



Avaya Solution & Interoperability Test Lab

Application Notes for configuring IPC Open Trade with Avaya Communication Server 1000 R7.6 and Avaya Aura® Session Manager R7.0 - Issue 1.0

Abstract

These Application Notes describe the configuration steps necessary for provisioning IPC Open Trade to successfully interoperate with Avaya Communication Server 1000 Release 7.6 and Avaya Aura® Session Manager R7.0.

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 a compliance-tested configuration of the interoperability of Open Trade from IPC to successfully interoperate with Avaya Communication Server 1000 Release 7.6 (CS1000) and Avaya Aura® Session Manager Release 7.0. IPC Open Trade is a trading communication platform combining voice, email, instant messaging and video, for communication in fast-moving markets. Open Trade integrates cloud strategy with the back-end localised in the network and makes managing distant sites and turrets easier via remote access and administration. Any Open Trade component can be managed as standard IT equipment.

2. General Test Approach and Test Results

Open Trade is integrated with the CS 1000 using SIP trunks between Open Trade and Session Manager. Session Manager directs the call over SIP trunks to a specific IP address depending on the digits dialled using SIP signalling. Compliance testing was executed manually by making calls to and from extensions on the Open Trade SIP server. The test results and observations are listed in **Section 2.2**.

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.

Note: IPC recently acquired Etrali Trading Solutions. All compliance testing was performed with Etrali Open Trade and so some of the references in the screen shots may show Etrali instead of IPC. These Application Notes will display the company name as IPC where possible.

2.1. Interoperability Compliance Testing

During interoperability compliance testing the following type of calls were made:

- **Basic Inbound/Outbound** – Tests inbound calls to Open Trade.
- **Call Hold** – Tests held calls to/from Open Trade.
- **Call Transfer** – Tests transferred calls to/from Open Trade.
- **Call Conference** – Tests conferenced calls to/from Open Trade.
- **Call Forward** – Tests forwarded calls to/from Open Trade.
- **Call Information** – Tests caller information (CLID).
- **Voicemail, DTMF RFC 2833 and Message Notification** – Tests voice message, message notification and DTMF transmission to/from Open Trade.
- **Failover/Serviceability** – Tests the behaviour of Open Trade when there are certain failed conditions.

2.2. Test Results

All tests passed successfully. Below are listed observations following the compliance test of this solution.

1. Open Trade is unable to propagate updates to the display name during or after transferring a call. For example, where Avaya1 calls OT1 and OT1 transfers the call to Avaya2, both Avaya1 and Avaya2 show the connected party as OT1.
2. Open Trade does not support the multipart (MIME) in SIP INVITE message of the CS 1000 therefore the MIME must be removed from the INVITE sent from CS 1000. To remove MIME, an adaptation was created in **Section 6.3** and applied in the Open Trade SIP entity in the **Section 6.4**.
3. Callpilot used as voicemail gave an issue with forwarding sets, callers were not sent to the voice mailbox but they were sent to Callpilot as a 1st party. Therefore Callpilot cannot be used as a voicemail system for Open Trade.

2.3. Support

For more information on IPC Open Trade and product support visit:

<http://www.ipc.com/>

3. Reference Configuration

Figure 1 illustrates the setup used to verify the Open Trade solution with Session Manager and CS1000. Open Trade is deployed on a dedicated server running Windows 2008 R2 Enterprise server. Session Manager interfaces to the CS1000 using a SIP trunk registering with Session Manager. A VPN tunnel is setup to facilitate the connection between the IPC Open Trade LAN and the Avaya Telephony LAN. Once the VPN tunnel is established the Open Trade is registered with Session Manager as a SIP endpoint and calls can be made from the CS1000 phones to the IPC Open Trade phones.

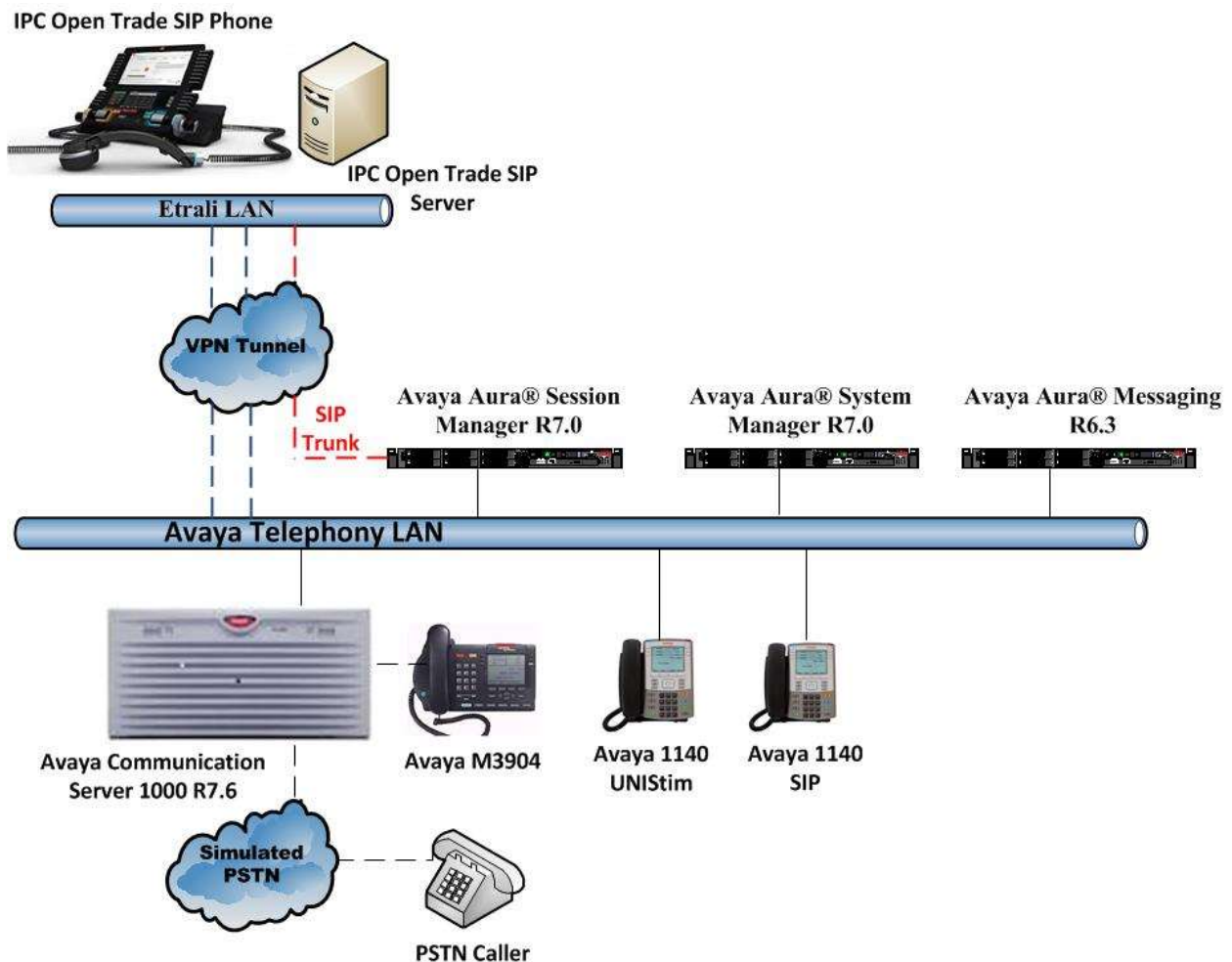


Figure 1: Reference Configuration Diagram

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Communication Server 1000E on CPPM	R7.6 (See Appendix A for list of patches)
Avaya Aura® System Manager running on a virtual server	System Manager 7.0.0.1 Build No. – 7.0.0.0.16266-7.0.9.7001011 Software Update Revision No: 7.0.0.1.4212
Avaya Aura® Session Manager running on a virtual server	Session Manager R7.0 Build No. – 7.0.0.1.700102
Avaya Aura Messaging	R6.3
Avaya 1140 UNISim Deskphone	V0625C8D
Avaya 1140 SIP Deskphone	SIP 04.03.12
Avaya M3904 Digital Deskphone	N/A
IPC Open Trade Terminal	5.3.x
IPC Plug-in Unit	5.3.x

5. Configure Avaya Communication Server 1000

The document assumes the CS1000 is setup and fully working, it also assumes that the signaling Server is setup and running with the SIP Gateway already configured.

Prerequisites: An Avaya CS1000 server which has been:

- Installed with CS 1000 Release 7.6 Linux Base.
- Joined CS 1000 Release 7.6 Security Domain.
- Deployed with SIP Trunk Application.

For more information on CS 1000 installation, maintenance, and upgrades see **Section 9**. The following software packages are enabled in the key code. If any of these features have not been enabled, please contact your Avaya account team or Avaya technical support at <http://www.avaya.com>.

Package Mnemonic	Package Number	Package Description	Package Type (New or Existing or Dependency)	Applicable Market
SIP	406	SIP Service package	New package	Global
FFC	139	Flexible Feature Codes	Existing package	Global
SIPL_ Nortel	415	Avaya SIP Line	Existing package	-
SIPL_3ThirdParty	416	Third Party SIP Line	Existing package	-

The configuration operations illustrated in this section were performed using terminal access to the CS1000E using PuTTY. Again it is assumed a fully working CS1000E is in place with the necessary licensing. For all other provisioning information, such Administering Avaya CS1000E, refer to product documentation in **Section 9** of these Application Notes.

Note: The configuration of PSTN trunks and routes are outside the scope of these Application Notes.

Note: Not all prompts need an answer. The prompts outlined below are mandatory for a basic configuration. Accept the default responses for all other prompts by pressing the Return key.

Note: A full printout of the SIP D-Channel, Route and Trunk information used for the compliance testing is included in the **Appendix B** of these Application Notes.

5.1. Verify Licences

To ensure the CS1000E is licensed for SIP use **LD 22** and type **SLT** at the **REQ** prompt. Check for **SIP ACCESS PORTS** (in bold below).

Prompt	Response	Description
>	LD 22	Enter Overlay 22
REQ	SLT	
System type is - Communication Server 1000E/CPPM Linux		
CPPM - Pentium M 1.4 GHz		
IPMGs Registered:	1	
IPMGs Unregistered:	0	
IPMGs Configured/unregistered:	0	
TRADITIONAL TELEPHONES	2000 LEFT 1992 USED	8
DECT USERS	2000 LEFT 2000 USED	0
IP USERS	4000 LEFT 3978 USED	22
BASIC IP USERS	2000 LEFT 1998 USED	2
TEMPORARY IP USERS	2000 LEFT 2000 USED	0
DECT VISITOR USER	2000 LEFT 2000 USED	0
ACD AGENTS	2000 LEFT 1995 USED	5
MOBILE EXTENSIONS	2000 LEFT 2000 USED	0
TELEPHONY SERVICES	2000 LEFT 2000 USED	0
CONVERGED MOBILE USERS	2000 LEFT 2000 USED	0
AVAYA SIP LINES	2000 LEFT 1997 USED	3
THIRD PARTY SIP LINES	2000 LEFT 1998 USED	2
PCA	2000 LEFT 2000 USED	0
ITG ISDN TRUNKS	2000 LEFT 2000 USED	0
H.323 ACCESS PORTS	2000 LEFT 1990 USED	10
AST	2000 LEFT 1981 USED	19
SIP CONVERGED DESKTOPS	2000 LEFT 2000 USED	0
SIP CTI TR87	2000 LEFT 1992 USED	8
SIP ACCESS PORTS	2000 LEFT 1970 USED	30
RAN CON	2000 LEFT 2000 USED	0
MUS CON	2000 LEFT 2000 USED	0

5.2. Configuring a SIP Connection on CS1000E

To configure the SIP connection there are a number of steps.

- Create a D-channel for the SIP trunk
- Create Route Data Block
- Add TIE Trunks

5.2.1. Create a D-Channel

Use the **CHG** command in **LD 17** to create a D-channel for the SIP connection. In the example below, D-Channel 1 (i.e. **DCH 1**) was created. At the **CTYP** prompt, enter **DCIP**. This signifies the SIP D-Channel.

LD 17

Prompt	Response	Description
>	LD 17	Enter Overlay 17
REQ	CHG	Change
TYPE	ADAN	Change the Action Device and Number
ADAN	NEW	Create New Action Device and Number
TYPE	DCH 1	Create new D-Channel 1
CTYP	DCIP	Card type is IP D-Channel
USR	ISDL	Integrated Services Digital Line
IFC	SL1	D-Channel interface type

5.2.2. Create Route Data Block

Use the **NEW** command in **LD 16** to create a Route Data Block. The route created is a **TIE** route in order to connect to Open Trade. Ensure **VTRK** is set to **YES** and **PCID** is **SIP**. Ensure that the other values highlighted are configured correctly. A complete printout of all prompts can be found in **Appendix B** of these Application Notes.

LD 16

Prompt	Response	Description
>	LD 16	Enter Overlay 16
REQ	NEW	Create new
TYPE	RDB	Route Data block
CUST	0	Customer Number as defined in LD15
ROUT	22	Route Number
TKTP	TIE	Route Type
VTRK	YES	Virtual Route
PCID	SIP	Protocol ID for route
NODE	111	Node number of the CS1000E
DTRK	NO	Digital Trunk Route
ISDN	YES	Integrated Services Digital Network
MODE	ISDL	mode of operation
IFC	SL1	Interface type
ACOD	8022	Access Code for trunk route

5.2.3. Adding TIE Trunks

Use the **NEW** command in **LD 14** to add (**IPTI**) **TIE** trunks to the new route created in **Section 5.2.2**. If adding multiple trunks for each route, use **NEW XX**, where **XX** is the number of trunks. In the example below **10** trunks were added.

LD 14

Prompt	Response	Description
>	LD 14	Enter Overlay 14
REQ	NEW 10	Create 10 New Trunks
TYPE	IPTI	IP TIE trunk
TN	100 0 3 0	Loop Shelf Card Unit
CUST	0	Customer Number as defined in LD15
RTMB	22 1	Route number and Member number

5.3. Configure a Coordinated Dialing Plan

In order to setup a Coordinated Dialing Plan (CDP) both a route list index and a CDP are added. This is required to route calls over the SIP trunk.

5.3.1. Create a Route List Index

Use the **NEW** command in **LD 86** to create a **RLI**. Enter the route (**ROUT**) that was created in **Section 5.2.2**.

LD 86

Prompt	Response	Description
>LD 86	Enter overlay 86	
REQ	NEW	Create New
CUST	0	Customer Number as defined in overlay 15
FEAT	RLB	Route list Block
TYPE	RLI	Route list Index
RLI	22	Route list Index number
ENTR	0	First entry for the RLI
ROUT	22	Enter the route number

5.3.2. Create CDP

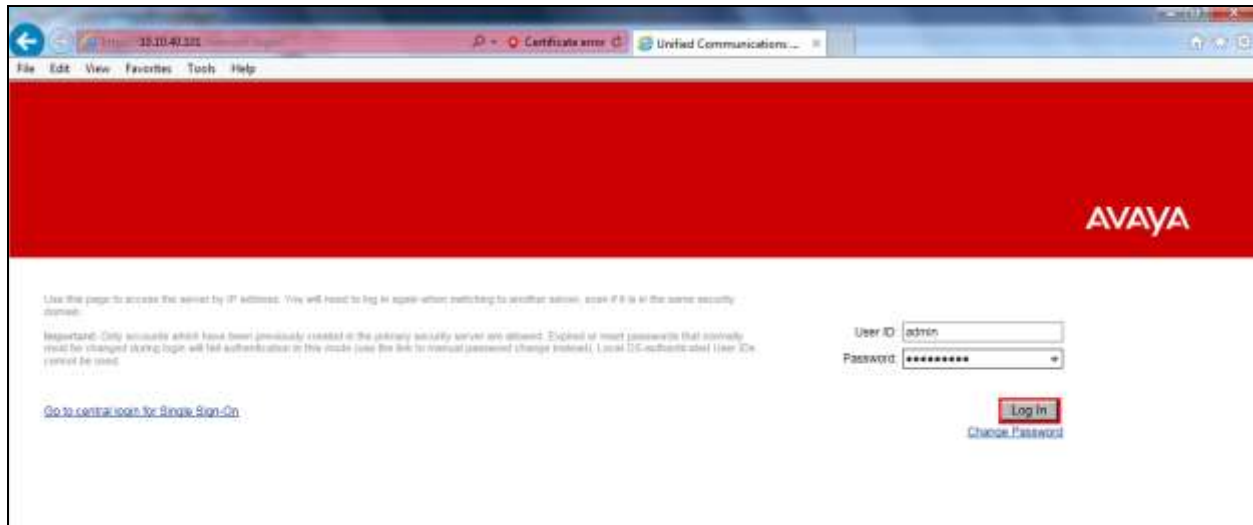
Use the **NEW** command in **LD 87** to create a **CDP** entry for the Open Trade routing. For each extension, a CDP entry needs to be created. In the example below, the **DSC** is **5100**, **FLEN** is **4** and the **RLI** is **22**. The RLI number used is the one created in **Section 5.3.1**.

LD 87

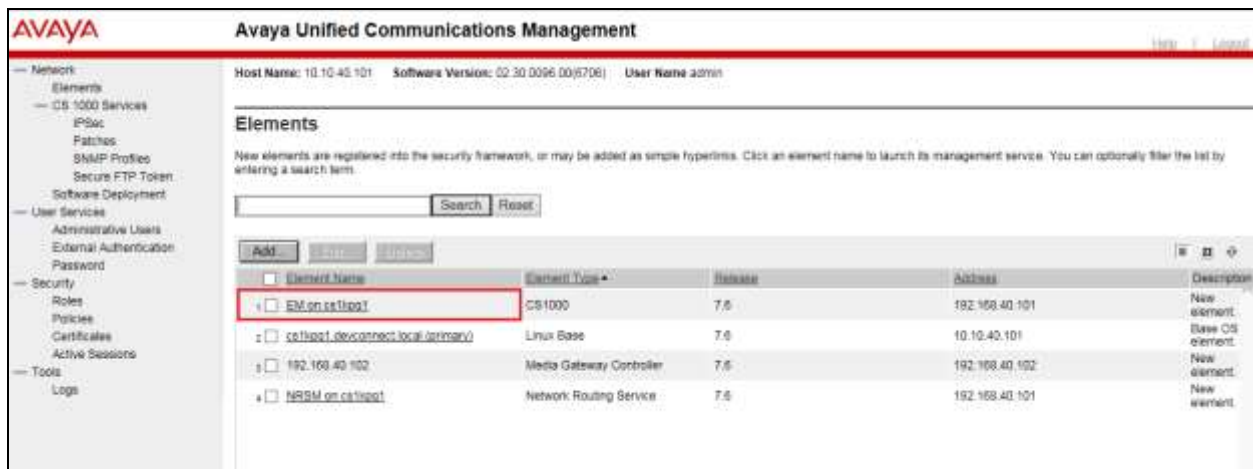
Prompt	Response	Description
>	LD 87	Enter Overlay 87
REQ	NEW	Create new
CUST	0	Customer Number as defined in overlay 15
FEAT	CDP	Coordinated dialing plan
TYPE	DSC	Distance Steering code
DSC	5100	Distant Steering code
FLEN	4	Flexible Length number of digits
RLI	22	Route list index Number

5.4. Configure SIP Gateway in Element Manager

The CS1000 that was used for compliance testing was setup as its own security domain so changes to Element Manager are made by opening a web session to the CS1000 directly and not through System Manager as it may be on other sites.



The **Elements** page is shown in the following screenshot. Click Element Name of the CS 1000 that needs to be accessed as is highlighted in the red box below.



Navigate to **IP Network → Nodes Servers and Media Cards** in the left window and select the Node associated with the CS1000E in the example below this **Node ID** is **111**. Open this node by clicking on **111** highlighted below.

AVAYA CS1000 Element Manager

Managing: 192.168.40.101 Username: admin
System > IP Network > IP Telephony Nodes

IP Telephony Nodes
Click the Node ID to view or edit its properties.

Buttons: Add, Import, Export, Delete, Print, Refresh

Node ID	Components	Enabled Applications	ELAN IP	Node/TLAN IPv4	Node/TLAN IPv6	Status
111	1	SIP Line, LTPS, Gateway (SIPGw)	-	10.10.40.111	-	Synchronized

Show: ☐ Nodes ☐ Component servers and cards ☒ IPv6 address

Select **Gateway (SIPGw)** highlighted.

AVAYA CS1000 Element Manager

Managing: 192.168.40.101 Username: admin
System > IP Network > IP Telephony Nodes > Node Details

Node Details (ID: 111 - SIP Line, LTPS, Gateway (SIPGw))

Subnet mask: 255.255.255.0

Node IPv6 address: [Empty field]

IP Telephony Node Properties

- Voice Gateway (VGW) and Codecs
- Quality of Service (QoS)
- LAN
- SRTP
- Numbering Zones
- MCDN Alternative Routing Treatment (MALT) Causes

Applications (click to edit configuration)

- SIP Line
- Terminal Proxy Server (TPS)
- Gateway (SIPGw)**
- Personal Directories (PD)
- Presence Publisher
- IP Media Services

* Required Value. [Save] [Cancel]

Associated Signaling Servers & Cards

Select to add [Dropdown] [Add] [Remove] [Make Leader] [Print] [Refresh]

Hostname	Type	Deployed Applications	ELAN IP	TLAN IPv4	Role
cs1kpg1	Signaling_Server	SIP Line, LTPS, Gateway (SIP/H323), PD, Presence Publisher, IP Media Services	192.168.40.101	10.10.40.101	Leader

Show: ☐ IPv6 address

Enter the correct **SIP domain name** note this will be referenced again in **Section 6.1**.

The screenshot shows the AVAYA CS1000 Element Manager interface. The left sidebar contains a navigation tree with categories like UCM Network Services, Links, System, Customers, Routes and Trunks, and Dialing and Numbering Plans. The main content area is titled 'Node ID: 111 - Virtual Trunk Gateway Configuration Details'. It has tabs for General, SIP Gateway Settings, and SIP Gateway Services. The 'General' tab is active, showing fields for 'Vtrk gateway application' (set to SIP Gateway (SIPGW)), 'SIP domain name' (set to devconnect.local), 'Local SIP port' (set to 5060), 'Gateway endpoint name' (set to CS1KPG1), 'Gateway password', 'Application node ID' (set to 111), and 'Enable failsafe NRS'. A red box highlights the 'SIP domain name' and 'Local SIP port' fields. The right side of the page has a 'Virtual Trunk Network Health Monitor' section with a checkbox for 'Monitor IP addresses (listed below)' and a list of 'Monitor addresses'.

Scroll down to **Proxy Or Redirect Server: Proxy Server Route 1** and enter the IP Address of the Session Manager for the **Primary TLAN IP address**. Ensure the **Port** number is set to **5060** and the **Transport protocol** is set to **TCP**, note this can be set to either TCP or UDP but the corresponding SIP Entity Link will need to be set the same on Session Manager for the CS1000. Everything else can be left as default.

The screenshot shows the AVAYA CS1000 Element Manager interface, specifically the 'Proxy Or Redirect Server' configuration for Node ID: 111. The 'Proxy Server Route 1' section is expanded, showing fields for 'Primary TLAN IP address' (set to 10.10.40.12), 'Port' (set to 5060), 'Transport protocol' (set to TCP), and 'Options' (Support registration and Primary CDS proxy). A red box highlights the 'Primary TLAN IP address', 'Port', and 'Transport protocol' fields. Below this, there is a 'Secondary TLAN IP address' section with fields for 'Secondary TLAN IP address' (set to 0.0.0.0), 'Port' (set to 5060), 'Transport protocol' (set to TCP), and 'Options' (Support registration). The bottom of the page has a 'Save' button and a 'Cancel' button.

Ensure the same details are filled in for the **Proxy Server Route 2**. Click on **Save** at the bottom right of the screen.

AVAYA CS1000 Element Manager

Managing: 192.168.40.101 Username: admin
System > IP Network > IP Telephony Nodes > Node Details > Virtual Trunk Gateway Configuration

Node ID: 111 - Virtual Trunk Gateway Configuration Details

General | SIP Gateway Settings | SIP Gateway Services

Options: ☐ Support registration
☐ Tertiary CDS proxy

Proxy Server Route 2:

Primary TLAN IP address: 10.10.40.12
The IP address can have either IPv4 or IPv6 format based on the value of "TLAN address type"

Port: 5060 (1 - 65535)

Transport protocol: TCP

Options: ☐ Registration not supported
☐ Primary CDS proxy

CLID Presentation:

Country code (CCC):
Area code: NPA in North America

* Required Value. Note: Changes made on this page will NOT be transmitted until the Node is also saved.

Save Cancel

Click on **Save** again as highlighted below.

AVAYA CS1000 Element Manager

Managing: 192.168.40.101 Username: admin
System > IP Network > IP Telephony Nodes > Node Details

Node Details (ID: 111 - SIP Line, LTPS, Gateway (SIPGW))

Node ID: 111 * (0-9999)

Call server IP address: 192.168.40.101 * TLAN address type: ☒ IPv4 only
☐ IPv4 and IPv6

Embedded LAN (ELAN) Telephone LAN (TLAN)

Gateway IP address: 192.168.40.1 * Node IPv4 address: 10.10.40.111 *

Subnet mask: 255.255.255.0 * Subnet mask: 255.255.255.0 *

Node IPv6 address:

* Required Value. Save Cancel

Associated Signaling Servers & Cards

Select to add Add Remove Make Leader Print Refresh

Hostname	Type	Deployed Applications	ELAN IP	TLAN IP v4	Role
☐ cs1pg1	Signaling_Server	(SIP:H323), PD, Presence	192.168.40.101	10.10.40.101	Leader

Select **Transfer Now** as shown below.



The following screen is displayed requiring that synchronization is performed followed by a restart of the Applications. Ensure the **Hostname** is ticked and click on **Start Sync**.



The following screen shows the **Sync in progress**.

AVAYA CS1000 Element Manager

Managing: 192.168.40.101 Username: admin
System > IP Network > IP Telephony Nodes > Synchronize Configuration Files

Synchronize Configuration Files (Node ID <111>)
Synchronization in progress. Status will be updated automatically.
(You may also navigate away from this page and return to the [IP Telephony Nodes](#) list to verify completion.)

[Print](#) | [Refresh](#)

Hostname	Type	Applications	Synchronization Status
cs1kpg1	Signaling_Server	SIP Line, LTPS, Gateway (SIP/H323), PD, Presence Publisher, IP Media Services	Sync in progress

Once the Sync is completed select the **Hostname** again and click on **Restart Applications**. This will complete the Signalling Server configuration for Session Manager routing.

AVAYA CS1000 Element Manager

Managing: 192.168.40.101 Username: admin
System > IP Network > IP Telephony Nodes > Synchronize Configuration Files

Synchronize Configuration Files (Node ID <111>)

Note: Select components to synchronize their configuration files with call server data. This process transfers server files to selected components, and requires a restart* of applications on affected servers when complete.

[Print](#) | [Refresh](#)

Hostname	Type	Applications	Synchronization Status
☒ cs1kpg1	Signaling_Server	SIP Line, LTPS, Gateway (SIP/H323), PD, Presence Publisher, IP Media Services	Sync required

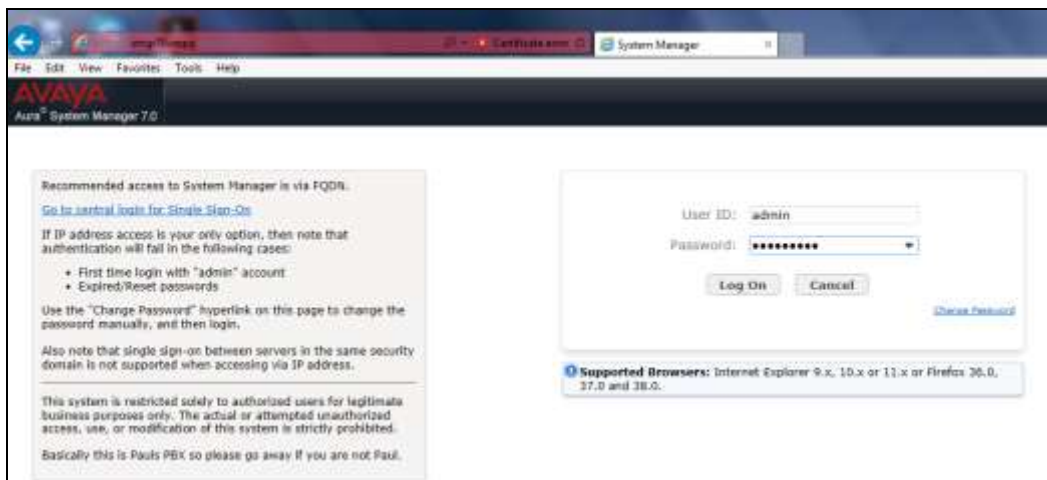
* Application restart is only required for initial system configuration or if changes have been made to general LAN configurations, SIP settings, SIP and H323 Gateway settings, network connectivity related parameters like ports and IP address, enabling or disabling services, or adding or removing application servers.

6. Configure Avaya Aura® Session Manager

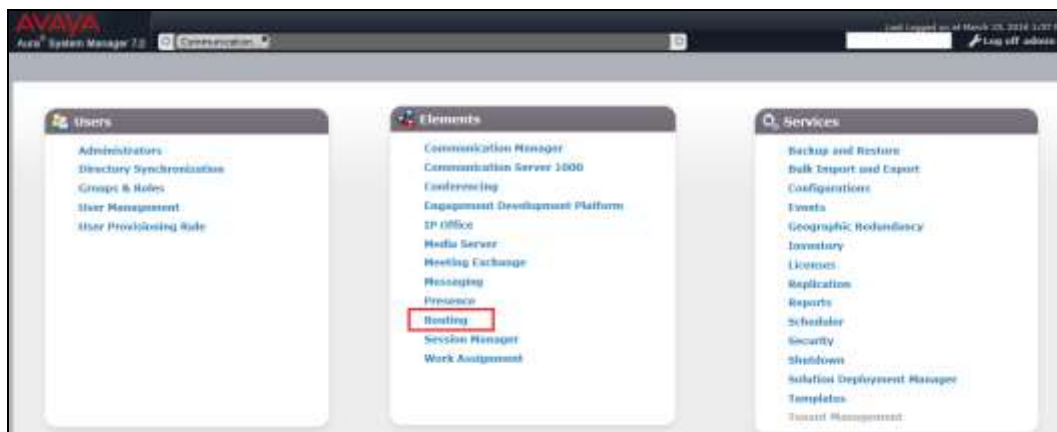
This section provides the procedures for configuring Session Manager. The procedures include adding the following items:

- Specify SIP domain.
- Add Location.
- Create an Adaptation for Open Trade.
- Add SIP Entity for Open Trade.
- Add Entity Link for Open Trade.
- Add Routing Policy for Open Trade.
- Add Dial Pattern for routing to Open Trade.

Configuration is accomplished by accessing the browser-based GUI of System Manager using the URL “https://<ip-address>”, where <ip-address> is the IP address of System Manager. Log in with the appropriate credentials.



Navigate to **Routing**, highlighted below.



6.1. Specify SIP Domain

Add the SIP domain for which the communications infrastructure will be authoritative. From the home page of System Manager, navigate to **Elements** → **Routing**, the Routing page will be displayed, select **Domains** on the left and click the **New** button on the right (not shown). The following screen will then be shown. Fill in the following:

- **Name:** The authoritative domain name (e.g., **devconnect.local**).
- **Type:** Select **sip** in the dropdown menu.
- **Notes:** Descriptive text (optional).
- Click **Commit**.

Since the sample configuration does not deal with any other domains, no additional domains need to be added.

The screenshot shows the Avaya Aura System Manager 7.0 interface. The top navigation bar includes the Avaya logo and the text "Aura® System Manager 7.0". Below this, there are tabs for "Home" and "Routing". The "Routing" tab is selected, and a sub-menu on the left shows "Domains" as the active selection. The main content area is titled "Domain Management" and contains a table with one item. The table has columns for "Name", "Type", and "Notes". The "Name" column contains "devconnect.local", the "Type" column contains "sip", and the "Notes" column contains "Default domain for Paul". There are "Commit" and "Cancel" buttons at the top right and bottom right of the table.

Name	Type	Notes
* devconnect.local	sip	Default domain for Paul

6.2. Add Location

Locations can be used to identify logical and/or physical locations where SIP Entities reside for purposes of bandwidth management. To add a location, select **Locations** on the left and then click the **New** button on the right (not shown). The following screen will then be shown. Fill in the following:

- Under **General**:
 - **Name**: A descriptive name.
 - **Notes**: Descriptive text (optional).
- Under **Location Pattern**:
 - **IP Address Pattern**: A pattern used to logically identify the location.
 - **Notes**: Descriptive text (optional).

Note: the example below shows the Avaya Subnet **10.10.40.x** and the IPC subnet **172.29.187.x** added. Click on **Commit** to complete.

The screenshot displays the 'Location Details' configuration page in the Avaya Aura System Manager 7.0 interface. The left sidebar shows the navigation menu with 'Locations' selected. The main content area is titled 'Location Details' and includes a 'Commit' button. The 'General' section contains fields for 'Name' (PGLAB) and 'Notes' (Pauls Lab). The 'Dial Plan Transparency in Survivable Mode' section has an 'Enabled' checkbox and fields for 'Listed Directory Number' and 'Associated CM SIP Entity'. The 'Alarm Threshold' section includes 'Overall Alarm Threshold' (80%), 'Multimedia Alarm Threshold' (80%), and 'Latency before Overall Alarm Trigger' (5 Minutes). The 'Location Pattern' section shows a table with two items: '10.10.40.*' (Pauls subnet) and '172.29.187.*' (Etrails subnet). The 'Select' dropdown is set to 'All'.

IP Address Pattern	Notes
* 10.10.40.*	Pauls subnet
* 172.29.187.*	Etrails subnet

6.3. Create an Adaptation for Open Trade

To configure a new Adaptation select **Adaptations** from the left window and click on **New** (not shown) from the main window.

Enter a descriptive name in the **Adaptation Name** and select **DigitConversionAdapter** for the **Module Name**. Select **Name-Value Parameter** as the **Module Parameter Type**.

The screenshot shows the Avaya Aura System Manager 7.0 interface. The left sidebar has 'Adaptations' selected. The main area shows 'Adaptation Details' with the following fields:

- Adaptation Name: Etrail
- Module Name: DigitConversionAdapter
- Module Parameter Type: Name-Value Parameter

Below these fields is a table with columns 'Name' and 'Value'.

Name	Value
fromto	true
iodstd	devconnect.local
iosrcd	devconnect.local

Add the following Parameters:

- **Fromto** = **true**
- **Iodstd** = **devconnect.local** (or whatever the domain name is)
- **Iosrcd** = **devconnect.local** (or whatever the domain name is)

This is a close-up of the parameter table from the previous screenshot. It shows the 'Name' and 'Value' columns with entries for 'fromto', 'iodstd', and 'iosrcd'.

Name	Value
fromto	true
iodstd	devconnect.local
iosrcd	devconnect.local

- **MIME** = no
- **odstd** = IP address of the Open Trade SIP Server
- **osrcd** = IP address of Session Manager

Add Remove	
☐ Name	Value
☐ MIME	no
☐ odstd	172.29.187.244
☐ osrcd	10.10.40.12

Select : All, None Page 2 of 2

Click on **Commit** once completed.

AVAYA
Aurea System Manager 7.0

Home / Elements / Routing / Adaptations

Adaptation Details

General

Adaptation Name: Etrail

Module Name: DigitConversionAdapter

Module Parameter Type: Name-Value Parameter

Commit Cancel

Add Remove	
☐ Name	Value
☐ MIME	no
☐ odstd	172.29.187.244
☐ osrcd	10.10.40.12

Select : All, None Page 2 of 2

6.4. Add SIP Entity for Open Trade

A SIP Entity must be added for Open Trade. To add a SIP Entity select SIP Entities on the left and click on the **New** button on the right (not shown). The following screen is displayed. Fill in the following:

- Under **General**:
 - **Name**: A descriptive name.
 - **FQDN or IP Address**: Enter Open Trade IP address.
 - **Type**: Select **Other**.
 - **Adaptation**: Select the adaption created in **Section 6.3**.
 - **Location**: Select the location defined previously.
 - **Time Zone**: Time zone for this location.

Defaults may be used for the remaining fields. Click **Commit** to save each SIP Entity definition.

The screenshot displays the Avaya Aura System Manager 7.0 web interface. The left-hand navigation pane shows a tree structure with 'Routing' expanded, and 'SIP Entities' selected. The main content area is titled 'SIP Entity Details' and includes a 'General' tab. The form contains the following fields and values:

- Name**: Etrail_OT
- FQDN or IP Address**: 172.29.187.244
- Type**: SIP Trunk (dropdown menu)
- Notes**: (empty text area)
- Adaptation**: Etrail (dropdown menu)
- Location**: PGLAB (dropdown menu)
- Time Zone**: Europe/Dublin (dropdown menu)
- SIP Timer B/F (in seconds)**: 4
- Credential name**: (empty text field)
- Securable**: ☐
- Call Detail Recording**: egress (dropdown menu)

At the top right of the form, there are 'Commit' and 'Cancel' buttons. The breadcrumb navigation at the top reads 'Home / Elements / Routing / SIP Entities'.

6.5. Add Entity Link for Open Trade

The SIP trunk from Session Manager to Open Trade is described by Entity Links. To add an Entity Link, select Entity Links on the left and click on the **New** button on the right (not shown). Fill in the following fields in the new row that is displayed:

- **Name:** A descriptive name.
- **SIP Entity 1:** Select the Session Manager.
- **Protocol:** Select the appropriate protocol.
- **Port:** Port number to which the other system sends SIP requests.
- **SIP Entity 2:** Select the Open Trade

Click on **Commit** when completed.

Avaya Aura System Manager 7.0

Home / Elements / Routing / Entity Links

Entity Links

Commit Cancel

1 Item

Name	SIP Entity 1	Protocol	Port	SIP Entity 2	DNS Override	Port	Connection Policy
* Etrai	* sm70vmg	UDP	* 5060	* Etrai_OT	☐	* 5060	Trusted

Select : All, none

Commit Cancel

6.6. Add Routing Policy for Open Trade

Routing policies describe the conditions under which calls will be routed to the SIP Entities. A routing policy must be added for Open Trade. To add a routing policy, select **Routing Policies** on the left and click on the **New** button on the right (not shown). The following screen is displayed. Fill in the following:

- Under **General**: Enter a descriptive name in Name.
- Under SIP Entity as Destination: Click **Select**, and then select the appropriate SIP entity to which this routing policy applies.

AVAYA
Aura® System Manager 7.0

Home / Elements / Routing / Routing Policies

Routing Policy Details

Commit Cancel

General

* Name: To Etrali

Disabled: ☐

* Retries: 0

Notes: Etrali

SIP Entity as Destination

Select

Select the Open Trade SIP Entity for the Routing Policy for Open Trade.

AVAYA
Aura® System Manager 7.0

Home / Elements / Routing / Routing Policies

SIP Entities

Select Cancel

11 Items

Name	FQDN or IP Address	Type	Notes
ascc6450vmpg	10.10.40.55	SIP Trunk	
AACCT60vmpg	10.10.40.80	SIP Trunk	
AacomDECT_Master	10.10.40.101	Endpoint Concentrator	untrusted entity link
AacomDECT_Slave	10.10.40.102	Endpoint Concentrator	untrusted entity link
cm63vmpg	10.10.40.31	CM	RS.3 CM
cm70vmpg	10.10.40.13	CM	
CS1000E	10.10.40.111	Other	CS1KPG1
Etrali_DT	172.29.157.244	SIP Trunk	
SPO500V2	10.10.40.20	SIP Trunk	
messaging63vmpg	10.10.40.32	SIP Trunk	AA Messaging RS.3
sm70vmpg	10.10.40.12	Session Manager	Sm100 IP

Select : None

Click on Commit when finished.

Avaya Aura® System Manager 7.0

Home / Elements / Routing / Routing Policies

Routing Policy Details

Commit Cancel

Help ?

General

Name: To Etrall

Disabled: ☐

Retries: 0

Notes: Etrall

SIP Entity as Destination

Name	FQDN or IP Address	Type	Notes
Etrall_OT	172.29.187.244	SIP Trunk	

Time of Day

Add Remove View Gaps/Overlaps

1 Item

Ranking	Name	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Start Time	End Time	Notes
0	24/7	☒	☒	☒	☒	☒	☒	☒	00:00	23:59	Time Range 24/7

Select : All, None

6.7. Add Dial Pattern for routing to Open Trade

Dial patterns must be defined that will direct calls to the appropriate SIP Entity. In the sample configuration, 4-digit extensions beginning with 51xx route to the Open Trade. To add a dial pattern select **Dial Patterns** on the left and click on the **New** button on the right (not shown). Fill in the following:

Under General:

- **Pattern:** Dialed number or prefix.
- **Min:** Minimum length of dialed number.
- **Max:** Maximum length of dialed number.
- **SIP Domain:** Select **devconnect.local** SIP domain as defined in **Section 6.1**.
- Under Originating Locations and Routing Policies, click **Add...**

The screenshot shows the Avaya Aura System Manager 7.0 interface. The left sidebar contains a navigation menu with options: Routing, Domains, Locations, Adaptations, SIP Entities, Entity Links, Time Ranges, Routing Policies, **Dial Patterns**, Regular Expressions, and Defaults. The main content area is titled 'Dial Pattern Details' and includes 'Commit' and 'Cancel' buttons. The 'General' section contains the following fields:

- Pattern:** 51
- Min:** 4
- Max:** 4
- Emergency Call:** ☐
- Emergency Priority:** 1
- Emergency Type:**
- SIP Domain:** devconnect.local (dropdown menu)
- Notes:** To Etrali

Below the 'General' section is the 'Originating Locations and Routing Policies' section, which includes an 'Add' button and a table with 1 item.

	Originating Location Name	Originating Location Notes	Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination
☐						

The following screen shows the Routing Policy created in **Section 6.6** being added for the dial pattern. Click **Select** to save this dial pattern.

Originating Location [Select] [Cancel]

Originating Location

☐ Apply The Selected Routing Policies to All Originating Locations

1 Item [Filter: Enable]

Name	Notes
PGLAB	Pauls Lab

Select: All, None

Routing Policies

8 Items [Filter: Enable]

Name	Disabled	Destination	Notes
To_aacc64SIPvmg	☐	aacc64SIPvmg	aacc64SIPvmg
To_AACC70vmg	☐	AACC70vmg	To_AACC70vmg
To_cm63vmg	☐	cm63vmg	Routing to CM63
To_cm70vmg	☐	cm70vmg	
To_CS1000E	☐	CS1000E	Routing to CS1KPG1
☒ To Etrail	☐	Etrail_OT	Etrail
To_IP0500V2	☐	IP0500V2	To IP0500V2
To_Messaging	☐	messaging63vmg	AA Messaging R63

Click on **Commit** to finish.

Dial Pattern Details [Commit] [Cancel]

General

* Pattern: 51

* Min: 4

* Max: 4

Emergency Call: ☐

Emergency Priority: 1

Emergency Type:

SIP Domain: devconnect.local

Notes: To Etrail

Originating Locations and Routing Policies

Add Remove

1 Item [Filter: Enable]

Originating Location Name	Originating Location Notes	Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes
PGLAB	Pauls Lab	To Etrail	0	☐	Etrail_OT	Etrail

Select: All, None

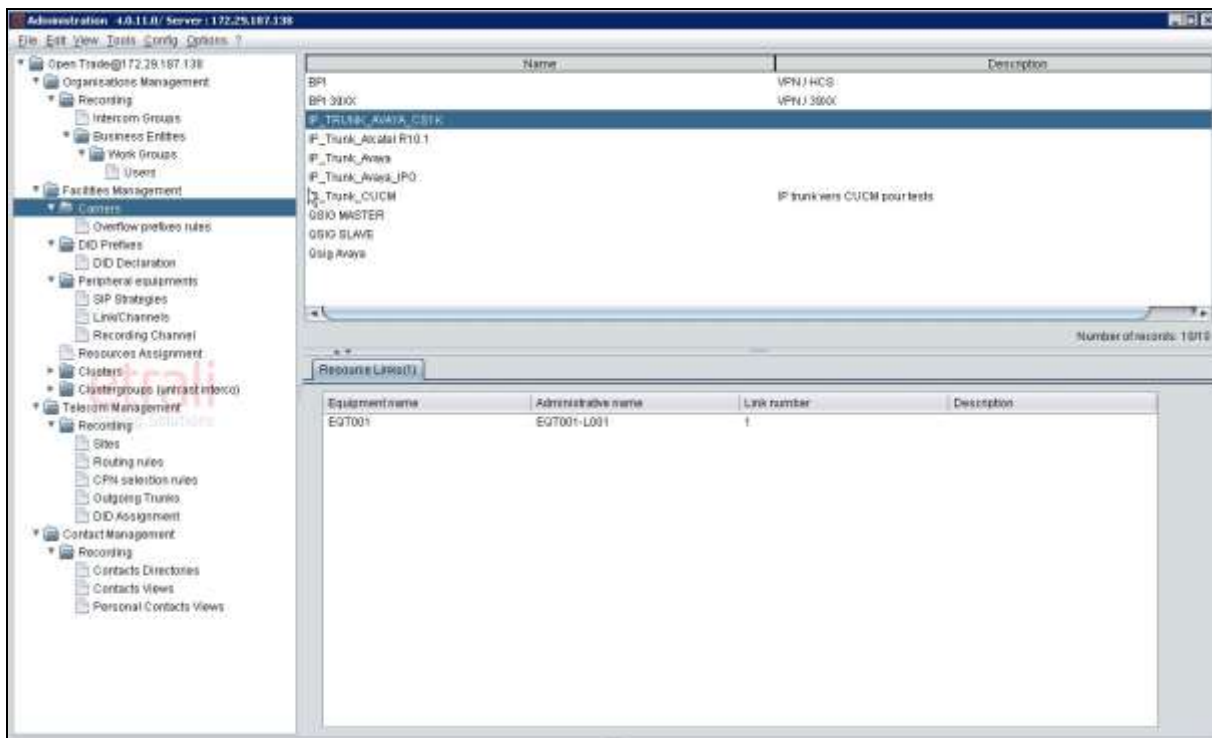
7. Configuration of IPC Open Trade

Start the Open Trade Administration program, and log in with the appropriate credentials.



7.1. Create Carrier

Expand the **Facilities Management** icon and select the **Carriers** menu element. Place the cursor under the **Name** pane header and right-click..



Select **Create** from the menu which appears.

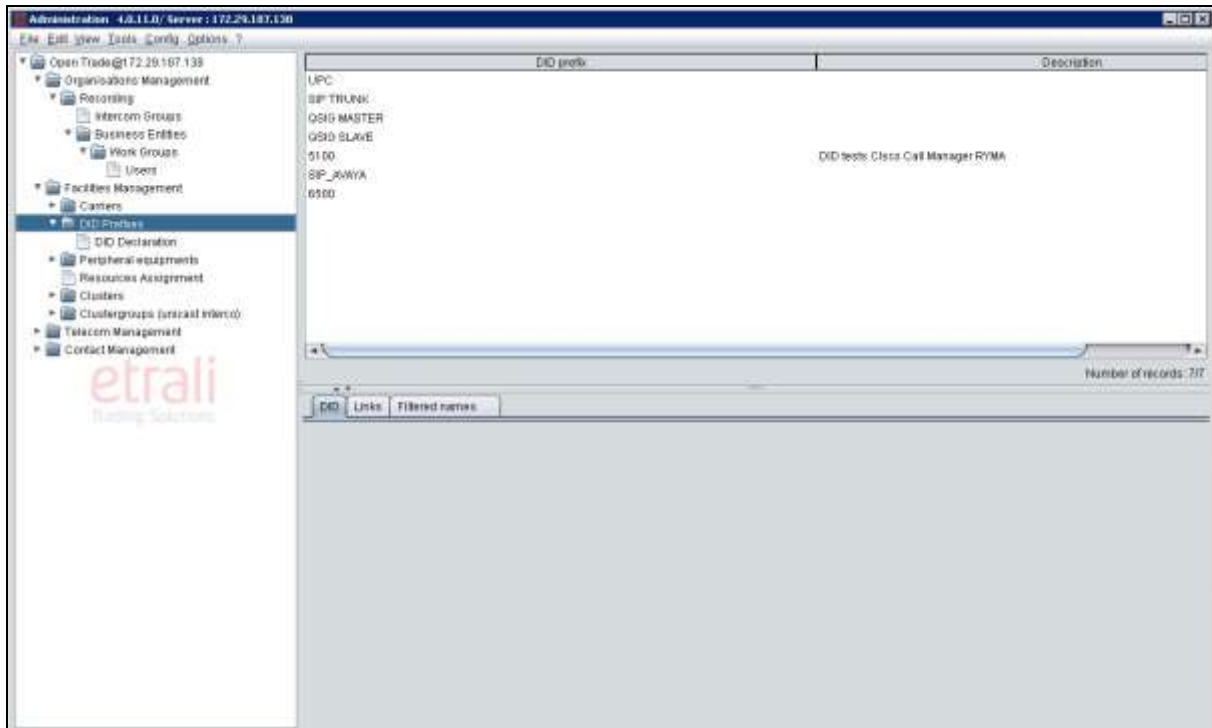


Enter an appropriate **Name** and **Description** and click **Ok**.

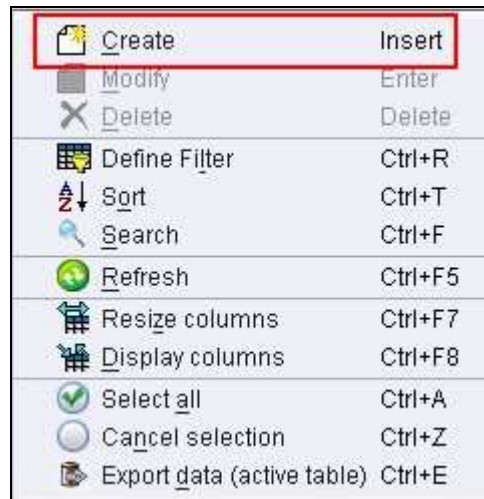


7.2. Create DID Prefixes

Expand the **DID Prefixes** menu item. Place the cursor in the **DID prefix** pane and right-click.



Select **Create** from the menu which appears.

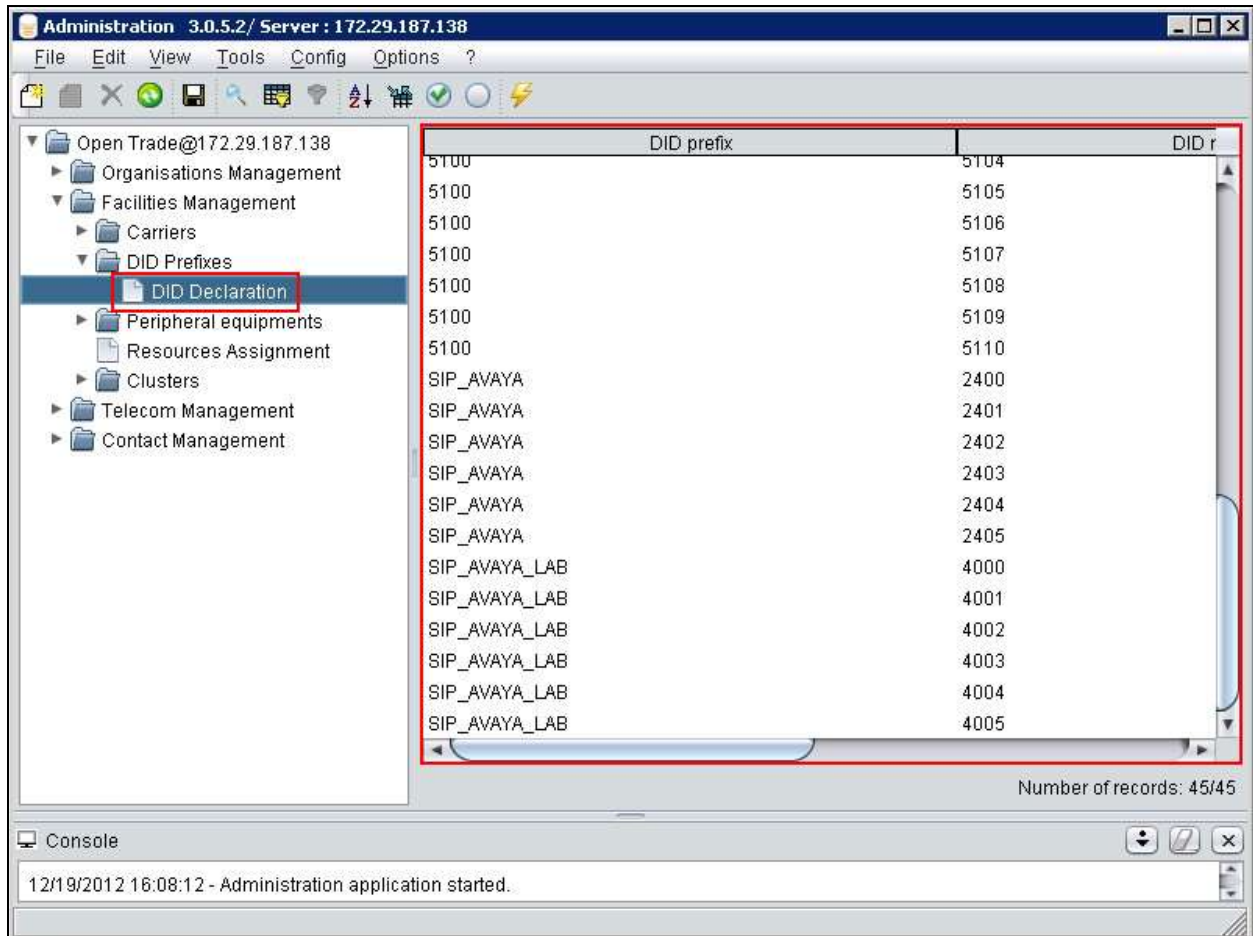


Enter an identifying name in the **DID prefix** field and click **Add**.

A screenshot of a dialog box titled 'DID prefix Add'. The dialog has a title bar with a close button. Inside, there is a section labeled 'DID prefix' containing a text field with the value '5100', which is highlighted by a red rectangular box. Below this is a section labeled 'Filtered names (beginning with...):' containing a list box titled 'Names' which is currently empty. Under the list box are 'Add' and 'Remove' buttons. Below these is a 'Description:' label followed by a large text area. At the bottom right, it says 'Created items: 0'. At the bottom left, there are three buttons: 'Add' (highlighted with a red rectangular box), 'Default values', and 'Cancel'.

7.3. Create DID Declaration

Expand the **DID Declaration** menu item. Place the cursor under the first blank entry in the **DID prefix** pane (not shown) and right-click..



Select **Create** from the menu which appears.



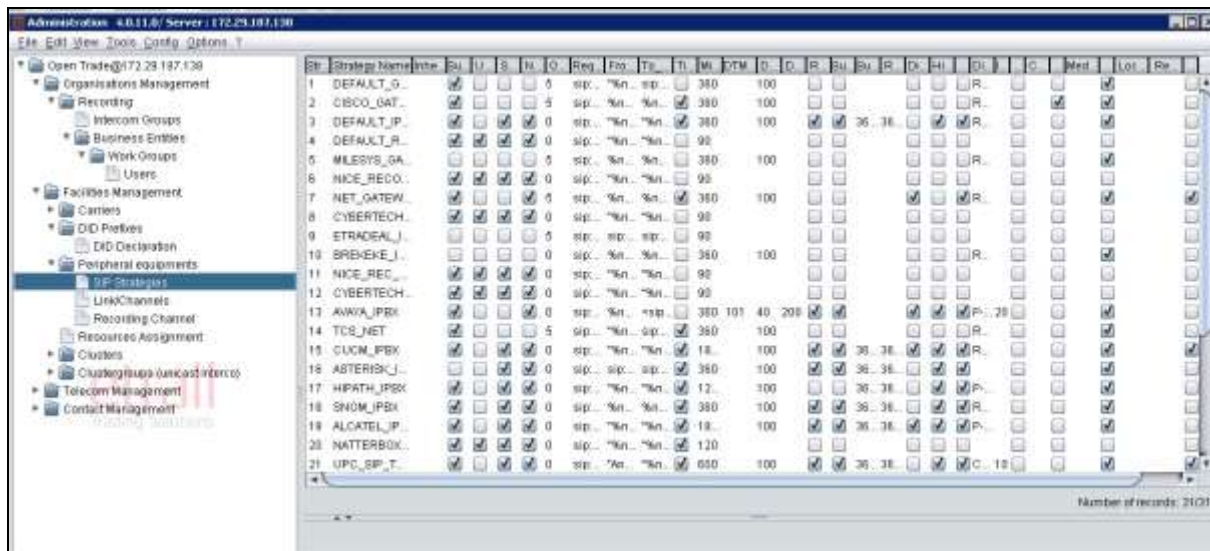
Enter the following values in the **Add DID** screen which appears and click **Add**.

- **DID prefix** – select the DID Prefix created in **Section 7.2**.
- **From** – enter the first number of the range of numbers Open Trade will receive call for. In this case, **5100**.
- **To** – enter the last number of the range of numbers Open Trade will receive calls for. In this case, **5110**.
- **Organization** – select the name of the appropriate Organization from the drop-down menu, this is preconfigured and the details are not covered in these Application Notes.

A screenshot of a dialog box titled 'Add DID'. It contains four input fields: 'DID prefix' with a dropdown menu showing '5100', 'From' with a text box containing '5100', 'To' with a text box containing '5110', and 'Organisation' with a dropdown menu showing 'Recording'. At the bottom right, it says 'Created items: 0'. At the bottom left, there are three buttons: 'Add', 'Default values', and 'Cancel'. The 'Add' button is highlighted with a red rectangular box.

7.4. Create SIP Strategies

Navigate to **Facilities Management** → **Peripheral equipments** → **SIP Strategies**.



Enter a new name for the Strategy such as CUSTOM_001 . For **Inherited from strategy**, select: Avaya_IPBX



Check all the parameters configured as below:

Modify SIP Strategy

Strategy Name: Strategy ID: 0026

Inherited from strategy:

Parameter	Value
supervise_resources	☒
UPDATE_supported	☒
SUBSCRIBE_supported	☐
NOTIFY_supported	☒
outgoing_call_max_rate	0
request_uri_format	sip:%user@%domain:%port
from_uri_format	%name<sip:%user@%domain:%port>
to_uri_format	<sip:%user@%domain:%port>
timer_supported	☐
minimal_duration	360
dtmf_payloads	101
dtmf_duration	40
dtmf_gap	200
registration_activated	☒
subscription_activated	☒
subscription_timer	
registration_timer	
diversion_supported	☒
historyinfo_supported	☒
event-package_message-summary_supported	☒
display_name_header	P-Asserted-Identity,Contact
ignore_ssrc_change_delay	20
public_address_in_sdp	☐
cab_public_ip_address	
p_asserted_identity_activated	☐
media_codec_payloads	
from_registration_replace	☒
local_rtp_extra_params	
remote_rtp_extra_params	
reinvite_sdp	☐
stop_recording	☐
checked_ssrc	☐
clean_uri	☐

Ok Restore Cancel

7.5. Create Peripheral Equipment

This section relates to the Avaya components from/to SIP traffic will be routed. Expand the **Peripheral equipments** menu item. Place the cursor under the first blank entry in the right-hand pane and right-click.



Select **Create** from the menu which appears.



Enter the following values in the **Add Peripheral equipment** screen which appears and click **Add**.

- **Manufacturer** – select **AVAYA** from the drop down list.
- **Product name** – select **AVAYA AURA** from the drop down list.
- **SIP Strategy** – select **CUSTOM_001** from the drop down list. (Created in **Section 7.4**)
- **Equipment name** – enter an identifying name.
- **IP Address or Hostname** – enter the IP address or FQDN of Session Manager.
- **Telco links** – enter **1**.

Modify Peripheral equipment

Peripheral equipment

Logical name: EQT013

Equipment name: EQT001

SIP-X name: CLUSTER01-CABT001

SIP-X Logical name: CLUSTER01-CABT001

Manufacturer: AVAYA

Product name: AVAYA AURA

SIP strategy: CUSTOM_001

Contact parameters

	IP Address / FQDN
1	10.10.40.12
2	
3	
4	
5	

Resources

Telco Links: 1

Recording channels: 0

Interco capacity: 0

Conference bridges: 0

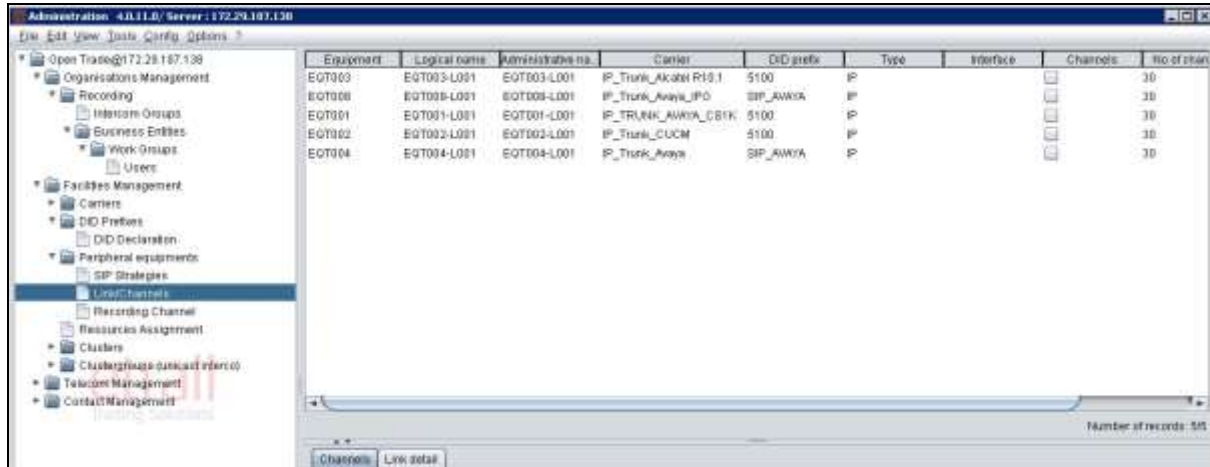
Description: CS1000 certification

Advanced configuration >>

Ok Restore Cancel

7.6. Create Link/Channels

Expand the **Link/Channels** menu item and double click the newly created Equipment created in **Section 7.4**.



Enter the following values in the **Update Telco Link** screen which appears and click **Ok**.

- **Link name** – enter an identifying name.
- **Carrier** – select the Carrier created in **Section 7.1**.
- **DID prefix** – select the DID prefix created in **Section 7.2**.
- **Type** – select **IP** from the drop down list.
- **Number of channels** – enter **30**.

Update Telco Link

Link identity

Equipment name: EQT005 Logical name: EQT005-L001

Link name: EQT005-L001

Description:

Link configuration

Carrier: IP_TRUNK_AWAYA_CS1K Number of channels: 30

DID prefix: 5100 Leased lines (Dissociated channels): ☐

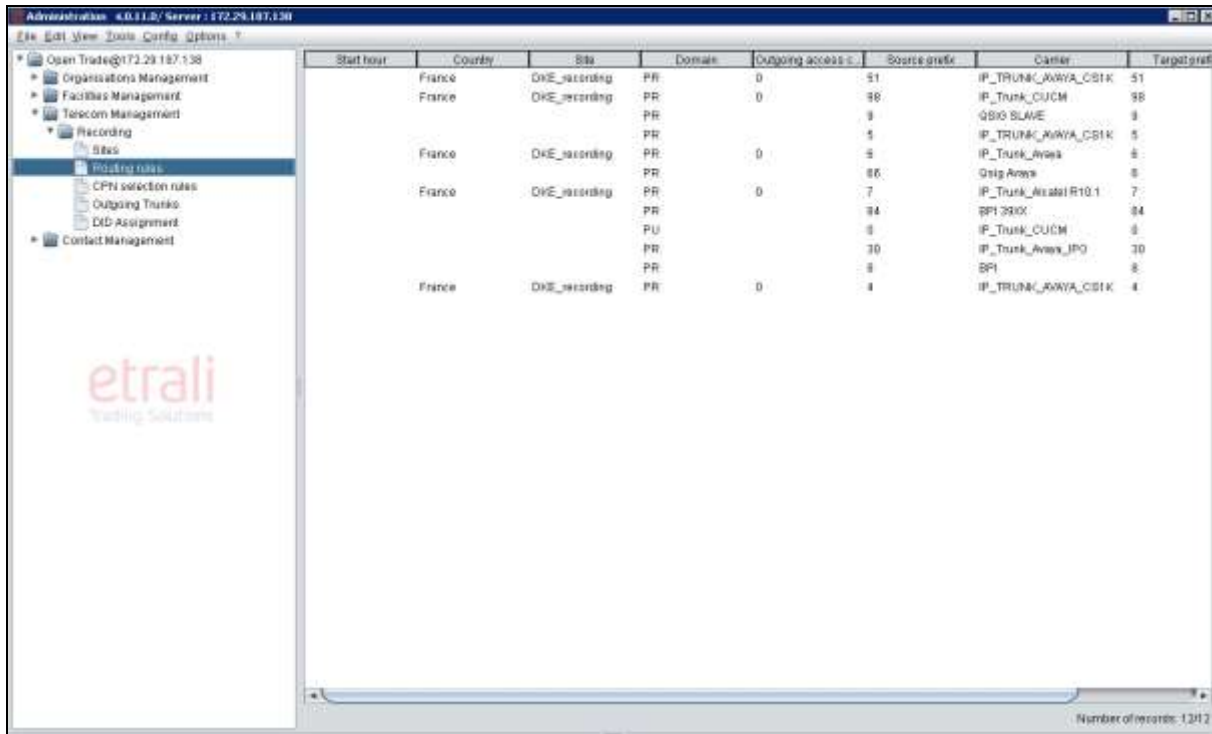
Type: IP Recording warning beep tones: ☐

Interface: None

Ok Restore Cancel

7.7. Create Routing Rule

Expand the **Telecom Management** item and select the **Routing rules** menu element. Place the cursor under the first blank entry in the right hand pane and right-click to create a new routing rule to Session Manager.



Select **Create** from the menu which appears.



Enter the following values in the **Modify Routing rule** screen which appears and click **Ok**.

- **Domain** – select **Private** from the drop down list.
- **Source prefix** – enter the first digit of the extension range configured for Avaya endpoints.
- **Carrier** – enter the Carrier configured in **Section 7.1**.
- **Target prefix** - enter the first digit of the extension range configured for Avaya endpoints.

Modify Routing rule

Routing rule

Start hour: None None None

Country: All

Site: All

Site Outgoing Access code:

From:

Domain: Private

Source prefix: 5

To:

Carrier: IP_TRUNK_AVAYA_CS1K

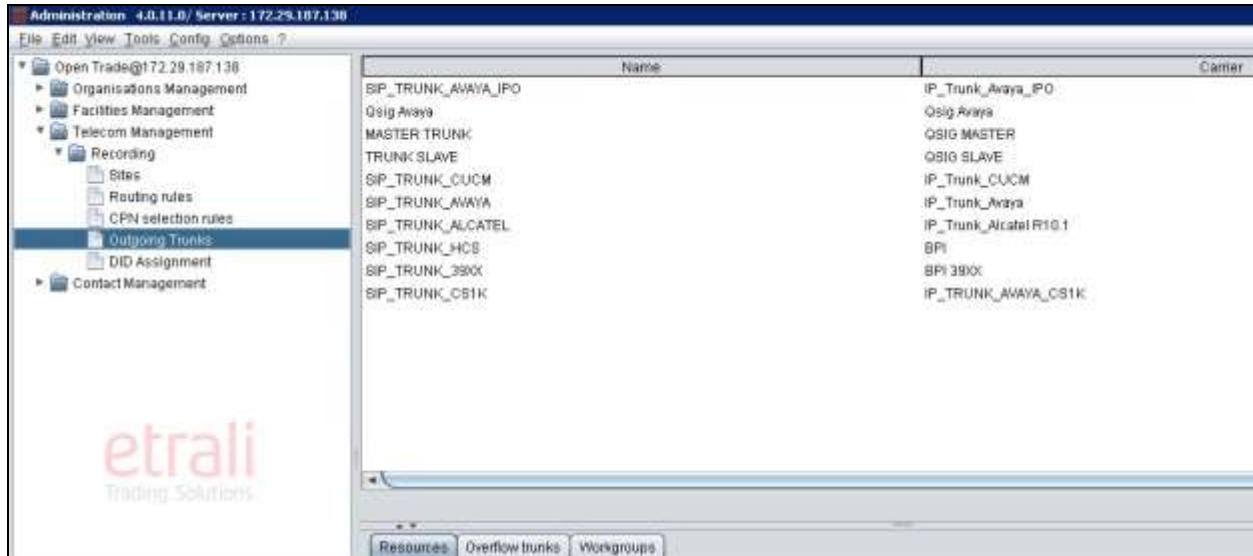
Target prefix: 5

☒ Is activated

Ok Restore Cancel

7.8. Create Outgoing Trunk

Expand the **Telecom Management** and **Recording** items and select the **Outgoing Trunks** menu element. Place the cursor under the first blank entry in the right hand pane and right-click to create a new outgoing trunk to the Avaya solution.



Select “Create” from the menu which appears.



Enter the following values in the **Create Outgoing trunk** screen which appears and click **Ok**.

- **Name** – Enter a suitable name for the outgoing trunk.
- **Carrier** – select the carrier created in **Section 7.1** from the drop down list.
- **Workgroup** – add the appropriate Workgroup from the drop-down menu, this is preconfigured and the details are not covered in these Application Notes.
- **Resources** – add the peripheral equipment created in **Section 7.4**.

Modify Outgoing trunk

Outgoing Trunk

Name: Carrier:

Workgroups

Name	Supplementary name	BE
WG_Recording		BU_Recording

Resources

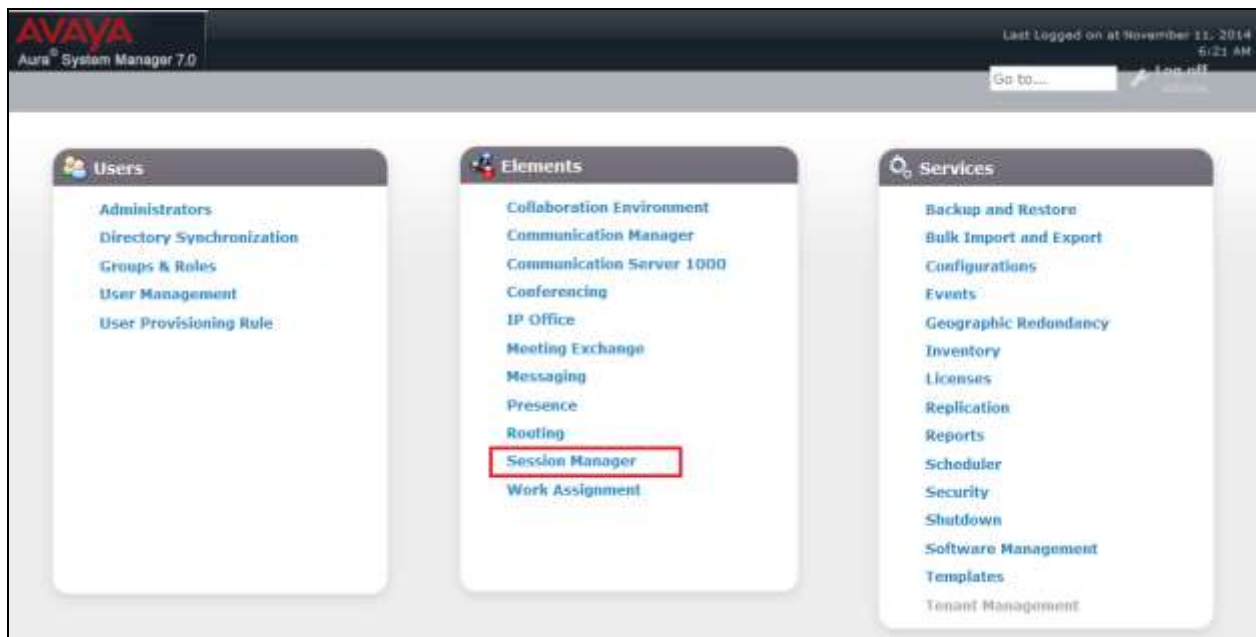
Type	Equipment	Logical name	Administrative name
Link	EQT001	EQT001-L001	EQT001-L001

Overflow trunks

Site	Trunk	Activated
DKE_recording	None	☐

8. Verification Steps

To verify a successful configuration of Open Trade and CS 1000 a call is placed from CS 1000 to and from an Open Trade extension with the caller getting answered successfully and hearing clear and audible speech. The following steps can also be taken to ensure the link is up between Open Trade and Session Manager. Log into System Manager as per **Section 6**. From the main menu select Session Manager as shown below.



Navigate to **System Status** → **SIP Entity Monitoring**. Choose the SIP entities that are to be monitored from the list at the bottom of the screen. Both the CS1000 and the Etrali_OT SIP Entities should be verified. Click on the SIP Entity that is to be monitored from the list of SIP Entities at the bottom of the screen shown below.

AVAYA
Aura® System Manager 7.0

Home / Elements / Session Manager / System Status / SIP Entity Monitoring

SIP Entity Link Monitoring Status Summary

This page provides a summary of Session Manager SIP entity link monitoring status.

[SIP Entities Status for All Monitoring Session Manager Instances](#)

[Run Monitor](#)

1 Items : Refresh Filter: Enable

Session Manager	Type	Monitored Entities					
		Down	Partially Up	Up	Not Monitored	Degraded	Total
sm70vmpg	Core	1	0	7	0	0	8

Select: All, None

[All Monitored SIP Entities](#)

[Run Monitor](#)

8 Items : Refresh Filter: Enable

SIP Entity Name
☐ accsa00q63vmpg
☐ cm63vmpg
☐ acc64SIPvmpg
☐ AACC70vmpg
☐ Etrali_OT
☐ cm70vmpg
☐ CS1000E
☐ IP0500V2

Select: All, None

8.1. Verify Open Trade SIP Entity is up

Select the **OpenTrade** SIP Entity (not shown), SIP Entity, Entity Link Connection Status is displayed and shows the status of OpenTrade SIP entity with Session Manager, make sure both **Conn Status** and **Link Status** is UP.

All Entity Links to SIP Entity: Etrail_OT							
Summary View				Status Details for the selected Session Manager:			
1 Items Refresh				Filter: Enable			
Session Manager Name	SIP Entity Resolved IP	Port	Proto.	Deny	Conn. Status	Reason Code	Link Status
☐ sm70vmpg	172.29.187.244	5060	UDP	FALSE	UP	200 OK	UP

8.2. Verify the CS 1000 SIP Entity.

Repeat the steps above and verify that the link status of CS 1000 and Session Manager is UP as shown in the figure below.

SIP Entity, Entity Link Connection Status							
This page displays detailed connection status for all entity links from all Session Manager instances to a single SIP entity.							
All Entity Links to SIP Entity: CS1000E							
Summary View				Status Details for the selected Session Manager:			
1 Items Refresh				Filter: Enable			
Session Manager Name	SIP Entity Resolved IP	Port	Proto.	Deny	Conn. Status	Reason Code	Link Status
☐ sm70vmpg	10.10.40.111	5060	TCP	FALSE	UP	200 OK	UP

9. Conclusion

The interoperability of Open Trade from IPC with Avaya Communication Server 1000 R7.6 and Avaya Aura® Session Manager R7.0 was successful for this specific setup in order to place calls to and from Open Trade to CS1000. All issues and observations are outlined in **Section 2.2**.

10. Additional References

This section references product documentation relevant to these Application Notes.

Documentation for Avaya products can be found at <http://support.avaya.com>.

- [1] *Administering Avaya Aura® Session Manager*, Release 7.0, Document Number 03-300509
- [2] *IP Peer Networking Installation and Commissioning, Avaya Communication Server 1000*, Release 7.6, Document Number NN43001-313, Revision: 05.02, Jun 2013.
- [3] *Communication Server 1000E Overview, Avaya Communication Server 1000*, Release 7.6, Document Number NN43041-110, Revision: 05.02, Jun 2013.

Product documentation for IPC Open Trade can be requested from IPC or may be downloaded from <http://www.ipc.com>

Appendix A

Avaya Communication Server 1000 Release 7.6 - Linux Patches

Product Release: 7.65.16.00
In system patches: 8

PATCH#	NAME	IN_SERVICE	DATE	SPECINS	TYPE	RPM
42	p31484_1	Yes	07/03/16	NO	FRU	cs1000-shared-general-7.65.16-00.i386
43	p33125_1	Yes	07/03/16	NO	FRU	cs1000-OS-1.00.00.00-00.noarch
44	p33274_1	Yes	07/03/16	YES	FRU	initscripts-8.45.25-1.el5.i386
45	p33384_1	Yes	07/03/16	NO	FRU	cs1000-OS-1.00.00.00-00.noarch
46	p33456_1	Yes	07/03/16	YES	FRU	cs1000-OS-1.00.00.00-00.noarch
47	p33493_1	Yes	07/03/16	NO	FRU	cs1000-OS-1.00.00.00-00.noarch
48	p33554_1	Yes	07/03/16	YES	FRU	cs1000-OS-1.00.00.00-00.noarch
49	p33557_1	Yes	07/03/16	YES	FRU	cs1000-OS-1.00.00.00-00.noarch

In System service updates: 42

PATCH#	IN_SERVICE	DATE	SPECINS	REMOVABLE	NAME
0	Yes	06/03/16	YES	YES	cs1000-patchWeb-7.65.16.23-1.i386.000
1	Yes	04/03/16	NO	YES	cs1000-Jboss-Quantum-7.65.16.23-5.i386.000
2	Yes	07/03/16	NO	YES	cs1000-pd-7.65.16.21-00.i386.000
3	Yes	04/03/16	YES	YES	cs1000-dmWeb-7.65.16.23-4.i386.000
4	Yes	06/03/16	YES	YES	cs1000-linuxbase-7.65.16.23-21.i386.000
5	Yes	07/03/16	NO	YES	cs1000-shared-carrdtct-7.65.16.21-01.i386.000
6	Yes	07/03/16	NO	YES	cs1000-shared-tpselect-7.65.16.21-01.i386.000
7	Yes	07/03/16	NO	yes	cs1000-dbcom-7.65.16.21-00.i386.000
8	Yes	07/03/16	NO	YES	cs1000-snmp-7.65.16.21-00.i686.000
9	Yes	07/03/16	NO	YES	cs1000-shared-omm-7.65.16.21-2.i386.000
10	Yes	07/03/16	YES	YES	cs1000-emWebLocal_6-0-7.65.16.22-1.i386.000
11	Yes	07/03/16	YES	YES	cs1000-ipsec-7.65.16.22-1.i386.000
12	Yes	07/03/16	YES	YES	cs1000-csmWeb-7.65.16.22-2.i386.000
13	Yes	07/03/16	YES	YES	cs1000-csoneksvrmgr-7.65.16.22-5.i386.000
14	Yes	07/03/16	YES	YES	cs1000-baseWeb-7.65.16.22-4.i386.000
15	Yes	07/03/16	YES	YES	cs1000-oam-logging-7.65.16.22-4.i386.000
16	Yes	07/03/16	YES	YES	cs1000-csv-7.65.16.22-2.i386.000
17	Yes	07/03/16	YES	YES	cs1000-nrsm-7.65.16.22-3.i386.000
18	Yes	07/03/16	YES	YES	cs1000-mscTone-7.65.16.22-2.i386.000
19	Yes	07/03/16	YES	YES	cs1000-mscMusc-7.65.16.22-4.i386.000
20	Yes	07/03/16	YES	YES	cs1000-mscConf-7.65.16.22-2.i386.000
21	Yes	07/03/16	YES	YES	cs1000-mscAnnc-7.65.16.22-2.i386.000
22	Yes	07/03/16	YES	YES	cs1000-mscAttn-7.65.16.22-2.i386.000
23	Yes	07/03/16	NO	YES	cs1000-gk-7.65.16.22-1.i386.000
24	Yes	07/03/16	YES	YES	cs1000-shared-xmsg-7.65.16.22-1.i386.000
25	Yes	07/03/16	NO	YES	cs1000-sps-7.65.16.23-1.i386.000
26	Yes	07/03/16	YES	YES	cs1000-cs-7.65.16.100-03.i386.000
27	Yes	07/03/16	NO	YES	bash-3.2-33.el5_11.4.i386.000
28	Yes	07/03/16	YES	YES	cs1000-shared-pbx-7.65.16.23-1.i386.000
29	Yes	07/03/16	YES	YES	cs1000-emWeb_6-0-7.65.16.23-3.i386.000
30	Yes	07/03/16	NO	YES	libxml2-2.6.26-2.1.25.el5_11.i386.000
31	Yes	07/03/16	NO	YES	libxml2-python-2.6.26-2.1.25.el5_11.i386.000
32	Yes	07/03/16	NO	YES	freetype-2.2.1-32.el5_9.1.i386.000
33	Yes	07/03/16	NO	YES	cs1000-cs1000WebService_6-0-7.65.16.23-1.i386.000
34	Yes	07/03/16	YES	YES	cs1000-ftrpkg-7.65.16.23-1.i386.000
35	Yes	07/03/16	NO	YES	cs1000-cppmUtil-7.65.16.23-4.i686.000
36	Yes	07/03/16	NO	YES	tzdata-2015a-1.el5.i386.000
37	Yes	07/03/16	YES	YES	cs1000-tps-7.65.16.23-15.i386.000
38	Yes	07/03/16	YES	YES	kernel-2.6.18-406.el5.i686.000
39	Yes	07/03/16	YES	YES	jdk-1.6.0_101-fcs.i586.000
40	Yes	07/03/16	YES	YES	cs1000-vtrk-7.65.16.23-76.i386.000
41	Yes	07/03/16	YES	YES	cs1000-bcc-7.65.16.23-10.i386.000

Avaya Communication Server 1000 Release 7.6 - Call Server Patches

VERSION 4121
RELEASE 7
ISSUE 65 P +
DepList 1: core Issue: 01 (created: 2015-09-30 08:02:03 (est))

IN-SERVICE PEPS

PAT#	CR #	PATCH REF #	NAME	DATE	FILENAME	SPECINS
0000	wi01199336	ISS1:1OF1	p33410_1	09/03/2016	p33410_1.cpl	NO
0001	wi01088055	ISS1:1OF1	p32607_1	09/03/2016	p32607_1.cpl	NO
0002	wi01098433	ISS1:1OF1	p32736_1	09/03/2016	p32736_1.cpl	NO
0003	wi01199608	ISS1:1OF1	p33414_1	09/03/2016	p33414_1.cpl	NO
0004	wi01146254	ISS1:1OF1	p33127_1	09/03/2016	p33127_1.cpl	NO
0005	wi01075149	ISS1:1OF1	p32475_1	09/03/2016	p32475_1.cpl	NO
0006	wi01070585	ISS1:1OF1	p32383_1	09/03/2016	p32383_1.cpl	NO
0007	wi01128512	ISS1:1OF1	p32997_1	09/03/2016	p32997_1.cpl	NO
0008	wi01098783	ISS1:1OF1	p32748_1	09/03/2016	p32748_1.cpl	NO
0009	wi01133960	ISS1:1OF1	p33034_1	09/03/2016	p33034_1.cpl	NO
0010	wi01137694	ISS1:1OF1	p33081_1	09/03/2016	p33081_1.cpl	NO
0011	wi01068011	ISS1:1OF1	p33182_1	09/03/2016	p33182_1.cpl	NO
0012	wi01153896	ISS1:1OF1	p33185_1	09/03/2016	p33185_1.cpl	NO
0013	wi01115369	ISS1:1OF1	p32889_1	09/03/2016	p32889_1.cpl	NO
0014	wi01171418	ISS1:1OF1	p33278_1	09/03/2016	p33278_1.cpl	NO
0015	wi01122174	ISS1:1OF1	p32936_1	09/03/2016	p32936_1.cpl	NO
0016	wi01201882	ISS1:1OF1	p33427_1	09/03/2016	p33427_1.cpl	NO
0017	wi01079444	ISS1:1OF1	p32564_1	09/03/2016	p32564_1.cpl	NO
0018	wi01089519	ISS1:1OF1	p32665_1	09/03/2016	p32665_1.cpl	NO
0019	wi01065248	ISS1:1OF1	p32412_1	09/03/2016	p32412_1.cpl	NO
0020	wi01052968	ISS1:1OF1	p32540_1	09/03/2016	p32540_1.cpl	NO
0021	wi01144609	ISS1:1OF1	p33119_1	09/03/2016	p33119_1.cpl	NO
0022	wi01132244	ISS1:1OF1	p33041_1	09/03/2016	p33041_1.cpl	NO
0023	wi01045058	ISS1:1OF1	p32214_1	09/03/2016	p32214_1.cpl	NO
0024	wi01053920	ISS1:1OF1	p32303_1	09/03/2016	p32303_1.cpl	NO
0025	wi01169714	ISS1:1OF1	p33335_1	09/03/2016	p33335_1.cpl	NO
0026	wi01151870	ISS1:1OF1	p33162_1	09/03/2016	p33162_1.cpl	YES
0027	wi01099300	iss1:1of1	p32704_1	09/03/2016	p32704_1.cpl	NO
0028	wi01171467	ISS1:1OF1	p33270_1	09/03/2016	p33270_1.cpl	NO
0029	wi01207693	ISS1:1OF1	p33452_1	09/03/2016	p33452_1.cpl	NO
0030	wi01120705	ISS1:1OF1	p32930_1	09/03/2016	p32930_1.cpl	NO
0031	wi00959458	ISS1:1OF1	p31551_1	09/03/2016	p31551_1.cpl	NO
0032	wi01197054	ISS1:1OF1	p33397_1	09/03/2016	p33397_1.cpl	NO
0033	wi01065118	ISS1:1OF1	p32397_1	09/03/2016	p32397_1.cpl	NO
0034	wi01181174	ISS1:1OF1	p33316_1	09/03/2016	p33316_1.cpl	NO
0035	wi01053597	ISS1:1OF1	p32304_1	09/03/2016	p32304_1.cpl	NO
0036	wi01071996	ISS1:1OF1	p32461_1	09/03/2016	p32461_1.cpl	NO
0037	wi01127527	ISS1:1OF1	p32988_1	09/03/2016	p32988_1.cpl	YES
0038	wi01008182	ISS1:1OF1	p33277_1	09/03/2016	p33277_1.cpl	NO
0039	wi01096842	ISS1:1OF1	p32731_1	09/03/2016	p32731_1.cpl	NO
0040	wi01068922	ISS1:1OF1	p32454_1	09/03/2016	p32454_1.cpl	NO
0041	wi01182880	ISS1:1OF1	p33328_1	09/03/2016	p33328_1.cpl	NO
0042	wi01138136	ISS1:1OF1	p33191_1	09/03/2016	p33191_1.cpl	NO
0043	CS1000-6738	ISS1:1OF1	p33495_1	09/03/2016	p33495_1.cpl	NO
0044	wi01156086	ISS1:1OF1	p33269_1	09/03/2016	p33269_1.cpl	NO
0045	wi01045144	ISS1:1OF1	p33202_1	09/03/2016	p33202_1.cpl	NO
0046	wi01120458	ISS1:1OF1	p32929_1	09/03/2016	p32929_1.cpl	NO
0047	wi01078721	ISS1:1OF1	p32553_1	09/03/2016	p32553_1.cpl	NO
0048	wi01113374	ISS1:1OF1	p32874_1	09/03/2016	p32874_1.cpl	NO
0049	wi01059388	iss1:1of1	p32628_1	09/03/2016	p32628_1.cpl	NO
0050	wi01065922	ISS1:1OF1	p32516_1	09/03/2016	p32516_1.cpl	NO

0051	wi01205975	ISS1:1OF1	p33447_1	09/03/2016	p33447_1.cpl	NO
0052	wi01142100	ISS1:1OF1	p33090_1	09/03/2016	p33090_1.cpl	NO
0053	wi01153039	ISS1:1OF1	p17588_1	09/03/2016	p17588_1.cpl	NO
0054	WI01077073	ISS1:1OF1	p32534_1	09/03/2016	p32534_1.cpl	NO
0055	wi01215810	ISS1:1OF1	p33494_1	09/03/2016	p33494_1.cpl	NO
0056	wi01066991	ISS1:1OF1	p32449_1	09/03/2016	p32449_1.cpl	NO
0057	wi01106658	ISS1:1OF1	p32812_1	09/03/2016	p32812_1.cpl	NO
0058	wi01068851	ISS1:1OF1	p32439_1	09/03/2016	p32439_1.cpl	NO
0059	wi01053314	ISS1:1OF1	p32555_1	09/03/2016	p32555_1.cpl	NO
0060	wi01123389	ISS1:1OF1	p33045_1	09/03/2016	p33045_1.cpl	NO
0061	wi01087528	ISS1:1OF1	p32700_1	09/03/2016	p32700_1.cpl	NO
0062	wi01165881	ISS1:1OF1	p33239_1	09/03/2016	p33239_1.cpl	NO
0063	wi01065125	ISS1:1OF1	p32416_1	09/03/2016	p32416_1.cpl	NO
0064	wi01119086	ISS1:1OF1	p32917_1	09/03/2016	p32917_1.cpl	NO
0065	wi01109251	ISS1:1OF1	p32827_1	09/03/2016	p32827_1.cpl	NO
0066	wi01173768	ISS1:1OF1	p33288_1	09/03/2016	p33288_1.cpl	NO
0067	wi01180594	ISS1:1OF1	p33312_1	09/03/2016	p33312_1.cpl	NO
0068	wi01126552	ISS1:1OF1	p32975_1	09/03/2016	p32975_1.cpl	NO
0069	CS1000-6979	ISS1:1OF1	p33548_1	09/03/2016	p33548_1.cpl	NO
0070	wi01204623	ISS1:1OF1	p33444_1	09/03/2016	p33444_1.cpl	NO
0071	wi01099724	ISS1:1OF1	p32742_1	09/03/2016	p32742_1.cpl	YES
0072	wi01118819	ISS1:1OF1	p32954_1	09/03/2016	p32954_1.cpl	NO
0073	wi01094305	ISS1:1OF1	p32640_1	09/03/2016	p32640_1.cpl	NO
0074	wi01188722	ISS1:1OF1	p33365_1	09/03/2016	p33365_1.cpl	NO
0075	wi01134602	ISS1:1OF1	p32398_1	09/03/2016	p32398_1.cpl	NO
0076	wi01101876	ISS1:1OF1	p32858_1	09/03/2016	p32858_1.cpl	NO
0077	wi01142792	ISS1:1OF1	p33099_1	09/03/2016	p33099_1.cpl	NO
0078	CS1000-6911	ISS1:1OF1	p33518_1	09/03/2016	p33518_1.cpl	NO
0079	CS1000-6789	ISS1:1OF1	p33508_1	09/03/2016	p33508_1.cpl	NO
0080	wi01164281	ISS1:1OF1	p33232_1	09/03/2016	p33232_1.cpl	NO
0081	wi01133985	ISS1:1OF1	p33049_1	09/03/2016	p33049_1.cpl	NO
0082	wi01149017	ISS1:1OF1	p33145_1	09/03/2016	p33145_1.cpl	NO
0083	wi01186846	ISS1:1OF1	p33332_1	09/03/2016	p33332_1.cpl	NO
0084	wi01188972	ISS1:1OF1	p33352_1	09/03/2016	p33352_1.cpl	NO
0085	wi01088915	ISS1:1OF1	p32638_1	09/03/2016	p32638_1.cpl	NO
0086	wi01107601	ISS1:1OF1	p32970_1	09/03/2016	p32970_1.cpl	NO
0087	wi01111194	ISS1:1OF1	p32821_1	09/03/2016	p32821_1.cpl	NO
0088	wi01189247	ISS1:1OF1	p33382_1	09/03/2016	p33382_1.cpl	YES
0089	wi01099606	iss1:1of1	p32713_1	09/03/2016	p32713_1.cpl	NO
0090	wi01088775	ISS1:1OF1	p32659_1	09/03/2016	p32659_1.cpl	NO
0091	wi01148697	ISS1:1OF1	p33187_1	09/03/2016	p33187_1.cpl	NO
0092	wi01130348	ISS1:1OF1	p33014_1	09/03/2016	p33014_1.cpl	NO
0093	CS1000-6844	ISS1:1OF1	p33507_1	09/03/2016	p33507_1.cpl	NO
0094	wi01134756	ISS1:1OF1	p33453_1	09/03/2016	p33453_1.cpl	NO
0095	wi01184588	ISS1:1OF1	p33338_1	09/03/2016	p33338_1.cpl	NO
0096	wi01147091	ISS1:1OF1	p33137_1	09/03/2016	p33137_1.cpl	NO
0097	CS1000-6745	ISS1:1OF1	p33492_1	09/03/2016	p33492_1.cpl	YES
0098	wi01087543	ISS1:1OF1	p32662_1	09/03/2016	p32662_1.cpl	NO
0099	wi01166011	ISS1:1OF1	p33235_1	09/03/2016	p33235_1.cpl	NO
0100	wi01035976	ISS1:1OF1	p32173_1	09/03/2016	p32173_1.cpl	NO
0101	wi01146804	ISS1:1OF1	p33132_1	09/03/2016	p33132_1.cpl	NO
0102	wi01153104	ISS1:1OF1	p33174_1	09/03/2016	p33174_1.cpl	NO
0103	wi01092443	ISS1:1OF1	p32676_1	09/03/2016	p32676_1.cpl	NO
0104	wi01136429	ISS1:1OF1	p33037_1	09/03/2016	p33037_1.cpl	NO
0105	wi01113712	ISS1:1OF1	p32877_1	09/03/2016	p32877_1.cpl	NO
0106	wi01150846	ISS1:1OF1	p33157_1	09/03/2016	p33157_1.cpl	NO
0107	CS1000-6956	ISS1:1OF1	p33538_1	09/03/2016	p33538_1.cpl	NO
0108	wi01153844	ISS1:1OF1	p33172_1	09/03/2016	p33172_1.cpl	NO
0109	wi01093071	ISS1:1OF1	p32701_1	09/03/2016	p32701_1.cpl	NO
0110	wi01182050	ISS1:1OF1	p33322_1	09/03/2016	p33322_1.cpl	NO
0111	wi01190506	ISS1:1OF1	p33361_1	09/03/2016	p33361_1.cpl	NO

0112	wi01118714	ISS2:1OF1	p32952_2	09/03/2016	p32952_2.cpl	NO
0113	wi01075538	ISS1:1OF1	p32469_1	09/03/2016	p32469_1.cpl	NO
0114	wi01091447	ISS1:1OF1	p32675_1	09/03/2016	p32675_1.cpl	NO
0115	wi01159931	ISS1:1OF1	p33231_1	09/03/2016	p33231_1.cpl	YES
0116	WI01108562	ISS1:1OF1	p32832_1	09/03/2016	p32832_1.cpl	NO
0117	wi01099810	ISS1:1OF1	p32796_1	09/03/2016	p32796_1.cpl	NO
0118	wi01200095	ISS1:1OF1	p33418_1	09/03/2016	p33418_1.cpl	NO
0119	wi01128596	ISS1:1OF1	p33000_1	09/03/2016	p33000_1.cpl	NO
0120	wi01185642	ISS1:1OF1	p33342_1	09/03/2016	p33342_1.cpl	NO
0121	wi01193201	ISS1:1OF1	p33381_1	09/03/2016	p33381_1.cpl	YES
0122	cs1000-6998	ISS1:1OF1	p33555_1	09/03/2016	p33555_1.cpl	NO
0123	CS1000-6791	ISS1:1OF1	p33501_1	09/03/2016	p33501_1.cpl	YES
0124	wi01191767	ISS1:1OF1	p33368_1	09/03/2016	p33368_1.cpl	NO
0125	wi01144354	ISS1:1OF1	p33117_1	09/03/2016	p33117_1.cpl	NO
0126	wi01121374	ISS1:1OF1	p31107_1	09/03/2016	p31107_1.cpl	NO
0127	wi01185751	ISS1:1OF1	p33409_1	09/03/2016	p33409_1.cpl	YES
0128	WI01169289	ISS1:1OF1	p33257_1	09/03/2016	p33257_1.cpl	NO
0129	wi01100508	ISS1:1OF1	p32761_1	09/03/2016	p32761_1.cpl	NO
0130	wi01189516	ISS1:1OF1	p33373_1	09/03/2016	p33373_1.cpl	NO
0131	wi01101969	ISS1:1OF1	p32726_1	09/03/2016	p32726_1.cpl	NO
0132	wi01102296	ISS1:1OF1	p32780_1	09/03/2016	p32780_1.cpl	NO
0133	wi01136640	ISS1:1OF1	p33052_1	09/03/2016	p33052_1.cpl	NO
0134	wi01097598	ISS1:1OF1	p32797_1	09/03/2016	p32797_1.cpl	NO
0135	wi01132215	ISS1:1OF1	p33084_1	09/03/2016	p33084_1.cpl	NO
0136	wi01094832	iss1:1of1	p32718_1	09/03/2016	p32718_1.cpl	NO
0137	wi01197246	ISS1:1OF1	p33400_1	09/03/2016	p33400_1.cpl	NO
0138	CS1000-6872	ISS1:1OF1	p33520_1	09/03/2016	p33520_1.cpl	NO
0139	wi01147983	ISS1:1OF1	p33141_1	09/03/2016	p33141_1.cpl	NO
0140	wi01060826	ISS1:1OF1	p32379_1	09/03/2016	p32379_1.cpl	NO
0141	wi01077639	ISS1:1OF1	p32883_1	09/03/2016	p32883_1.cpl	NO
0142	wi01085855	ISS1:1OF1	p32658_1	09/03/2016	p32658_1.cpl	NO
0143	wi01053195	ISS1:1OF1	p32297_1	09/03/2016	p32297_1.cpl	NO
0144	wi01174116	ISS1:1OF1	p33287_1	09/03/2016	p33287_1.cpl	NO
0145	wi01095255	ISS1:1OF1	p33027_1	09/03/2016	p33027_1.cpl	NO
0146	wi01203516	ISS1:1OF1	p33438_1	09/03/2016	p33438_1.cpl	NO
0147	wi01094727	ISS1:1OF1	p32848_1	09/03/2016	p32848_1.cpl	NO
0148	wi01151898	ISS1:1OF1	p33175_1	09/03/2016	p33175_1.cpl	NO
0149	wi01173798	ISS1:1OF1	p33285_1	09/03/2016	p33285_1.cpl	NO
0150	wi01080753	ISS1:1OF1	p32518_1	09/03/2016	p32518_1.cpl	NO
0151	wi01125238	ISS1:1OF1	p32971_1	09/03/2016	p32971_1.cpl	NO
0152	wi01110593	ISS1:1OF1	p32849_1	09/03/2016	p32849_1.cpl	NO
0153	wi01119100	ISS1:1OF1	p32925_1	09/03/2016	p32925_1.cpl	NO
0154	CS1000-6978	ISS1:1OF1	p33551_1	09/03/2016	p33551_1.cpl	YES
0155	wi01156999	ISS1:1OF1	p33180_1	09/03/2016	p33180_1.cpl	NO
0156	wi01141625	ISS1:1OF1	p33324_1	09/03/2016	p33324_1.cpl	NO
0157	wi01102093	ISS1:1OF1	p32760_1	09/03/2016	p32760_1.cpl	NO
0158	wi01132883	ISS1:1OF1	p33030_1	09/03/2016	p33030_1.cpl	NO
0159	wi01070279	ISS1:1OF1	p32262_1	09/03/2016	p32262_1.cpl	NO
0160	wi01102475	ISS1:1OF1	p32782_1	09/03/2016	p32782_1.cpl	YES
0161	cs1000-6924	ISS1:1OF1	p33523_1	09/03/2016	p33523_1.cpl	NO
0162	wi01181423	ISS1:1OF1	p33318_1	09/03/2016	p33318_1.cpl	NO
0163	wi01150083	ISS1:1OF1	p33152_1	09/03/2016	p33152_1.cpl	NO
0164	wi01181854	ISS1:1OF1	p33323_1	09/03/2016	p33323_1.cpl	NO
0165	wi00897254	ISS1:1OF1	p31127_1	09/03/2016	p31127_1.cpl	NO
0166	wi01083036	ISS1:1OF1	p32571_1	09/03/2016	p32571_1.cpl	NO
0167	wi01070468	iss1:1of1	p32418_1	09/03/2016	p32418_1.cpl	NO
0168	wi01181197	ISS1:1OF1	p33317_1	09/03/2016	p33317_1.cpl	NO
0169	wi01063864	ISS1:1OF1	p32410_1	09/03/2016	p32410_1.cpl	YES
0170	wi01075355	ISS1:1OF1	p32594_1	09/03/2016	p32594_1.cpl	NO
0171	wi01127447	ISS1:1OF1	p32990_1	09/03/2016	p32990_1.cpl	NO
0172	wi01133106	ISS1:1OF1	p33032_1	09/03/2016	p33032_1.cpl	NO

0173	wi01212017	ISS1:1OF1	p33482_1	09/03/2016	p33482_1.cpl	YES
0174	wi01099292	ISS1:1OF1	p32886_1	09/03/2016	p32886_1.cpl	NO
0175	wi01167427	ISS1:1OF1	p33264_1	09/03/2016	p33264_1.cpl	NO
0176	wi01075540	ISS1:1OF1	p32492_1	09/03/2016	p32492_1.cpl	NO
0177	wi01072027	ISS1:1OF1	p32689_1	09/03/2016	p32689_1.cpl	NO
0178	wi01114038	ISS1:1OF1	p32869_1	09/03/2016	p32869_1.cpl	NO
0179	CS1000-6933	ISS1:1OF1	p33529_1	09/03/2016	p33529_1.cpl	NO
0180	wi01212527	ISS1:1OF1	p33481_1	09/03/2016	p33481_1.cpl	YES
0181	wi01181578	ISS1:1OF1	p33321_1	09/03/2016	p33321_1.cpl	NO
0182	wi01092300	ISS1:1OF1	p32692_1	09/03/2016	p32692_1.cpl	NO
0183	wi01063263	ISS1:1OF1	p32573_1	09/03/2016	p32573_1.cpl	NO
0184	wi01102091	ISS1:1OF1	p32744_1	09/03/2016	p32744_1.cpl	YES
0185	wi01104473	ISS1:1OF1	p32818_1	09/03/2016	p32818_1.cpl	NO
0186	wi01053950	ISS1:1OF1	p32654_1	09/03/2016	p32654_1.cpl	YES
0187	wi01139981	ISS1:1OF1	p33083_1	09/03/2016	p33083_1.cpl	NO
0188	wi01058378	ISS1:1OF1	p32344_1	09/03/2016	p32344_1.cpl	NO
0189	wi01070580	ISS1:1OF1	p32380_1	09/03/2016	p32380_1.cpl	NO
0190	wi01187059	ISS1:1OF1	p33346_1	09/03/2016	p33346_1.cpl	NO
0191	wi01043367	ISS1:1OF1	p32232_1	09/03/2016	p32232_1.cpl	NO
0192	wi01145002	ISS1:1OF1	p33186_1	09/03/2016	p33186_1.cpl	NO
0193	wi01175294	ISS1:1OF1	p33290_1	09/03/2016	p33290_1.cpl	NO
0194	wi01041453	ISS1:1OF1	p32587_1	09/03/2016	p32587_1.cpl	NO
0195	wi01185441	ISS1:1OF1	p33341_1	09/03/2016	p33341_1.cpl	NO
0196	wi01130815	ISS1:1OF1	p33017_1	09/03/2016	p33017_1.cpl	NO
0197	wi01214452	ISS1:1OF1	p33488_1	09/03/2016	p33488_1.cpl	NO
0198	wi01089807	ISS1:1OF1	p32957_1	09/03/2016	p32957_1.cpl	NO
0199	CS1000-6873	ISS1:1OF1	p33524_1	09/03/2016	p33524_1.cpl	NO
0200	wi01149384	ISS1:1OF1	p33147_1	09/03/2016	p33147_1.cpl	NO
0201	WI01121737	ISS1:1OF1	p32939_1	09/03/2016	p32939_1.cpl	NO
0202	CS1000-6794	ISS1:1OF1	p33539_1	09/03/2016	p33539_1.cpl	NO
0203	wi01208580	ISS1:1OF1	p33461_1	09/03/2016	p33461_1.cpl	NO
0204	wi01083896	ISS1:1OF1	p32937_1	09/03/2016	p32937_1.cpl	NO
0205	wi01210497	ISS1:1OF1	p33468_1	09/03/2016	p33468_1.cpl	YES
0206	wi01178476	ISS1:1OF1	p33305_1	09/03/2016	p33305_1.cpl	NO
0207	wi01039280	ISS1:1OF1	p32423_1	09/03/2016	p32423_1.cpl	NO
0208	wi01081510	ISS1:1OF1	p32582_1	09/03/2016	p32582_1.cpl	NO
0209	wi01088797	ISS1:1OF1	p32844_1	09/03/2016	p32844_1.cpl	NO
0210	wi01098905	ISS1:1OF1	p32556_1	09/03/2016	p32556_1.cpl	NO
0211	wi01146766	ISS1:1OF1	p33131_1	09/03/2016	p33131_1.cpl	NO
0212	wi00937672	ISS1:1OF1	p31276_1	09/03/2016	p31276_1.cpl	NO
0213	wi01170583	ISS1:1OF1	p33261_1	09/03/2016	p33261_1.cpl	NO
0214	wi01057403	ISS1:1OF1	p32591_1	09/03/2016	p32591_1.cpl	NO
0215	wi01132204	ISS1:1OF1	p32501_1	09/03/2016	p32501_1.cpl	NO
0216	wi01112655	ISS1:1OF1	p32870_1	09/03/2016	p32870_1.cpl	NO
0217	wi01195807	ISS1:1OF1	p33470_1	09/03/2016	p33470_1.cpl	NO
0218	wi01201045	ISS1:1OF1	p33424_1	09/03/2016	p33424_1.cpl	YES
0219	wi01058621	ISS1:1OF1	p32339_1	09/03/2016	p32339_1.cpl	NO
0220	wi01185138	ISS1:1OF1	p33411_1	09/03/2016	p33411_1.cpl	NO
0221	wi01025156	ISS1:1OF1	p32136_1	09/03/2016	p32136_1.cpl	NO
0222	wi01127138	ISS1:1OF1	p33304_1	09/03/2016	p33304_1.cpl	NO
0223	wi01070756	ISS1:1OF1	p32444_1	09/03/2016	p32444_1.cpl	NO
0224	wi01132599	ISS1:1OF1	p33025_1	09/03/2016	p33025_1.cpl	NO
0225	wi01056633	ISS1:1OF1	p32322_1	09/03/2016	p32322_1.cpl	NO
0226	wi01060241	ISS1:1OF1	p32381_1	09/03/2016	p32381_1.cpl	NO
0227	wi01134952	ISS1:1OF1	p33039_1	09/03/2016	p33039_1.cpl	NO
0228	wi01132902	ISS1:1OF1	p33028_1	09/03/2016	p33028_1.cpl	NO
0229	wi01201986	ISS1:1OF1	p33433_1	09/03/2016	p33433_1.cpl	NO
0230	wi01071379	ISS1:1OF1	p32522_1	09/03/2016	p32522_1.cpl	NO
0231	cs1000-6845	ISS1:1OF1	p33509_1	09/03/2016	p33509_1.cpl	NO
0232	wi01069441	ISS1:1OF1	p32097_1	09/03/2016	p32097_1.cpl	NO
0233	WI11032038	ISS1:1OF1	p33022_1	09/03/2016	p33022_1.cpl	NO

0234	wi01089355	ISS1:1OF1	p32674_1	09/03/2016	p32674_1.cpl	YES
0235	wi01134354	ISS1:1OF1	p33031_1	09/03/2016	p33031_1.cpl	NO
0236	CS1000-6946	ISS1:1OF1	p33543_1	09/03/2016	p33543_1.cpl	NO
0237	wi01096910	ISS1:1OF1	p32734_1	09/03/2016	p32734_1.cpl	NO
0238	wi01076948	ISS1:1OF1	p32526_1	09/03/2016	p32526_1.cpl	YES
0239	wi01093118	ISS1:1OF1	p32496_1	09/03/2016	p32496_1.cpl	NO
0240	wi01202917	ISS1:1OF1	p33434_1	09/03/2016	p33434_1.cpl	NO
0241	wi01198794	ISS1:1OF1	p33408_1	09/03/2016	p33408_1.cpl	NO
0242	wi01160967	ISS1:1OF1	p33213_1	09/03/2016	p33213_1.cpl	NO
0243	wi01104867	ISS1:1OF1	p32828_1	09/03/2016	p32828_1.cpl	NO
0244	wi01154485	ISS1:1OF1	p33194_1	09/03/2016	p33194_1.cpl	NO
0245	wi01146705	ISS1:1OF1	p33129_1	09/03/2016	p33129_1.cpl	NO
0246	wi01096712	ISS1:1OF1	p32708_1	09/03/2016	p32708_1.cpl	NO
0247	wi01061481	ISS1:1OF1	p32382_1	09/03/2016	p32382_1.cpl	NO
0248	wi01070465	iss1:1of1	p32562_1	09/03/2016	p32562_1.cpl	NO
0249	wi01201395	ISS1:1OF1	p33426_1	09/03/2016	p33426_1.cpl	NO
0250	wi01187443	ISS1:1OF1	p33359_1	09/03/2016	p33359_1.cpl	NO
0251	wi01034307	ISS1:1OF1	p32615_1	09/03/2016	p32615_1.cpl	NO
0252	CS1000-6964	ISS1:1OF1	p33541_1	09/03/2016	p33541_1.cpl	NO
0253	wi01135146	ISS1:1OF1	p33033_1	09/03/2016	p33033_1.cpl	NO
0254	CS1000-6852	ISS1:1OF1	p33517_1	09/03/2016	p33517_1.cpl	NO
0255	wi01195975	ISS1:1OF1	p33394_1	09/03/2016	p33394_1.cpl	NO
0256	wi01108262	ISS1:1OF1	p32865_1	09/03/2016	p32865_1.cpl	YES
0257	wi01104627	ISS1:1OF1	p32819_1	09/03/2016	p32819_1.cpl	NO
0258	wi01204274	ISS1:1OF1	p33451_1	09/03/2016	p33451_1.cpl	NO
0259	wi01115894	ISS1:1OF1	p32910_1	09/03/2016	p32910_1.cpl	NO
0260	wi01129028	ISS1:1OF1	p33016_1	09/03/2016	p33016_1.cpl	NO
0261	wi01096967	ISS1:1OF1	p32735_1	09/03/2016	p32735_1.cpl	NO
0262	wi01177690	ISS1:1OF1	p33320_1	09/03/2016	p33320_1.cpl	YES
0263	wi01060611	ISS1:1OF1	p32809_1	09/03/2016	p32809_1.cpl	NO
0264	wi01163826	ISS1:1OF1	p33229_1	09/03/2016	p33229_1.cpl	NO
0265	wi01182523	ISS1:1OF1	p33327_1	09/03/2016	p33327_1.cpl	NO
0266	CS1000-6732	ISS1:1OF1	p33506_1	09/03/2016	p33506_1.cpl	YES
0267	wi01090535	ISS1:1OF1	p32519_1	09/03/2016	p32519_1.cpl	NO
0268	wi01124074	ISS1:1OF1	p32989_1	09/03/2016	p32989_1.cpl	NO
0269	wi01034961	ISS1:1OF1	p32144_1	09/03/2016	p32144_1.cpl	NO
0270	wi01127874	ISS1:1OF1	p25747_1	09/03/2016	p25747_1.cpl	NO
0271	wi01062607	ISS1:1OF1	p32503_1	09/03/2016	p32503_1.cpl	NO
0272	CS1000-6910	ISS1:1OF1	p33528_1	09/03/2016	p33528_1.cpl	NO
0273	wi01060382	iss1:1of1	p32623_1	09/03/2016	p32623_1.cpl	YES
0274	wi01215563	ISS1:1OF1	p33412_1	09/03/2016	p33412_1.cpl	NO
0275	wi01181456	ISS1:1OF1	p33319_1	09/03/2016	p33319_1.cpl	NO
0276	wi01075359	ISS1:1OF1	p32671_1	09/03/2016	p32671_1.cpl	NO
0277	wi01120406	ISS1:1OF1	p32956_1	09/03/2016	p32956_1.cpl	NO
0278	wi01095462	ISS1:1OF1	p32723_1	09/03/2016	p32723_1.cpl	NO
0279	wi01213334	ISS1:1OF1	p33485_1	09/03/2016	p33485_1.cpl	NO
0280	wi01070473	ISS1:1OF1	p32413_1	09/03/2016	p32413_1.cpl	NO
0281	wi01114695	ISS1:1OF1	p32885_1	09/03/2016	p32885_1.cpl	NO
0282	wi01129098	ISS1:1OF1	p32951_1	09/03/2016	p32951_1.cpl	NO
0283	wi01134799	ISS1:1OF1	p33069_1	09/03/2016	p33069_1.cpl	NO
0284	wi01163048	ISS1:1OF1	p33223_1	09/03/2016	p33223_1.cpl	YES
0285	wi01096718	ISS1:1OF1	p33138_1	09/03/2016	p33138_1.cpl	YES
0286	wi01119312	ISS1:1OF1	p32919_1	09/03/2016	p32919_1.cpl	NO
0287	wi01166065	ISS1:1OF1	p33241_1	09/03/2016	p33241_1.cpl	NO
0288	wi01130836	ISS1:1OF1	p33008_1	09/03/2016	p33008_1.cpl	YES
0289	wi01109345	ISS1:1OF1	p32830_1	09/03/2016	p32830_1.cpl	NO
0290	wi01104410	ISS1:1OF1	p32801_1	09/03/2016	p32801_1.cpl	NO
0291	wi01183783	ISS1:1OF1	p33333_1	09/03/2016	p33333_1.cpl	NO
0292	wi01064599	iss1:1of1	p32580_1	09/03/2016	p32580_1.cpl	NO
0293	wi01124477	ISS1:1OF1	p32963_1	09/03/2016	p32963_1.cpl	NO
0294	wi01072062	ISS1:1OF1	p32776_1	09/03/2016	p32776_1.cpl	NO

0295	wi01118320	ISS1:1OF1	p32753_1	09/03/2016	p32753_1.cpl	NO
0296	wi01126454	ISS1:1OF1	p32973_1	09/03/2016	p32973_1.cpl	NO
0297	wi01154253	ISS1:1OF1	p33206_1	09/03/2016	p33206_1.cpl	NO
0298	wi01146543	ISS1:1OF1	p33097_1	09/03/2016	p33097_1.cpl	NO
0299	wi01021522	ISS1:1OF1	p32863_1	09/03/2016	p32863_1.cpl	NO
0300	CS1000-6786	ISS1:1OF1	p33497_1	09/03/2016	p33497_1.cpl	NO
0301	wi01108828	ISS1:1OF1	p32831_1	09/03/2016	p32831_1.cpl	NO
0302	wi01150771	ISS1:1OF1	p33210_1	09/03/2016	p33210_1.cpl	NO
0303	wi01022598	ISS1:1OF1	p32066_1	09/03/2016	p32066_1.cpl	NO
0304	wi01146289	ISS1:1OF1	p33146_1	09/03/2016	p33146_1.cpl	NO
0305	wi01184272	ISS1:1OF1	p33336_1	09/03/2016	p33336_1.cpl	NO
0306	CS1000-6752	ISS1:1OF1	p33540_1	09/03/2016	p33540_1.cpl	NO
0307	wi01082456	ISS1:1OF1	p32596_1	09/03/2016	p32596_1.cpl	NO
0308	wi01177614	ISS1:1OF1	p33303_1	09/03/2016	p33303_1.cpl	NO
0309	wi01163521	ISS1:1OF1	p33226_1	09/03/2016	p33226_1.cpl	NO
0310	wi01071296	ISS1:1OF1	p32836_1	09/03/2016	p32836_1.cpl	NO
0311	wi01118928	ISS1:1OF1	p32922_1	09/03/2016	p32922_1.cpl	NO
0312	wi01068669	ISS1:1OF1	p32333_1	09/03/2016	p32333_1.cpl	NO
0313	wi01137003	ISS1:1OF1	p33053_1	09/03/2016	p33053_1.cpl	NO
0314	wi01165870	ISS1:1OF1	p33238_1	09/03/2016	p33238_1.cpl	NO
0315	wi01136194	ISS1:1OF1	p33051_1	09/03/2016	p33051_1.cpl	NO
0316	wi01068751	ISS1:1OF1	p32445_1	09/03/2016	p32445_1.cpl	NO
0317	wi01075353	ISS1:1OF1	p32613_1	09/03/2016	p32613_1.cpl	NO
0318	wi01208515	ISS1:1OF1	p33455_1	09/03/2016	p33455_1.cpl	NO
0319	wi01165461	ISS1:1OF1	p33237_1	09/03/2016	p33237_1.cpl	NO
0320	wi01132222	ISS1:1OF1	p33023_1	09/03/2016	p33023_1.cpl	NO
0321	WI0110261	ISS1:1OF1	p32758_1	09/03/2016	p32758_1.cpl	NO
MDP>LAST SUCCESSFUL MDP REFRESH :2016-03-06 17:34:06(Local Time)						
MDP>USING DEPLIST ZIP FILE DOWNLOADED :2016-03-02 11:03:12(est						

D-Channel for SIP Trunks

```
> ld 22
REQ prt
TYPE adan dch 101

ADAN      DCH 101
  CTYP DCIP
  DES XO
  USR ISLD
  ISLM 4000
  SSRC 3700
  OTBF 32
  NASA YES
  IFC SL1
  CNEG 1
  RLS ID 25
  RCAP ND2 MWI
  MBGA NO
  H323
    OVLR NO
    OVLS NO
```

Route Data Block for SIP calls

```
>ld 21
REQ: prt
TYPE: rdb
CUST 1
ROUT 101

TYPE RDB
CUST 01
ROUT 101
DES SIPTRK
TKTP TIE
M911P NO
ESN NO
RPA NO
CNVT NO
SAT NO
RCLS EXT
VTRK YES
ZONE 00255
PCID SIP
CRID NO
SBWM NO
NODE 2001
DTRK NO
ISDN YES
  MODE ISLD
  DCH 101
  IFC SL1
  PNI 00101
  NCNA YES
  NCRD YES
  TRO NO
  FALT NO
  CTYP UKWN
```


INAC YES
ISAR NO
DAPC NO
MBXR NO
MBXOT NPA
MBXT 0
PTYP ATT
CNDP UKWN
AUTO NO
DNIS NO
DCDR NO
ICOG IAO
SRCH LIN
TRMB YES
STEP
ACOD 8101
TCPP NO
PII NO
AUXP NO
TARG 01
CLEN 10
BILN NO
OABS
INST
IDC YES
DCNO 0
NDNO 0 *
DEXT NO
DNAM NO
ANTK
SIGO STD
STYP SDAT
MFC NO
ICIS YES
OGIS YES

PAGE 002

PTUT 0
TIMR ICF 512
OGF 512
EOD 13952
DSI 34944
NRD 10112
DDL 70
ODT 4096
RGV 640
GTO 896
GTI 896
SFB 3
NBS 2048
NBL 4096

IENB 5
TFD 0
VSS 0
VGD 6
EESD 1024
SST 5 0
DTD NO

SCDT NO
2 DT NO
NEDC ORG
FEDC ORG
CPDC NO
DLTN NO
HOLD 02 02 40
SEIZ 02 02
SVFL 02 02
DRNG NO
CDR NO
NATL YES
SSL
CFWR NO
IDOP NO
VRAT NO
MUS YES
MRT 51
PANS YES
MANO NO
FRL 0 0
FRL 1 0
FRL 2 0
FRL 3 0
FRL 4 0
FRL 5 0
FRL 6 0
FRL 7 0
OHQ NO
OHQT 00
CBQ NO
AUTH NO
TDET NO
TTBL 0
ATAN NO
OHTD NO
PLEV 2
OPR NO
ALRM NO
ART 0
PAGE 003
PECL NO
DCTI 0
TIDY 8101 101
ATRR NO
TRRL NO
SGRP 0
CCBA NO
ARDN NO
CTBL 0
AACR NO

Trunk channels for SIP Route

```
>ld 20
REQ: prt
TYPE: tn
TYPE TNB
TN 100 0 1 0
DES IP_Trk
TN 100 0 01 00 VIRTUAL
TYPE IPTI
CDEN 8D
CUST 1
XTRK VTRK
ZONE 00255
LDOP BOP
TIMP 600
BIMP 600
AUTO_BIMP NO
NMUS NO
TRK ANLG
NCOS 0
RTMB 101 1
CHID 1
TGAR 1
STRI/STRO IMM IMM
SUPN YES
AST NO
IAPG 0
CLS UNR DTN CND ECD WTA LPR APN THFD XREP SPCD MSNV
P10 NTC MID
TKID
AACR NO
DATE NO DATE
```

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