

Avaya Solution & Interoperability Test Lab

# Application Notes for IP Trade Voice Trading Solution with Avaya Aura® Session Manager and Avaya Aura® Communication Manager using SIP Trunks – Issue 1.0

### Abstract

These Application Notes describe the configuration steps required for IP Trade Voice Trading Solution to interoperate with Avaya Aura® Session Manager and Avaya Aura® Communication Manager using SIP Trunks.

The IP Trade solution consists of a set of IP Trade turrets, a Turret Support Server (TSS), and a Turret Proxy to Open Line Dealing (TPO) server. The trading turrets, as well as the Open Line Dealing (OLD) extensions defined in the TPO server, register as SIP endpoints with Avaya Aura® Session Manager. This enables IP Trade devices to integrate with Avaya Aura® Communication Manager, Avaya Aura® Session Manager and, in the case of the turrets, Avaya Modular Messaging.

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

Application Notes describe the procedures for configuring IP Trade's IP-based trading floor solution to communicate with Avaya Aura® Session Manager, Avaya Aura® Communication Manager and Avaya Modular Messaging (MM).

The IP Trade solution consists of the following components:

- **Turret Support Server (TSS)**: The TSS provides security extensions, end user profile management, hunt group capabilities and bridges to middle-office applications.
- **IP Trade turret**: The IP Trade turret is SIP-based VoIP trading phone. Its call handling panel uses Avaya Communication Manager feature name extensions (FNE) and/or IP Trade Profile internal features to provide a variety of call features (e.g., Hold, Transfer, Conference, Call Park, Call Forward, Call Pickup, Call Dispatch, Barge-In, etc.).
- **Turret Proxy to Open Line Dealing (TPO) Server**: The TPO server serves as a proxy phone between a remote place via private wire or lines (referred to DDI Lines) registered to the local Avaya Communication Manager and locally shared on IP Trade end-users (turrets). When a local IP Trade end-user presses the button for respective private wire to reach the remote place, all of the other local IP Trade end users see that the line is in use and can also connect to the same remote location by means of the TPO conferencing and bridging, connecting IP Trade end user to the same "Open Line" locally over a single call to the remote location, and are each able to speak publicly or privately to that remote location
- While private wires are direct (point-to-point) connections to remote places, the same concept is applied to DDI Lines that are shared among local IP Trade end users. Shared DDI Line offer the following capabilities:
  - *Common lamping* Shared DDI lines can be mapped on programmable keys on several traders position and provide them in real-time with the state of line.
  - *Line sharing* Once the line is engaged on a call, traders can join/leave the line without any restrictions as they would do on private wires; similarly, the distant party can be put on hold by any trader and resumed from another position.
  - *Floating & line coverage* Whether call events are monitored or not and whether ringing lines are alerted in the float area or not can now be selected for each individual line and activated/deactivated on-demand.
  - *Telephony functions* The main telephony functions remain available on shared DDI lines and enables traders to transfer the distant party to another extension, to conference external parties – i.e. IP phones, external lines – , to forward the line, to switch "do not disturb" on/off and to receive MWI notifications. DTMF are also supported.

In these Application Notes, the TPO server registers many SIP endpoints as Shared DDI Lines or as single lines for private wires with Avaya Aura® Session Manager . One Avaya IP extension was used for a simulated private wire remote place.

# 2. General Test Approach and Test Results

The feature test cases were performed manually. Calls were manually established among IP Trade turret users with Avaya SIP, Avaya H.323, PSTN users, and/or the Avaya Modular Messaging voicemail pilot to verify MWI scenarios.

The serviceability test cases were performed manually by disconnecting and reconnecting the LAN connection to IP Trade TSS.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

### 2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing. The feature testing included subscriber login, greeting, leaving and retrieving voice message, message waiting indicator, unconditional call forward, blind and attended transfer, hold and resume, conference, and Private Line Automatic Ringdown (PLAR).

The serviceability testing focused on verifying the ability of IP Trade Voice Trading Solution to recover from adverse conditions, such as disconnecting/reconnecting the LAN connection to the TSS server.

### 2.2. Test Results

All test cases were executed and verified. The following were the observations on IP Trade from the compliance testing.

• Avaya did not interpret DMTF digits from IP Trade endpoints, so the DTMF tests only covered the IP Trade interpretation of DMTF digits from the Avaya side. During the voicemail retrieving scenario, DTMF from IP Trade side was verified.

### 2.3. Support

Technical support on IP Trade Voice Trading Solution can be obtained through the following:

- **Phone:** +32 494 53 41 94
- Email: Support@iptrade-networks.com

# 3. Reference Configuration

As shown in **Figure 1** below, IP Trade Voice Trading Solution consists of the Turret Support Server, Turret Proxy to Open Line Dealing Server, and IP Trade turret. During the compliance test, IP Trade turrets are registered with Session Manager.

The detailed administration of basic connectivity among Avaya Aura® Communication Manager, Avaya Aura® Session Manager, and Avaya Modular Messaging is not the focus of these Application Notes and will not be described.

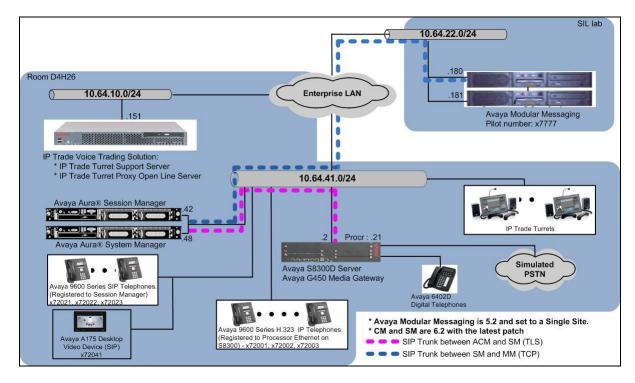


Figure 1: Test Configuration of IP Trade

# 4. Equipment and Software Validated

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

Equipment	Software
Avaya Aura® Communication Manager on Avaya S8300D Server	6.2 (R016x.02.0.823.0-20001)
Avaya Aura® Session Manager	6.2.2.0622005
Avaya Aura® System Manager	6.2.12.0
<ul> <li>Avaya Modular Messaging</li> <li>Messaging Storage Server</li> <li>Messaging Application Server</li> </ul>	5.2 SP9 P4 5.2 SP9 P4
Avaya A175 Desktop Video Device (SIP)	1.1.1
Avaya 96xx IP Telephone (H.323)	3.1
Avaya 96xx IP Telephone (SIP)	2.6.8
IP Trade Voice Trading Solution	
Turret Support Server	7.1.20852
Turret Proxy to Open Line Dealing Server	7.1.20843
• IP Trade turret	7.1.21096

# 5. Configure Avaya Aura® Communication Manager

This section provides the procedures for configuring Communication Manager. The procedures include the following areas:

- Verify Communication Manager license
- Administer SIP trunk group
- Administer SIP signaling group
- Administer IP network region
- Administer IP codec set
- Administer route pattern
- Administer private numbering
- Administer uniform dial plan
- Administer AAR analysis
- Administer public Unknown Numbering for PSTN

#### 5.1. Verify Communication Manager License

Log into the System Access Terminal (SAT) to verify that the Communication Manager license has proper permissions for features illustrated in these Application Notes. Use the "display system-parameters customer-options" command. Navigate to **Page 2**, and verify that there is sufficient remaining capacity for SIP trunks by comparing the **Maximum Administered SIP Trunks** field value with the corresponding value in the **USED** column.

The license file installed on the system controls the maximum permitted. If there is insufficient capacity, contact an authorized Avaya sales representative to make the appropriate changes.

display system-parameters customer-options		Page	<b>2</b> of	11
OPTIONAL FEATURES				
IP PORT CAPACITIES		USED		
Maximum Administered H.323 Trunks:	4000	27		
Maximum Concurrently Registered IP Stations:	2400	3		
Maximum Administered Remote Office Trunks:	4000	0		
Maximum Concurrently Registered Remote Office Stations:	2400	0		
Maximum Concurrently Registered IP eCons:	68	0		
Max Concur Registered Unauthenticated H.323 Stations:	100	0		
Maximum Video Capable Stations:	2400	2		
Maximum Video Capable IP Softphones:	2400	2		
Maximum Administered SIP Trunks:	4000	70		
Maximum Administered Ad-hoc Video Conferencing Ports:	4000	0		
Maximum Number of DS1 Boards with Echo Cancellation:	80	0		

#### 5.2. Administer SIP Trunk Group

Use the "add trunk-group n" command, where "n" is an available trunk group number, in this case "92". Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Group Type: "sip"
- Group Name: A descriptive name.
- TAC: An available trunk access code.
- Service Type: "tie"

add trunk-group 92	Page 1 of 21
	TRUNK GROUP
Group Number: 92	Group Type: sip CDR Reports: y
Group Name: SM_41_42	COR: 1 TN: 1 TAC: 1092
Direction: two-way	Outgoing Display? y
Dial Access? n	Night Service:
Queue Length: 0	
Service Type: tie	Auth Code? n
	Member Assignment Method: auto
	Signaling Group: 92
	Number of Members: 10

Navigate to Page 3, and enter "private" for Numbering Format.

add trunk-group 92 TRUNK FEATURES	Page 3 of 21
ACA Assignment? n	Measured: none
	Maintenance Tests? y
Numbering Format:	: private UUI Treatment: service-provider
	•
	Replace Restricted Numbers? n
	Replace Unavailable Numbers? n
Modify	y Tandem Calling Number: no

### 5.3. Administer SIP Signaling Group

Use the "add signaling-group n" command, where "n" is an available signaling group number, in this case "92". Enter the following values for the specified fields, and retain the default values for the remaining fields.

• Group Type:	"sip"
• Transport Method:	"tls"
<ul> <li>Near-end Node Name:</li> </ul>	An existing C-LAN node name or procr.
• Far-end Node Name:	The existing Session Manager node name.

CRK; Reviewed:	Solution & Interoperability Test Lab Application Notes	7 of 41
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- Near-end Listen Port: An available port for integration on Communication Manager.
- Far-end Listen Port: The same port number as in Near-end Listen Port.

A network region for integration with IP Trade turrets, in this

- Far-end Network Region:
- Far-end Domain

Set to "avaya.com"

case "1".

add airmaling group 00	Page 1 of 2
add signaling-group 92	
SIGNALING	GROUP
Group Number: 92 Group Type:	sin
IMS Enabled? n Transport Method:	tls
Q-SIP? n	
IP Video? y Priority Video?	n Enforce SIPS URI for SRTP? y
Peer Detection Enabled? y Peer Server:	-
reer becederen Enabrea. y reer berver.	
Near-end Node Name: procr	Far-end Node Name: SM-1
Near-end Listen Port: 5061	Far-end Listen Port: 5061
Fa	r-end Network Region: 1
	i cha heework hegion. I
Far-end Domain:avaya.com	
	Bypass If IP Threshold Exceeded? n
Incoming Dialog Loopbacks: eliminate	RFC 3389 Comfort Noise? n
DTMF over IP: rtp-payload	Direct IP-IP Audio Connections? y
Session Establishment Timer(min): 3	IP Audio Hairpinning? n
· · · ·	1 5
Enable Layer 3 Test? y	Initial IP-IP Direct Media? n
H.323 Station Outgoing Direct Media? n	Alternate Route Timer(sec): 6

#### 5.4. Administer IP Network Region

Use the "change ip-network-region n" command, where "n" is the existing far-end network region number used by the SIP signaling group from **Section 5.3**. Enter the following values for the specified fields, and retain the default values for the remaining fields.

Authoritative Domain:	"avaya.com"
Codec Set:	Set to "1"
• Intra-region IP-IP Direct Audio:	"yes"
• Inter-region IP-IP Direct Audio:	"yes"

change ip-network-region 1	1 of	20		
	IP NETWORK REGION			
Region: 1				
Location: 1 Authoritative	Domain: avaya.com			
Name:				
MEDIA PARAMETERS	Intra-region IP-IP Direct Audic	: yes		
Codec Set: 1	Inter-region IP-IP Direct Audio	): yes		
UDP Port Min: 2048	IP Audio Hairpinning	? n		
UDP Port Max: 3329				
DIFFSERV/TOS PARAMETERS				
Call Control PHB Value: 46				
Audio PHB Value: 46				
Video PHB Value: 26				

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### 5.5. Administer IP Codec Set

Use the "change ip-codec-set n" command, where "n" is the codec set number from Section 5.4. Update the audio codec types in the Audio Codec fields as necessary.

1 of

Page

2

Note that IP Trade supports the G.711MU and G.711A codecs. During the compliance test, G.711MU was utilized.

```
change ip-codec-set 1
                           IP Codec Set
    Codec Set: 1
   Audio
                 Silence
                               Frames
                                         Packet
                 Suppression Per Pkt
    Codec
                                        Size(ms)
1: G.711MU
                                 2
                                           20
                       n
 2:
 3:
 4:
```

### 5.6. Administer Route Pattern

Use the "change route-pattern n" command, where "n" is an existing route pattern number to be used to reach IP Trade turrets, in this case "92". Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Pattern Name: A descriptive name.
- Grp No:

The SIP trunk group number from Section 5.2.

• FRL: A level that allows access to this trunk, with 0 being least restrictive.

```
change route-pattern 92
                                                                     1 of
                                                                            3
                                                              Page
                  Pattern Number: 92 Pattern Name: no IMS SIP trk
                           SCCAN? n
                                     Secure SIP? n
                                                                    DCS/ IXC
  Grp FRL NPA Pfx Hop Toll No. Inserted
             Mrk Lmt List Del Digits
                                                                    QSIG
  No
                                                                    Tntw
                           Dgts
1: 92
                                                                     n
                                                                         user
2:
                                                                     n
                                                                         user
   BCC VALUE TSC CA-TSC
                            ITC BCIE Service/Feature PARM No. Numbering LAR
  0 1 2 M 4 W
                 Request
                                                         Dgts Format
                                                      Subaddress
1: yyyyyn n
                            rest
                                                                        none
2: yyyyyn n
                            rest
                                                                        none
```

### 5.7. Administer Private Numbering

Use the "change private-numbering 0" command, to define the calling party number to send to IP Trade. Add an entry for the trunk group defined in **Section 5.2**. In the example shown below, all calls originating from a 5-digit extension beginning with 72 and routed to trunk group 92 will result in a 5-digit calling number. The calling party number will be in the SIP "From" header.

CRK; Reviewed:	Solution & Interoperability Test Lab Application Notes	9 of 41
SPOC: 3/7/2013	©2013 Avaya Inc. All Rights Reserved.	IPTrade-SM62

char	nge private-numb	pering O			Page 1	of	2
		NUN	ABERING - PRIVATE	FORMA	Г		
Ext	Ext	Trk	Private	Total			
Len	Code	Grp(s)	Prefix	Len			
5	72	92		5	Total Administered:	10	
5	72	93		5	Maximum Entries:	540	

### 5.8. Administer Uniform Dial Plan

This section provides a sample AAR routing used for routing calls with dialed digits 7206x to IP Trade. Note that other methods of routing may be used. Use the "change uniform-dialplan 0" command, and add an entry to specify the use of AAR for routing digits 7206x, as shown below.

change uniform-dialplan 0				Page 1 of 2
UNIFORM DIAL PLAN TABLE				
				Percent Full: 0
Matching		Insert	Node	
Pattern	Len Del	Digits	Net Conv Num	
7206	5 0		aar n	

### 5.9. Administer AAR Analysis

Use the "change aar analysis 0" command, and add an entry to specify how to route calls to 7206x. In the highlighted example shown below, calls with digits 7206x will be routed using route pattern "92" from **Section 5.6**.

```
change aar analysis 0
                                                         Page 1 of
                                                                     2
                         AAR DIGIT ANALYSIS TABLE
                                                     Percent Full: 3
                             Location: all
        Dialed
                       Total
                               Route Call Node ANI
        String
                       Min Max Pattern Type
                                               Num
                                                    Read
   7206
                       5
                           5
                                92
                                         unku
                                                    n
```

### 5.10. Administer public Unknown Numbering for PSTN

Use the "change public-unknown-numbering 0" command, to define the calling party number to send to PSTN from IP Trade turrets. During the compliance test, the trunk group 80 was designated to go out to PSTN. In the example shown below, all calls originating from a 5-digit extension beginning with 7206 are routed to trunk group 80 will result in a 5-digit calling number.

ch	ange pu	blic-unknown-numberi	.ng O			Page	1 o	f	2	
		NUMBERI	NG - PUBL	IC/UNKNOWN	FORMAT					
				Total						
Ex	t Ext	Trk (	CPN	CPN						
Le	n Code	Grp(s) H	Prefix	Len						
					Total Ad	lministered:	6			
5	7206	80		5	Maxi	mum Entries:	240			

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# 6. Configure Private Line Automatic Ringdown (PLAR)

This section describes the procedures for configuring Session Manager and Communication Manager to support PLAR trunks to the Financial Circuit Carrier Network.

To terminate the PLAR trunk facilities to the PSTN, a DS1 circuit pack using robbed-bit signaling must be administered. Enter "add ds1 xxyy", where "xxyy" is the Avaya Media Gateway slot where a DS1 circuit pack has been added, and enter the following values, retaining the defaults for the remaining fields:

- Name: Enter a descriptive name.
- Line Coding: Enter the line coding scheme to be used for this facility (typically, PLAR trunks use "b8zs").
- Framing Mode: Enter the framing mode to be used for this facility (typically, PLAR trunks use "esf" framing).
- **Signaling Mode**: Enter "robbed-bit".

change ds1 1a10		Page 1 of 2	
	DS1	S1 CIRCUIT PACK	
Location: 01A10 Bit Rate: 1.544 Line Compensation: 1 Signaling Mode: robbed-bi	t	Name: IP Trade PLAR Trunk Line Coding: b8zs Framing Mode: esf	
Interface Companding: mulaw Idle Code: 1111111			
Slip Detection? n	Ne	Near-end CSU Type: other	

#### 6.1. Administer PLAR Trunk Group

To configure a PLAR trunk, enter "add trunk-group x", where "x" is an available trunk group to create a trunk group that will allow access to a given PLAR trunk. Enter the following values:

- **Group Type:** Enter "tie".
- **Group Name:** Enter a descriptive name.
- TAC: Enter an available Trunk Access Code that is consistent with the provisioned dial plan. The TAC is entered at the Target in the respective TPO Place configuration.
   Dial Access: Enter "y" to allow the PLAR trunk to be seized directly by the associated TPO Place, to connect with a specific remote location.
   Incoming Destination: Enter the TPO Place L accel extension associated with this
- Incoming Destination: Enter the TPO Place Local extension associated with this PLAR trunk.
- Trunk Type (in/out): Enter "auto/auto"

add trunk-group 11	Page 1 of 22
	TRUNK GROUP
Group Number: 11	Group Type: tie CDR Reports: y
Group Name: S8720-PRI trur	nk COR: 1 TN: 1 TAC: 1011
Direction: two-way	Outgoing Display? n Trunk Signaling Type:
Dial Access? y	Busy Threshold: 255 Night Service:
Queue Length: 0	Incoming Destination: 72065
Comm Type: voice	Auth Code? n
	Trunk Flash? n
Trunk Type (in/out) · auto/au	

#### On Page 2, set the Sig Bit Inversion field to "A&B".

add trunk-group 11	<b>Page 2</b> of 22
Group Type: tie	Trunk Type: auto/auto
TRUNK PARAMETERS	
	Incoming Rotary Timeout(sec):5
Outgoing Dial Type: tone	Incoming Dial Type:tone
	Disconnect Timing(msec):500
Digit Treatment:	Digits:
	Sig Bit Inversion: A&B
Analog Loss Group: 9	Digital Loss Group: 13
Incoming Dial Tone? y	

On **Page 6**, enter the **Port** location of the specific DS1 channel connected to the remote destination to be reached via the corresponding TPO Place. (This should be the only member of this trunk group.)

add trunk-group 11		Page 6 of 22
	TRUNK GROUP Administered Member	
GROUP MEMBER ASSIGNMENTS	Total Administe	red Members: 1
Port Code Sfx Name 1: 01A1001 TN464 F	Night Mode	Type Ans Delay

## 7. Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Session Manager. Since IP Trade turrets are registered with Session Manager as SIP endpoints, this section only describes creating users.

Access the System Manager web interface by using the URL "https://ip-address" in an Internet browser window, where "ip-address" is the IP address of the System Manager server. Log in using the appropriate credentials.

AVAYA	Avaya Aura ® System Manager 6.2	
Home / Log On		
Log On		
Recommended access to Sys Manager is via FQDN. <u>Go to central login for Single</u> <u>On</u> If IP address access is your o option, then note that	Sian- User ID: Password:	
authentication will fail in the following cases: • First time login with "a account • Expired/Reset passwo	admin"	Log On Cancel

In the subsequent screen (not shown), select Users  $\rightarrow$  User Management to display the User Management screen below. Select Manage Users from the left pane, and click New in the subsequent screen (not shown) to add a new user for the IP Trade turret solution. Users are required for the IP Trade Turret solution for the following purposes:

- Turret User Primary Extension assignment
- TPO lines linked to TPO Places for DDI Shared Lines
- TPO lines linked to TPO Places for (PLAR) private wire access to remote Financial locations

Note: IP Trade Turret Users can be configured to use only a Global Default DDI line, without any Turret User Primary Extension.

				gged on at Dece	ember 21, 201	2 3:27 PM
AVAYA	Avaya A	Aura® System Manage	r 6.2 Help   About   Ch		ange Password   Log adn	
			User Management ×	User Manag	gement ×	Home
▼ User Management ◀	Home / Users /	User Management				
Manage Users						
Public Contacts	User Mana	agement				
Shared Addresses						
System Presence ACLs	Sub Pages					
	Action	Description			Help	
	Manage Users	Provides a central user administration to profiles. Also, you can manage communi users.			Users manage	ement
	Public Contacts	Create, view, edit, and delete the public in the enterprise.	contacts that can be shared		Public Contact management	s
	Shared Addresses	Configure and manage common address users in the enterprise.	es that can be specified for o		Shared Addres management	sses
	System Presence ACLs	Configure and manage Presence access	rules for users.		Presence ACLs management	s

When adding new SIP user, use the option to automatically generate the SIP station in Communication Manager, after adding a new SIP user. To create a new user, provide the following information:

Identity section

- Last Name Enter last name of user.
- **First Name** Enter first name of user.
- Login Name Enter extension number@sip domain. The sip domain is defined as Authoritative Domain in Section 5.3.
- Authentication Type Verify "Basic" is selected.
- **Password** Enter password to be used to log into System Manager.
- **Confirm Password** Repeat value entered above.

Αναγα	Avaya Aura <sup>®</sup> System Manager 6.2
	User Management * H
▼ User Management	Home / Users / User Management / Manage Users
Manage Users	Help ?
Public Contacts	New User Profile
Shared Addresses	New User Profile Commit & Continue Commit Cancel
System Presence ACLs	
	Identity * Communication Profile * Membership Contacts
	Identity 💿
	* Last Name: IP-Trade
	* First Name: 72061
	Middle Name:
	Description:
	* Login Name: 72061@avaya.com
	* Authentication Type: Basic
	* Password: ••••••
	* Confirm Password: ••••••
	Localized Display Name: IPTrade
	Endpoint Display Name: IPTrade
	Title:
	Language Preference: English (United States)
	Time Zone: (-7:0)Mountain Time (US & Canada); Chihuahua. 💙

#### Communication Profile section

- **Communication Profile Password** Type Communication profile password in this field. This password is used when registering a SIP endpoint to the SM.
- **Confirm Password** Repeat value entered above.

AVAYA	Avaya Aura <sup>®</sup> System Manager 6.2  Last Logged on at December 20, 2012 5:26 PM Avaya Aura <sup>®</sup> System Manager 6.2  Help   About   Change Password   I a
	User Management * H
▼ User Management	Home / Users / User Management / Manage Users
Manage Users	Help ?
Public Contacts	
Shared Addresses	New User Profile Commit & Continue Commit Cancel
System Presence ACLs	
	Identity * Communication Profile * Membership Contacts
	Communication Profile  Communication Profile Password: Confirm Password:
	New     Delete     Done     Cancel       Image: Name     Image: Name     Image: Name       Image: Select : None     Image: Name
	* Name: Default :

Communication Profile sub-section

- Fully Qualified Address Enter the extension of the user
- Click Add button

Communication Address 💌			
New Edit Delete			
Type No Records found	Handle	Domain	
Type * Fully Qualifie Address	Avaya SIP	@ avaya.com 💙	
		Add Cancel	

Session Manager Profile section

- **Primary Session Manager** Select one of the Session Managers.
- **Origination Application Sequence** Select Application Sequence defined for Communication Manager.
- **Termination Application Sequence** Select Application Sequence defined for Communication Manager.
- Home Location Select Location defined.

Session Manager Profile				
* Primary Session Manager	SessionManager 🗸	Primary	Secondary	Maximum
		21	0	21
Secondary Session Manager	(None)	Primary	Secondary	Maximum
Origination Application Sequence	AppSeq-S8300D 💙			
Termination Application Sequence	AppSeq-S8300D 💙			
Conference Factory Set	(None) 🚩			
Survivability Server	(None) 💙			
* Home Location	41-subnet 💌			

Endpoint Profile section

- System Select Managed Element.
- **Profile Type** Select **Endpoint**.
- Use Existing Endpoints Leave unchecked to automatically create new endpoint when new user is created. Or else, check the box if endpoint is already defined in Communication Manager.
- Extension Enter same extension number used in this section.
- **Template** Select template for type of SIP phone
- Security Code Enter numeric value used to logon to SIP telephone. (Note: this field must match the value entered for the Shared Communication Profile Password field.
- **Port** Select **IP**
- Voice Mail Number Enter Pilot Number for Avaya Modular Messaging if installed. Or else, leave field blank. This feature is not used during the compliance test.
- Delete Endpoint on Unassign of Endpoint from User or on Delete User– Check the box to automatically delete station when Endpoint Profile is un-assigned from user.

CM Endpoint Profile 💌			
* System Element-S8300D 💌			
* Profile Type Endpoint 💟			
Use Existing Endpoints			
* Extension Q72061 Endpoint Editor			
* Template DEFAULT_9630SIP_CM_6_2			
Set Type 9630SIP			
Security Code •••••			
* Port QIP			
Voice Mail Number 72061			
Preferred Handle (None) 🗸			
Delete Endpoint on Unassign of Endpoint 📝 from User or on Delete User.			
Override Endpoint Name			

Repeat above step as necessary to configure additional extension. During the compliance test, the following extensions were created:

- 72061-72063 (3) IP Trade Turret Users
- 72064 Risk Dept. Line
- 72065 Simulated Ring-down (PLAR). Refer to Section 6.1

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# 8. Configure Avaya Modular Messaging MSS

This section provides the procedures for configuring IP Trade turret users as local subscribers on Avaya Modular Messaging. The subscriber management is configured on the Messaging Storage Server (MSS) component. The configuration procedures include the following areas:

- Launch messaging administration
- Administer subscriber extension ranges
- Administer subscribers

### 8.1. Launch Messaging Administration

Access the MSS web interface by using the URL "http://ip-address" in an Internet browser window, where "ip-address" is the IP address of the MSS server. The **Logon** screen is displayed. Log in using a valid user name and password. The **Password** field will appear after a value is entered into the **Username** field. The **Messaging Administration** screen appears (not shown).

AVAYA			Messaging M	Administration
Help				
	Logon			
	Us	sername 🚺	1	
			Login	
	© 2009 Av	aya Inc. All Righ	ts Reserved.	

### 8.2. Administer Subscriber Extension Ranges

Select **Messaging Administration**  $\rightarrow$  **Networked Machines** from the left pane, to display the **Manage Networked Machines** screen. Select the MSS server from the table listing, and click **Edit the Selected Networked Machine** toward the bottom right of the screen.

AVAYA		ar Messaging Administration
Help Log Off	This s	erver: 10.64.22.181
<ul> <li>Messaging Administration</li> <li>Subscriber Management</li> <li>Activity Log Configuration</li> <li>Messaging Attributes</li> <li>Classes-of-Service</li> <li>Enhanced-Lists</li> <li>Sending Restrictions</li> <li>System Administration</li> <li>Request Remote Update</li> <li>Networked Machines</li> </ul>	Manage Networked Machines Machine   IP Address   Machine Type   Total Subs alpinemss1   10.64.22.181   local   24	×
▼ Jerusted Servers ▼ Server Administration Configure Using DCT TCP/IP Network Configura External Hosts MAS Host Setup MAS Host Send Windows Domain Setup Console Reboot Option Date/Time/NTP Server Syslog Server Modem/Terminal Display Modem/Terminal Configur Modem/Terminal Removal TCP/IP Service Settings ▼ IMAP/SMTP Administration		
SMTP Options Mail Options IMAP/SMTP Status Server Information Server Status Alarm Summary Disk Information Server Notes	Display Report of Networked Machines       Delete the Selected Networked Machine         Add a New Networked Machine       Edit the Selected Networked Machine         Display Network Snapshot       Display Report of Networked Machine Ranges	

The **Edit Networked Machine** screen is displayed. Under the **MAILBOX NUMBER RANGES** section, locate an available entry line and enter the desired starting and ending mailbox numbers to be used for the IP Trade subscribers as necessary. In the compliance testing, the existing entry covered the 7206x extensions used by the IP Trade turret users.

Αναγα							r Messagi Administrati	
Help Log Off						This ser	ver: 10.64.22.	181
▼ Messaging Administration Subscriber Management Activity Log Configuration Messaging Attributes	<u>Machine Name</u>	alpinem	ss1	<u>Pa</u> <u>Confirm Pa</u>	issword issword			
Classes-of-Service	IP Address	10.64.22	2.181	Machi	ne Type	tcpip	~	
Sending Restrictions System Administration Request Remote Update	Mailbox Number Length	5 🛩		Default Cor	nmunity	1 ¥		
Networked Machines Trusted Servers Server Administration	<u>Updates In</u>	yes 🗸		Upd	ates Out	yes 🗸		
Configure Using DCT TCP/IP Network Configura	LDAP Port	56389		Log Up	<u>dates In</u>	no 💌		
External Hosts MAS Host Setup								-
MAS Host Send Windows Domain Setup	MAILBOX NUMBER RANGE	ES						
Console Reboot Option Date/Time/NTP Server	Prefix		Starting Mailbox	<u>k Number</u>	Ending	<u>Mailbox N</u>	lumber	
Syslog Server Modem/Terminal Display			00000		99999			
Modem/Terminal Configur♥								-

#### 8.3. Administer Subscribers

Select **Messaging Administration**  $\rightarrow$  **Subscriber Management** from the left pane, to display the **Manage Subscribers** screen. For the **Local Subscriber Mailbox Number** field toward the top of the screen, enter the first IP Trade turret user extension to add as a local subscriber, in this case "72061". Click **Add or Edit**.

AVAYA						м	Modula essaging	ar Messa Administra	
Help Log Off							This se	rver: 10.64.	22.181
<ul> <li>Messaging Administration Subscriber Management Activity Log Configuration Messaging Attributes Classes-of-Service</li> </ul>	-	nage Subs	scribers	;					^
Enhanced-Lists Sending Restrictions	•	Local Subscril	ber Mailbox	Number			Add or	Edit	
System Administration Request Remote Update Networked Machines Trusted Servers Server Administration			<u>Machine</u> <u>Name</u>	<u>Local</u> <u>Subscriber</u> Mailboxes	<u>Total</u> Subscribers		<u>Filtered</u> <u>Subscribers</u>		
Configure Using DCT TCP/IP Network Configura External Hosts MAS Host Setup MAS Host Send Windows Domain Setup Console Reboot Option		Local Subscribers	alpinemss1	23	24	Filter	24	Manage	
Date/Time/NTP Server Syslog Server Modem/Terminal Display Modem/Terminal Configur	_	Remote Subscribers	internet		0	Filter	0	Manage	

Solution & Interoperability Test Lab Application Notes ©2013 Avaya Inc. All Rights Reserved. The Add Local Subscriber screen is displayed next. Enter the desired string into the Last Name, First Name, and Password fields.

In the compliance testing, the same telephone extensions for the IP Trade subscribers were used for the **Mailbox Number**, **Numeric Address** fields. Select the appropriate **Class Of Service**, and retain the default values in the remaining fields.

Scroll down to the bottom of the screen and click **Save** (not shown). Repeat this section to add all IP Trade subscribers.

Αναγα								Modular M Messaging Adm	
Help Log Off								This server:	10.64.22.181
<ul> <li>Messaging Administration</li> <li>Subscriber Management</li> <li>Activity Log Configuration</li> <li>Messaging Attributes</li> <li>Classes-of-Service</li> <li>Enhanced-Lists</li> </ul>	dd Loca	al Subsc	riber						<
Sending Restrictions System Administration Request Remote Update Networked Machines Trusted Servers	BASIC INFORM * (Required Fi		IPTrade-1			First Name	72061		
▼ Server Administration Configure Using DCT TCP/IP Network Configura		*Password		]		<u>*Mailbox Number</u>	72061		
External Hosts MAS Host Setup MAS Host Send	<u>*Num</u>	neric Address	72061			PBX Extension			
Windows Domain Setup Console Reboot Option	<u>*Cla</u>	ss Of Service	0 - class00	) 🗸		<u>*Community ID</u>	1 🛩		
Date/Time/NTP Server Syslog Server Modem/Terminal Display									

# 9. Configure IP Trade Turret Support Server

The configuration of IP Trade TSS Administration Console is typically performed by IP Trade installation technicians, and procedures are provided by an IP Trade engineer. The procedural steps are presented in these Application Notes for informational purposes.

This section describes the procedure for configuring the IP Trade TSS to create and manage User/Shared Profiles, TPO Lines and Places for DDI Lines & PLAR trunks, including FTP Settings for high level common turret settings.

From a Web browser, navigate to <u>http://<ip-addr>/iptradenet.console</u>, where <ip-addr> is the IP address of the TSS. After logging in with an appropriate set of credentials, the main page appears.

IP Trade	Account Management	Advanced Telephony	□ Iten <u>Security</u>	Welcome to IP Ti ns per list: 100 v User System	rade Networks	
		Welcome to TSS manage Last login: 11/10/201				

### 9.1. Configure FTP Settings

On the TSS administration console from the top menu bar, select **System**  $\rightarrow$  **Settings**  $\rightarrow$  **FTP settings** (not shown). Be sure that the version and file options are the one that will be applied to your running turret firmware. Select "SIP" on the left pane (not shown), and click the "**Basic Mode**" tab on the top menu. Provide the following:

- SIP local domain: Enter "avaya.com".
- SIP Server Name: Enter IP address of Session Manager.
- SIP Proxy address: Enter IP address of Session Manager.
- SIP Connection mode: Select "TCP" from drop down menu
- **SIP Proxy Transport:** Select "TCP" from drop down menu
- Fast media connection on SIP Ringing state: Select "true"
- SIP Local IP Ports: Enter "5060"

Click the **Update** button to update the changes.

Selection Source: D:\FTPRoot Version: R7.0_20286 File: ipt.global	v Delete	y current to Create new D0-18-7D-1C-93-15	Pre-defined settings Audio Profile Noisy environment Timezone template (GMT-D8:00) Pacific Time (US & Canada)	Apply     Apply     Apply
Audio	Basic Mode Expert Mo Name	ode Advanced Mode Value		Description
	Use bulk registration (Cisco only)	◯ true		0
Automatic actions	SIP Compatibility mode	acm30 👻		0
Bluetooth	SIP local domain	avaya.com		0
Call History	SIP Server Name	10.64.41.42		0
	SIP Proxy addresses	10.64.41.42		0
Contextual Email	SIP Connection mode	TCP -		0
CRM	SIP Proxy Transport Type	TCP -		0
DDI - Sharing	Fast media connection on SIP Ringing state	● true  ◎ false		0
Devices	SIP Local IP Ports	5060		0
Dial Plan	Parking mode	🔿 tpo 🔘 adhoc		0
DTMF	SIP Manage Unsolicited messages	false  true		0
Global				
Highlights	Update Updated.			
Intercom				

Click the "Expert Mode", and provide the following:

- Allow sip header in Register message: Select "true" from drop down menu
- Enable TCP on SIP stack (not shown): Select "true"
- SIP Diversion Header Name (not shown): Enter "History-Info"

Click the **Update** button (not shown) to update the changes.

Device Management	Account Management	Advanced Telephony	Security	System	Console
Selection Source: D:\FTPRoot Version: R7.0_20286 File: ipt.global		on opy current to Create new ot.00-18-7D-1C-93-15 💌	Pre-defined settings Audio Profile Noisy environmen Timezone template (GMT-08:00) Pacific Tim		<ul> <li>Apply</li> <li>Apply</li> <li>Apply</li> </ul>
	Basic Mode Expert	Mode Advanced Mode			Description
Audio Automatic actions	CallBack notification pattern search (SoftKeyItem element)	Dial			() ()
Bluetooth	Allow sip header in Register messager	true 💌			0
Call History	Bulk registration Bulk always contain a body	🔿 true 🔘 false			0
Contextual Email	Registration state buffer	1000			0
CRM	Force subscription usage for Cisco Message Dialog	false			0
DDI - Sharing	Completed else where" value	Call completed elsewhere			$\odot$
Devices	TPO Connection persistence (TCP only)	◉ true			0

### 9.2. Configure Turret Proxy to Open Line Dealing (TPO) Settings

Navigate to **Device Management**  $\rightarrow$  **Settings**  $\rightarrow$  **Basic Mode** to configure Basic TPO Cluster SIP Settings. Select SIP on the left pane, and provide the following:

- **SIP local domain:** Enter "avaya.com".
- SIP Server Name: Enter IP address of Session Manager.
- SIP Proxy address: Enter IP address of Session Manager.
- SIP Connection mode: Select "TCP/IP" from drop down menu
- SIP Proxy Transport: Select "TCP/IP" from drop down menu
- Early media mixing: Select "true"
- SIP Local IP Ports: Enter "5060"
- Check replace header on incoming call: Select "true"

Click the **Update** button to update the changes.

Device Management	Account Management	Advanced Telephony	Security	<u>System</u>	Console
General Settings Settings	TPO Cluster TPO Places Basic Mode Expert M	TPO Lines		Bac	<u>&lt; to TPO Cluster list &gt;</u>
Global	Name	Value			Description
	SIP local domain	avaya.com			0
Media	SIP Proxy addresses	10.64.41.42			0
SIP	SIP Server Name	10.64.41.42			0
	SIP Connection mode	TCP 💌			0
Cluster	SIP Proxy Transport Type	TCP -			0
Recorder	Early media mixing	● true ○ false			0
	SIP Local IP Ports	5060			0
	Use bulk registration (Cisco only)	🔿 true 🔘 false			0
	Check replace header on incoming call	🖲 true 🔘 false			0
	Update Refresh U	Ipdated.			

Navigate to **Device Management**  $\rightarrow$  **Settings**  $\rightarrow$  **Expert Mode** to configure Expert TPO Cluster SIP Settings. Select SIP on the left pane, and provide the following:

- Enable TCP on SIP stack: Select "true"
- Add Remote party ID header on registered line: Select "true"
- Ringing remote party ID header: Enter "P-Asserted-Identity"
- Allow sip header in Register message (not shown): Select "true" from drop down menu
- User subscription for MWI : Select "true"

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Click the **Update** button to update the changes.

	Basic Mode Expert N			
Global	Name	Value	 Description	
	SIP User agent Name	IPTTurret	 0	
Media	SIP Register renewal		$\odot$	
SIP	SIP Register renewal launch delay	5	0	
Cluster	SIP Stack Logging	● faise ○ true	0	
Recorder	enablement		 0	
	I SIP Stack Logging		 ©	
	default filter		©	
	DNS Suffix		 õ	
	SIP Stack Application Number of memory pool	20	 •	
	pages			
	page size		•	
	Local Call Preserve	🔿 true 🔘 false	•	
	Synchronization SIP subscription keep alive time	60	0	
	Enable TCP on SIP stack	© false	٢	
	TPO Hunt - Transfer on alcatel PBX	O true @ false	0	
	Add Remote party ID header on registered line	◉ true  ◎ false	0	
	Ringing remote party ID header	P-Asserted-Identity	0	
	10 Header			() () () () () () () () () () () () () (
_				🔍 100%
	Allow sip header in Register messager	true 💌	Ø	
	Registration state buffer	1000	0	
	TPO Launch registration error when TCP connection is closed	🔿 true 🛛 🔘 false	•	
	DDI line: hangup on transfer	⊚ true	0	
	DDI line: hangup on		0	
	transfer of the transferee	5	0	
	Bulk registration always contain a body	🔿 true 🔘 false	•	
	Force subscription     usage for Cisco Message	false	0	
	Dialog			
	Allow join on DDI shared lines	◉ true	©	
	Garbage SIP Message Waiting Indicator (MWI) - Period of check	600	$\odot$	
	Garbage SIP Message Waiting Indicator (MWI) - expiration time	600	0	
	DTMF over KPML subscription	🔿 true 🔘 false	•	
	Use subscribtions for MWI	🖲 true 🔘 false	0	
	(1111			
	Update Refresh U	Jpdated.		
Copyright © 2005-2012 IPTr		Jpdated.		

#### 9.3. Configure Turret Proxy to Open Line Dealing (TPO) Lines & Turret Proxy to Open Line Dealing (TPO) Places

Navigate to TPO Lines tab to add a TPO line. Provide the following information:

- Local Extension: Enter an extension created in Section 7.
- **Register:** Select "Yes".
- **SIP Display Name:** Enter a descriptive name to be used.
- **SIP Password:** Enter the password created in **Section 7**.
- **SIP Digest:** Enter the same extension created in **Section 7**.
- **SIP Domain:** Enter "avaya.com".
- Access Point Extension: Select "No".

Click the Save and Go Back button.

PTrode TPC	Cluster	TPO Line Edition		Ib	Welcome to IP T	rade Networks	
Device Manager	nent	Account Management	Advanced Telephony	Security	System	Console	
Local Extension Fetch Type Place Register SIP Display Nam SIP Password SIP Digest SIP Domain SIP Contact ID SIP Domine SIP Contact ID SIP Device ID SIP Line Index IP Address SDP IP Address Access Point Ext	Not Fetci No Yes Bo 12 72 av: Construction Second Second	hed b Funds 3456 061 aya.com Yes No ze and Add Another Reset	Cancel		Back to TPO	Cluster list > TPO_Cluster_01	
4							€ 100% <del>•</del>

Repeat above step as necessary to configure additional extensions.

The following screen shows the TPO lines created during the compliance test.

IPTrade (	TPO_Clust	ter_01)	PO Cluster Editio			🔟 Items p	per list: 25	💌 🗵 Userr	de Netwo	🛛 🔤 Logou
Device Man	agement	Account Ma	<u>nagement Adv</u>	anced Telephon	<u>y Securit</u>	Y	<u>Systen</u>	<u>n</u>	Conso Back to TPO	
General	Settings	TPO Cluster	TPO Places Ti	PO Lines	I		+ Con	figuration fe	tch	
Local	Extension *	Register	Display Name	Device ID	Line Index	IP Address	SDP IP Address	Access Point Extension	Linked	
	<u>1111</u>	No	- N/A -	- N/A -	- N/A -	- N/A -	- N/A -	No	æ	6 6
	1112	No	- N/A -	- N/A -	- N/A -	- N/A -	- N/A -	No	æ	66
	72061	Yes	Bob Funds					No		6 🖻 🗇
	72062	Yes	Joe Deals					No		6 🖻 🗊
	72063	Yes	Sammy Stocks					No		66
	72064	Yes	Risk Management Dept.					No		66
	72065	Yes	Ringdown					No		6 🖻 🗊
	72066	Yes	PBX Access Line					No		6 6 6
Refrest	1 🗗 Add nev	w 🟛 Delete se	lected							1 / 1

Navigate to TPO Place tab and select "Add New" (not shown) to create a TPO Place. Provide the following information as shown below:

- Name: Enter a descriptive name to identify the TPO Place
- **Group ID:** Select the appropriate ID for the respective TPO Cluster
- **Place Type:** Select "RingdownDynamic" from the drop down.
- VirtualSlot Extensions: This defines the number of call appearance for the respective extension, these are called DDI Slots and are shared on the IP Trade Turrets. In this example, the TPO Place configured is for extension 72061 which will have 3 shared DDI Slots (appearances). Therefore the following was entered as shown below: 7206101 7206203
- **Conference Mode:** All (Default value)
- Local Extensions: Click on the "+ Defined Lines" to select the corresponding TPO Line that should be linked to this TPO Place. For this example, select "72061" from the list and press the "Link Selected" button.

Click the **Save and Go Back** button (not shown).

Repeat above step as necessary to configure additional TPO Places.

								Back to TPO CI	uster list > TPC	Cluster 0
General										1
Name *	DDI-72061 - Bob	Funds				1		1	•	
	DDI-72061 - BOD	Fullus			Group ID *	1		1	<b>_</b>	
Comment				~	Default RTP Frame Size (ms)	© 10 🧕	20			
					MasterCall RTP Frame Size (ms)	© 10 🧕	20			
State *	Stopped				Place Type *	Ringdo	wnDynamio			
VirtualSlot Extensions	7206101 -	7206103	Add Slot Pr	operties						
	1									
Conference Mode *	All	•								
Local		- Defined Lin	es							
Extensions *	72062									
	72063 72064									
	72065									
	72066									
		Link Selected	l							
	Local Extension *	Register	Display Name	Device ID	Line IP Index IP	Address	SDP IP Address	Access Point Extension		
	<u>72061</u>	Yes	Bob Funds					No	G:Ð	
	G:3 Unlink selecte	d	_							

#### 9.3.1. Configure Turret Proxy to Open Line Dealing (TPO) Place for Automatic Ringdown (PLAR)

Navigate to TPO Place tab and select "Add New" (not shown) to create a TPO Place. Provide the following information:

- Name: Enter a descriptive name to identify the TPO Place
- Group ID: Select the appropriate ID for the respective TPO Cluster
- Place Type: Select "RingdownDynamic" from the drop down.
- **VirtualSlot Extensions:** This defines the number of call appearance for the respective extension called DDI Slots shared on the IP Trade Turrets. In this example, the TPO Place configured is for extension 72065 which only requires a single appearance and is equal to the "Incoming Destination" assigned for Automatic Ring-down (PLAR) Trunk Group. [Refer to Section 6.1].
  - $\circ$  The following was entered as shown below: 72065 72065.
  - Enter a check mark to assign the Virtual Slot Extension as Defined Slots.
  - Click on the "+Defined Slots" button and select the Virtual Slot Extension.
  - Press on the "Link Selected" button to link the Defined Slot to the TPO Place.
  - Modify the Slot Properties and assign Target: Press the "Mouse" icon as shown below by the red arrow to modify slot properties and assign the TAC in the "Target" field to the corresponding PLAR Trunk Group [Refer to Section 6.1]. Set the Slot Type to "Ringdown" and the other fields as shown below. Press the green check mark to save the changes.
- **Conference Mode:** All (Default value)
- **Local Extensions:** Click on the "+ Defined Lines" button and select the corresponding TPO Line that should be linked to this TPO Place. For this example, select "72065" from the list and press the "Link Selected" button.

#### Click the **Save and Go Back** button.

Repeat above step as necessary to configure additional TPO Places.

						Back to TP	O Cluster list > TPO 0	Juster 01		
	General									
	Name *	ARD 72065			Group ID *	1				
	Comment				Default RTP	0 10 🖷 20				
					Frame Size (ms) MasterCall RTP					
					Frame Size (ms)	0 10 🖷 20				
	State *	Stopped			Place Type *	RingdownDynamic •				
	VirtualSlot									
	Extensions	72065		Slot Properties						
			- Defined Slots							
										u
			Link Selected							
						Generated				
		Slot *	Slot Type *	MRD	ARD	Connected Notification	Disconnected Notification	Target		
		72065	RingDown	No	Always	Yes	Always	1092	-9 BKB	
		E01 Unlink selecter								
	Conference Mode *	All								
	Local Extensions *		- Defined Lines							
4		72066								
										₹100% ×
										ŕ
			Link Selected							
		Slot *	Slot Type *	MRD	ARD	Connected Notification	Disconnected Notification	Target		
		72065	RingDown	No	Always	Yes	Always	1092	ී මෙම	
		GIO Unlink selecte	d							
	Conference Mode *	All	•							
	Local Extensions *		- Defined Lines							
	Excensions	72066								
			Link Selected							
		Local Extension *	Register Displa	y Device I	D Line IP	Address SDP IP Access Address Address Point				
					- Index -	Extensi	on			E
		72065       DID Unlink selected	Yes Ringdo	wn		No	G/Đ			
				-	_					
	Recording Channel *	From	££1 10		Record All on one ch	annel				
	Save and Go Ba	ack Save and Edit	Save and Add Another	Reset Canc	el					
	Copyr	ight © 2005-2012 IPTrade s hts reserved.	.a.							
<	Airing									•
										🔍 100% 🔻

Note: It is recommended to add multiple PLAR Trunks using the same TPO Place by adding multiple Virtual Slot Extension and cooresponding Local Extensions. The following screen shows the TPO lines created during the compliance test:

Device Management       Account Management       Advanced Telephony       Security       System       Console         Back to TPO Cluster Ist >         General       Settings       TPO Cluster       TPO Places       Summary         TPO Places       State       State       1       State       1         ABD 72055       RingdownDynamic       1       TPO 01 (Alive)       Stopped       0		Device Management (TPO_Cluster_01)	: TPO Cluster Ed	ition	10	Welcome to IP Trac Items per list: 25 💌 🛙 Userni			
General       Settings       TPO Cluster       TPO Places         Summary         TPO Places       Started       2         Started       2       Started       2         Total       7       TPO       Started       2         ARD 72055       RingdownDynamic       1       TPO 01 (Alive)       Stopped       >       >         DDI-72061-80b Funds       RingdownDynamic       1       TPO 01 (Alive)       Stopped       >       C </th <th>Device</th> <th>Management Account</th> <th>Management .</th> <th>Advanced Telephor</th> <th>y <u>Security</u></th> <th>System</th> <th>Consol</th> <th>e</th> <th></th>	Device	Management Account	Management .	Advanced Telephor	y <u>Security</u>	System	Consol	e	
Place Name*       Place Type*       Group ID*       TPO       State       Total       7            ARD 72055       RingdownDynamic       1       TPO 01 (Alive)       Stopped       5       Total       7            ARD 72055       RingdownDynamic       1       TPO 01 (Alive)       Stopped       >       C       ©	Genera	al Settings TPO Cluste	r TPO Places	TPO Lines			Back to TPO C	Cluster list >	
Place Name*       Place Type * Group ID *       TPO       State       Total       7         ARD 72065       RingdownDynamic       1       TPO 01 (Alive)       Stopped       D       C       C       C         DD1-72061       Eab Funds       RingdownDynamic       1       TPO 01 (Alive)       Stopped       D       C	тро р	Places						Summary	
Place Name*       Place Type * Group ID*       TPO       State       Image: Stopped       Image: Stopped							Start		
Place Name*       Place Type* Group ID*       TPO       State       Tend         ABD 72065       RingdownDynamic       1       TPO 01 (Alive)       Stopped       D									
ARD 72065       RingdownDynamic       1       TPO 01 (Alive)       Stopped       >       C 图面         DDI-72061_Bob Funds       RingdownDynamic       1       TPO 01 (Alive)       Stopped       >       C 图面         DDI-72061_Bob Funds       RingdownDynamic       1       TPO 01 (Alive)       Stopped       >       C 图面         DDI-72061_Bob Ceals       RingdownDynamic       1       TPO 01 (Alive)       Stopped       >       C 图面         DDI-72064_Risk Management       RingdownDynamic       1       TPO 01 (Alive)       Stopped       >       C 图面         DI-72064_Risk Management       RingdownDynamic       1       TPO 01 (Alive)       Stopped       >       C 图面         Intercom Group 2       Intercom       1       TPO 01 (Alive)       Stated       C       C       E         Intercom Group1       Intercom       1       TPO 01 (Alive)       Stated       C       E       E							Tot	al 7	
DDI-72061 - Bob Funds       RingdownDynamic       1       TPO_01 (Alive)       Stopped       ▷       ▷       臣       面         DDI-72061 Joe Deals       RingdownDynamic       1       TPO_01 (Alive)       Stopped       ▷       ▷       面 <td></td> <td>Place Name *</td> <td>Place Type *</td> <td>Group ID *</td> <td>тро</td> <td>State</td> <td></td> <td>_</td> <td></td>		Place Name *	Place Type *	Group ID *	тро	State		_	
DDI-72051 Joe Deals       RingdownDynamic       1       TPO 01 (Alive)       Stopped       ▷       ▷       □									
DDI-72063 Sammy Stocks       RingdownDynamic       1       TPO 01 (Alive)       Stopped       ▷       ▷       節節         DDI-72064 Risk Management       RingdownDynamic       1       TPO 01 (Alive)       Stopped       ▷       ▷       節節         Intercom Group 2       Intercom       1       TPO 01 (Alive)       Started       □       ▷       節         Intercom Group1       Intercom       1       TPO 01 (Alive)       Started       □       ▷       節									
DD1-72064 Risk Management RingdownDynamic 1       TPO 01 (Alive)       Stopped       D <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Intercom Group 2     Intercom     1     TPO 01 (Alive)     Started     Image: Comparison of the started       Intercom Group 1     Intercom     1     TPO 01 (Alive)     Started     Image: Comparison of the started									
Intercom Group1 Intercom 1 TPO 01 (Alive) Started 🗆 🕒 🕲									
■ Refresh ■'Add new ■ Delete selected ▷ Start selected ■ Stop selected 1/1									
	A Re	tresh 🔲 Add new 🗏 Delete	selected  Start s	elected Stop s	elected			1/1	

Starting the TPO Place, registers the corresponding TPO Line to Session Manager. To change the state to "Started", select the TPO Place(s) and then press "Start selected" icon.

### 9.4. Administer Lines in Shared Profile

These Application Notes assume that Shared Profiles are pre-configured for the respective users who are in the same Trading Group. Shared Profiles allow setting of Lines, Settings, Turret Layout settings, Shortcut Pages and Shortcuts (buttons) that are common to the users in the same Trading Group.

Navigate to "Account Management" on the top menu bar and select "Shared Profiles" (not shown). Click the Shared Profile you wish to change and then select the "Lines" tab (not shown). Click on "Add New" to assign a Line to the Shared Profile. Provide the following information as shown below:

- **Type:** Choose "DDI Shared Line" from the drop down list.
- Subscribe to Notifications: Must be set to "Yes" (Default value).
- **Extension:** Enter the Local Extension as defined in the corresponding TPO Place
- **TPO Group Name:** Select the name the TPO where the DDI Shared Line is hosted
- **SIP Display Name:** Enter a descriptive name for the Line.

The assignment of all other fields were set to default parameters for this line in the Shared Profile. Press "Update" to commit changes. Repeat the process above to add all Shared DDI Lines and PLAR Lines that will be part of the Shared Profile.

CRK; Reviewed:	Solution & Interoperability Test Lab Application Notes	
SPOC: 3/7/2013	©2013 Avaya Inc. All Rights Reserved.	IP

Account Mar	nagement: Line Edition	n	Dite	Welcome to <b>IP Trac</b>		
Device Management	Account Management	Advanced Telephony	Security	System	Console	
Status: Not connected General Type " Subscribe to Notifications " Special Tag " Ringtone Set Ringtone Volume Ringtone Delay " Call events dispatching " Call events dispatching " Call vents dispatching " Call Notification Delay " Extension " TPO Group Name " In Call History " In Floating Keys " Msg Waiting Indicator " Default DDI " Default Global Line " Queue Type "	DDI Sharing Line • Yes • None • (None) • (None) • (None) • O All but incoming • O 72061 TPO1 • No • Yes • No •		SIP SIP Display Name *		rofiles list > SharedProfile	
						€ 100% <del>-</del>

The following screen shows the Lines assigned to the respective Shared Profile during the compliance test:

PTrode Acco	unt Management: Shared Pr redProfile)		🗈 Ite		Trade Networks Username: iptrade 🛛 Logout	
Device Managem	ent Account Management	Advanced Telephony	Security	<u>System</u>	Console	
General Line	es Adv. Telephony Settings	Turret Layout Sho	rtcuts		Back to Shared Profiles list >	
П Туре	SIP Display Name	SIP Extension	SIP Digest	SIP Domain		
DDI Sharin	ng Line <u>ARD 72065</u>	72065			~B.B.B.B	
DDI Shari	ng Line <u>Bob Funds</u>	72061			伯臣陶前	
DDI Sharin	ng Line <u>Joe Deals</u>	72062			10 B B 🗇	
DDI Sharin	ng Line <u>Risk Management Dept.</u>	72064			伯巴陶亩	
DDI Shari	ng Line <u>Sammy Stocks</u>	72063			00 B B B	
Server time: 17:17 Last refresh time:	7:56 17:17:36 Crefresh Crefresh Add new	Delete selected 👪 C	lear overwritten value		1/1	
· · · · · · · · · · · · · · · · · · ·						€ 100% <del>▼</del>

### 9.5. Administer Inherited Lines in the User Profile

These Application Notes assume that User Profiles are pre-configured for the respective users and are assigned to a Shared Profile for the Trader Group. Lines, Settings, Turret Layout settings, Shortcut Pages and Shortcuts (buttons) assigned in the Shared Profile are inherited values and settings in the User Profile. The User Profile allows for changes to values set in the Shared Profile for user customization.

Navigate to Account Management  $\rightarrow$  Users and select a previously created User. Select the "Lines" tab. The Lines shown below are inherited in the User Profile from the Shared Profile.

Device Management       Account Management       Advanced Telephony       Security       System       Console         General       Lines       Adv. Telephony       Settings       Turret Layout       Shortcuts       Call History         Lines       Adv. Telephony       Settings       Turret Layout       Shortcuts       Call History         Lines       + Configuration fetch       -       -       -         D1 Sharing Line       ARD 72065       72065       inherited       -         D01 Sharing Line       Bab Funds       72061       inherited       -         D01 Sharing Line       Bab Funds       72062       inherited       -         D01 Sharing Line       Bab Funds       72064       inherited       -         D01 Sharing Line       Sammy Stocks       72063       inherited       -         D01 Sharing Line       Sammy Stocks       72063       inherited       -         Server time: 177.1837       Refresh C Add new C Delete selected       1/1	Back to Users list >       General Lines       Adv. Telephony Settings Turret Layout Shortcuts Call History       Lines       * Configuration fetch       Type     SIP Display Name     SIP Extension     SIP Digest     SIP Domain       DDI Sharing Line     ABD.72065     72065     inherited     0       DDI Sharing Line     Bob Funds     72061     inherited     0       DDI Sharing Line     Bick Management Degt,     72064     inherited     0       DDI Sharing Line     Bisk Management Degt,     72063     inherited     0       Dott Sharing Line     Bisk Management Degt,     72064     inherited     0       Dott Sharing Line     Bisk Management Degt,     72063     inherited     0	Type     SIP Display Name     SIP Extension     SIP Digest     SIP Domain       DDI Sharing Line     Adv. 7265     7265     inherited     0       DDI Sharing Line     ABD 72065     72061     inherited     0       DDI Sharing Line     Bob Funds     72061     inherited     0       DDI Sharing Line     Bob Funds     72061     inherited     0       DDI Sharing Line     Bob Funds     72064     inherited     0       DDI Sharing Line     Bitk Management Degt,     72064     inherited     0       DDI Sharing Line     Bitk Management Degt,     72064     inherited     0       DDI Sharing Line     Bitk Management Degt,     72064     inherited     0	Account Mar	nagement: User Editio	on (BFUNDS)		Welcome to <b>IP Trade</b>		
Type     SIP Display Name     SIP Extension     SIP Digest     SIP Domain       DDI Sharing Line     ABD 72065     72065     inherited       DDI Sharing Line     Bob Funds     72061     inherited       DDI Sharing Line     Joe Deals     72064     inherited       DDI Sharing Line     Simers Units     72064     inherited       DDI Sharing Line     Simers Units     72064     inherited	General     Lines     Adv. Telephony     Settings     Turret Layout     Shortcuts     Call History       + Configuration fetch	Type     SIP Display Name     SIP Extension     SIP Digest     SIP Domain       DDI Sharing Line     ARD 72065     72065     inherited     C       DDI Sharing Line     ARD 72065     72061     inherited     C       DDI Sharing Line     ARD 72062     72061     inherited     C       DDI Sharing Line     Risk Management Degt.     72064     inherited     C       DDI Sharing Line     Risk Management Degt.     72064     inherited     C       DDI Sharing Line     Risk Management Degt.     72064     inherited     C       DDI Sharing Line     Risk Management Degt.     72064     inherited     C       DDI Sharing Line     Risk Management Degt.     72064     inherited     C       DDI Sharing Line     Risk Management Degt.     72064     inherited     C       DOI Sharing Line     Risk Management Degt.     72064     inherited     C	Device Management	Account Management	Advanced Telephony	Security	<u>System</u>	Console	
Type       SIP Display Name       SIP Extension       SIP Digest       SIP Domain         DDI Sharing Line       ARD 72065       72065       inherited       Ch         DDI Sharing Line       Bob Funds       72061       inherited       Ch         DDI Sharing Line       Joe Deals       72062       inherited       Ch         DDI Sharing Line       Jee Deals       72064       inherited       Ch         DDI Sharing Line       Simmy Stocks       72063       inherited       Ch         Server line:       Jack Anagement Death       Ch       Ch       Ch	Type       SIP Display Name       SIP Extension       SIP Digest       SIP Domain         DDI Sharing Line       ARD 72065       72065       inherited       Image: Comparison of the state	Type       SIP Display Name       SIP Extension       SIP Digest       SIP Domain         DDI Sharing Line       ARD 72065       72065       inherited       ©         DDI Sharing Line       Bob Funds       72061       inherited       ©         DDI Sharing Line       Joe Deals       72062       inherited       ©         DDI Sharing Line       Bisk Management Dept.       72064       inherited       ©         DDI Sharing Line       Samw Stocks       72063       inherited       ©         Server time: 1/21837       Deals of Deals       72063       inherited       ©	General Lines Ad	lv. Telephony Settings	Turret Layout Short	cuts Call History		Back to Users list >	
DDI Sharing Line     ARD 72055     72065     inheritad     Gr       DDI Sharing Line     Bob Funds     72061     inheritad     Gr       DDI Sharing Line     Joe Deals     72062     inheritad     Gr       DDI Sharing Line     Joe Deals     72064     inheritad     Gr       DDI Sharing Line     Risk Management Dept.     72064     inheritad     Gr       DDI Sharing Line     Sammy Stocks     72063     inheritad     Gr	DDI Sharing Line     ARD 72055     72065     inheritad     Gr       DDI Sharing Line     Bob Funds     72061     inheritad     Gr       DDI Sharing Line     Joe Deals     72062     inheritad     Gr       DDI Sharing Line     Joe Deals     72064     inheritad     Gr       DDI Sharing Line     Risk Management Dept.     72064     inheritad     Gr       DDI Sharing Line     Sammy Stocks     72063     inheritad     Gr	DDI Sharing Line     ARD 72055     72065     inhented     D'       DDI Sharing Line     Bob Funds     72061     inhented     D'       DDI Sharing Line     Joe Deals     72062     inhented     D'       DDI Sharing Line     Joe Deals     72064     inhented     D'       DDI Sharing Line     Sammy Stocks     72063     inhented     D'	Lines				+ Configuration fetch		
DDI Sharing Line     ARD 72065     72065     inhented     D·       DDI Sharing Line     Bob Funds     72061     inhented     D·       DDI Sharing Line     Joe Deals     72062     inhented     D·       DDI Sharing Line     Joe Deals     72064     inhented     D·       DDI Sharing Line     Risk Management Dept.     72064     inhented     D·       DDI Sharing Line     Sammy Stocks     72063     inhented     D·	DDI Sharing Line       ARD.72055       72065       inherited       D-         DDI Sharing Line       Bob Funds       72061       inherited       D-         DDI Sharing Line       Joe Deals       72062       inherited       D-         DDI Sharing Line       Jee Deals       72064       inherited       D-         DDI Sharing Line       Risk Management Dept.       72064       inherited       D-         DDI Sharing Line       Sammy Stocks       72063       inherited       D-         Severt time: 1/2/10/7       De to the D-       D-       D-       D-	DDI Sharing Line       ARD 72065       72065       inhented       Dr         DDI Sharing Line       Bob Funds       72061       inhented       Dr         DDI Sharing Line       Joe Deals       72061       inhented       Dr         DDI Sharing Line       Joe Deals       72062       inhented       Dr         DDI Sharing Line       Bick Management Dept.       72064       inhented       Dr         DDI Sharing Line       Sammy Stocks       72063       inhented       Dr         Server times 17/18/37       Development Dept.       72064       inhented       Dr	🔲 Туре	SIP Display Name	SIP Extension	STP Digest	SIP Domain		
DDI Sharing Line     Bob Funds     72061     inhented     Description       DDI Sharing Line     Joe Deals     72062     inhented     Description       DDI Sharing Line     Risk Management Dept.     72064     inhented     Description       DDI Sharing Line     Sammy Stocks     72063     inhented     Description	DDI Sharing Line     Bob Funds     72061     inherited     G-       DDI Sharing Line     Joe Deals     72062     inherited     G-       DDI Sharing Line     Risk Management Dept.     72064     inherited     G-       DDI Sharing Line     Sammy Stocks     72063     inherited     G-	DDI Sharing Line     Bob Funds     72061     inherited     G-       DDI Sharing Line     Joe Deals     72062     inherited     G-       DDI Sharing Line     Risk Management Dept.     72064     inherited     G-       DDI Sharing Line     Sammy Stocks     72063     inherited     G-						R	
DDI Sharing Line     Joe Deals     72062     inherited     Image: Constraint of the c	DDI Sharing Line     Joe Deals     72062     inherited     Image: Comparison of the c	DDI Sharing Line     Joe Deals     72062     inherited     Ib       DDI Sharing Line     Risk Management Dept.     72064     inherited     Ib       DDI Sharing Line     Sammy Stocks     72063     inherited     Ib       Server time: 12/18/57     Deale Sammy Stocks     72064     inherited     Ib							
DDI Sharing Line     Risk Management Dept.     72064     Inherited       DDI Sharing Line     Sammy Stocks     72063     Inherited	DDI Sharing Line Risk Management Dept. 72064 inherited C DDI Sharing Line Sammy Stocks 72063 inherited C Server Line 12/18/37	DDI Sharing Line     Risk Management Dept.     72064     Inherited     Display       DDI Sharing Line     Sammy Stocks     72063     Inherited     Display       Server time: 12/18/37     Control of the server time: 12/18/37     Control of the server time: 12/18/37     Control of the server time: 12/18/37	-						
Server time: 17:18:57	Server time: 17:18:57	Server time: 17:18:57							
Server time: 17:18:57 Last refresh time: 17:18:46 Creater Control Cont	Server time: 17:18:57 Last refresh time: 17:18:46 Refresh 🖗 Add new 🗓 Delete selected 1 / 1	Server time: 17:18:57 Last refresh time: 17:18:46 S Refresh Add new Delete selected 1 / 1	DDI Sharing Line	Sammy Stocks	72063		inherited	2	
			Server time: 17:18:57 Last refresh time: 17:18:46	🕏 Refresh 🗬 Add new	Delete selected			1 / 1	

For this example, User Profile "Bob Funds" was chosen and assigned to extension 72061 inhereted and configued in the respective Shared Profile that User "Bob Funds" is associated with. Select DDI Shared Line "Bob Funds" to change the inhereted parameter values for his Line 72061. To change the inhereted values, place a check mark to the following parameters and adjust the value as shown below:

For example:

- In Call History: Inherited value is "No". Change to "Yes" to record call history for this line.
- **Msg Waiting Indicator:** Inherited value is "No". Change to "Yes" to enable MWI notification for this line.

• **Global Default Line:** Inherited value is "No". Change to "Yes" to set this line as the default line for the user on his turret. If no Primary Extension is assigned, the Global Default Line becomes the Primary Extension for the turret user.

Press **Update** to commit changes.

Repeat the process in each User Profile as necessary.

General		SIP	*
Type *	DDI Sharing Line 💌	SIP Display Name * Bob Funds	
Subscribe to Notifications	Yes 💌		
Special Tag *	None 💌		
Ringtone Set	(None)		
Ringtone Volume	(None)		
Ringtone Delay *	0		
Call events dispatching *	All but incoming -		
Call Notification Delay *	0		
Extension *	72061		
TPO Group Name *	TPO1 -		
In Call History *	Ves -		=
In Floating Keys *	Yes -		
Msg Waiting Indicator *	Ves 🗸		
Default DDI *	Yes 💌		
Default Global Line *	V Yes -		
Queue Type *	None		
Automatic action Incoming Auto Accept Dela	9y 🔲 Default 💌		
Held Auto Forward Delay	La bollar		
Held Auto Forward Target	Default 💌		
Dispatch Monitor Auto Rec			
4	all Delay 🔲 Off 💌		
			€ 100% <del>-</del>

The following screen from the User Profile shows the Lines that have values different than the inherited value with an asterisk "inherited \*".

Dence Paramadements       Account Paramadements       Account Paramadements       Account Paramadements       Stormy       Stormy <th< th=""><th><b>IP</b>Trade</th><th>agement: User Editic</th><th>On (BFUNDS)</th><th></th><th>Welcome to IP Trade</th><th>Networks e: iptrade 🛛 Log</th><th></th><th></th></th<>	<b>IP</b> Trade	agement: User Editic	On (BFUNDS)		Welcome to IP Trade	Networks e: iptrade 🛛 Log		
Type       SIP Display Name       SIP Extension       SIP Digest       SIP Domain         DDI Sharing Line       ARD 72055       72065       inherited       ©         DDI Sharing Line       Bob Funds       72061       inherited       ©         DDI Sharing Line       Bob Funds       72062       inherited       ©         DDI Sharing Line       Risk Management Dept.       72064       inherited       ©         DDI Sharing Line       Sammy Stocks       72063       inherited       ©         Server time: 17/22:13       Extended and the stockstate       Total Stockstate       Total Stockstate	Device Management			Security	<u>System</u>	Console Back to Users list	<u>t&gt;</u>	
DDI Sharing Line     ARD 72065     72065     inherited     C       DDI Sharing Line     Bob Funds     72061     inherited *     C     C       DDI Sharing Line     Joe Deals     72062     inherited     C     C       DDI Sharing Line     Joe Deals     72062     inherited     C     C       DDI Sharing Line     Risk Management Dept.     72064     inherited     C     C       DDI Sharing Line     Sammy Stocks     72063     inherited     C     C	Lines	I			+ Configuration fetch			
DDI Sharing Line     Bob Funds     72061     inherited *     C     C       DDI Sharing Line     Joe Deals     72062     inherited     C       DDI Sharing Line     Risk Management Dept.     72064     inherited     C       DDI Sharing Line     Sammy Stocks     72063     inherited     C	🔳 Туре	SIP Display Name	SIP Extension	SIP Digest	SIP Domain			
DDI Sharing Line     Joe Deals     72062     inherited     C       DDI Sharing Line     Risk Management Dept.     72064     inherited     C       DDI Sharing Line     Sammy Stocks     72063     inherited     C	DDI Sharing Line	ARD 72065	72065		inherited			
DDI Sharing Line     Risk Management Dept.     72064     inherited     Difference       DDI Sharing Line     Sammy Stocks     72063     inherited     Difference	DDI Sharing Line	Bob Funds	72061		inherited *	<u></u>		
DDI Sharing Line Sammy Stocks 72063 inherited	DDI Sharing Line	Joe Deals	72062		inherited			
Server time: 17:22:13	DDI Sharing Line	Risk Management Dept.	72064		inherited	2		
Server time: 17:21:5  Refresh  Add new  Delete selected  1/1	DDI Sharing Line	Sammy Stocks	72063		inherited	8		
	Server time: 17:22:13	🖥 Refresh 📑 Add new	Delete selected				1	
	about remean entry at related							

### 9.6. Administer DDI Slot Buttons in Shared or User Profile

Every VirtualSlot Extension assigned to a TPO Place of a Shared DDI line (or Shared DDI Line with Slot Properties for a PLAR Line) must have its corresponding DDI slot shortcut (button) created in the Shared or User Profile. However, it is not mandatory to create each DDI slot in each user profile. User or IT administrator should create the DDI slot shortcuts (buttons) that will be effectively used by the turret user. These shortcuts(buttons) can be positioned in one of its home pages or Shortcut (button) applets. The system will automatically generate any missing DDI slot shortcuts(buttons) during line registration, but these will have no assigned ringtone. Those automatically generated shortcuts(button) are grouped in a page called "Missing DDI Slots". It is recommend to create as many DDI Slot shortcuts (buttons) as configured number of VirtualSlot Extensions.

Shortcuts(buttons) can be programmed from the TSS administration console or directly from the turret. Although not mandatory, it is advisable to have these buttons closely grouped in the same area of the screen; From the TSS administration Console, please proceed as follows to manually create DDI slot buttons (not shown):

- 1. Navigate to the desired User or Shared Profile to create the DDI Slots. ;
- 2. Go to the Shortcut tab.

(It is assumed that a Shortcut Page is preconfigured and assigned to the Turret Layout.

- 3. Select the proper Shortcut Page and then click on "Add new" on the buttom of the page.
- 4. Label: Enter a descriptive label for the DDI Slot
  - a. For Example: "72061 Line 1"
- 5. **Type:** Select "DDI Slot" from the drop down list
- 6. **Phone extension:** Enter the cooresponding VirtualSlot Extension.
  - a. For this example enter "7206101"
- 7. Click on the "Add and Continue" to save the entry and add the next DDI Slot.

Repeat the procedure to add all necessary DDI Slots in the User or Shared Profile for Shared DDI Lines or Ringdowns (PLAR).

Note: While the system automatically creates any missing DDI slot key when the user subscribes to a line, it does not automatically remove it when the user unsubscribes or manually creates a private slot key in the user profile. Also note that removing a DDI slot key in the user profile while the user is authenticated is highly discouraged, because it would leave a slot without any key associated.

### 9.7. Administer Avaya Modular Messaging Pilot Extension

Navigate to Account Management  $\rightarrow$  Shared Profiles (not shown) and select pre-configured Shared Profile for the Trading Group. Select the "Settings" and then "User Settings" on the left pane, and set the following as shown below:

• Voicemail: Set the assgined Modular Messaging Pilot Extension

Press **Update** to commit changes.

Inter-turret messaging highway	Attendant display	remote / shortcut	0	*
Intercom	Auto-create shortcut	● true  ○ false	0	
Join - Barge	Global ducking devices	HF;HS	0	
Layout	Global ducking value	2	0	
Mobile Trader User	Ducking value	2	0	
Hobie Hadel Osci	Ducking mode	absolute      offset	0	
PBX Features	Global ducking mode		0	
PIM Synchronization				
Multile Tex day Devices	Automatic ducking	O true 🔘 false	0	
Mobile Trader Device	Voice mail	7777	0	
Recorder	_			
Search	Update Refresh			
Session				
Shortcut Notification				
Text messaging				E
ТРО	1			
User Settings				
SIP	i			
Video Call				
•				€ 100% -
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## 10. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya Modular Messaging, Avaya Aura® Session Manager, and IP Trade Voice Trading Solution.

- Place a call from an IP Trade turret user to the Modular Messaging pilot number. Verify that Modular Messaging recognizes the calling party as a local subscriber.
- Place calls from an IP Trade turret to SIP, H323, and PSTN endpoints and verify that the calls are successfully established with two-way talk path.

## 11. Conclusion

These Application Notes describe the configuration steps required for IP Trade Voice Trading Solution 7.1 to successfully interoperate with Avaya Aura® Session Manager 6.2, Avaya Aura® Communication Manager 6.2, and Avaya Modular Messaging 5.2 in a centralized messaging environment using SIP trunks. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

# 12. Additional References

This section references the product documentation relevant to these Application Notes.

- **1.** *Administering Avaya Aura*® *Communication Manager*, Document 03-300509, Issue 7.0, Release 6.2, July 2012, available at <u>http://support.avaya.com</u>.
- **2.** *Administering Avaya Aura*® *Session Manager*, Document Number 03-603324, Release 6.2, July2012, available at <u>http://support.avaya.com</u>.
- **3.** Avaya Modular Messaging for the Avaya Message Store Server (MSS) Configuration, Release 5.2, August 2012, available at <a href="http://support.avaya.com">http://support.avaya.com</a>.

IP Trade Voice Trading Solution and Product information is available from IP Trade. Visit <u>http://www.IPTrade-networks.com/turret.html</u>.

For additional information or documentation, please contact your local IP Trade office. Visit http://www.iptrade-networks.com/other\_inquiry.html.

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