster

- Available TPO Nodes

Name Search

Available Nodes (3)

- ☒ AvayaTPO1
- ☒ AvayaTPO2
- ☒ AvayaTPO3

Link Selected

Refresh Bulk admin selected Reset

	Node *	IP *	Order *	Group ID	TPO Role	Firmware version	Current Group ID	Current TPO Role
- This list is empty -								

## 7.1.4.Assign Turrets to the Avaya Zone

Select **Device Management** → **Zones : Avaya Aura Zone**, select the **Turrets** tab. Click **Search** as shown in the picture below and look for the turrets needing to be added into the Avaya Zone.

Select the Turrets from the left-hand window and select **Add** to move the Turrets into the Zone. Select **Update**.

The screenshot shows the BT Trading and Command interface. At the top, there's a header with the BT logo, 'Trading and Command', and user information: 'Items per list: 25', 'Username: admin1', and 'Logout'. Below the header, the page title is 'Device Management: Zone Edition (Avaya Aura Zone)'. A navigation bar includes tabs for 'Device Management', 'Account Management', 'Telephony', 'Security', 'System', and 'Console'. The 'Device Management' tab is active, showing 'Zone: Avaya Aura Zone' with a '<< Back to Zones list' link. Under 'Zone: Avaya Aura Zone', there's a sub-navigation bar with tabs: 'General', 'TPO Boot Settings', 'Turret Boot Settings', 'Turrets', 'Mobile Trader', 'TPO', 'TPO Cluster', 'TPO DNS', 'Users', 'Shared Profiles', and 'Adv. Telephony'. The 'Turrets' tab is selected. Below the tabs, there's a 'Turrets' section with a 'Device Identifier' search bar and a 'Search' button. Two lists are displayed: 'Available Turrets (4)' and 'Selected Turrets (0)'. The 'Available Turrets' list contains four items, all checked: '3PA-Turret-01 (Avaya Aura Zone)', '3PA-Turret-02 (Avaya Aura Zone)', '3PA-Turret-03 (Avaya Aura Zone)', and 'DESKDEV42 (Avaya Aura Zone)'. Between the two lists is an 'Add >>' button and a '<< Remove' button.

Select the **TPO Cluster** tab and select **Search**, select the TPO Cluster created from the left-hand window and select the **Add** button.

Select **Update and Go Back**.

BT Trading and Command

Device Management: Zone Edition (Avaya Aura Zone)

Device Management Account Management Telephony Security System Console

Zone: Avaya Aura Zone

General TPO Boot Settings Turret Boot Settings Turrets Mobile Trader TPO TPO Cluster TPO DNS Users Shared Profiles Adv. Telephony

TPO Cluster

Name

Available TPO Clusters (3)

- ☐ Avaya-IPO-Cluster (Avaya IPO Zone)
- ☐ Cisco-TPO-Cluster (CUCM Zone)
- ☒ Avaya-Aura-Cluster (Avaya Aura Zone)

Add >> << Remove

Selected TPO Clusters (0)

Update Update and Go Back Reset Refresh Cancel Delete

BT Trading and Command

Device Management: Zone Edition (Avaya Aura Zone)

Device Management Account Management Telephony Security System Console

Zone: Avaya Aura Zone

General TPO Boot Settings Turret Boot Settings Turrets Mobile Trader TPO TPO Cluster TPO DNS Users Shared Profiles Adv. Telephony

TPO Cluster

Name

Available TPO Clusters (2)

- ☐ Avaya-IPO-Cluster (Avaya IPO Zone)
- ☐ Cisco-TPO-Cluster (CUCM Zone)

Add >> << Remove

Selected TPO Clusters (1)

- ☒ Avaya-Aura-Cluster (Avaya Aura Zone)

Update Update and Go Back Reset Refresh Cancel Delete

Select **Device Management** and the **TPO Cluster → Avaya-Aura-Cluster** and configure TPO lines by selecting the **TPO Lines** tab and select **Add new**.

The screenshot shows the 'Trading and Command' interface. The top navigation bar includes 'Device Management', 'Account Management', 'Telephony', 'Security', 'System', and 'Console'. The 'TPO Lines' tab is selected and highlighted with a red box. Below the tabs, there is a '+ Configuration fetch' button. At the bottom, there is a blue bar with 'Refresh', 'Add new', 'Bulk admin selected', and 'Provisioning' buttons. The 'Add new' button is highlighted with a red box.

Enter the data as below.

**Local Extension:** The SIP user extension defined in **Section 6.1**.

**Register:** Select the Yes radio button.

**SIP Display Name:** Define the SIP user extension again.

**SIP Password:** The SIP user Communication Profile Password on Session Manager.

**SIP Digest:** Define the SIP user extension again.

**SIP Domain:** Define the IP Address of the Session Manager signalling interface.

**Access Point Extension:** Set the radio button to No.

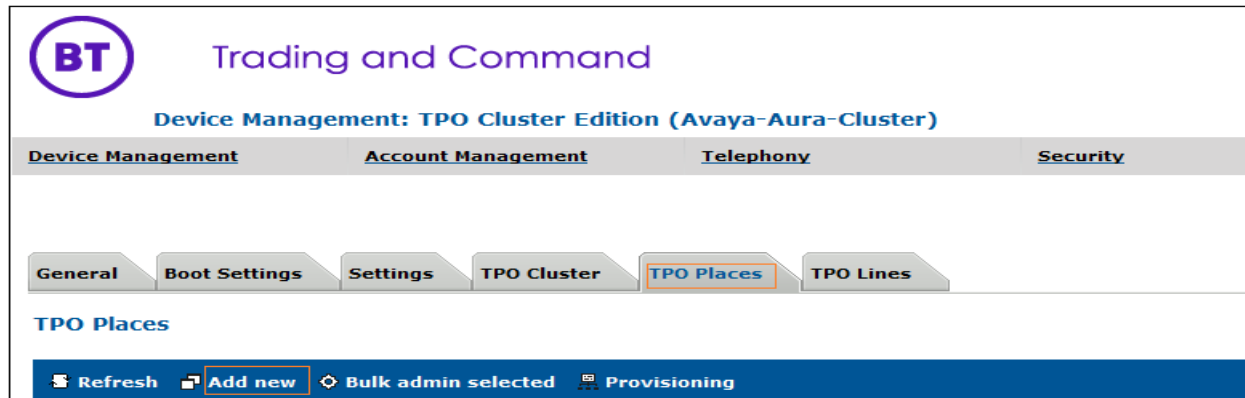
The screenshot shows the 'TPO Cluster: TPO Line Edition (71009)' configuration page. The top navigation bar includes 'Device Management', 'Account Management', 'Telephony', 'Security', 'System', and 'Console'. The 'TPO Lines' tab is selected. The form contains the following fields and options:

- Local Extension: 71009 (highlighted with a red box)
- Fetch Type: Not Fetched
- Place: 71009
- ITS Line: ☐
- Register: ☒ Yes (highlighted with a red box)
- End User Credentials: ☐
- PBX Cluster \*: 10.30.5.127 (highlighted with a red box)
- SIP Display Name: 71009 (highlighted with a red box)
- SIP Password: \*\*\*\*\* (highlighted with a red box)
- SIP Digest: 71009 (highlighted with a red box)
- SIP Domain: 10.30.5.127 (highlighted with a red box)
- SIP Contact ID: (empty)
- SIP Device ID: (empty)
- SIP Line Index: (empty)
- IP Address: (empty)
- SDP IP Address: (empty)
- T3MH Listening port: (empty)
- Access Point Extension: ☒ No (highlighted with a red box)

At the bottom, there are buttons for 'Update and Go Back', 'Reset', 'Refresh', 'Cancel', and 'Delete'.

Once complete, select **Save and Go Back** (not shown).

Select **TPO Places** and **Add new**.



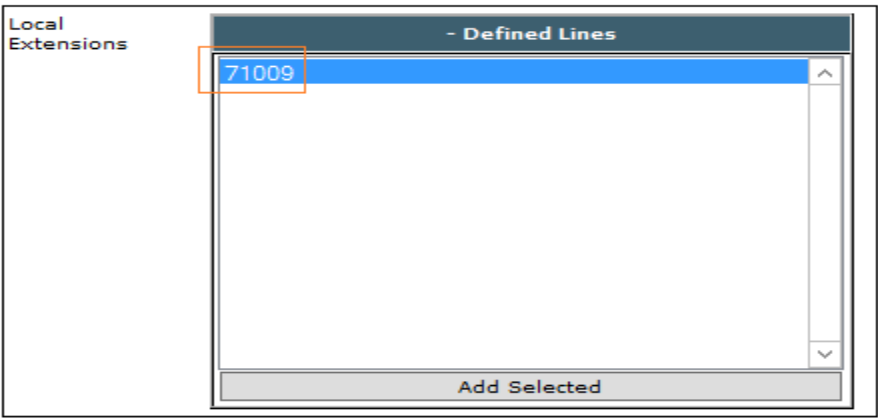
In the first instance, create a **Name**. Select the **Group ID** used. Ensure **RingdownDynamic** is selected as the **Place Type**.

In the **VirtualSlot Extensions**, **7100901** to **7100903** are specified. This will create three appearances for the 71009 DDI line which are associated with the SIP user, 71009**01** is Slot 1, 71009**02** is Slot 2 and 71009**03** is Slot 3.

The screenshot shows the BT Trading and Command web interface for the "TPO Cluster: TPO Place Edition (71009)". The main header is "Trading and Command" with a sub-header "TPO Cluster: TPO Place Edition (71009)". Below this is a navigation bar with tabs: "Device Management", "Account Management", "Telephony", "Security", "System", and "Console". The "Telephony" tab is selected. Below the tabs, there is a blue bar with buttons: "<< Back to TPO Cluster list", "Avaya-Aura-Cluster", and "Logout". The "General" tab is selected. The form contains the following fields:

- Name \*: 71009
- Group ID\*: 1
- Comment: DDI\_Line\_71009
- Default RTP Frame Size (ms): 10, 20, 30 (20 is selected)
- MasterCall RTP Frame Size (ms): 10, 20, 30 (20 is selected)
- Default Volume amp (dB): 0
- MasterCall Volume amp (dB): 0
- Place Type: RingdownDynamic
- Virtual Slot Extensions \*: 7100901 - 7100903
- Add Slot Properties (checkbox)

Link the Line to the TPO Place by selecting the grey **Defined Lines** box. Select **Add Selected** to add the local Extensions.



Ensure that the extension has linked correctly by looking at the linked extensions below.

Unlink selected									
<input type="checkbox"/>	Local Extension *	Register	End User Credentials	Display Name	Device ID	Line Index	IP Address	SDP IP Address	Access Point Extension
<input type="checkbox"/>	71009	Yes	No	71009					No
Unlink selected									

Next, navigate to the **TPO Cluster** (not shown) tab.









Add the **TPO Group ID** in a format which has a dot in it, in this example ‘btcluster.avaya.com’ is used as **TPO DNS Name**. This name is registered on the DNS. Again, select the green arrow to commit the changes.

TPO Group ID		
Refresh Bulk admin selected 1 / 1		
<input type="checkbox"/>	Group ID *	TPO DNS Name * CIA
<input type="checkbox"/>	1 ⚠	btcluster.avaya.com
Refresh Bulk admin selected 1 / 1		

Add the **Order** of preference (if more than two TPO's are in a TPO Cluster). The **Group ID** that Lines were added to. Select **Active** from the **TPO Role** drop down. Select the green arrow to the right to save the changes. Follow the same step and select the **TPO Role** to **Passive** to configure passive TPO's in the cluster.

TPO Cluster

+ Available TPO Nodes

Refresh Bulk admin selected Reset									1 / 1	
	Node *	IP *	Order *	Group ID	TPO Role	Firmware version	Current Group ID	Current TPO Role		
<input type="checkbox"/>	* AvayaTPO1	172.27.130.3	1	1	Active		1	Active		
<input type="checkbox"/>	AvayaTPO2	172.27.130.4	2		Idle	R9.7_7.56377		Passive		 
<input type="checkbox"/>	AvayaTPO3	172.27.130.5	3		Idle	R9.7_7.56377		Passive		 
Refresh Bulk admin selected Reset									1 / 1	

After a couple of seconds, the TPO current role will become **Active**, **Passive** and **Passive**.

BT

Trading and Command

Items per list: 25

Username: admin1

Logout

Device Management: TPO Cluster Edition (Avaya-Aura-Cluster)

Device Management

Account Management

Telephony

Security

System

Console

General

Boot Settings

Settings

TPO Cluster

TPO Places

TPO Lines

<< Back to TPO Clusters list

TPO Redundancy Mode

Session Persistency

TPO Cluster

+ Available TPO Nodes

Refresh

Bulk admin selected

Reset

1 / 1

	Node *	IP *	Order *	Group ID	TPO Role	Firmware version	Current Group ID	Current TPO Role	
<input type="checkbox"/>	AvayaTPO1	172.27.130.3	1	1	Active	R9.7_7.56377	1	Active	<input type="checkbox"/>
<input type="checkbox"/>	AvayaTPO2	172.27.130.4	2		Passive	R9.7_7.56377		Passive	<input type="checkbox"/>
<input type="checkbox"/>	AvayaTPO3	172.27.130.5	3		Passive	R9.7_7.56377		Passive	<input type="checkbox"/>

Refresh

Bulk admin selected

Reset

1 / 1

Now select the **TPO Places** tab and select the Play button and wait for the line to register.

TPO Places

8 places: 8 Stopped

Refresh

Add new

Bulk admin selected

Provisioning

1 / 1

Place Name *	Connected to	Place Type *	Group ID *	TPO	State	SIP Device ID	
<input type="checkbox"/> <a href="#">71002</a>		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Stopped		<div><div></div><div></div><div></div></div>

Once the line registers, it will display a status of **Alive** and **Started**.

TPO Places

8 places: 1 Started 7 Stopped



## 7.1.5.Add Users

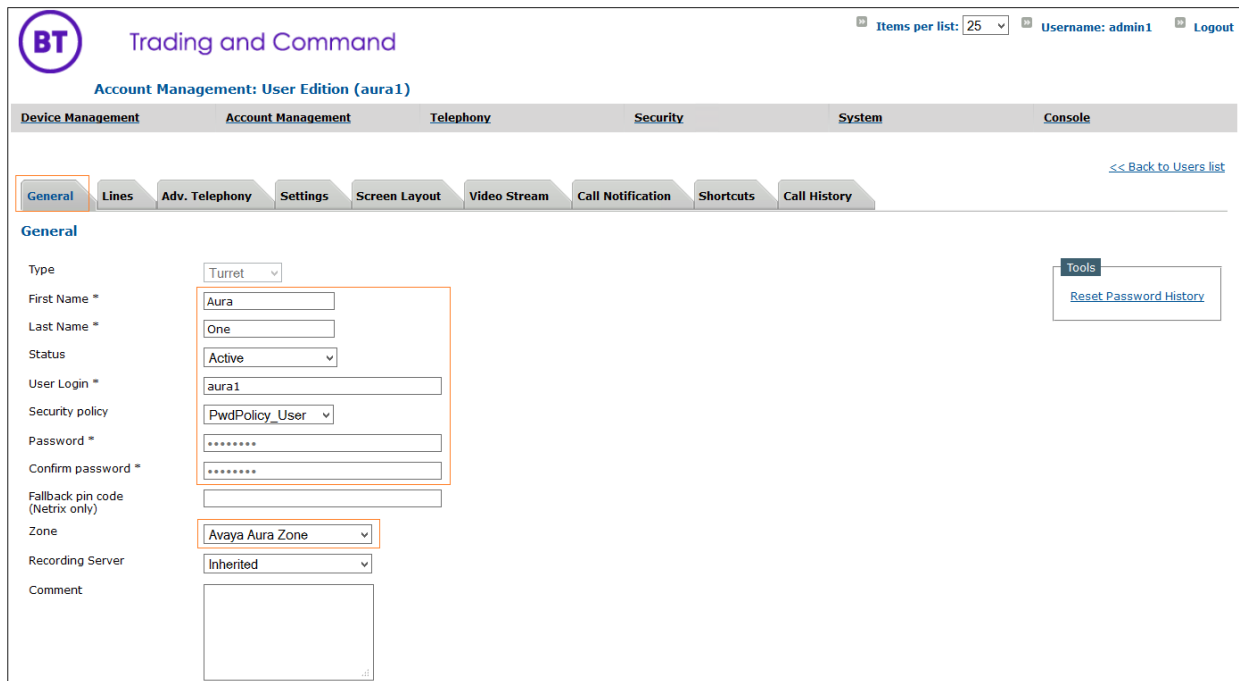
The next task is to add a user, use the top menu and select **Account Management**, and then **Users**.



Select **Add new**.



Enter the information regarding the user below. For this example, the user login of **aura1** was created.



BT Trading and Command

Items per list: 25 Username: admin1 Logout

Account Management: User Edition (aura1)

Device Management Account Management Telephony Security System Console

<< Back to Users list

General Lines Adv. Telephony Settings Screen Layout Video Stream Call Notification Shortcuts Call History

General

Type Turret

First Name \* Aura

Last Name \* One

Status Active

User Login \* aura1

Security policy PwdPolicy\_User

Password \* \*\*\*\*\*

Confirm password \* \*\*\*\*\*

Fallback pin code (Netrix only)

Zone Avaya Aura Zone

Recording Server Inherited

Comment

Tools

Reset Password History

Now create a shared profile, select **Account Management** and then **Shared Profiles**.

BT Trading and Command

Account Management: Shared Profiles

Device Management Account Management Telephony Security System Console

Users

Server time: 17:06:19  
Last refresh time: 17:03:37

Shared Profiles

Refresh Add new Bulk admin selected

Name *	Zone	Department	Cost center	Comment	Last modification date *
Avaya Aura Shared Profile	Avaya Aura Zone				3/9/2023 5:03:16 PM

Select **Add new**.

Server time: 04:28:10  
Last refresh time: 04:27:52

Refresh Add new Bulk admin selected

1 / 1

Configure the shared Profile. Select **Update** (not shown).

BT Trading and Command

Account Management: Shared Profile Edition (Avaya Aura Shared Profile)

Device Management Account Management Telephony Security System Console

<< Back to Shared Profiles list

General Lines Adv. Telephony Settings Screen Layout Video Stream Call Notification Shortcuts Call History

General

Type Turret Desk

Profile Name \* Avaya Aura Shared Profile

Department

Cost Center

Zone Avaya Aura Zone

Recording Server Inherited

Comment

Editable All

Last Update DateTime 3/9/2023 5:03:16 PM

Select the **Lines** tab, then select **Add new**.

BT Trading and Command

Account Management: Shared Profile Edition (Avaya Aura Shared Profile)

Device Management Account Management Telephony Security System Console

<< Back to Shared Profiles list

General Lines Adv. Telephony Settings Screen Layout Video Stream Call Notification Shortcuts Call History

Lines

Group Lines

Server time: 04:36:51  
Last refresh time: 04:36:44

Refresh Add new Bulk admin selected Clear overwritten values Provisioning

1 / 1

Enter all the Lines associated with the Avaya profile by entering the following information. In this example the shared line 71009 is added.

Select **Update** and **Go Back** (not shown) when completed.

Ensure all the Lines are present via the shared profile by selecting the **Lines** tab.

Type	SIP Display Name	SIP Extension	SIP Digest	SIP Domain	TPO DNS Name
DDI Sharing Line	71009	71009		btcluster.avaya.com	btcluster.avaya.com
DDI Sharing Line	71010	71010		btcluster.avaya.com	btcluster.avaya.com
DDI Sharing Line	71011	71011		btcluster.avaya.com	btcluster.avaya.com
DDI Sharing Line	71012	71012		btcluster.avaya.com	btcluster.avaya.com
DDI Sharing Line	71013	71013		btcluster.avaya.com	btcluster.avaya.com
DDI Sharing Line	71014	71014		btcluster.avaya.com	btcluster.avaya.com
DDI Sharing Line	71015	71015		btcluster.avaya.com	btcluster.avaya.com
DDI Sharing Line	71016	71016		btcluster.avaya.com	btcluster.avaya.com

Now that the lines are added, they need to be inserted onto a Keypage. Navigate to **Account Management** and then **Shared Profiles** (not shown).

Select the **Shared Profile** and select the **Shortcuts** tab from the Menu bar select **Add New** Shortcut page (e.g. **Avaya KP1**) and configure **shortcuts** for Avaya DDI Lines.

BT

Trading and Command

Items per list: 25

Username: admin1

Logout

Account Management: Shared Profile Edition (Avaya Aura Shared Profile)

Device Management

Account Management

Telephony

Security

System

Console

General

Lines

Adv. Telephony

Settings

Screen Layout

Video Stream

Call Notification

Shortcuts

Call History

Hold shortcut changes

Shortcuts

Import from CSV - Export to CSV

Refresh

Add new

Bulk admin selected

1 / 1

Name *	Display option	Comment	External Source
<input type="checkbox"/> Avaya KP1	Positional		<div></div>

Refresh

Add new

Bulk admin selected

1 / 1

Shortcuts

Page selection Avaya KP1

Refresh

Add new

Bulk admin selected

1 / 2 << < 1 2 > >>

Label *	Extension *	Type	Slot
<input type="checkbox"/> 71009/01	7100901	DDI Slot	NOP
<input type="checkbox"/> 71009/02	7100902	DDI Slot	NOP
<input type="checkbox"/> 71009/03	7100903	DDI Slot	NOP
<input type="checkbox"/> 71010/01	7101001	DDI Slot	NOP
<input type="checkbox"/> 71010/02	7101002	DDI Slot	NOP
<input type="checkbox"/> 71010/03	7101003	DDI Slot	NOP
<input type="checkbox"/> 71011/01	7101101	DDI Slot	NOP
<input type="checkbox"/> 71011/02	7101102	DDI Slot	NOP
<input type="checkbox"/> 71011/03	7101103	DDI Slot	NOP

NAQ; Reviewed

SPOC 5/4/2023

Solution & Interoperability Test Lab Application Notes

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BTTrade97ASM101


Configure the example shown below. In this example, the first slot (71009/1) is configured for Shared Appearance 71009.

**Label:** The Shared Appearance followed by the slot number.

**Type:** Select **DDI Slot**.

**Slot:** The full Shared Appearance. 7100901. mean this slot take 1<sup>st</sup> appearance of extension 71009.

Once complete, select **Update and Go Back**.

 Trading and Command

Items per list: 25 Username: admin1 Logout

Account Management: Shortcut Edition (71009/01)

Device Management Account Management Telephony Security System Console

Label \* 71009/01

Comment 71009/01

Type DDI Slot

Slot \* 7100901

Highlight Colors

Text ☐

Background ☐

External Reference IPT\_000CN0001

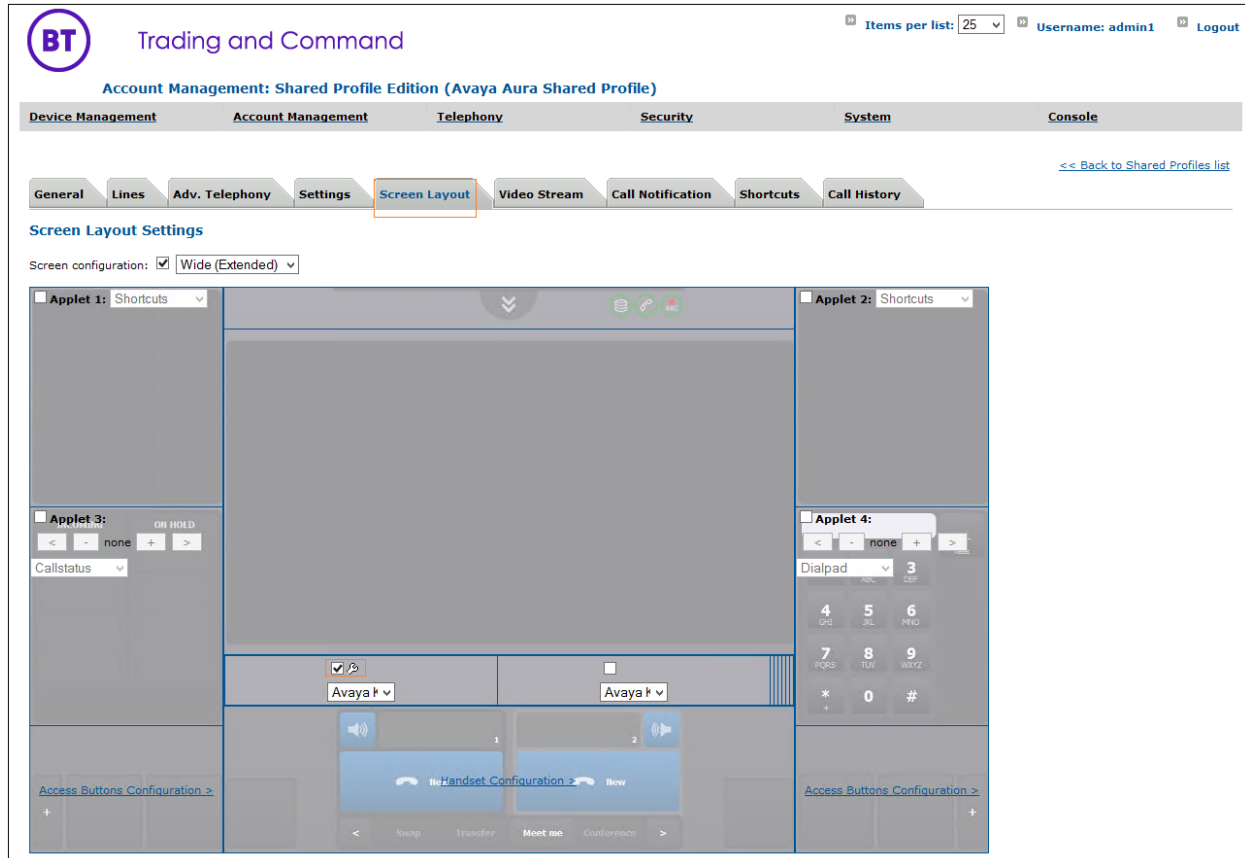
<< Back to Shared Profiles list > Avaya Aura Shared Profile

Group	Device	Ringtone Set	Volume	State Notification
All	<input checked="" type="radio"/> HS first <div>Handset Default</div>	(None)	(None)	None
	<input type="radio"/> LS first <div>Monitoring slot Left Applet Slot01</div>			
Avaya KP1 *	<input checked="" type="radio"/> HS first <div>Handset Default</div>	(None)	(None)	None
	<input type="radio"/> LS first <div>Monitoring slot Left Applet Slot01</div>			

Update Update and Go Back Reset Refresh Cancel Delete

Next, select the **Screen Layout** tab from the top menu bar.

Select the Keypage to place the shared appearances by checking the tick box and then selecting the spanner symbol next to it as shown in the picture below.



The shortcuts are created as **Available shortcuts** on the left-hand side of the screen. Click each shortcut which will automatically place the shortcut into the **Unlinked shortcuts** window. Click and drag the shortcuts into the **Linked shortcuts** window.

The screenshot shows the 'Shortcut Layout Edition' interface. At the top, there's a header with the BT logo, 'Trading and Command', and user information (Items per list: 25, Username: admin1, Logout). Below the header is a navigation bar with tabs: Device Management, Account Management, Telephony, Security, System, and Console. The main content area is titled 'Shortcut Layout (Avaya KP1)' and includes a link 'Back to Avaya Aura Shared Profile >'. On the left, under 'Available shortcuts', there's a 'Shortcut Page:' dropdown set to '(All)' and a search box. Below these are three shortcut buttons labeled '71009/01', '71009/02', and '71009/03'. In the center, the 'Linked shortcuts' area is empty, showing only two 'Direct\_Intern' buttons at the top. On the right, the 'Unlinked shortcuts' area is also empty, with an 'Unlink All' button. At the bottom, there are buttons for 'Update', 'Update and Go Back', 'Refresh', and 'Cancel'.

This screenshot shows the same interface as the previous one, but the three shortcuts '71009/01', '71009/02', and '71009/03' have been moved from the 'Available shortcuts' section to the 'Linked shortcuts' section. They are now arranged in a 3x3 grid in the 'Linked shortcuts' area, while the 'Available shortcuts' section is empty. The 'Unlinked shortcuts' section remains empty with the 'Unlink All' button. The bottom buttons 'Update', 'Update and Go Back', 'Refresh', and 'Cancel' are still present.

Select **Update and Go Back** (not shown) after linking the shortcuts.

Navigate to **Advanced Mode** tab, ensure that all the advanced settings are present as per the screenshot below. Please refer to earlier in this document for adding new parameters.

Basic Mode Expert Mode <b>Advanced Mode</b>			
Refresh            Add new            Bulk admin selected            Provisioning           1 / 1			
<input type="checkbox"/>	Parameter *	Value	
<input type="checkbox"/>	<a href="#">profile.setting.ddi.advanced.handling.on.all</a>	true	
<input type="checkbox"/>	<a href="#">profile.setting.ddi.conference.mode</a>	All lines	
<input type="checkbox"/>	<a href="#">profile.setting.defaulthandset</a>	0	
<input type="checkbox"/>	<a href="#">profile.setting.dispatch.is.blind</a>	true	
<input type="checkbox"/>	<a href="#">profile.setting.dispatch.is.monitored</a>	false	
<input type="checkbox"/>	<a href="#">profile.setting.dispatch.is.on.callkey</a>	false	
<input type="checkbox"/>	<a href="#">profile.setting.dnd.forward.sharedlines</a>	true	
<input type="checkbox"/>	<a href="#">profile.setting.forward.ddi.sharedlines</a>	true	
<input type="checkbox"/>	<a href="#">profile.setting.forward.sharedlines</a>	true	
<input type="checkbox"/>	<a href="#">profile.setting.forwardall.extensions</a>	2400006	
<input type="checkbox"/>	<a href="#">profile.setting.forwardpbx</a>	true	
<input type="checkbox"/>	<a href="#">profile.setting.hs.invert</a>	false	
<input type="checkbox"/>	<a href="#">profile.setting.hsbarbuttons</a>	swap;transfer;conference;meetme;redial;merge;pickup;group_p	
<input type="checkbox"/>	<a href="#">profile.setting.hsbarbuttons.hideinactive</a>	false	
<input type="checkbox"/>	<a href="#">profile.setting.screen.layout</a>	extended	
<input type="checkbox"/>	<a href="#">profile.setting.screen.type</a>	false	
<input type="checkbox"/>	<a href="#">profile.setting.shortcut.group0</a>	Avaya KP1	
<input type="checkbox"/>	<a href="#">profile.setting.singlehandset</a>	false	
<input type="checkbox"/>	<a href="#">profile.setting.transfer.uselastheldcall</a>	true	
<input type="checkbox"/>	<a href="#">profile.setting.videocall.enable</a>	true	
<input type="checkbox"/>	<a href="#">profile.setting.videocall.mirrorfeedbackvideo</a>	true	



## 7.1.6.Assign Avaya Aura shared profile to the Users

Select the **General** tab (not shown) and halfway down the page there is a search box as shown in the screenshot below. Select **Search**.

All Users configured on the system will appear, select the ones to add into this Shared Profile and select **Add**.

The screenshot displays the 'Attached users' section of a web interface. At the top, there is a search bar with 'User Name' set to 'Aura', a dropdown menu currently showing '(All)', and a 'Search' button. Below the search bar, the interface is divided into two main columns. The left column, titled 'Available Users (3)', contains a list of three users: 'Aura One (aura1)', 'Aura Three (aura3)', and 'Aura Two (aura2)'. Each user entry has a checkbox to its left, all of which are checked. The right column, titled 'Selected Users (0)', is currently empty. Between these two columns are two buttons: 'Add >>' and '<< Remove'. Below the user selection area, there is a section titled 'Directories'. This section also has two columns: 'Available Directories (0)' on the left and 'Selected Directories (0)' on the right. An 'Add >>' button is positioned between these two columns.

**Attached users**

User Name  (All)

■ Available Users (0)

■ Selected Users (3)

☐ [Aura One \(aura1\)](#)  
☐ [Aura Three \(aura3\)](#)  
☐ [Aura Two \(aura2\)](#)

Add >>

<< Remove

The users have been added into the right-hand window. Select **Update and Go Back** (not shown).

**Parent profiles**

Desk profile

Profile Name  (All)

■ Available Profiles (0)

■ Selected Profiles (1)

☐ [Avaya Aura Shared Profile \(Shared\)](#)

Add >>

<< Remove

## 8. Verification Steps

This section describes the checks that can be carried out to verify the connection between BT Trading Platform with Avaya Aura® Session Manager and Avaya Aura® Communication Manager.

### 8.1. Avaya Aura® Session Manager Verification

From the main System Manager dashboard select **Session Manager** from the **Elements** section (not shown). Select **System Status** → **User Registrations** from the left-hand menu (not shown). The BT Trading Turret users are listed and will show a tick in the **Prim** box under **Registered**.

**Avaya Aura System Manager 10.1**

Users | Elements | Services | Widgets | Shortcuts | Search | admin

Home | User Management | Routing | Session Manager

**Session Manager**

- Dashboard
- Session Manager ...
- Global Settings
- Communication Prof...
- Network Configur...
- Device and Locati...
- Application Confi...
- System Status
- Load Factor
- SIP Entity Monit...
- Managed Band...

**User Registrations**

Select rows to send notifications to devices. Click on Details column for complete registration status.

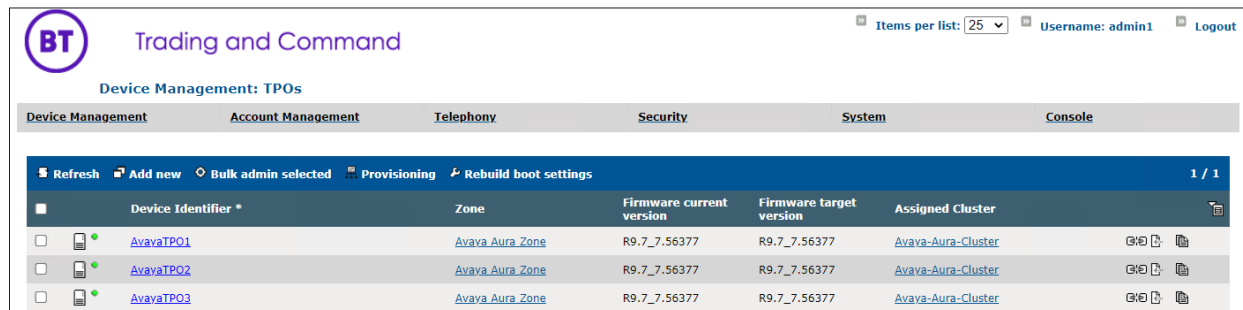
View | Default | Export | Force Unregister | AST Device Notifications: | Reboot | Reload | Failback | As of 3:51 PM

22 Items | Show 15 | Filter: Enable

	Details	Address	First Name	Last Name	Actual Location	IP Address	Policy	Shared Control	Simult. Devices	AST Device	Registered	Prim	Sec	3rd	4th	Su
<input type="checkbox"/>	<a href="#">Show</a>	81002@aura.com	SIPEExt2	Duplex	---	172.16.8.242	fixed	<input type="checkbox"/>	1/3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<a href="#">Show</a>	71012@aura.com	Ext12	BT	---	172.27.130.3	fixed	<input type="checkbox"/>	1/3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<a href="#">Show</a>	71011@aura.com	Ext11	BT	---	172.27.130.3	fixed	<input type="checkbox"/>	1/3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<a href="#">Show</a>	71010@aura.com	Ext10	BT	---	172.27.130.3	fixed	<input type="checkbox"/>	1/3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<a href="#">Show</a>	71009@aura.com	Ext9	BT	---	172.27.130.3	fixed	<input type="checkbox"/>	1/3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<a href="#">Show</a>	71002@aura.com	Ext2	BT	---	172.27.130.3	fixed	<input type="checkbox"/>	1/3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<a href="#">Show</a>	71001@aura.com	Ext1	BT	---	172.27.130.3	fixed	<input type="checkbox"/>	1/3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<a href="#">Show</a>	70001@aura.com	SIPEExt2	Aura	---	172.16.8.167	fixed	<input type="checkbox"/>	1/3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

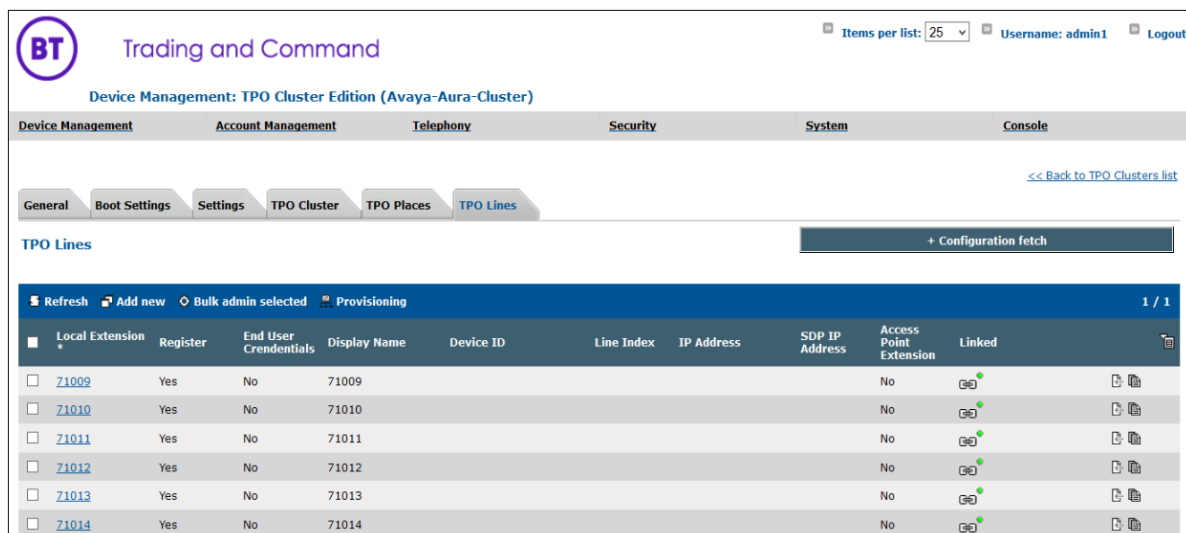
## 8.2. BT Trading Platform Verification

In **Device Management** → **TPOs**, ensure that the TPOs are reachable and appear in the green status as shown below.



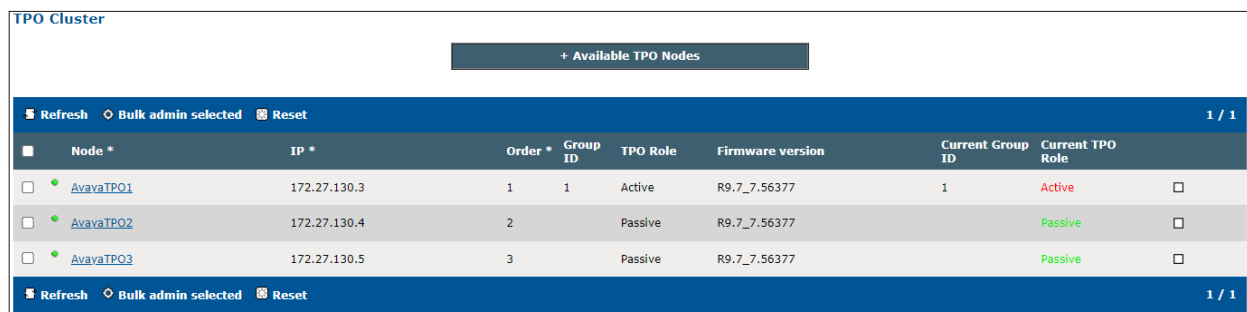
Device Identifier *	Zone	Firmware current version	Firmware target version	Assigned Cluster
AvayaTPO1	Avaya Aura Zone	R9.7_7.56377	R9.7_7.56377	Avaya-Aura-Cluster
AvayaTPO2	Avaya Aura Zone	R9.7_7.56377	R9.7_7.56377	Avaya-Aura-Cluster
AvayaTPO3	Avaya Aura Zone	R9.7_7.56377	R9.7_7.56377	Avaya-Aura-Cluster

In **Device Management** → **TPO Cluster Edition (Avaya-Aura-Cluster)**, navigate to the **TPO Clusters** and **Avaya-Aura-Cluster** → **TPO Lines** tab. The Lines must be linked to the TPO place.



Local Extension *	Register	End User Credentials	Display Name	Device ID	Line Index	IP Address	SDP IP Address	Access Point Extension	Linked
71009	Yes	No	71009					No	Green
71010	Yes	No	71010					No	Green
71011	Yes	No	71011					No	Green
71012	Yes	No	71012					No	Green
71013	Yes	No	71013					No	Green
71014	Yes	No	71014					No	Green

In the same area, on the **TPO Cluster** tab, the TPOs must show a green status and **Active** for the active TPO and **Passive** for the two standby TPOs.



Node *	IP *	Order *	Group ID	TPO Role	Firmware version	Current Group ID	Current TPO Role
AvayaTPO1	172.27.130.3	1	1	Active	R9.7_7.56377	1	Active
AvayaTPO2	172.27.130.4	2		Passive	R9.7_7.56377		Passive
AvayaTPO3	172.27.130.5	3		Passive	R9.7_7.56377		Passive

Lastly select the **TPO Places** tab. All lines show a status of **Started**; this indicates that the TPO has registered the line to the Session Manager.

TPO Places						
8 places: 6 Started 2 Stopped						
Place Name *	Connected to	Place Type *	Group ID *	TPO	State	SIP Device ID
<input type="checkbox"/> 71009		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Started	<input type="checkbox"/>
<input type="checkbox"/> 71010		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Started	<input type="checkbox"/>
<input type="checkbox"/> 71011		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Started	<input type="checkbox"/>
<input type="checkbox"/> 71012		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Started	<input type="checkbox"/>
<input type="checkbox"/> 71013		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Started	<input type="checkbox"/>
<input type="checkbox"/> 71014		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Started	<input type="checkbox"/>

## 9. Conclusion

These Application Notes describe the configuration steps required for BT Trading Platform to interoperate with Avaya Aura® Session Manager and Avaya Aura® Communication Manager. 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 BT product documentation that are relevant to these Application Notes.

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

- i. *Administering Avaya Aura® Communication Manager Administering Avaya Aura® Session Manager Release 10.1.x, Issue 4, Feb 2023*
- ii. *Administering Avaya Aura® Communication Manager Release 10.1, Issue 4, Feb 2023*
- iii. *Administering Avaya Aura® System Manager Release 10.1, Issue 4, Feb 2023*

Information regarding Product documentation for BT Trading Platform can be obtained by contacting the Support email in **Section 2.3**.

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