



## **Avaya Solution & Interoperability Test Lab**

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# **Application Notes for British Telecom Trading Platform 9.5 with Avaya Aura® Session Manager 8.1.3 and Avaya Aura® Communication Manager 8.1.3 - Issue 1.0**

### **Abstract**

These Application Notes describe the configuration steps required to integrate British Telecom Trading Platform 9.5 with Avaya Aura® Session Manager 8.1.3 and Avaya Aura® Communication Manager 8.1.3. 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 9.5 with Avaya Aura® Session Manager 8.1.3 and Avaya Aura® Communication Manager 8.1.3. 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 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.
- DTMF and exercising telephony features, such as Transfer and Call Forward using feature access codes.
- Basic features including 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**

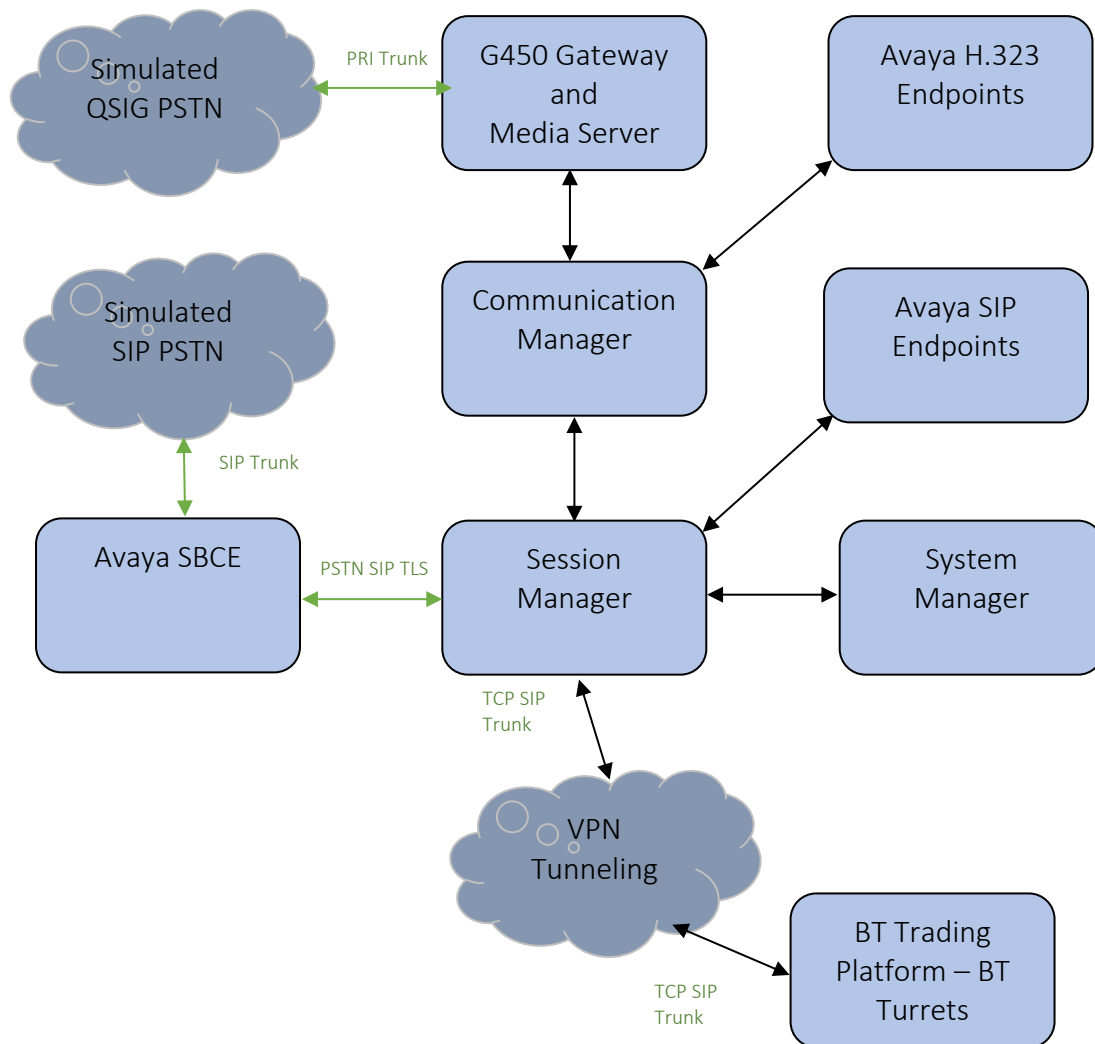
For technical support on BT Trading Platform, contact:  
Email: [Unified.Trading.interop.team@bt.com](mailto:Unified.Trading.interop.team@bt.com)

### 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 deskphones.

TLS is enabled on the SIP trunk between Communication Manager and Session Manager. TLS was also enabled on all Avaya endpoints.

BT Trading Platform interoperate with Session Manager using TCP connection.



**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	8.1.3
Avaya Aura® Session Manager in Virtual Environment	8.1.3
Avaya Aura® Communication Manager in Virtual Environment	8.1.3
Avaya G450 Media Gateway <ul style="list-style-type: none"><li>• MGP</li></ul>	41.16.30
Avaya Aura® Media Server in Virtual Environment	8.0 SP2
Avaya Session Border Controller for Enterprise in Virtual Environment	8.1.0.0-14-18490
9641G IP Deskphone (H.323)	6.8
Avaya Workplace Client for Windows	3.8.4.10.2
Avaya 9641 IP Deskphone (SIP)	7.1.9
Avaya J159 IP Deskphone (SIP)	4.0.7.1
BT Trading Platform Turret Support Server Firmware	R9.5.3.54476

BT Trading Platform Turret Support Server Bootstrap	R9.5_3.54458
BT TPO Firmware	R9.5_3.54480
BT TPO Bootstrap	R9.5_3.54423
BT TouchPro Firmware	R9.5_3.54482
BT TouchPro Bootstrap	R9.5_3.54421
BT Flex Pro Version	R9.5_3.54482
BT TPO Redundancy Mode	Session Persistency

## 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 11**. The configuration illustrated in this section was performed using Communication Manager System Administration Terminal (SAT).

Configuration steps include:

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

### 5.1. Verify 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**.

OPTIONAL FEATURES		Page 1 of 12
G3 Version: ?	Software Package: Enterprise	
Location: 2	System ID (SID): 1	
Platform: 28	Module ID (MID): 1	
		USED
Platform Maximum Ports:	6400	546
Maximum Stations:	2400	13
Maximum XMOBILE Stations:	2400	0
Maximum Off-PBX Telephones - EC500:	9600	0
<b>Maximum Off-PBX Telephones - OPS:</b>	<b>9600</b>	<b>10</b>
Maximum Off-PBX Telephones - PBFMC:	9600	0
Maximum Off-PBX Telephones - PVFMC:	9600	0
Maximum Off-PBX Telephones - SCCAN:	2400	0
Maximum Survivable Processors:	313	1
(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	10.30.5.93	
procr6	:	
ams94	10.30.5.94	
smsip92	10.30.5.92	

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	
38	7 udp	
*	3 fac	
#	3 dac	

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 **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	Transport Method: tls	
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: smsip92</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	Group Type: sip	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	
	<b>Member Assignment Method: auto</b>	
	<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	Page 2 of 5
Group Type: sip	
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	Page 3 of 5
TRUNK FEATURES	
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
	Modify Tandem Calling Number: no
Send UCID? y	
Show ANSWERED BY on Display? y	
DSN Term? N	

### 5.3. Add 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 the SIP trunk created. 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					
Grp No	FRL	NPA	Pfx	Hop	Toll	No.	Inserted			DCS/	IXC
			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				rest			lev0-pvt	none
2:		y y y y y n	n				rest				none
3:		y y y y y n	n				rest				none
4:		y y y y y n	n				rest				none
5:		y y y y y n	n				rest				none
6:		y y y y y n	n				rest				none

An Automatic Alternate Routing (AAR) entry must be made for dialing the external numbers that are to be routed via the 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 1 command, 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

                                Mode                                Redun-                                Packet
                                relay                                dancy                                Size (ms)
FAX                                0
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

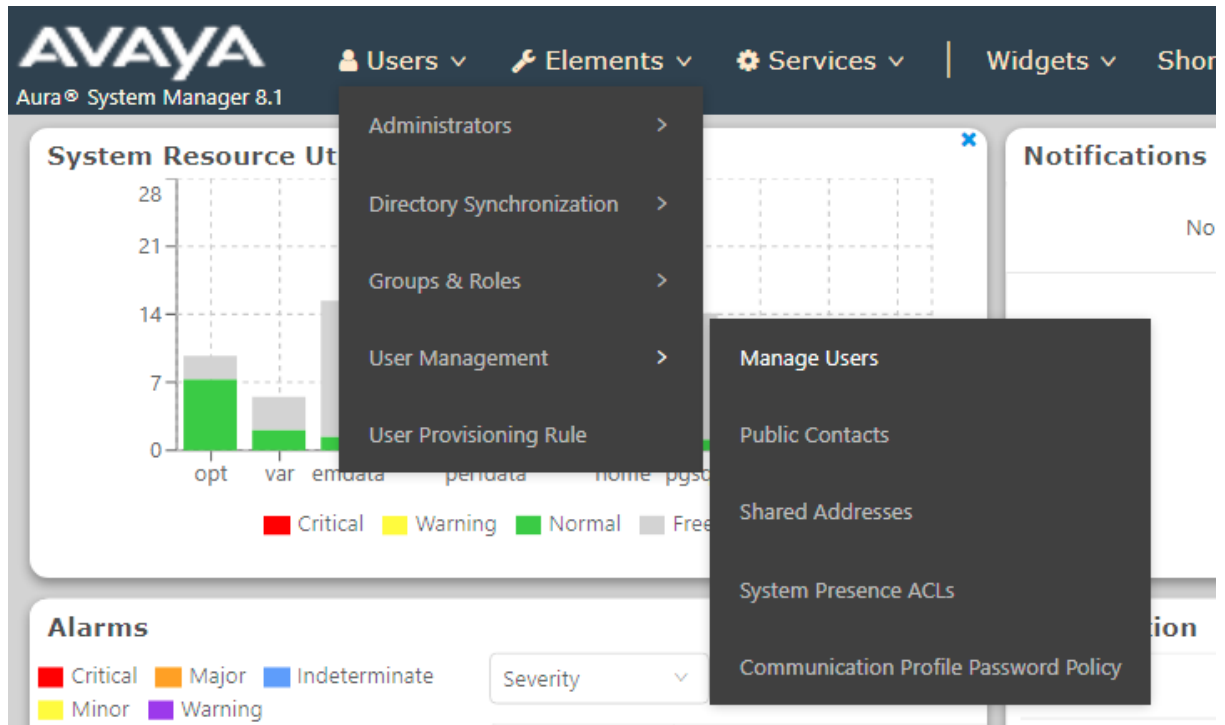
In this section, the configuration steps required to connect BT Trading Platform to Session Manager as a SIP endpoint is described. It is assumed that an existing Session manager instance has already been installed and configured as this is out with the scope of this document. All Configuration steps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

- Adding a BT Trading Turret as a **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**.

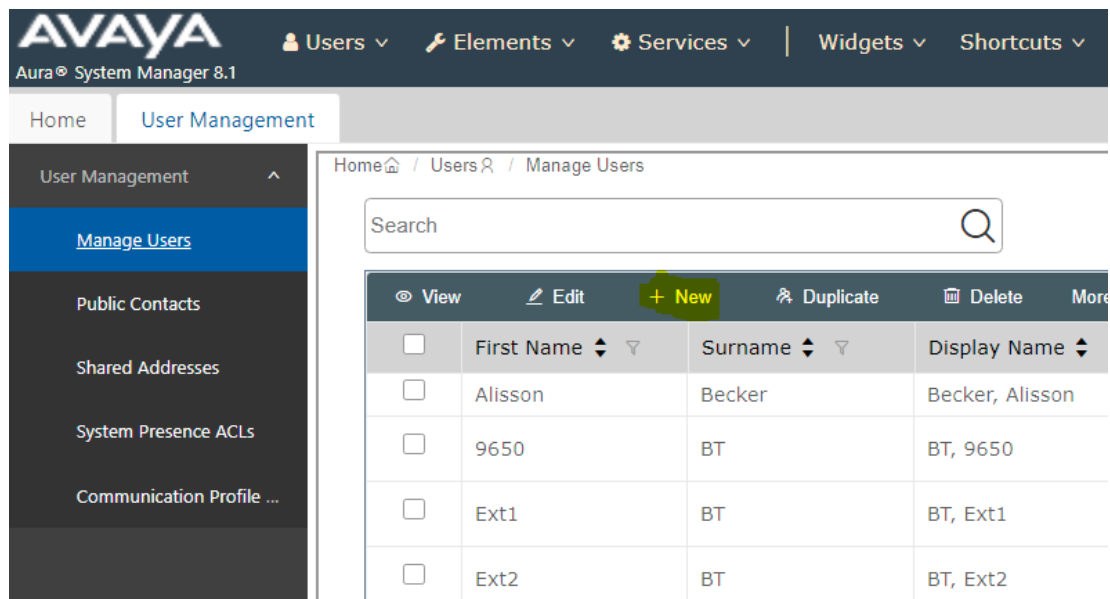
### 6.1. Configure SIP User

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.

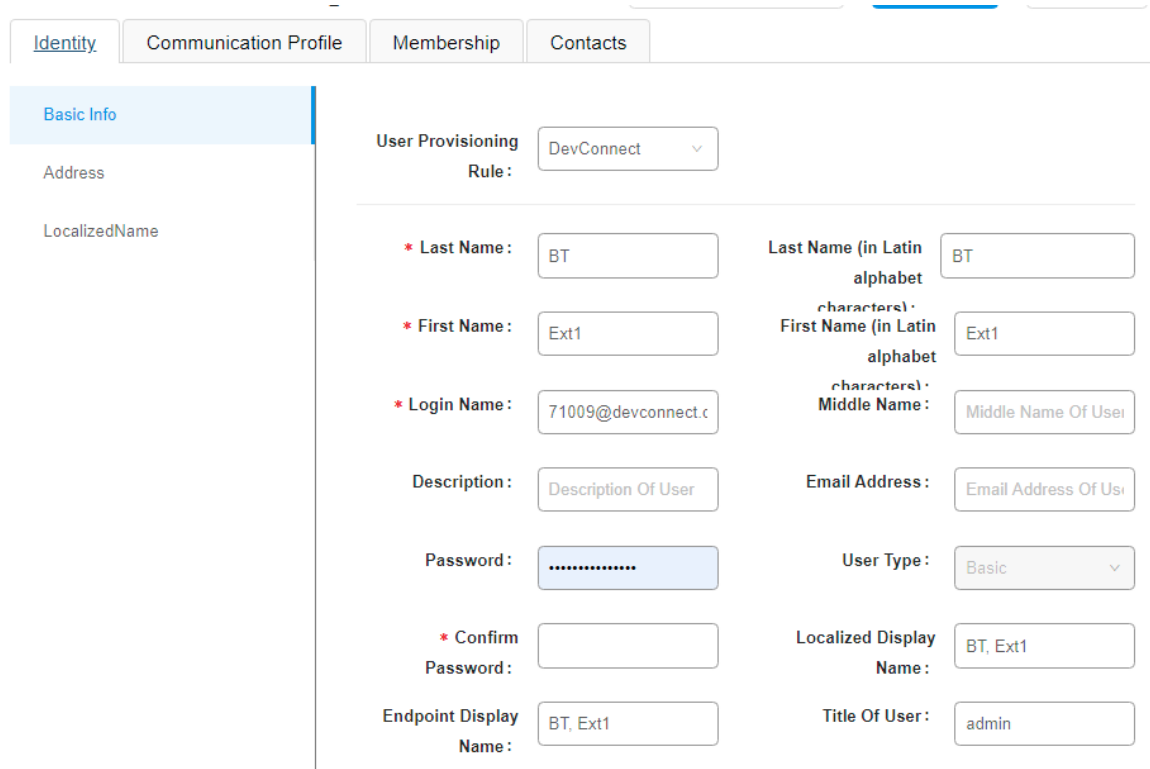
From the Dashboard, select **Users** → **User Management** → **Manage Users**.



Select **New**.

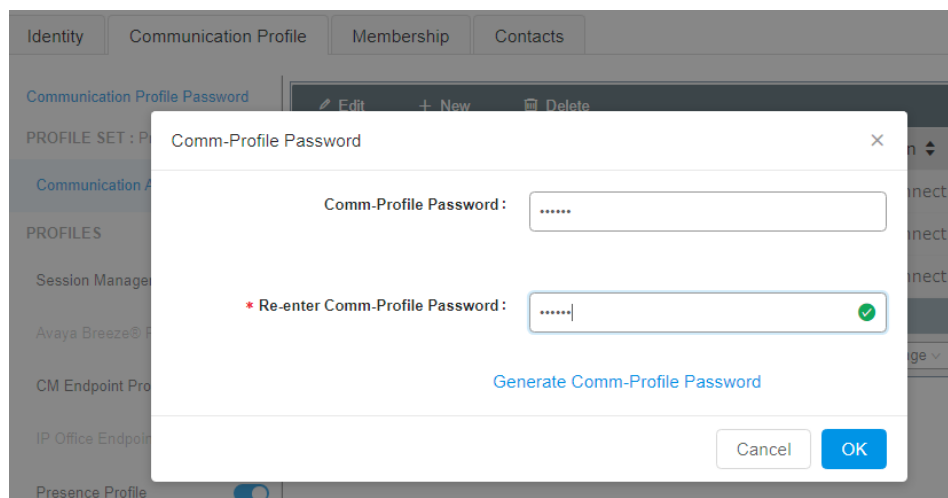


On the Identity tab, enter an identifying **Last Name** and **First Name**, enter an appropriate **Login Name**, set **Authentication Type** to **Basic** and administer a password in the **Password** and **Confirm Password** fields.



The screenshot shows the 'Identity' tab with the 'Basic Info' section selected. The 'User Provisioning Rule' is set to 'DevConnect'. The 'Last Name' is 'BT' and 'First Name' is 'Ext1'. The 'Login Name' is '71009@devconnect.c'. The 'Description' is 'Description Of User'. The 'Password' field is masked with dots. The 'Confirm Password' field is empty. The 'Endpoint Display Name' is 'BT, Ext1'. The 'Last Name (in Latin alphabet)' is 'BT' and 'First Name (in Latin alphabet)' is 'Ext1'. The 'Middle Name' is 'Middle Name Of User'. The 'Email Address' is 'Email Address Of User'. The 'User Type' is 'Basic'. The 'Localized Display Name' is 'BT, Ext1' and the 'Title Of User' is 'admin'.

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



The screenshot shows the 'Communication Profile Password' dialog box. It has two input fields: 'Comm-Profile Password' and 'Re-enter Comm-Profile Password'. The 'Re-enter' field has a green checkmark next to it, indicating the passwords match. There is a 'Generate Comm-Profile Password' link and 'Cancel' and 'OK' buttons.



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

Type	Handle
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.

\* Type: Avaya SIP

\* Fully Qualified Address: 71009 @ devconnect.com

Cancel OK

Continue to scroll down on the same page. Enable **Session Manager Profile** and enter the **Primary Session Manager, Origination Application Sequence, Termination Application Sequence** and **Home Location** relevant to the implementation.

Communication Address	<b>* Primary Session Manager :</b> DevConnect-SMSIP <span>Q</span> <span>i</span>
PROFILES	<b>Secondary Session Manager :</b> Start typing... <span>Q</span> <span>i</span>
<b>Session Manager Profile</b> <span>ON</span>	<b>Survivability Server :</b> Start typing... <span>Q</span> <span>i</span>
Avaya Breeze® Profile <span>OFF</span>	<b>Max. Simultaneous Devices :</b> 3 <span>▼</span>
CM Endpoint Profile <span>ON</span>	<b>Block New Registration When Maximum Registrations Active? :</b> <input type="checkbox"/>
IP Office Endpoint Profile <span>OFF</span>	<b>Application Sequences</b>
Presence Profile <span>ON</span>	<b>Origination Sequence :</b> CM93-AppSeq <span>▼</span>
	<b>Termination Sequence :</b> CM93-AppSeq <span>▼</span>
	<b>Emergency Calling Application Sequences</b>
	<b>Emergency Calling Origination Sequence :</b> Select <span>▼</span>
	<b>Emergency Calling Termination Sequence :</b> Select <span>▼</span>
	<b>Call Routing Settings</b>
	<b>* Home Location :</b> SaiGon <span>Q</span>

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 you wish to use, select **9641SIP\_DEFAULT\_CM\_8\_1** as the **Template** and ensure **IP** is configured as the **Port**, click Commit & Continue (not shown) when finished.

Identity | Communication Profile | Membership | Contacts

Communication Profile Password

PROFILE SET : Primary

Communication Address

PROFILES

Session Manager Profile ☒

Avaya Breeze® Profile ☐

**CM Endpoint Profile ☒**

IP Office Endpoint Profile ☐

Presence Profile ☒

\* System: CM93

\* Profile Type: Endpoint

Use Existing Endpoints: ☐

\* Extension: 71009

Template: 9641SIP\_DEFAULT\_CM\_8\_1

\* Set Type: 9641SIP

Security Code: Enter Security Code

Port: IP

Voice Mail Number:

Preferred Handle: Select

Calculate Route Pattern: ☒

SIP Trunk: aar

SIP URI: Select

Delete on Unassign from User or on Delete User: ☒

Override Endpoint Name and Localized Name: ☒

Allow H.323 and SIP Endpoint Dual Registration: ☐

Click on **Endpoint Editor** in the **CM Endpoint Profile** and on the General options tab set **Type** of **3PCC Enabled** as **Avaya**.

General Options (G) \* | Feature Options (F) | Site Data (S) | Abbreviated Call Dialing (A) | Enhanced Call Fwd (E)

Button Assignment (B) | Profile Settings (P) | Group Membership (M)

\* Class of Restriction (COR) 1

\* Emergency Location Ext 71009

\* Tenant Number 1

\* SIP Trunk aar

Coverage Path 1

Lock Message ☐

Multibyte Language Not Applicable

\* Class of Service (COS) 1

\* Message Lamp Ext. 71009

Type of 3PCC Enabled Avaya

Coverage Path 2

Localized Display Name BT, Ext1

Enable Reachability for Station Domain Control system

SIP URI

Attendant ☐

Click on **Feature Options (F)** tab, scroll down and check **IP SoftPhone** and **IP Video Softphone**. Click on **Done** to save changes and go back to the User Communication Profile screen.

**Features**

☐ Always Use
 ☐ IP Audio Hairpinning
 ☐ Bridged Call Alerting
 ☐ Bridged Idle Line Preference
 ☒ Coverage Message Retrieval
 ☐ Data Restriction
 ☒ Survivable Trunk Dest
 ☐ Bridged Appearance Origination Restriction
 ☒ Restrict Last Appearance
 ☐ Turn on mute for remote off-hook attempt
 ☐ IP Hoteling

☐ Idle Appearance Preference
 ☒ IP SoftPhone
 ☒ LWC Activation
 ☐ CDR Privacy
 ☒ Direct IP-IP Audio Connections
 ☐ H.320 Conversion
 ☒ IP Video Softphone
 ☐ Per Button Ring Control

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"/>	Alisson	Becker	Becker, Alisson	becker@avaya.com	+84833370004
<input type="checkbox"/>	9650	BT	BT, 9650	bt9650@devconnect.com	+84833370011
<input type="checkbox"/>	Ext1	BT	BT, Ext1	71009@devconnect.com	+84833371009
<input type="checkbox"/>	Ext2	BT	BT, Ext2	71010@devconnect.com	+84833371010
<input type="checkbox"/>	Ext3	BT	BT, Ext3	71011@devconnect.com	+84833371011
<input type="checkbox"/>	Ext4	BT	BT, Ext4	71012@devconnect.com	+84833371012
<input type="checkbox"/>	Ext5	BT	BT, Ext5	71013@devconnect.com	+84833371013
<input type="checkbox"/>	Ext6	BT	BT, Ext6	71014@devconnect.com	+84833371014
<input type="checkbox"/>	Ext7	BT	BT, Ext7	71015@devconnect.com	+84833371015
<input type="checkbox"/>	Ext8	BT	BT, Ext8	71016@devconnect.com	+84833371016

Select All
 

Total Users : 64
 1 2 3 4 5 6 7
 10 / page
 Goto

## 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**.

The screenshot shows the Avaya Aura System Manager 8.1 dashboard. The top navigation bar includes 'Users', 'Elements', 'Services', 'Widgets', and 'Shortcuts'. The 'Elements' menu is expanded, showing a list of system components. The 'Session Manager' component is selected, and its sub-menu is displayed, showing 'Network Configuration' and 'Local Host Name Resolution'. The 'Local Host Name Resolution' option is highlighted. The background of the dashboard shows various system resource utilization charts and a table of system elements.

Elements	Count	Sync Sta
AES	1	■
Avaya Aura Device Services	1	■
Avaya Aura Web Gateway	1	■
Avaya Breeze	3	■
AvayaAuraMediaServer	2	■
CM	3	■

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

### New Local Host Name Entries

[Commit](#) [Cancel](#)

#### 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**

The screenshot shows the Avaya Aura System Manager 8.1 interface. The top navigation bar includes the Avaya logo, "Aura® System Manager 8.1", and tabs for "Users", "Elements", "Services", and "Widgets". The "Elements" tab is selected, and the "Routing" sub-tab is active. On the left, a sidebar menu lists "Routing", "Domains", "Locations", "Conditions", "Adaptations", "SIP Entities" (highlighted), "Entity Links", and "Time Ranges". The main content area is titled "SIP Entities" and features a toolbar with "New", "Edit", "Delete", "Duplicate", and "More Actions" buttons. Below the toolbar, it indicates "17 Items" and displays a list of SIP entities with checkboxes and names: "BTCluster", "CMTrunk PSTNSIP", "DevConnect-AACC88", "DevConnect-AAWG138", "DevConnect-BreezeSIP", "DevConnect-BreezeSIP242", and "DevConnect-BSM134".

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

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.

[Help ?](#)

### SIP Entity Details

#### General

\* Name:

\* FQDN or IP Address:

Type:

Notes:


Minimum TLS Version:

Credential name:

Securable: ☐

#### Entity Links

Override Port & Transport with DNS SRV: ☐

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_BTCl	<input type="text" value="DevConnect-SMSIP"/>	<input type="text" value="TCP"/>	* <input type="text" value="5060"/>	<input type="text" value="BTCluster"/>	* <input type="text" value="5060"/>	<input type="text" value="endpt conc"/>	<input type="checkbox"/>

Select : All, None

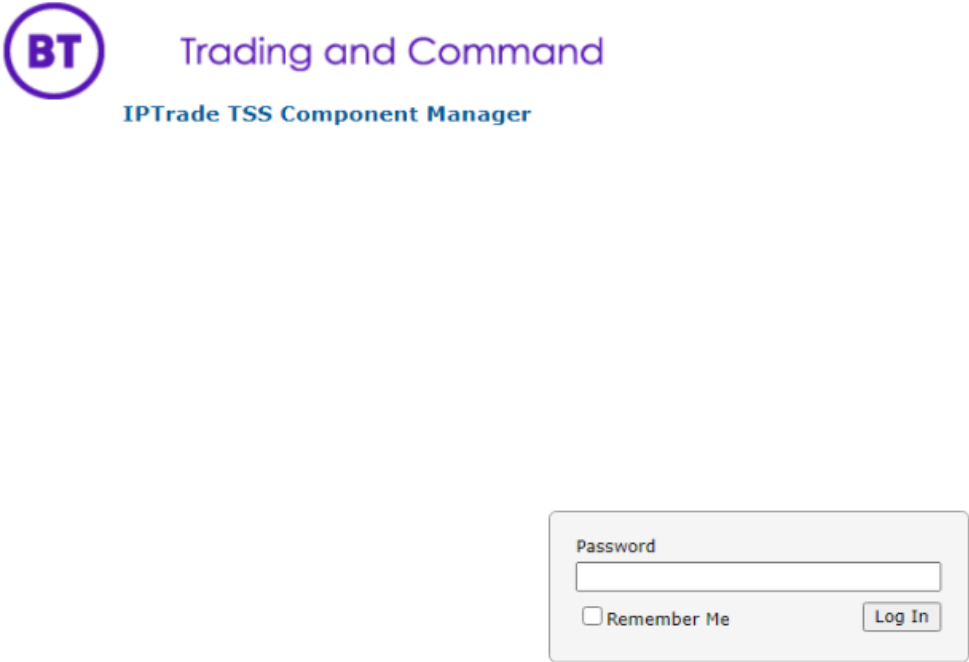
## 7. Configure the BT Trading System

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.

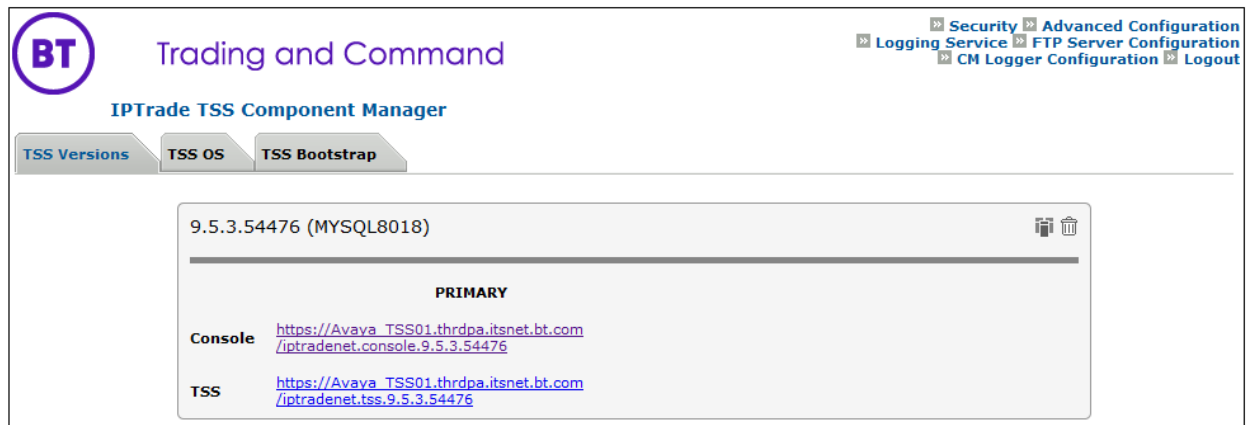
From a Web browser, navigate to the IP Address of the TSS. Enter the correct password and click on **Log In**.



The screenshot shows a web interface for the BT Trading and Command IPTrade TSS Component Manager. At the top left is the BT logo, followed by the text "Trading and Command" and "IPTrade TSS Component Manager". In the center, there is a login form with a "Password" label, a text input field, a "Remember Me" checkbox, 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

9.5.3.54476 (MYSQL8018)

PRIMARY

Console [https://Avaya\\_TSS01.thrdpa.itsnet.bt.com/iptradenet.console.9.5.3.54476](https://Avaya_TSS01.thrdpa.itsnet.bt.com/iptradenet.console.9.5.3.54476)

TSS [https://Avaya\\_TSS01.thrdpa.itsnet.bt.com/iptradenet.tss.9.5.3.54476](https://Avaya_TSS01.thrdpa.itsnet.bt.com/iptradenet.tss.9.5.3.54476)

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



BT Trading and Command

Log In

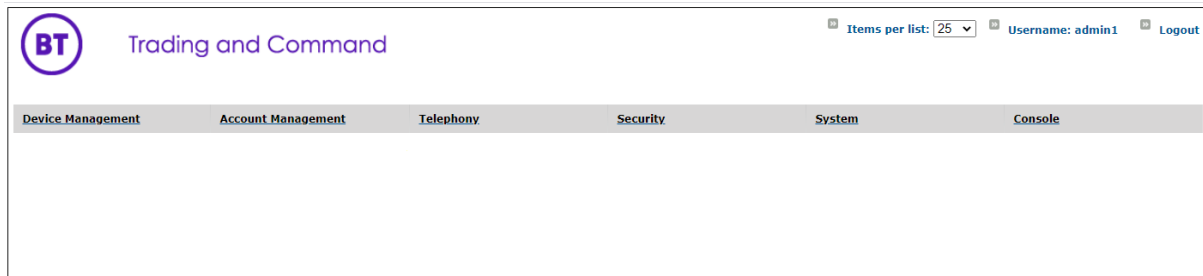
User Identifier

Password

☐ Remember my login on this computer

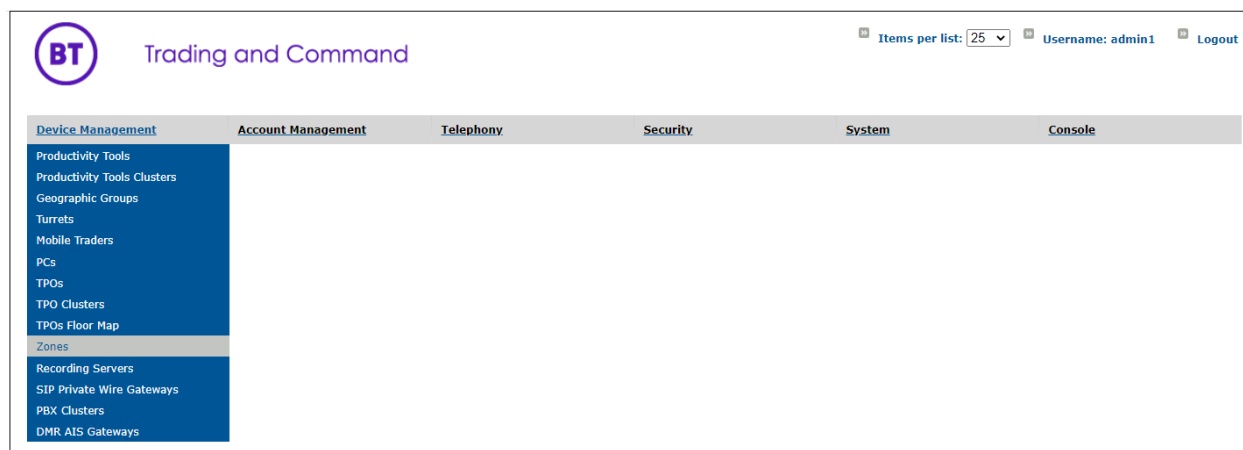
Log In

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 the name of new Avaya Zone here its Avaya Aura Zone and **Update**.

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 update Avaya Session Manager IP address to 10.30.5.92 and other highlighted parameters 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

PBX Features	Name	Value	Description
Recorder	<input checked="" type="checkbox"/> Use bulk registration (Cisco only)	<input type="radio"/> true <input checked="" type="radio"/> false	?
RTP	<input type="checkbox"/> MSG Proxy Transport Type	TCP	?
Search	<input type="checkbox"/> MSG Encoding		?
Session	<input checked="" type="checkbox"/> SIP Compatibility mode	ccm50	?
Shortcut Notification	<input checked="" type="checkbox"/> SIP local domain	10.30.5.92	?
SIP	<input checked="" type="checkbox"/> SIP Connection mode	TCP	?
SNMP	<input checked="" type="checkbox"/> SIP Proxy Transport Type	TCP	?
Sync	<input checked="" type="checkbox"/> Fast media connection on SIP Ringing state	<input checked="" type="radio"/> true <input type="radio"/> false	?
Text messaging	<input checked="" type="checkbox"/> SIP Local IP Ports	5060	?
Timezone	<input type="checkbox"/> Parking mode	<input type="radio"/> tpo <input type="radio"/> adhoc	?
TPO	<input type="checkbox"/> SIP Manage Unsolicited messages	<input checked="" type="radio"/> true <input type="radio"/> false	?

Update Refresh

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

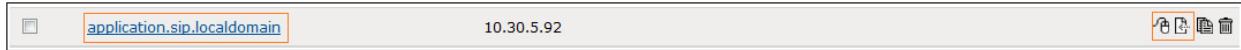
Basic Mode Expert Mode **Advanced Mode**

Refresh Add new Bulk admin selected Provisioning 1 / 1

Parameter *	Value
application.bscg.alternateServiceURI	
application.bscg.baseServiceURI	https://Avaya_TSS01.thrdpa.itsnet.bt.com/IpradeNet.TSS.9.6.1
<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-mod
<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.koml.enabled	false
<input type="checkbox"/> application.sip.localdomain	10.30.5.92
<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

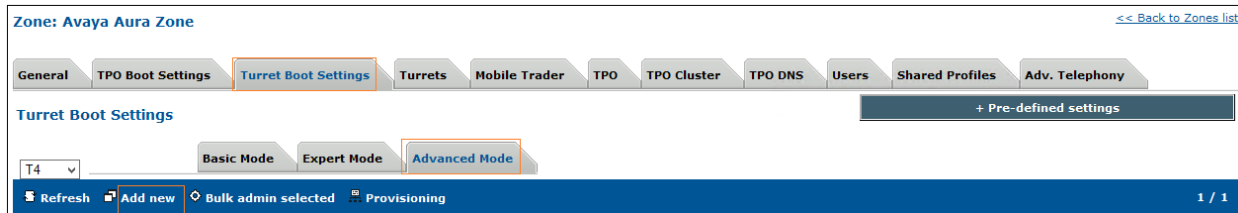
Refresh Add new Bulk admin selected Provisioning 1 / 1

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.



application.sip.localdomain 10.30.5.92

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 Avaya Session Manager. In this example, the IP Address is 10.30.5.92 When complete, select **Update and Go Back**.



<< Back to Zones list > Avaya Aura Zone

Name \* application.sip.localdomain

Value 10.30.5.92

Update and Go Back Reset Refresh Cancel Delete

Finally, please 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 ModeExpert ModeAdvanced Mode

Refresh
Add new
Bulk admin selected
Provisioning
1 / 1

Parameter *	Value	
application.bscg.alternateServiceURI		
application.bscg.baseServiceURI	https://Avaya_TSS01.thrdpa.itsnet.bt.com/IpradeNet.TSS.9.6.1	
<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-mod	
<input type="checkbox"/> application.sip.call.fastmediacnect	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.koml.enabled	false	
<input type="checkbox"/> application.sip.localdomain	10.30.5.92	
<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	

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: 25
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

refresh
Add new
Bulk admin selected
1 / 1

Zone	Comment	Last modification date *	
Avaya Aura Zone		12/17/2020 10:56:22 AM	
Avaya TPO Zone		2/9/2021 3:47:23 PM	
CUCM Zone		12/3/2018 11:44:08 AM	

refresh
Add new
Bulk admin selected
1 / 1

Select **Add new** TPO Cluster and assign name.

BT Trading and Command

Items per list: 25 Username: admin1 Logout

Device Management Account Management Telephony Security System Console

Device Management: TPO Cluster Edition

<< 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 **Avaya-Aura-Cluster** → **Boot Settings** and configure Session Manager IP and other parameters shown in below picture.

BT Trading and Command

Items per list: 25 Username: admin1 Logout

Device Management Account Management Telephony Security System Console

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

<< 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	10.30.5.92	?
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 checked="" 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	?
Media	<input checked="" type="checkbox"/> SIP Local IP addresses	10.30.5.92	?
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		?

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

The screenshot shows the BT Trading and Command web interface. At the top, there's a header with the BT logo, the text "Trading and Command", and user information: "Items per list: 25", "Username: admin1", and a "Logout" link. Below the header is a navigation bar with tabs: "Device Management", "Account Management", "Telephony", "Security", "System", and "Console". Under "Device Management", there are sub-tabs: "General", "Boot Settings", "Settings", "TPO Cluster", "TPO Places", and "TPO Lines". The "Boot Settings" tab is selected, and within it, the "Advanced Mode" sub-tab is active. A table lists various parameters for provisioning, including application.bscg.alternateServiceURI, application.bscg.baseServiceURI, application.mm.nvDTMFploadType, application.mm.nvsupportedcodecs, application.mm.nvsupportedcodecs.video.H264, application.mm.video.enable, application.sip.connection.loadaddress, application.sip.connection.mode, application.sip.connection.port, application.sip.enableTCP, application.sip.localdomain, application.sip.non-standard.com50.offhold.header, application.sip.non-standard.com50.onhold.header, and application.sip.proxy.transporttype. Each row shows the parameter name, its value, and the level (Zone or TPO Cluster). At the bottom of the table, there are icons for Refresh, Add new, Bulk admin selected, and Provisioning, along with a "1 / 1" indicator.

Parameter *	Value	Level
application.bscg.alternateServiceURI		Zone
application.bscg.baseServiceURI	https://Avaya_TSS01.thrdpa.itsnet.bt.com/IptradeNet.TSS.9.6.1	Zone
<input type="checkbox"/> application.mm.nvDTMFploadType	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.loadaddress	10.30.5.92	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	10.30.5.92	TPO Cluster
<input type="checkbox"/> application.sip.non-standard.com50.offhold.header	dummy	TPO Cluster
<input type="checkbox"/> application.sip.non-standard.com50.onhold.header	dummy	TPO Cluster
<input type="checkbox"/> application.sip.proxy.transporttype	TCP	TPO Cluster

Select Device Management and navigate to TPOs.

The screenshot shows a dropdown menu for "Device Management". The menu items are: "Productivity Tools", "Productivity Tools Clusters", "Geographic Groups", "Turrets", "Mobile Traders", "PCs", "TPOs" (highlighted with an orange box), "TPO Clusters", "TPOs Floor Map", "Zones", "Recording Servers", "SIP Private Wire Gateways", "PBX Clusters", and "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.

A screenshot of the 'Trading and Command' web interface. The header shows the BT logo, the title 'Trading and Command', and user information: 'Items per list: 25', 'Username: admin1', and a 'Logout' link. Below the header is a navigation bar with tabs: 'Device Management', 'Account Management', 'Telephony', 'Security', 'System', and 'Console'. The 'Device Management' tab is active. The main content area is titled 'Device Management: TPO Edition' and includes a '<< Back to TPOs list' link. Under the 'General' section, there are several form fields: 'Device Identifier \*' with the value 'AvayaTPO01' (highlighted with an orange box), 'Zone' with a dropdown menu showing 'Avaya Aura Zone' (highlighted with an orange box), 'Recording Server' with a dropdown menu showing 'Inherited', and a 'Comment' text area with the value 'Avaya TPO-1'. Below these are 'Bootstrap Version' and 'Firmware Version' dropdown menus, both set to 'Default' and linked to 'Inherited from global config'. At the bottom, there is a 'Log tracing configuration' section with a '+ Log tracing configuration' button and a row of buttons: 'Save and Go Back', 'Save and Edit', 'Save and Add Another', 'Reset', and 'Cancel'.

Link newly added TPO's to Avaya-Aura-Cluster TPO cluster. Navigate to **Device Management** → **TPO Clusters** → **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.

Select the TPO Redundancy mode to 'Session Persistency'

The screenshot shows the Avaya Aura Device Management interface. The top navigation bar includes 'Device Management', 'Account Management', 'Telephony', 'Security', 'System', and 'Console'. The 'TPO Cluster' tab is selected. The 'TPO Redundancy Mode' is set to 'Session Persistency'. A modal window titled '- Available TPO Nodes' is open, showing a list of available nodes: AvayaTPO1, AvayaTPO2, and AvayaTPO3, all of which are selected with checkboxes. A 'Link Selected' button is visible at the bottom of the modal. The main page has a navigation bar with tabs for General, Boot Settings, Settings, TPO Cluster, TPO Places, and TPO Lines. The TPO Cluster tab is active. At the bottom, there is a table header for the TPO nodes.

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

### 7.1.3.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 web 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 a 'Logout' link. Below the header, a navigation bar shows 'Device Management' as the active section, with other tabs like 'Account Management', 'Telephony', 'Security', 'System', and 'Console'. The main content area is titled 'Zone: Avaya Aura Zone' and includes a '<< Back to Zones list' link. Underneath, there's a sub-navigation bar with tabs: 'General', 'TPO Boot Settings', 'Turret Boot Settings', 'Turrets' (which is selected), 'Mobile Trader', 'TPO', 'TPO Cluster', 'TPO DNS', 'Users', 'Shared Profiles', and 'Adv. Telephony'. The 'Turrets' section has a 'Device Identifier' search bar with a 'Search' button. Below the search bar, there are two columns. The left column, 'Available Turrets (4)', contains a list of four turrets: '3PA-Turret-01 (Avaya Aura Zone)', '3PA-Turret-02 (Avaya Aura Zone)', '3PA-Turret-03 (Avaya Aura Zone)', and 'DESKDEV42 (Avaya Aura Zone)'. Each item has a blue checkmark to its left. The right column, 'Selected Turrets (0)', is currently empty. Between these two columns is a button labeled 'Add >>' and a button labeled '<< Remove'.

Select the **TPO Clusters** 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 << Back to Zones list

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

TPO Cluster

Name  Search

Available TPO Clusters (3)

- ☐ Avaya-IPO-Cluster (Avaya IPO Zone)
- ☐ Cisco-TPO-Cluster (CUKM 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 << Back to Zones list

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

TPO Cluster

Name  Search

Available TPO Clusters (2)

- ☐ Avaya-IPO-Cluster (Avaya IPO Zone)
- ☐ Cisco-TPO-Cluster (CUKM 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 Clusters** → **Avaya Aura Cluster** and configure TPO lines by selecting the **TPO Lines** tab and select **Add new**

The screenshot displays the BT Trading and Command web interface. At the top, the header includes the BT logo, the text "Trading and Command", and user information: "Items per list: 25", "Username: admin1", and a "Logout" link. Below the header, a navigation bar shows "Device Management" as the active section, with other options like "Account Management", "Telephony", "Security", "System", and "Console". Under "Device Management", a sub-navigation bar highlights "TPO Lines" (which is also outlined with an orange box in the image), with other sub-options being "General", "Boot Settings", "Settings", "TPO Cluster", and "TPO Places". A link "<< Back to TPO Clusters list" is visible on the right. The main content area is titled "TPO Lines" and contains a "+ Configuration fetch" button. At the bottom, a dark blue action bar includes "Refresh", "Add new" (highlighted with an orange box), "Bulk admin selected", and "Provisioning". The page number "1 / 1" is shown in the bottom right corner.

Enter the data as below.

**Extension:** The Avaya Number defined in Section 6.1

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

**SIP Display Name:** Define the Avaya Number again.

**SIP Password:** The Communication Profile Password that you set on the Avaya Session Manager.

**SIP Digest:** Define the Avaya Number again.

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

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

The screenshot displays the BT Trading and Command web interface. At the top, there is a navigation bar with the BT logo, the text "Trading and Command", and user information: "Items per list: 25", "Username: admin1", and a "Logout" link. Below the navigation bar is a sub-header "TPO Cluster: TPO Line Edition". A horizontal menu contains tabs for "Device Management", "Account Management", "Telephony", "Security", "System", and "Console". The main content area is a form titled "TPO Line Edition". It includes the following fields and controls:

- Local Extension \***: Text input field containing "71009".
- Fetch Type**: Text input field containing "Not Fetched".
- Place**: Text input field.
- ITS Line**: Check box, currently unchecked.
- Register**: Radio buttons for "No" and "Yes", with "Yes" selected.
- End User Credentials**: Check box, currently unchecked.
- PBX Cluster \***: Dropdown menu showing "10.30.5.92".
- SIP Display Name**: Text input field containing "71009".
- SIP Password**: Text input field containing masked characters "\*\*\*\*\*".
- SIP Digest**: Text input field containing "71009".
- SIP Domain**: Text input field containing "10.30.5.92".
- SIP Contact ID**: Text input field.
- SIP Device ID**: Text input field.
- SIP Line Index**: Text input field.
- IP Address**: Text input field.
- SDP IP Address**: Text input field.
- T3MH Listening port**: Text input field.
- Access Point Extension**: Radio buttons for "Yes" and "No", with "No" selected.

At the bottom of the form are four buttons: "Save and Go Back", "Save and Add Another", "Reset", and "Cancel". A link at the top right of the form area reads "<< Back to TPO Cluster list > Avaya-Aura-Cluster".

Once complete, select **Save and Go Back**(not shown).  
Select **TPO Places** and **Add new**

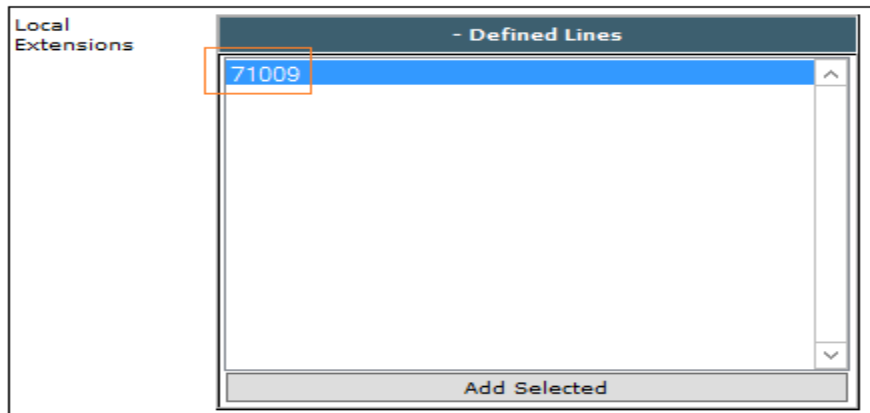


In the first instance, create a **Name**. Select the **Group ID** used. Ensure **RingdownDynamic** is selected as the **Place Type**.

In the VirtualSlot Extensions, 7100901 to 7100903 are specified. This will create three appearances for the 71009 DDI line which are associated with Avaya, 71009**01** is Slot 1, 71009**02** is Slot 2 and 71009**03** and Link the Line to the TPO Place by selecting the grey **Defined Lines** box.

The screenshot shows the BT Trading and Command web interface for configuring a TPO Place. The header includes the BT logo, "Trading and Command", and user information: "Items per list: 25", "Username: admin1", and "Logout". The sub-header is "TPO Cluster: TPO Place Edition (71009)". A navigation bar has tabs: "Device Management", "Account Management", "Telephony", "Security", "System", and "Console". Below the navigation bar, there's a link: "<< Back to TPO Cluster list > Avaya-Aura-Cluster". The "General" tab is selected. The form contains the following fields and options: "Name \*:" with a text input containing "71009" (highlighted with an orange box); "Comment:" with a text area containing "DDI\_Line\_71009"; "Group ID\*:" with a dropdown menu showing "1" (highlighted with an orange box); "Default RTP Frame Size (ms):" with radio buttons for 10, 20 (selected), and 30; "MasterCall RTP Frame Size (ms):" with radio buttons for 10, 20 (selected), and 30; "Default Volume amp (dB):" with a dropdown menu showing "0"; "MasterCall Volume amp (dB):" with a dropdown menu showing "0"; "Place Type:" with a dropdown menu showing "RingdownDynamic" (highlighted with an orange box); "Critical" checkbox (unchecked); "State:" dropdown menu showing "Stopped"; "Virtual Slot Extensions \*" with a text input containing "7100901" and a range selector "-" and "7100903" (both highlighted with orange boxes); and an "Add Slot Properties" checkbox (unchecked).

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** 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	<input type="checkbox"/>

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			
<input type="checkbox"/>	AvayaTPO2	172.27.130.4	2		Idle	R9.5_3.54480		
<input type="checkbox"/>	AvayaTPO3	172.27.130.5	3		Idle	R9.5_3.54480		

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

<< 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

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	R9.5_3.54480	1	Active
<input type="checkbox"/>	AvayaTPO2	172.27.130.4	2		Passive	R9.5_3.54480		Passive
<input type="checkbox"/>	AvayaTPO3	172.27.130.5	3		Passive	R9.5_3.54480		Passive

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"/>	71009		RingdownDynamic	1	AvayaTPO1 (Alive)	Stopped	

Once the line registers, it will display a status Alive **started**.

TPO Places							8 places: 1 Started 7 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"/> 71009		RingdownDynamic	1	AvayaTPO1 (Alive)	Started		<input type="checkbox"/>

## 7.1.4.Add Users:

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



Select **Add new**.



Enter the information regarding the user below. For this example, the username 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

Items per list: 25 Username: admin1 Logout

Account Management: Shared Profiles

Device Management Account Management Telephony Security System Console

Users

Server time: 04:28:10  
Last refresh time: 04:27:52 Refresh Add new Bulk admin selected 1 / 1

Name *	Zone	Comment	Last modification date *
Avaya Aura Shared Profile	Avaya Aura Zone		2/26/2021 4:27:35 AM

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

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

General

Type Turret ☐ Desk

Profile Name \* Avaya Aura Shared Profile

Zone Avaya Aura Zone

Recording Server Inherited

Comment

Editable All

Last Update DateTime 2/26/2021 4:27:35 AM

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

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

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.

**BT Trading and Command**

Items per list: 25 Username: admin1 Logout

**Account Management: Line Edition (71009)**

Device Management Account Management **Telephony** Security System Console

Status: Not connected

**General**

Type: DDI Sharing Line

Line subscription state: Subscribed

Priority: None

Call events dispatching: All but incoming

Extension \*: 71009

TPO Name (or TPO DNS Name): btcluster.avaya.com

Voice recording: No

Msg Waiting Indicator: Yes

Default DDI: Yes

Default Global Line: No

Queue Type: None

Radio: No

**SIP**

SIP Display Name \*: 71009

**Automatic action**

Incoming Auto Accept Delay: Default

Held Auto Forward Delay: Default

Held Auto Forward Target:

Dispatch Monitor Auto Recall Delay: Off

Dispatch Monitor Auto Recall Target:

Auto Hold Mode: No

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

Select **Update** and **Go Back** when completed.

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

**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

<< Back to Shared Profiles list

**Lines**

☐ Group Lines

Server time: 04:46:39 Last refresh time: 04:46:16 Refresh Add new Bulk admin selected Clear overwritten values Provisioning 1 / 1

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

Server time: 04:46:39 Last refresh time: 04:46:16 Refresh Add new Bulk admin selected Clear overwritten values Provisioning 1 / 1

Update Refresh

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.

The screenshot displays the Avaya Aura Shared Profile Edition interface. The top navigation bar includes the BT logo, the title "Trading and Command", and user information: "Items per list: 25", "Username: admin1", and a "Logout" link. Below this, the "Account Management: Shared Profile Edition (Avaya Aura Shared Profile)" section is active, with tabs for "Device Management", "Account Management", "Telephony", "Security", "System", and "Console". The "Shortcuts" tab is selected under the "Account Management" section. A "Hold shortcut changes" button is visible. The "Shortcut Pages" section shows a table with one entry, "Avaya KP1", with a "Positional" display option. The "Shortcuts" section shows a "Page selection" dropdown set to "Avaya KP1". Below this is a table of shortcuts for the selected profile.


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

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.

 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

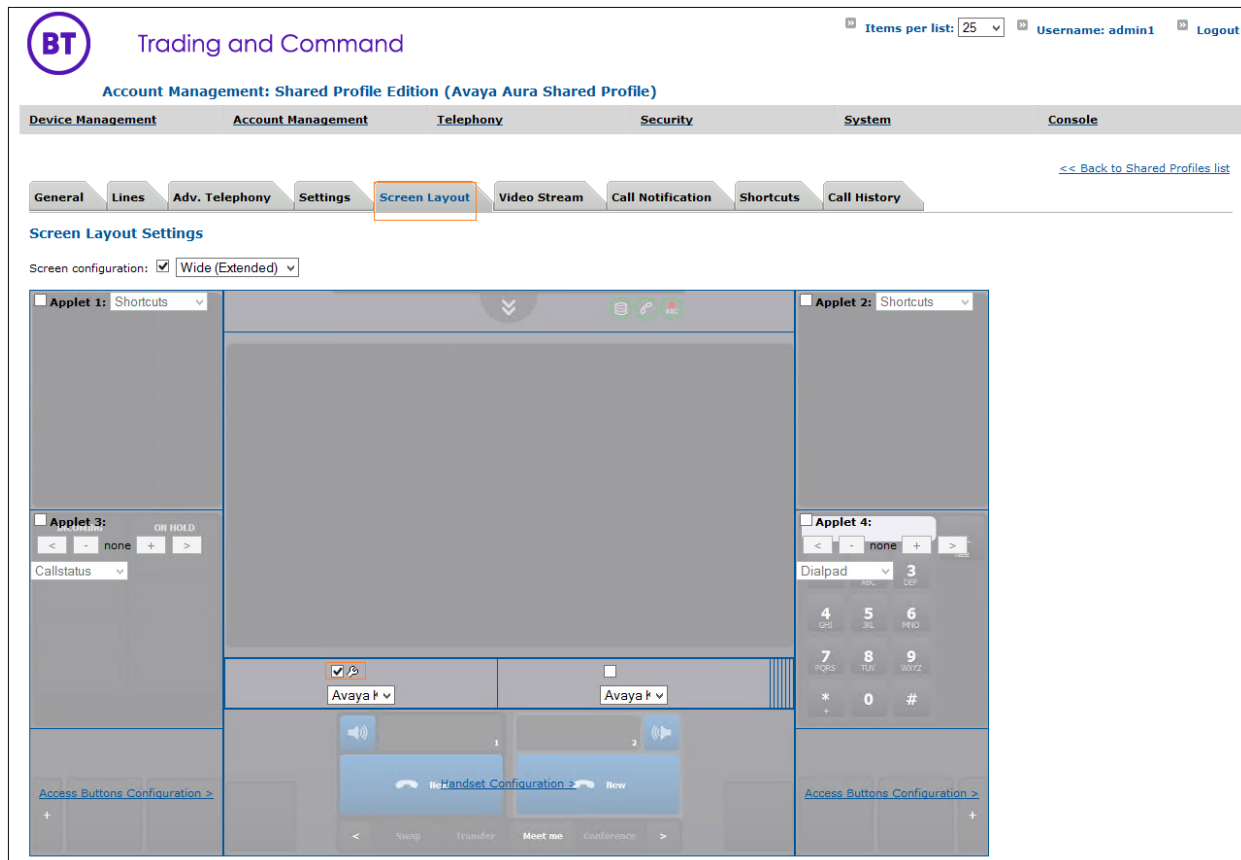
<< Back to Shared Profiles list > Avaya Aura Shared Profile

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

Once complete, select **Update and Go Back**. Next, select the Screen Layout tab from the top menu bar.

Select the Key page 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 you have just 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 shortcut into the Linked shortcuts window.



Select **Update** and **Go Back** after linking the shortcuts.

Navigate to Shared Profile Setting tab, ensure that all the advanced settings are present as per the picture 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

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 picture below. Select **Search**.

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

**Attached users**

User Name  (All) Search

☒ **Available Users (3)**

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

☐ **Selected Users (0)**

Add >>  
<< Remove

**Directories**

☐ **Available Directories (0)**

Add >>

☐ **Selected Directories (0)**

**Attached users**

User Name  (All) Search

☐ **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**.

To confirm, select the User and check if the user is showing as added into the Shared Profile.

The screenshot shows a web interface titled "Parent profiles". At the top, there is a "Desk profile" dropdown menu set to "None" and a "Profile Name" search field with a "(All)" filter and a "Search" button. Below these are two main panels: "Available Profiles (0)" on the left and "Selected Profiles (1)" on the right. The "Selected Profiles" panel contains one entry, "Avaya Aura Shared Profile (Shared)", which is highlighted with a red border. Between the two panels are two buttons: "Add >>" and "<< 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 user is listed and will show a tick in the **Prim** box under **Registered**.

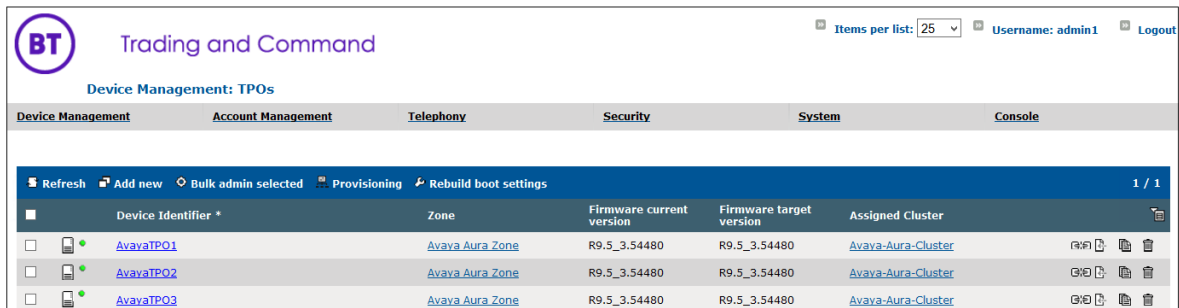
#### User Registrations

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 ▾						
55 Items  Show 15 ▾						
<input type="checkbox"/>	Details	Address ▾	First Name	Last Name	Actual Location	IP Address
<input type="checkbox"/>	► Show	71014@devconnect.com	Ext6	BT	---	172.27.130.3
<input type="checkbox"/>	► Show	71013@devconnect.com	Ext5	BT	---	172.27.130.3
<input type="checkbox"/>	► Show	71012@devconnect.com	Ext4	BT	---	172.27.130.3
<input type="checkbox"/>	► Show	71011@devconnect.com	Ext3	BT	---	172.27.130.3
<input type="checkbox"/>	► Show	71010@devconnect.com	Ext2	BT	---	172.27.130.3
<input type="checkbox"/>	► Show	71009@devconnect.com	Ext1	BT	---	172.27.130.3

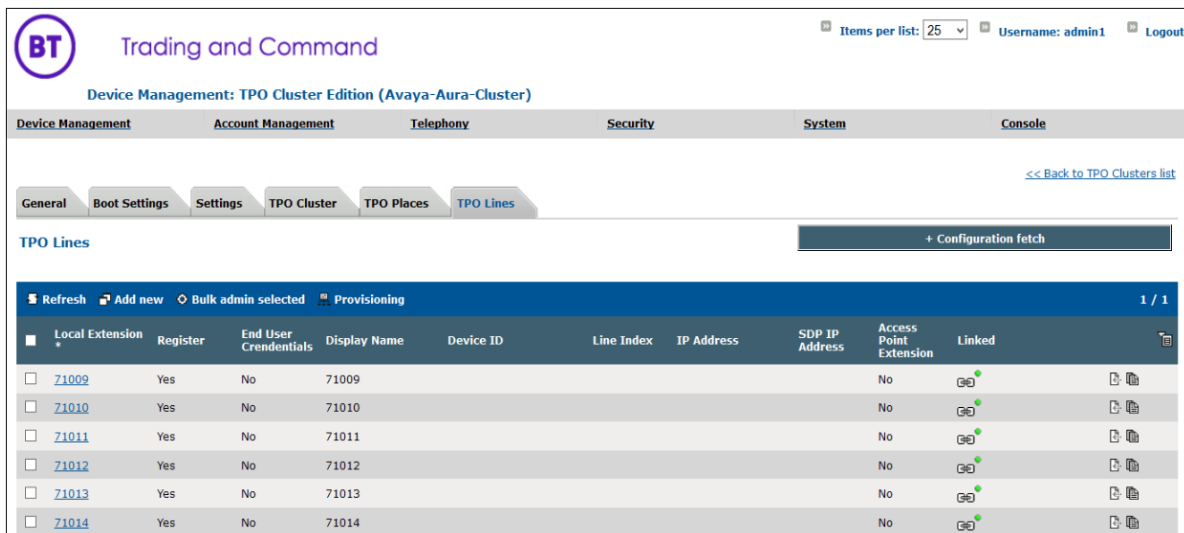
## 8.2. BT Trading Platform Verification

In Device Management -> TPOs, ensure that the TPO is reachable appear in the Green Status as shown below.



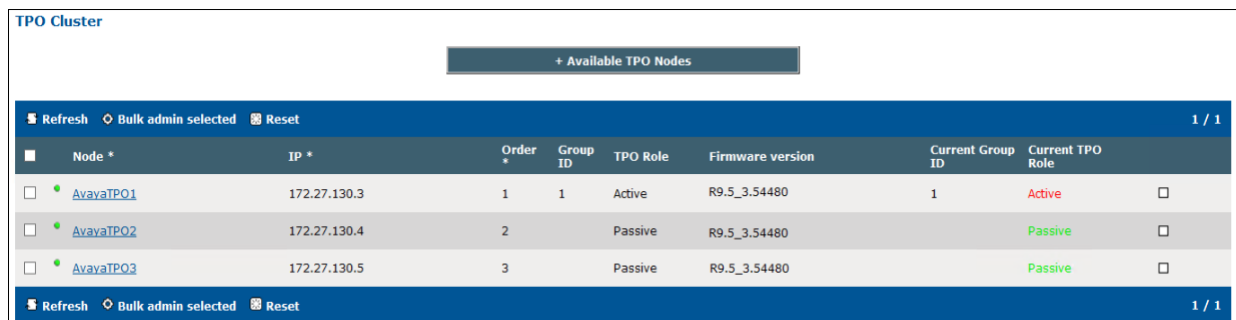
Device Identifier *	Zone	Firmware current version	Firmware target version	Assigned Cluster
AvayaTPO1	Avaya Aura Zone	R9.5_3.54480	R9.5_3.54480	Avaya-Aura-Cluster
AvayaTPO2	Avaya Aura Zone	R9.5_3.54480	R9.5_3.54480	Avaya-Aura-Cluster
AvayaTPO3	Avaya Aura Zone	R9.5_3.54480	R9.5_3.54480	Avaya-Aura-Cluster

In Device Management -> TPO Clusters -> Avaya Aura TPO 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 TPO must show a green status and as Active.



Node *	IP *	Order *	Group ID	TPO Role	Firmware version	Current Group ID	Current TPO Role
AvayaTPO1	172.27.130.3	1	1	Active	R9.5_3.54480	1	Active
AvayaTPO2	172.27.130.4	2		Passive	R9.5_3.54480		Passive
AvayaTPO3	172.27.130.5	3		Passive	R9.5_3.54480		Passive

Lastly select the TPO Places Tab (not shown). All lines show a status of Started, this indicates that the TPO has registered the line to the Avaya Session Manager.

Place Name *	Connected to	Place Type *	Group ID *	TPO	State	SIP Device ID
<input type="checkbox"/> Z1009		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Started	
<input type="checkbox"/> Z1010		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Started	
<input type="checkbox"/> Z1011		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Started	
<input type="checkbox"/> Z1012		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Started	
<input type="checkbox"/> Z1013		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Started	
<input type="checkbox"/> Z1014		RingdownDynamic	1	<a href="#">AvayaTPO1 (Alive)</a>	Started	

## 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, Release 8, Issue 2.0, Nov 2018*
- ii. *Administering Avaya Aura® Session Manager, Release 8, Issue 2, August 2018*
- iii. *Administering Avaya Aura® System Manager, Release 8, Issue 4, September 2018*

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

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