



Avaya Solution & Interoperability Test Lab

Application Notes for Etrali Trading Solutions Open Trade with Avaya Communication Server 1000 and Avaya Aura® Session Manager - Issue 1.0

Abstract

These Application Notes describe the configuration steps necessary for provisioning Etrali Trading Solutions Open Trade to successfully interoperate with Avaya Communication Server 1000 Release 7.6 and Avaya Aura® Session Manager R6.3.

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 Etrali Trading Solutions to successfully interoperate with Avaya Communication Server 1000 Release 7.6 (CS 1000) and Avaya Aura® Session Manager Release 6.3. Etrali Trading Solutions 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.

2.1. Interoperability Compliance Testing

During interoperability compliance testing the following types 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 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. As Open Trade do not support SIP UPDATE, the CS 1000 default configuration will not allow a blind transfer to be executed if the parties involved do not support the SIP UPDATE method. With the installation of plugin 501 on the CS 1000, the blind transfer will be allowed and the call will be completed. The limitation of this plugin is that no ring back is provided to the originator of the call for the duration that the destination set is ringing. The use of plugin 501 does not restrict the use of the SIP UPDATE method of blind transfer to other parties that do happen to support the UPDATE method, but rather extend support to those parties that do not.
3. 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 5.3** and applied in the Open Trade SIP entity in the Section **5.4.3**.

2.3. Support

For more information on Etrali Trading Solutions Open Trade and product support visit:

- Website: <http://www.etrali.com/>
- Telephone: 0033 (0) 155829348

2.4. Reference Configuration

Figure 1 illustrates the setup used to verify the Open Trade solution with Avaya Aura® Session Manager and Avaya Communication Server 1000. Open Trade is deployed on a dedicated server running Windows 2008 R2 Enterprise server. Session Manager interfaces to Communication Server 1000 using a SIP trunk, and Open Trade interfaces to Session Manager via SIP. To access the Open Trade application, a call is simply routed from Communication Server 1000 to the Open Trade server through Session Manager. Multiple SIP channels were configured on the Open Trade server. Avaya Aura® System Manager was used to configure Session Manager.

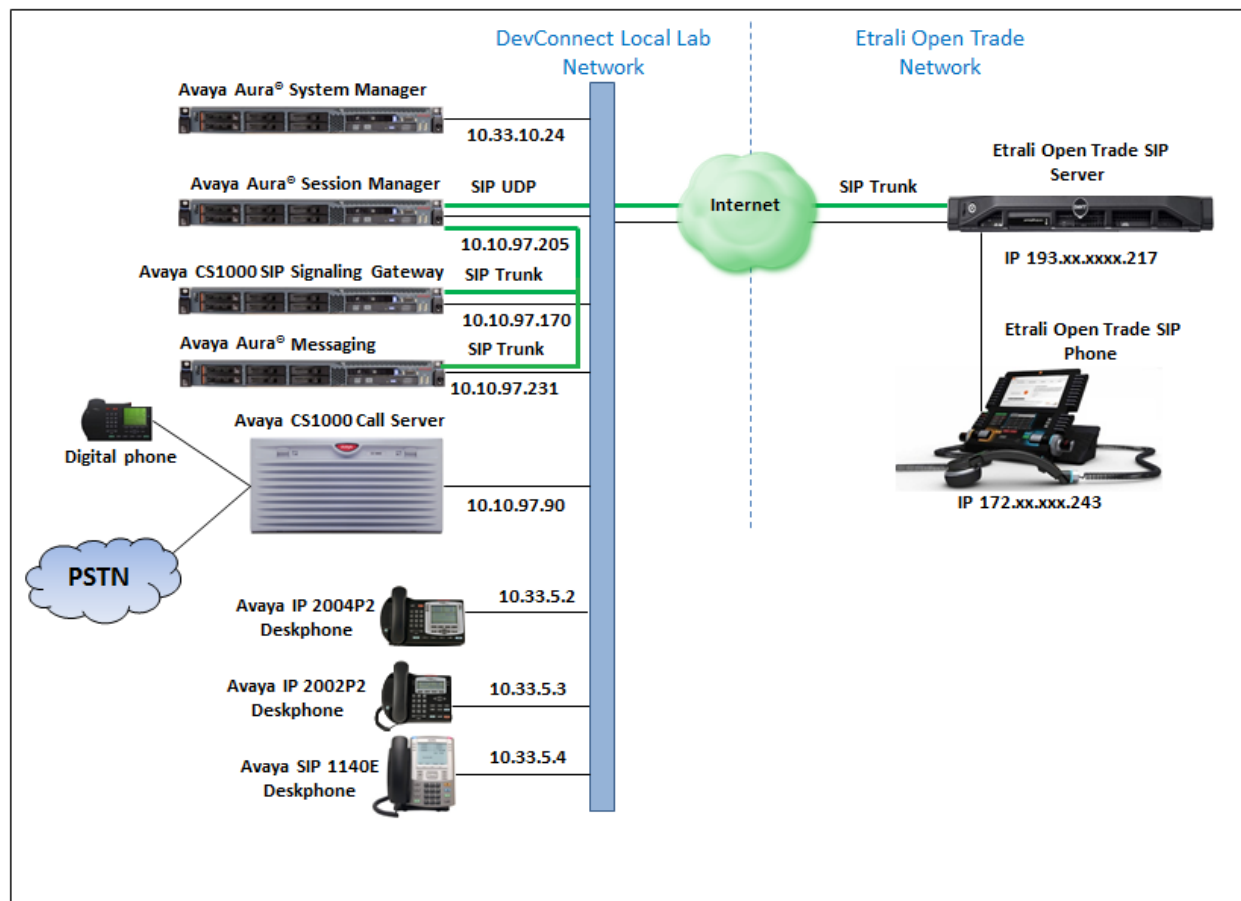


Figure 1: Reference Configuration Diagram

3. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® Session Manager running on S8800 Server	6.3.10 Build No. 6.3.0.0.630002-6.3.7.637004
Avaya Aura® System Manager running on S8800 Server	6.3.10 Build No. 6.3.0.8.5682 - 6.3.8.4514 Software Update Revision: 6.3.10.7.2656
Avaya Communication Server 1000 running on CPPM card	R7.6 Service Pack 5 DepList1 Created 2014-06-24)
Avaya Aura® Messaging running on S8800 Server	6.3.1
Avaya Media Gateway Controller CSP Version Boot Version	MGCC DC03+ MGCB BA18
Avaya 2004P IP Phone	0604DC0
Avaya SIP 1140 IP Phone	4.3
Avaya Digital 3904	N/A
Etrali Open Trade System	4.3.0.5.13
Etrali Open Trade Admin	4.0.11.0

4. Configure Avaya Communication Server 1000

The document assumes that route, trunk and dialing plan of the Avaya CS 1000 have been configured. This section only describes the details on how to configure the Avaya CS 1000 Signaling gateway to connect to the Session Manager via SIP trunk using the Element Manager.

Prerequisites: An Avaya CS1000 server which has been:

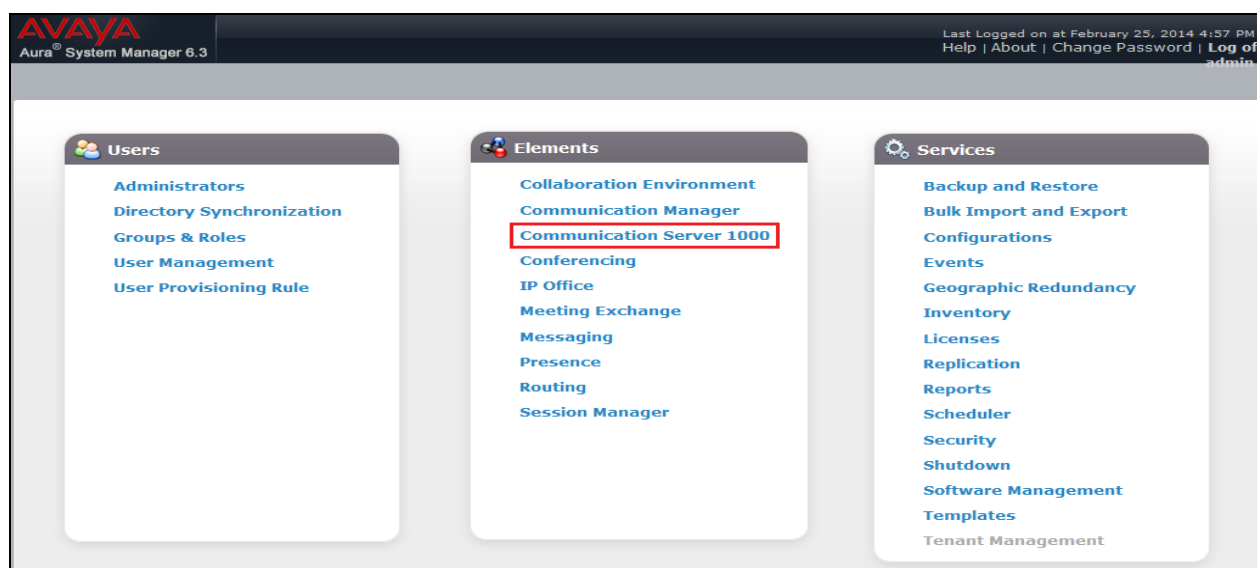
- Installed with CS 1000 Release 7.6 Linux Base.
- Joined CS 1000 Release 7.6 Security Domain.
- Deployed with SIP Trunk Application.

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>.

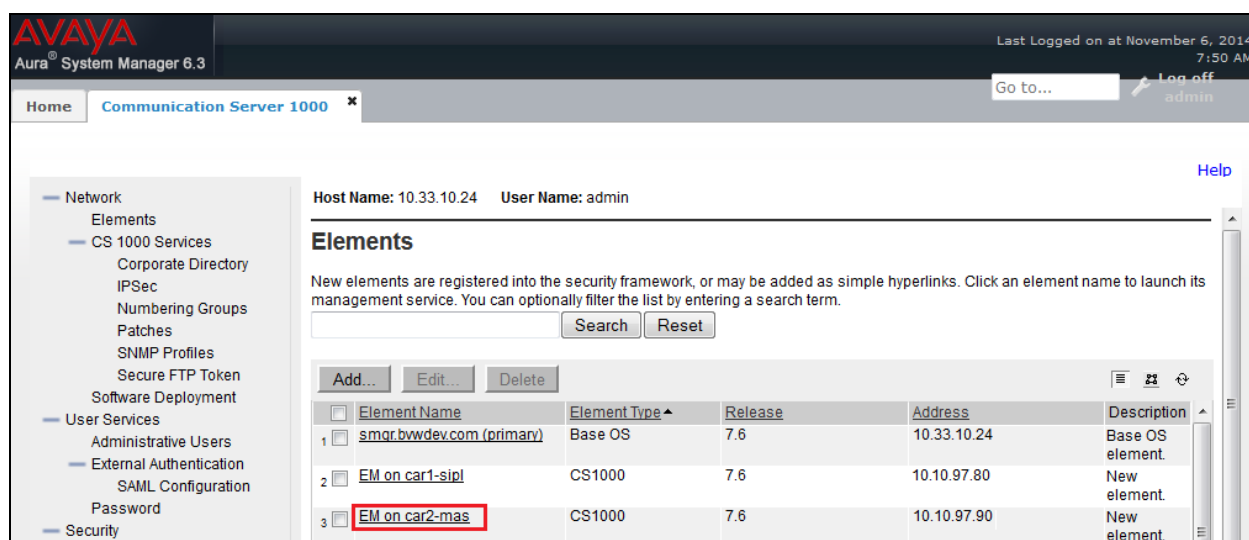
Package Mnemonic	Package Number	Package Description	Package Type (New or Existing or Dependency)	Applicable Market
SIP	406	SIP Service package	New package	Global
FFC	139	Flexible Feature Codes	Existing package	Global

SIPL_ Nortel	415	Avaya SIP Line	Existing package	-
SIPL_3ThirdParty	416	Third Party SIP Line	Existing package	-

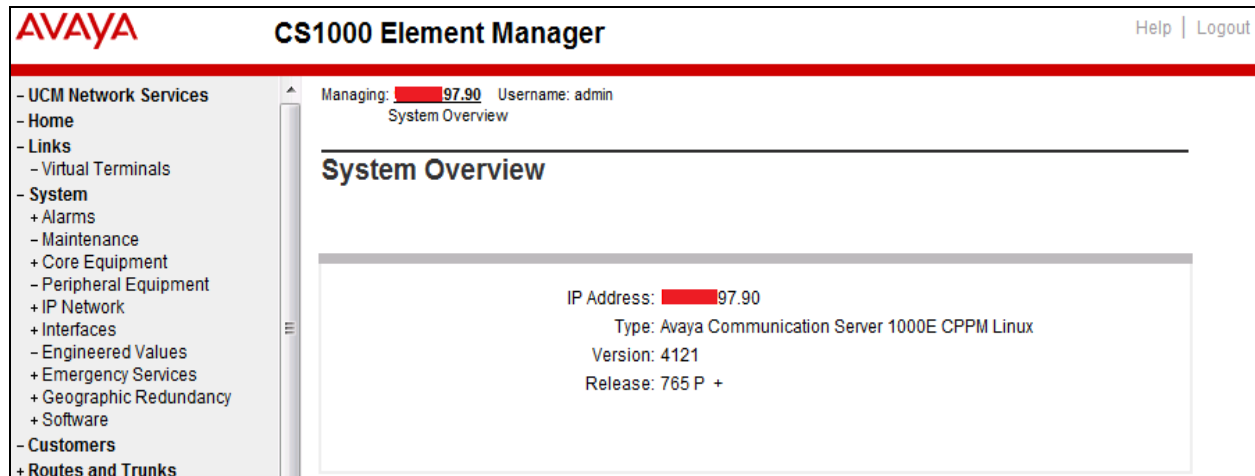
Since release 7.6 Avaya CS 1000 Elements is integrated to System Manager, to access the Element Manager of CS 1000 first log in the System Manager. The screen below shows the System Manager home page with **Communication Server 1000** entry in the Elements table. Click on the **Communication Server 1000** to access to CS 1000 Elements, the Elements webpage will be opened in the new window.



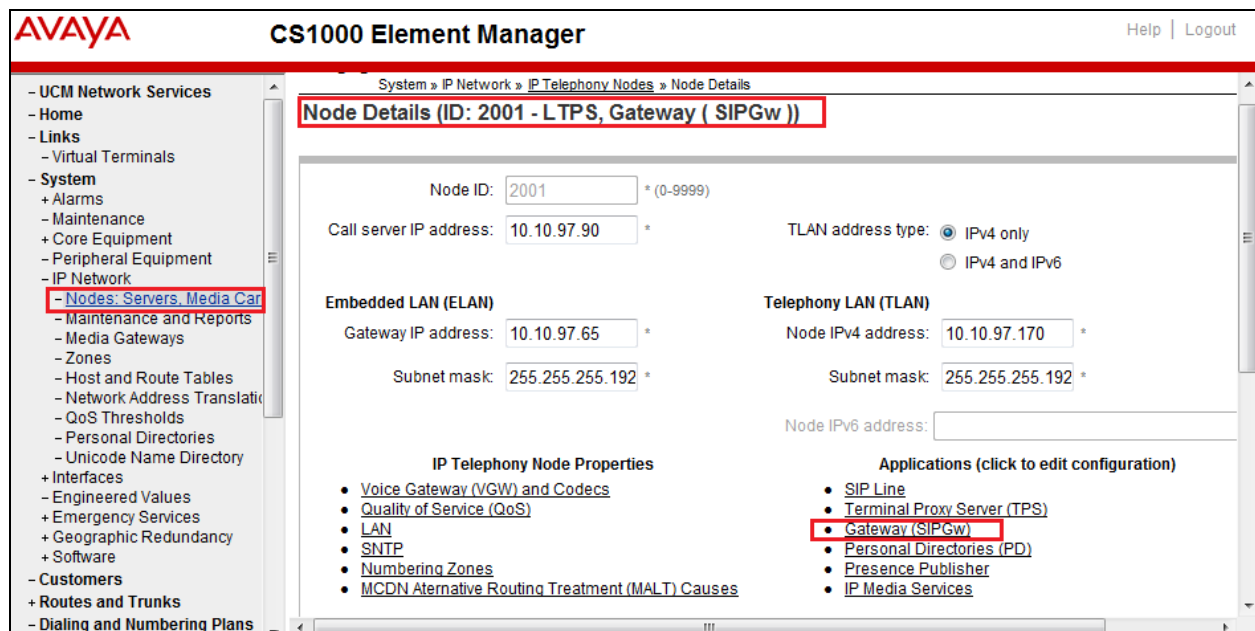
The **Elements** page is shown in the following screenshot. Click Element Name of the CS 1000 that needs to be accessed as highlighted in the red box.



The following screenshot shows the CS 1000 Element Manager **System Overview** page.



From the left menu column of the EM page, navigate to **System → IP Network → Nodes: Servers, Media Cards**. The **Node ID Telephone** page will appear (not shown). Click on the **Node ID # 2001**, which is the **LTPS, Gateway (SIPGw)**. The **Node Details** page will appear. Scroll down under the **Applications**, click on the **Gateway (SIPGw)** link, the **Virtual Trunk Gateway Configuration Details** page will appear in the next two screenshots



Enter the information highlighted in the red-box for the **General** and **SIP Gateway Settings**. All other fields are left as default. Click **Save**. Note: **SIP domain name** **bwvdev.com** should be matched with what was created in **Section 5.1**.

AVAYA CS1000 Element Manager

System » IP Network » IP Telephony Nodes » Node Details » Virtual Trunk Gateway Configuration

Node ID: 2001 - Virtual Trunk Gateway Configuration Details

General | SIP Gateway Settings | SIP Gateway Services

Vtrk gateway application: ☒ Enable gateway service on this node

General

Vtrk gateway application: SIP Gateway (SIPGw)

SIP domain name: bwvdev.com

Local SIP port: 5060 * (1 - 65535)

Gateway endpoint name: car2-cores *

Gateway password: *

Application node ID: 2001 * (0-9999)

Enable failsafe NRS: ☐

Note: FailSafe NRS will be enabled only on those servers in the node where NRS application is not deployed.

Virtual Trunk Network Health Monitor

☒ Monitor IP addresses (listed below)

Information will be captured for the IP addresses listed below.

Monitor IP: Add

Monitor addresses: Remove

The **Primary TLAN IP address** is the IP address used in **Section 5.4.1** which is the Session Manager IP address 10.10.97.205

AVAYA CS1000 Element Manager

System » IP Network » IP Telephony Nodes » Node Details » Virtual Trunk Gateway Configuration

Node ID: 2001 - Virtual Trunk Gateway Configuration Details

General | SIP Gateway Settings | SIP Gateway Services

Proxy Or Redirect Server:

Proxy Server Route 1:

Primary TLAN IP address: 10.10.97.205

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

Port: 5060 (1 - 65535)

Transport protocol: UDP

Options: ☒ Support registration ☐ Primary CDS proxy

Secondary TLAN IP address: 0.0.0.0

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

On the same page, scroll-down the parameters box to the **SIP URI Map** section. Under the **Private domain names** subsection, leave all fields as default, which has the phone context **cdp.udp** in the **CDP** field.

Afterwards, click **Save**, the system will bring back the **Node ID** page (not shown). Then click **Save** button on the **Node ID** page and that will take the user to the **Node Saved** page (not shown). Click on the **Transfer Now** button, when finished it will bring the user to the **Synchronize Configuration Files** page. Then click **Start Sync** button (not shown) to complete the configuration saved process.

5. Configure Avaya Aura® Session Manager

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

- SIP domain.
- Logical/physical Locations that can be occupied by SIP Entities.
- SIP Entities corresponding to Session Manager and Communication Server 1000.
- Entity Links, which define the SIP trunk parameters used by Session Manager when routing calls to/from SIP Entities.
- Routing Policies, which control call routing between the SIP Entities.
- Dial Patterns, which govern to which SIP Entity a call is routed.

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 (not shown).

5.1. 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., **bvwdev.com**).
- **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.

AVAYA
Aura® System Manager 6.3

Last Logged on at November 6, 2014 7:50 AM

Go to... Log off admin

Home Routing

Routing Domains Locations Adaptations SIP Entities Entity Links Time Ranges Routing Policies Dial Patterns Regular Expressions Defaults

Home / Elements / Routing / Domains

Domain Management

Commit Cancel

1 Item Filter: Enable

Name	Type	Notes
* bvwdev.com	sip	SIP domain in SM Interop

Commit Cancel

5.2. Add Locations

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).

AVAYA
Aura® System Manager 6.3

Last Logged on at November 6, 2014 7:50 AM

Go to... Log off admin

Home Routing

Home / Elements / Routing / Locations

Location Details

Commit Cancel

Help ?

General

* Name: Belleville

Notes:

Dial Plan Transparency in Survivable Mode

Enabled: ☐

Listed Directory Number:

Associated CM SIP Entity:

Overall Managed Bandwidth

Managed Bandwidth Units: Kbit/sec

Total Bandwidth:

Multimedia Bandwidth:

Audio Calls Can Take Multimedia ☒

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

The screen below shows addition of a location which includes the CS 1000 and Session Manager. Click **Commit** to save the Location definition.

Location Pattern

Add Remove

4 Items Filter: Enable

	IP Address Pattern	Notes
☐	* 10.33.10.0	
☐	* 10.33.5.0	
☐	* 10.10.97.0	
☐	* 10.10.98.0	

Select : All, None

5.3. Configure Adaptations

To configure a new Adaptation select **Adaptations** from the left window and click on **New** (now shown) from the main window.

Enter a descriptive name in the **Adaptation Name** and select **CS1000Adapter** for the **Module Name**. Select **Name-Value Parameter** as the **Module Parameter Type**. Add the following Parameters: MIME = no.

Click on **Commit** once completed.

The screenshot shows the Avaya Aura System Manager 6.3 interface. The left sidebar contains a navigation menu with 'Routing' selected. The main content area is titled 'Adaptation Details' and shows the 'General' tab. The 'Adaptation Name' is 'Remove-MIME', the 'Module Name' is 'CS1000Adapter', and the 'Module Parameter Type' is 'Name-Value Parameter'. Below these fields is a table with two columns: 'Name' and 'Value'. The table contains one row with 'MIME' in the 'Name' column and 'no' in the 'Value' column. There are 'Add' and 'Remove' buttons above the table. At the bottom, there are fields for 'Egress URI Parameters' and 'Notes'. The top right of the interface shows the user 'admin' and the date 'November 6, 2014'.

Name	Value
MIME	no

5.4. Add SIP Entities

In the sample configuration, a SIP Entity is added for Session Manager, CS 1000, and Open Trade system.

5.4.1. Session Manager SIP Entity

A SIP Entity must be added for Session Manager. 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**: IP address of the signaling interface on Session Manager.
 - **Type**: Select **Session Manager**.
 - **Location**: Select the location defined previously.
 - **Time Zone**: Time zone for this location.

AVAYA
Aura® System Manager 6.3

Last Logged on at November 6, 2014 7:50 AM

Home / Elements / Routing / SIP Entities

SIP Entity Details

General

* Name: InteropSM

* FQDN or IP Address: 10.10.97.205

Type: Session Manager

Notes: Session Manager for interop

Location: Belleville

Outbound Proxy:

Time Zone: America/Toronto

Credential name:

SIP Link Monitoring

SIP Link Monitoring: Use Session Manager Configuration

Scroll down **Port** section, click on **Add** button to add a new port and protocol for this port and select the domain respectively for the port as shown in the figure below. In the compliance test, port 5060 UDP was used.

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

Port

TCP Failover port:

TLS Failover port:

Add Remove

3 Items Filter: Enable

Port	Protocol	Default Domain	Notes
5060	TCP	bvwddev.com	
5060	UDP	bvwddev.com	
5061	TLS	bvwddev.com	

Select : All, None

5.4.2. Communication Server 1000 SIP Entity

A SIP Entity must be added for the CS 1000. 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 the IP address of the SIP gateway node IP.
 - **Type**: Select **SIP Trunk**.
 - **Location**: Select the location defined previously.
 - **Time Zone**: Time zone for this location.

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

The screenshot displays the 'SIP Entity Details' configuration page. The left sidebar shows a navigation menu with 'SIP Entities' selected. The main content area is titled 'SIP Entity Details' and includes a 'General' tab. The form contains the following fields:

- Name**: car2-cores
- FQDN or IP Address**: 10.10.97.170
- Type**: SIP Trunk
- Notes**: (empty)
- Adaptation**: (empty)
- Location**: Belleville
- Time Zone**: America/Toronto
- SIP Timer B/F (in seconds)**: 4
- Credential name**: (empty)
- Call Detail Recording**: egress
- Loop Detection Mode**: Off
- SIP Link Monitoring**: Use Session Manager Configuration

Buttons for 'Commit' and 'Cancel' are located at the top right of the form area.

5.4.3. Etrali Open Trade SIP Entity

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 **Remove-MIME** in **Section 5.3**.
 - **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 shows the AVAYA Aura System Manager 6.3 interface. The left sidebar contains a navigation menu with options: Home, Routing, Domains, Locations, Adaptations, SIP Entities (selected), Entity Links, Time Ranges, Routing Policies, Dial Patterns, Regular Expressions, and Defaults. The main content area is titled 'SIP Entity Details' and 'General'. It contains the following fields: Name (OpenTrade), FQDN or IP Address (193.121), Type (Other), Notes, Adaptation (Remove-MIME), Location (Belleville), Time Zone (America/Toronto), SIP Timer B/F (in seconds) (4), Credential name, Call Detail Recording (none), and CommProfile Type Preference. The 'Commit' and 'Cancel' buttons are visible at the top right of the form area.

5.5. Add Entity Links

The SIP trunk from Session Manager to CS 1000 and Open Trade are 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 name of CS 1000 or Open Trade.
- **Port:** Port number on which the other system receives SIP requests.
- **Trusted:** Select Trusted.

The following screens display the two Entity Links. The first entity link is for Session Manager and CS 1000. The second entity link is for Session Manager and Open Trade.

The entity link is below between Session Manager and Open Trade.

5.6. Add Routing Policy

Routing policies describe the conditions under which calls will be routed to the SIP Entities. Two routing policies were added – one for Communication Server 1000 and one 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.

Defaults can be used for the remaining fields. Click **Commit** to save each Routing Policy definition. The following screen shows the Routing Policy for CS 1000.

The screenshot shows the 'Routing Policy Details' page for the policy named 'To-car2-cores'. The left sidebar contains a navigation menu with options: Routing, Domains, Locations, Adaptations, SIP Entities, Entity Links, Time Ranges, Routing Policies (selected), Dial Patterns, Regular Expressions, and Defaults. The main content area has a breadcrumb trail 'Home / Elements / Routing / Routing Policies' and a 'Help ?' link. Below the breadcrumb is the 'Routing Policy Details' section with 'Commit' and 'Cancel' buttons. The 'General' section includes fields for '* Name:' (To-car2-cores), 'Disabled:' (checkbox), '* Retries:' (0), and 'Notes:'. The 'SIP Entity as Destination' section has a 'Select' button and a table with columns: Name, FQDN or IP Address, Type, and Notes. The table contains one entry: 'car2-cores', '10.10.97.170', 'SIP Trunk'. The 'Time of Day' section has 'Add', 'Remove', and 'View Gaps/Overlaps' buttons. Below it is a table with 1 item, showing a time range of 00:00 to 23:59 for 24/7. The bottom of the page has a 'Select : All, None' option.

The following screen shows the Routing Policy for Open Trade.

The screenshot shows the 'Routing Policy Details' page for the policy named 'To-OpenTrade'. The left sidebar contains a navigation menu with options: Routing, Domains, Locations, Adaptations, SIP Entities, Entity Links, Time Ranges, Routing Policies (selected), Dial Patterns, Regular Expressions, and Defaults. The main content area has a breadcrumb trail 'Home / Elements / Routing / Routing Policies' and a 'Help ?' link. Below the breadcrumb is the 'Routing Policy Details' section with 'Commit' and 'Cancel' buttons. The 'General' section includes fields for '* Name:' (To-OpenTrade), 'Disabled:' (checkbox), '* Retries:' (0), and 'Notes:'. The 'SIP Entity as Destination' section has a 'Select' button and a table with columns: Name, FQDN or IP Address, Type, and Notes. The table contains one entry: 'OpenTrade', '193.1.1.217', 'Other'. The top of the page shows the 'AVAYA' logo, 'Aura System Manager 6.3', and 'Last Logged on at November 6, 2014 7:50 AM'. There is also a 'Go to...' field and a 'Log off admin' button.

5.7. Add Dial Pattern

Dial patterns must be defined that will direct calls to the appropriate SIP Entity. In the sample configuration, 4-digit extensions beginning with “4” reside on CS 1000, extension 51xx is the Open Trade number. 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 **bvwdev.com** SIP domain as defined in **Section 6.1**.
- Under Originating Locations and Routing Policies: Click Add, and then select the appropriate location and routing policy from the list.

Default values can be used for the remaining fields. The following screen shows the dial pattern definitions for local extensions on CS 1000. Click **Commit** to save this dial pattern.

The following screen shows the dial pattern definition for Communication Server 1000 extensions beginning with “4”.

The screenshot shows the 'Dial Pattern Details' configuration page. The left sidebar lists navigation options: Home, Routing (selected), Domains, Locations, Adaptations, SIP Entities, Entity Links, Time Ranges, Routing Policies, Dial Patterns (highlighted), Regular Expressions, and Defaults. The main content area is titled 'Dial Pattern Details' and includes a 'General' section with the following fields: 'Pattern' (4), 'Min' (4), 'Max' (4), 'Emergency Call' (unchecked), 'Emergency Priority' (1), 'Emergency Type' (empty), 'SIP Domain' (bvwdev.com), and 'Notes' (empty). Below this is the 'Originating Locations and Routing Policies' section, which includes an 'Add' button and a table with one item. The table has columns: Originating Location Name, Originating Location Notes, Routing Policy Name, Rank, Routing Policy Disabled, Routing Policy Destination, and Routing Policy Notes. The single row shows 'Belleville' as the location, 'To-car2-cores' as the routing policy, a rank of 0, and 'car2-cores' as the destination. A 'Filter: Enable' button is also present.

Originating Location Name	Originating Location Notes	Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes
Belleville		To-car2-cores	0	☐	car2-cores	

The following screen shows the dial pattern definition for the Open Trade.

The screenshot shows the 'Dial Pattern Details' form in the Open Trade Administration web interface. The form is titled 'Dial Pattern Details' and has 'Commit' and 'Cancel' buttons. The 'General' tab is selected. The form contains the following fields:

- * Pattern: 51
- * Min: 4
- * Max: 4
- Emergency Call: ☐
- Emergency Priority: 1
- Emergency Type:
- SIP Domain: bvwdev.com
- Notes:

Below the form is the 'Originating Locations and Routing Policies' section. It has 'Add' and 'Remove' buttons. A table with 1 item is shown, filtered by 'Enable'.

	Originating Location Name	Originating Location Notes	Routing Policy Name	Rank	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes
☐	Belleville		To-OpenTrade	0	☐	OpenTrade	

6. Configuration of Etrali Trading Solutions Open Trade

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

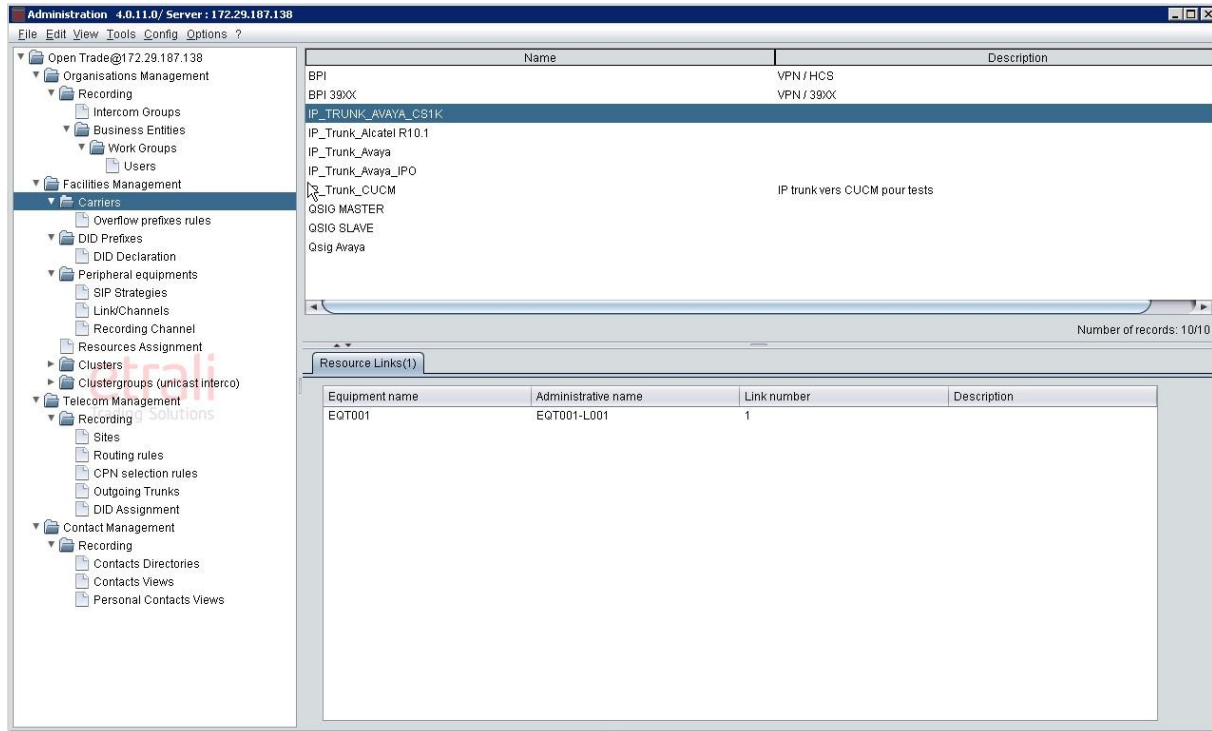
The screenshot shows the 'Administration 4.0.11.0' login dialog box. It has a title bar with 'Administration 4.0.11.0' and a close button. The dialog box contains the following fields:

- Server: 172.29.187.138
- Login: SUPER_ADMIN
- Password:
- Language: English

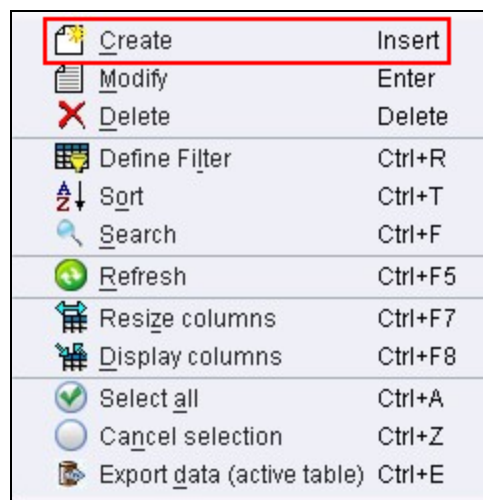
At the bottom are 'Ok' and 'Cancel' buttons.

6.1. Create Carrier

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



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



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



Modify Carrier

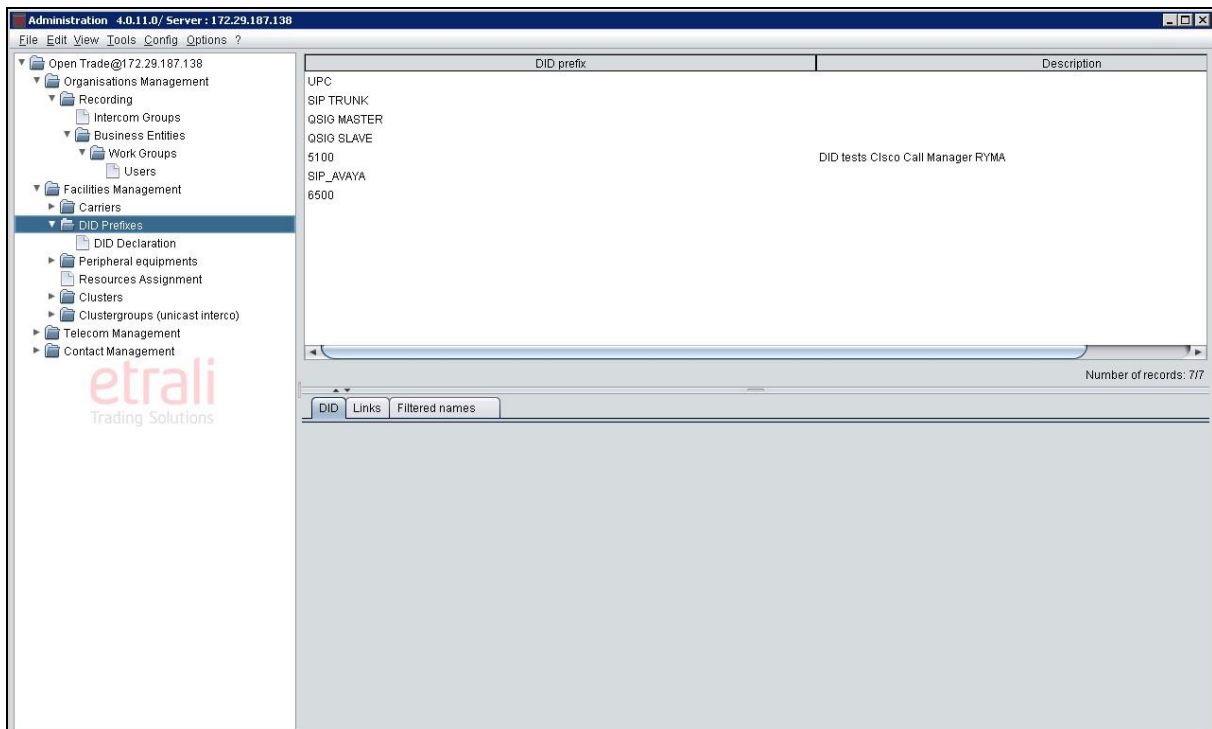
Name: IP_TRUNK_AWAYA_CS1K

Description: SIP connection to Avaya CS1K

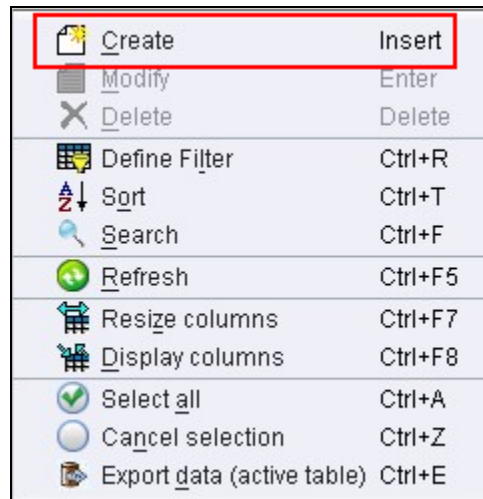
Ok Restore Cancel

6.2. Create DID Prefixes

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



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

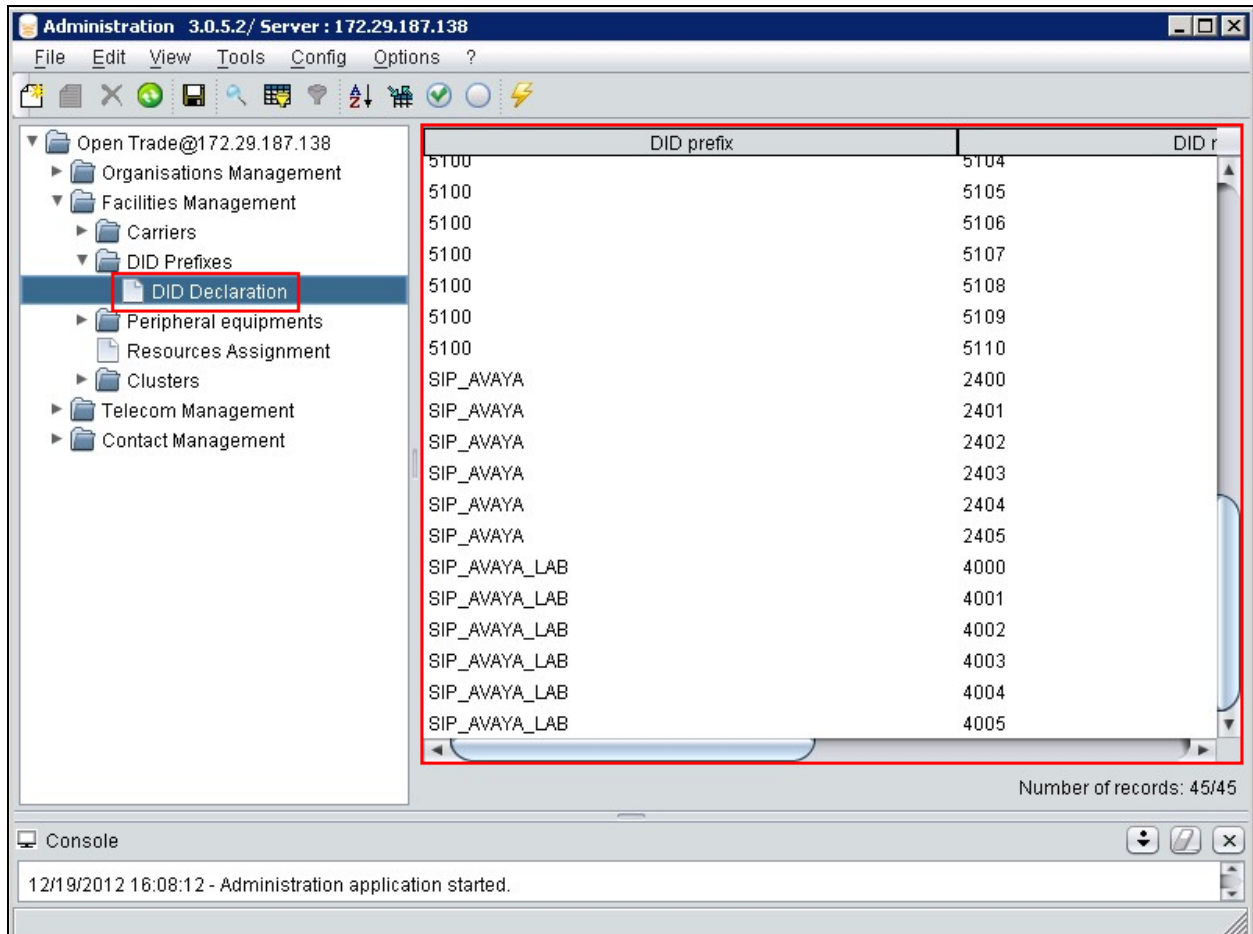


Enter an identifying name in the **DID prefix** field and click **Add**.



6.3. Create DID Declaration

Expand the **DID Declaration** menu item. Place the cursor under the first blank entry in the **DID prefix** pane and right-click the mouse.

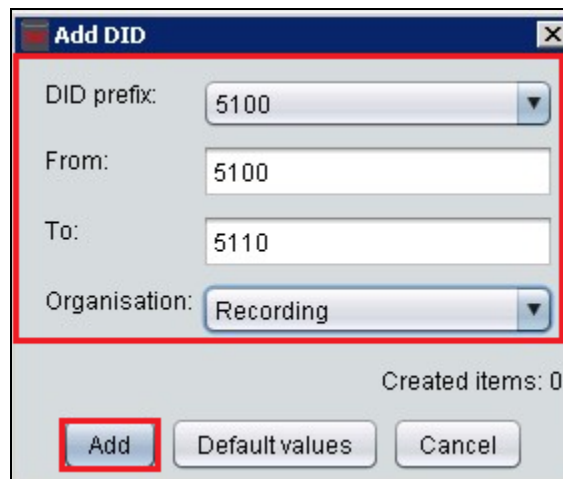


Select **Create** from the menu which appears.

	<u>C</u> reate	Insert
	<u>M</u> odify	Enter
	<u>D</u> elete	Delete
	<u>D</u> efine Filter	Ctrl+R
	<u>S</u> ort	Ctrl+T
	<u>S</u> earch	Ctrl+F
	<u>R</u> efresh	Ctrl+F5
	<u>R</u> esize columns	Ctrl+F7
	<u>D</u> isplay columns	Ctrl+F8
	<u>S</u> elect all	Ctrl+A
	<u>C</u> ancel selection	Ctrl+Z
	<u>E</u> xport data (active table)	Ctrl+E

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

- **DID prefix** – select the DID Prefix created in **Section 8.2**.
- **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.



The 'Add DID' dialog box contains the following fields and controls:

- DID prefix:** A dropdown menu with '5100' selected.
- From:** A text input field containing '5100'.
- To:** A text input field containing '5110'.
- Organisation:** A dropdown menu with 'Recording' selected.
- Created items:** A label showing '0'.
- Buttons:** 'Add', 'Default values', and 'Cancel'. The 'Add' button is highlighted with a red box.

6.4. Create SIP Strategies

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

Administration4.0.11.0 / Server : 172.29.187.138

FileEditViewToolsConfigOptions ?

Open Trade@172.29.187.138

Organisations Management

Recording

Intercom Groups

Business Entities

Work Groups

Users

Facilities Management

Carriers

DID Prefixes

DID Declaration

Peripheral equipments

SIP Strategies

LinkChannels

Recording Channel

Resources Assignment

Clusters

Clustergroups (unicast interco)

Telecom Management

Contact Management

Str.	Strategy Name	Inhe.	Su.	U.	S.	N.	O.	Req.	From	To	TI	MI	DTM	D.	D.	R.	Su.	R.	DL	HL	...	DL	...	C...	Med	...	Loc	Re
1	DEFAULT_G...	☒	☐	☐	☐	5		slp...	%n...	slp...		360	100															
2	CISCO_GAT...	☒	☐	☐	☐	5		slp...	%n...	%n...		360	100															
3	DEFAULT_IP...	☒	☒	☒	☐	0		slp...	%n...	%n...		360	100															
4	DEFAULT_R...	☒	☒	☒	☐	0		slp...	%n...	%n...		90																
5	MILESYS_GA...	☒	☐	☐	☐	5		slp...	%n...	%n...		360	100															
6	NICE_RECO...	☒	☒	☒	☐	0		slp...	%n...	%n...		90																
7	NET_GATEW...	☒	☐	☐	☐	5		slp...	%n...	%n...		360	100															
8	CYBERTECH...	☒	☒	☒	☐	0		slp...	%n...	%n...		90																
9	ETRADEAL_I...	☐	☐	☐	☐	5		slp...	slp...	slp...		90																
10	BREKEKE_I...	☐	☐	☐	☐	0		slp...	%n...	%n...		360	100															
11	NICE_REC...	☒	☒	☒	☐	0		slp...	%n...	%n...		90																
12	CYBERTECH...	☒	☒	☒	☐	0		slp...	%n...	%n...		90																
13	AVAYA_IPBX	☒	☐	☐	☐	0		slp...	%n...	<slp...		360	101	40	200													
14	TCS_NET	☒	☐	☐	☐	5		slp...	%n...	slp...		360	100															
15	CUCM_IPBX	☒	☐	☐	☐	0		slp...	%n...	%n...		18...	100															
16	ASTERISK_I...	☐	☒	☒	☐	0		slp...	slp...	slp...		360	100															
17	HIPATH_IPBX	☒	☐	☐	☐	0		slp...	%n...	%n...		12...	100															
18	SNOM_IPBX	☒	☐	☐	☐	0		slp...	%n...	%n...		360	100															
19	ALCATEL_IP...	☒	☐	☐	☐	0		slp...	%n...	%n...		18...	100															
20	NATTERBOX...	☒	☐	☐	☐	0		slp...	%n...	%n...		120																
21	UPC_SIP_T...	☒	☐	☐	☐	0		slp...	%n...	%n...		600	100															

Number of records: 31/31

Go to CUSTOM_001 Strategy. For **Inherited from strategy**, select: Avaya_IPBX

Strategy Name: CUSTOM_001 Strategy ID: 0027

Inherited from strategy: AVAYA_IPBX

Parameter	Value
supervise_resources	☒
UPDATE_supported	☐
SUBSCRIBE_supported	☐
NOTIFY_supported	☒
outgoing_call_max_rate	0
request_uri_format	slp:%user@%domain:%port
from_uri_format	%name<slp:%user@%domain:%port>
to_uri_format	<slp:%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	☒

Ok Restore Cancel

Check all the parameters configured as below:

Modify SIP Strategy

Strategy Name: Strategy ID: 0026

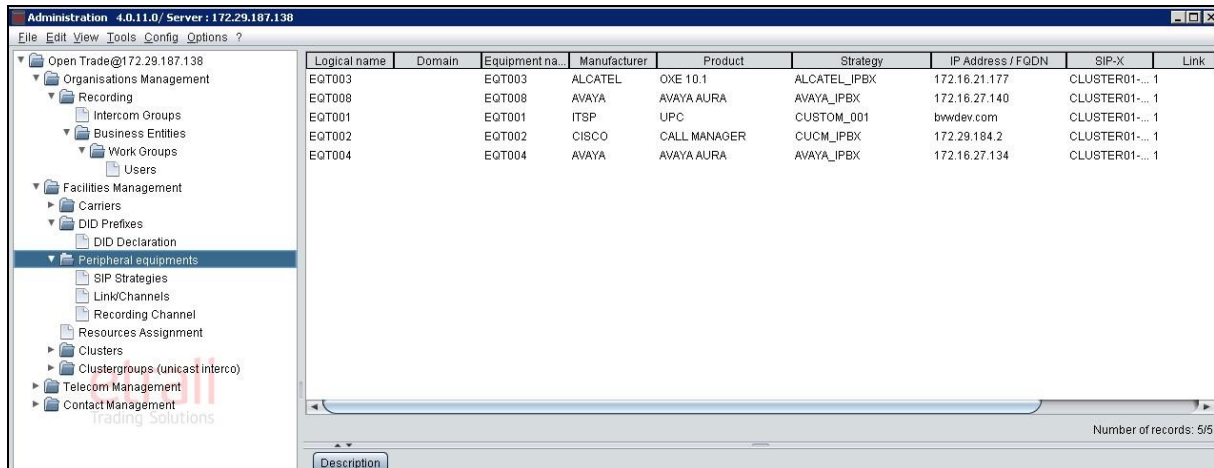
Inherited from strategy:

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	☐

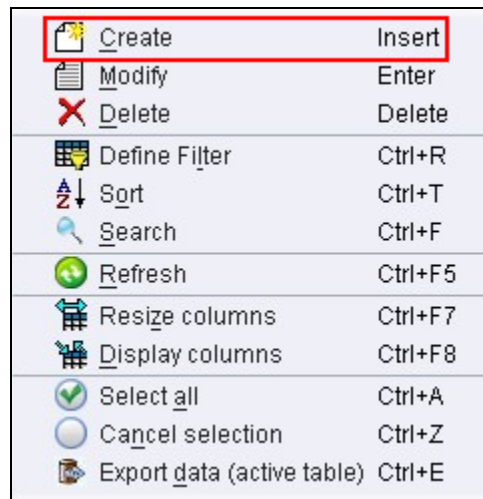
Ok Restore Cancel

6.5. 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 the mouse.



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



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

- **Manufacturer** – select **ITSP** from the drop down list.
- **Product name** – select **UPC** from the drop down list.
- **SIP Strategy** – select **CUSTOM_001** from the drop down list. (Created in section 6.4 : create strategies)
- **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: EQT001

Equipment name: EQT001

SIP-X name: CLUSTER01-CABT001

SIP-X Logical name: CLUSTER01-CABT001

Manufacturer: ITSP

Product name: UPC

SIP strategy: CUSTOM_001

Contact parameters

	IP Address / FQDN
1	bwwdev.com
2	
3	
4	

Resources

Telco Links: 1

Recording channels: 0

Interco capacity: 0

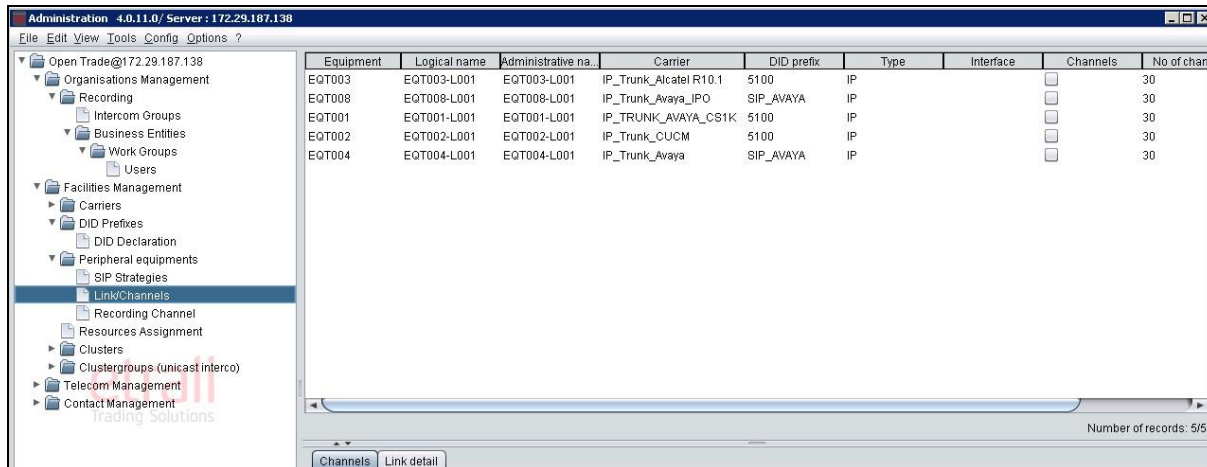
Description

Advanced configuration >>

Ok Restore Cancel

6.6. Create Link/Channels

Expand the **Link/Channels** menu item and double click the newly created Equipment created in **Section 6.4**.

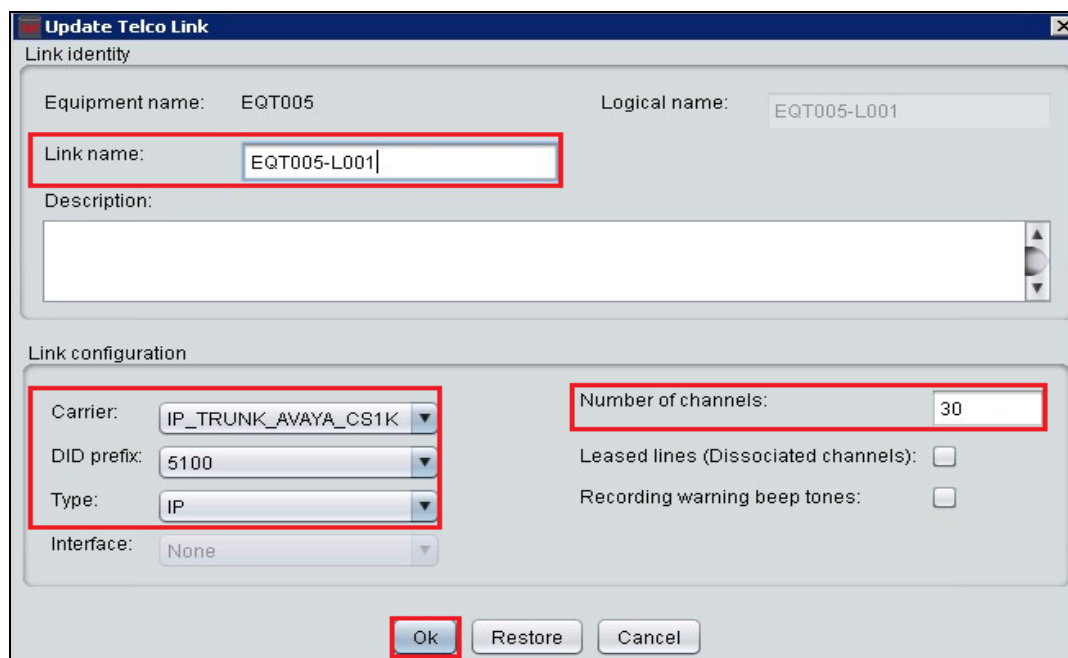


The screenshot shows the Administration 4.0.11.0/Server: 172.29.187.138 interface. The left sidebar shows the 'Link/Channels' menu item selected. The main window displays a table of equipment links.

Equipment	Logical name	Administrative na.	Carrier	DID prefix	Type	Interface	Channels	No of chan
EQT003	EQT003-L001	EQT003-L001	IP_Trunk_Alcate	5100	IP		☐	30
EQT008	EQT008-L001	EQT008-L001	IP_Trunk_Avaya_IPO	SIP_AVAYA	IP		☐	30
EQT001	EQT001-L001	EQT001-L001	IP_TRUNK_AVAYA_CS1K	5100	IP		☐	30
EQT002	EQT002-L001	EQT002-L001	IP_Trunk_CUCM	5100	IP		☐	30
EQT004	EQT004-L001	EQT004-L001	IP_Trunk_Avaya	SIP_AVAYA	IP		☐	30

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

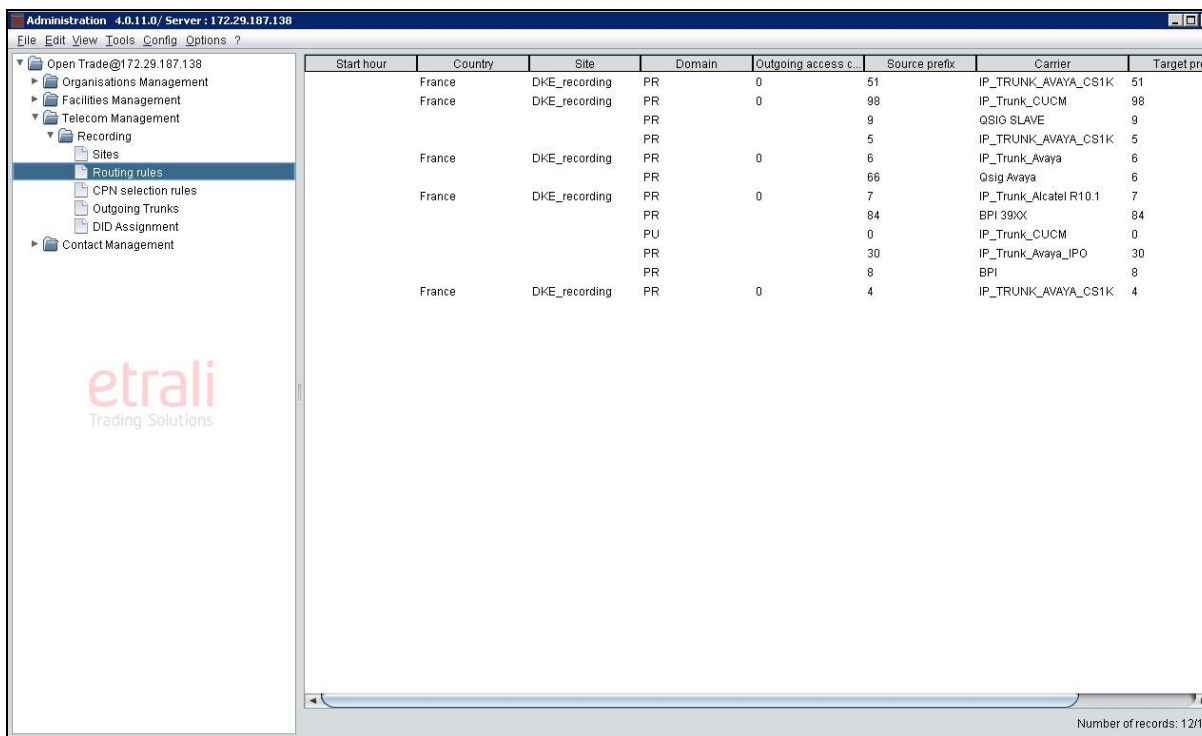
- **Link name** – enter an identifying name.
- **Carrier** – select the Carrier created in **Section 6.1**.
- **DID prefix** – select the DID prefix created in **Section 6.2**.
- **Type** – select **IP** from the drop down list.
- **Number of channels** – enter **30**.



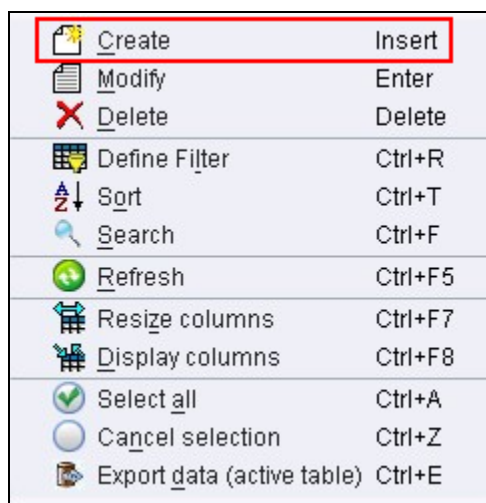
The screenshot shows the 'Update Telco Link' dialog box. The 'Link identity' section contains fields for 'Equipment name' (EQT005), 'Logical name' (EQT005-L001), 'Link name' (EQT005-L001), and 'Description'. The 'Link configuration' section contains fields for 'Carrier' (IP_TRUNK_AVAYA_CS1K), 'DID prefix' (5100), 'Type' (IP), 'Interface' (None), 'Number of channels' (30), 'Leased lines (Dissociated channels)' (unchecked), and 'Recording warning beep tones' (unchecked). The 'Ok' button is highlighted.

6.7. 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 the mouse 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 6.1**.
- **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

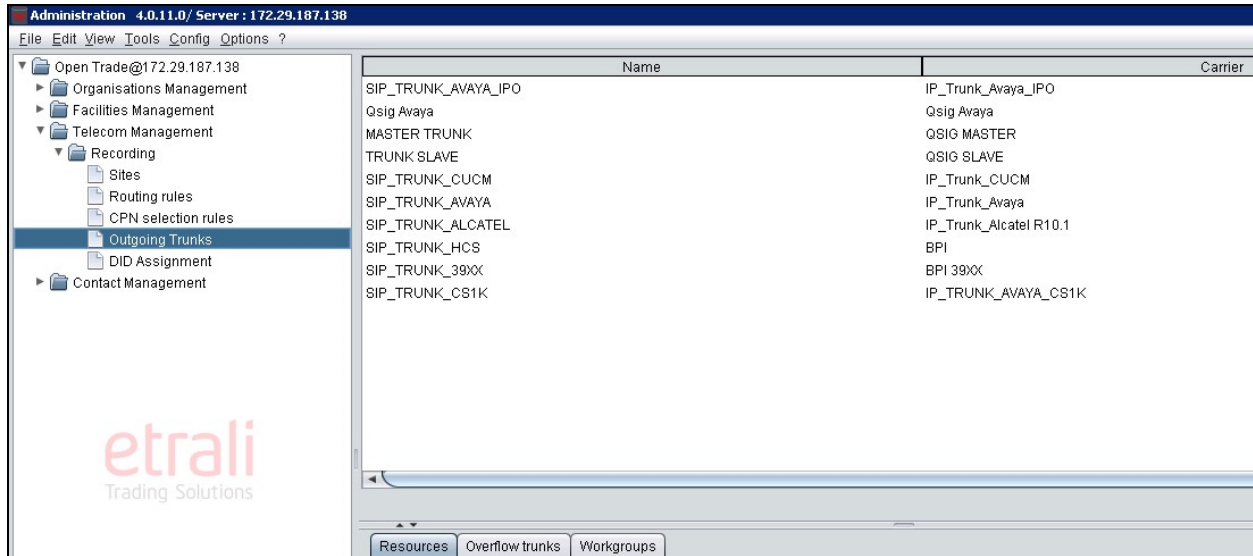
Target prefix: 5

☒ Is activated

Ok Restore Cancel

6.8. 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 the mouse 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 6.1** 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 6.4**.

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

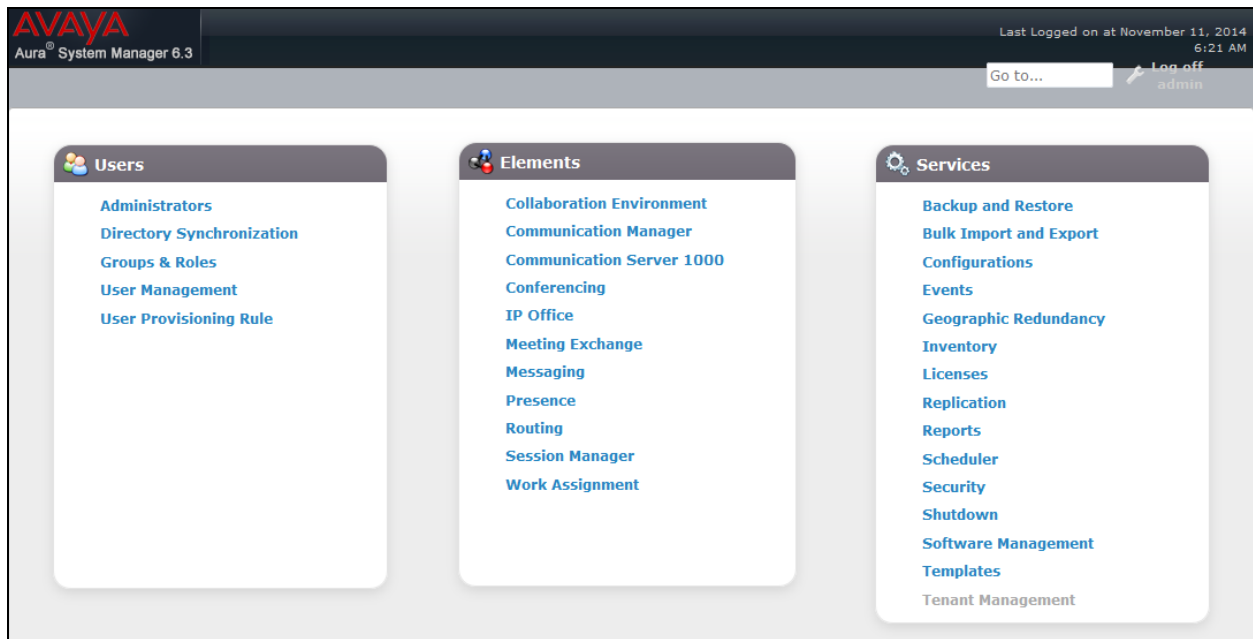
Site	Trunk	Activated
DKE_recording	None	☐

7. 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.

- Verify Open trade SIP Entity is up.

Log into System Manager as per **Section 5**. From the main menu select Session Manager as shown below.



Navigate to **System Status** → **SIP Entity Monitoring**. 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.

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: OpenTrade

Status Details for the selected Session Manager:

Summary View

1 Items | Refresh Filter: Enable

Session Manager Nam	SIP Entity Resolved IP	Port	Proto.	Deny	Conn. Status	Reason Code	Link Status
InteropSM	193.217	5060	UDP	FALSE	UP	200 OK	UP

- 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: car2-cores

Status Details for the selected Session Manager:

Summary View

1 Items | Refresh Filter: Enable

Session Manager Nam	SIP Entity Resolved IP	Port	Proto.	Deny	Conn. Status	Reason Code	Link Status
InteropSM	10.10.97.170	5060	UDP	FALSE	UP	200 OK	UP

8. Conclusion

The interoperability of Open Trade from Etrali Trading Solutions with Avaya Communication Server 1000 Release 7.6 and Avaya Aura® Session Manager R6.3 was successful for this specific setup in order to place calls to and from Open Trade to CS 1000. All issues and observations are outlined in **Section 2.2**.

9. 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 6.3, Document Number 03-300509, Issue 9, October 2013
- [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 Etrali Open Trade can be requested from Etrali or may be downloaded from <http://www.etrali.com>

Appendix A

Avaya Communication Server 1000 Release 7.6 - Linux Patches

Product Release: 7.65.16.00						
In system patches: 6						
PATCH#	NAME	IN_SERVICE	DATE	SPECINS	TYPE	RPM
0	p30224_1	Yes	16/10/13	NO	FRU	cs1000-pi-control-1.00.00.00-00.noarch
28	p31484_1	Yes	26/09/13	NO	FRU	cs1000-shared-general-7.65.16-00.i386
44	p33054_2	Yes	01/08/14	NO	FRU	cs1000-cs-7.65.P.100-02.i386
45	p33125_1	Yes	01/08/14	NO	FRU	cs1000-OS-1.00.00.00-00.noarch
46	p33274_1	Yes	01/08/14	YES	FRU	initscripts-8.45.25-1.el5.i386
47	p33275_1	Yes	01/08/14	NO	FRU	cs1000-cs-7.65.P.100-02.i386
In System service updates: 29						
PATCH#	IN_SERVICE	DATE	SPECINS	REMOVABLE	NAME	
1	Yes	01/08/14	YES	YES	cs1000-linuxbase-7.65.16.23-1.i386.000	
2	Yes	01/08/14	NO	YES	cs1000-Jboss-Quantum-7.65.16.22-8.i386.000	
3	Yes	27/12/13	YES	yes	tzdata-2013c-2.el5.i386.001	
4	Yes	01/08/14	YES	YES	cs1000-csoneksvrmgr-7.65.16.22-5.i386.000	
5	Yes	15/09/13	NO	YES	cs1000-pd-7.65.16.21-00.i386.000	
6	Yes	15/09/13	NO	YES	cs1000-shared-carrdtct-7.65.16.21-	
01.i386.000						
7	Yes	15/09/13	NO	YES	cs1000-shared-tpselect-7.65.16.21-	
01.i386.000						
8	Yes	15/09/13	NO	yes	cs1000-dbcom-7.65.16.21-00.i386.000	
9	Yes	01/08/14	YES	YES	cs1000-patchWeb-7.65.16.22-4.i386.000	
11	Yes	01/08/14	YES	YES	cs1000-dmWeb-7.65.16.22-6.i386.000	
12	Yes	01/08/14	YES	YES	cs1000-baseWeb-7.65.16.22-4.i386.000	
18	Yes	27/12/13	YES	YES	cs1000-cs-7.65.P.100-02.i386.000	
19	Yes	01/08/14	YES	YES	cs1000-oam-logging-7.65.16.22-4.i386.000	
23	Yes	26/09/13	NO	YES	cs1000-snmpp-7.65.16.21-00.i686.000	
24	Yes	01/08/14	YES	YES	cs1000-csv-7.65.16.22-2.i386.000	
25	Yes	01/08/14	YES	YES	cs1000-tps-7.65.16.22-8.i386.000	
26	Yes	01/08/14	YES	YES	cs1000-mscTone-7.65.16.22-2.i386.000	
27	Yes	01/08/14	YES	YES	cs1000-mscMusc-7.65.16.22-4.i386.000	
29	Yes	27/12/13	NO	YES	cs1000-shared-omm-7.65.16.21-2.i386.000	
32	Yes	27/12/13	YES	YES	cs1000-ipsec-7.65.16.22-1.i386.000	
34	Yes	27/12/13	NO	YES	cs1000-cppmUtil-7.65.16.22-1.i686.000	
36	Yes	01/08/14	YES	YES	cs1000-mscConf-7.65.16.22-2.i386.000	
37	Yes	01/08/14	YES	YES	cs1000-mscAnnc-7.65.16.22-2.i386.000	
38	Yes	01/08/14	YES	YES	cs1000-mscAttn-7.65.16.22-2.i386.000	
39	Yes	01/08/14	NO	YES	cs1000-gk-7.65.16.22-1.i386.000	
40	Yes	01/08/14	NO	YES	cs1000-sps-7.65.16.22-3.i386.000	
41	Yes	01/08/14	YES	YES	cs1000-shared-pbx-7.65.16.22-3.i386.000	
42	Yes	01/08/14	YES	YES	cs1000-shared-xmsg-7.65.16.22-1.i386.000	
43	Yes	01/08/14	YES	YES	cs1000-vtrk-7.65.16.22-50.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: 2014-06-24 04:38:41 (est))

IN-SERVICE PEPS

PAT#	CR #	PATCH REF #	NAME	DATE	FILENAME	SPECINS
000	wi01065922	ISS1:1OF1	p32516_1	07/09/2014	p32516_1.cpl	NO
001	wi01059388	iss1:1of1	p32628_1	07/09/2014	p32628_1.cpl	NO
002	wi01057403	ISS1:1OF1	p32591_1	07/09/2014	p32591_1.cpl	NO
003	wi01132215	ISS1:1OF1	p33084_1	07/09/2014	p33084_1.cpl	NO
004	wi01109251	ISS1:1OF1	p32827_1	07/09/2014	p32827_1.cpl	NO
005	wi01118928	ISS1:1OF1	p32922_1	07/09/2014	p32922_1.cpl	NO
006	wi01053195	ISS1:1OF1	p32297_1	07/09/2014	p32297_1.cpl	NO
007	wi01146705	ISS1:1OF1	p33129_1	07/09/2014	p33129_1.cpl	NO
008	wi01101969	ISS1:1OF1	p32726_1	07/09/2014	p32726_1.cpl	NO
009	wi01163521	ISS1:1OF1	p33226_1	07/09/2014	p33226_1.cpl	NO
010	wi01068669	ISS1:1OF1	p32333_1	07/09/2014	p32333_1.cpl	NO
011	wi01089807	ISS1:1OF1	p32957_1	07/09/2014	p32957_1.cpl	NO
012	wi01092300	ISS1:1OF1	p32692_1	07/09/2014	p32692_1.cpl	NO
013	wi01094305	ISS1:1OF1	p32640_1	07/09/2014	p32640_1.cpl	NO
014	wi01075353	ISS1:1OF1	p32613_1	07/09/2014	p32613_1.cpl	NO
015	wi01104473	ISS1:1OF1	p32818_1	07/09/2014	p32818_1.cpl	NO
016	wi01062607	ISS1:1OF1	p32503_1	07/09/2014	p32503_1.cpl	NO
017	WI0110261	ISS1:1OF1	p32758_1	07/09/2014	p32758_1.cpl	NO
018	wi01070756	ISS1:1OF1	p32444_1	07/09/2014	p32444_1.cpl	NO
019	wi01039280	ISS1:1OF1	p32423_1	07/09/2014	p32423_1.cpl	NO
020	wi01065118	ISS1:1OF1	p32397_1	07/09/2014	p32397_1.cpl	NO
021	wi01065125	ISS1:1OF1	p32416_1	07/09/2014	p32416_1.cpl	NO
022	wi01053920	ISS1:1OF1	p32303_1	07/09/2014	p32303_1.cpl	NO
023	wi01034961	ISS1:1OF1	p32144_1	07/09/2014	p32144_1.cpl	NO
024	wi01135146	ISS1:1OF1	p33033_1	07/09/2014	p33033_1.cpl	NO
025	wi01034307	ISS1:1OF1	p32615_1	07/09/2014	p32615_1.cpl	NO
026	wi01150846	ISS1:1OF1	p33157_1	07/09/2014	p33157_1.cpl	NO
027	wi01070473	ISS1:1OF1	p32413_1	07/09/2014	p32413_1.cpl	NO
028	wi01082456	ISS1:1OF1	p32596_1	07/09/2014	p32596_1.cpl	NO
029	wi01069441	ISS1:1OF1	p32097_1	07/09/2014	p32097_1.cpl	NO
030	wi01124477	ISS1:1OF1	p32963_1	07/09/2014	p32963_1.cpl	NO
031	wi01075359	ISS1:1OF1	p32671_1	07/09/2014	p32671_1.cpl	NO
032	wi01058621	ISS1:1OF1	p32339_1	07/09/2014	p32339_1.cpl	NO
033	wi01043367	ISS1:1OF1	p32232_1	07/09/2014	p32232_1.cpl	NO
034	wi01061481	ISS1:1OF1	p32382_1	07/09/2014	p32382_1.cpl	NO
035	WI01077073	ISS1:1OF1	p32534_1	07/09/2014	p32534_1.cpl	NO
036	wi01035976	ISS1:1OF1	p32173_1	07/09/2014	p32173_1.cpl	NO
037	wi01075355	ISS1:1OF1	p32594_1	07/09/2014	p32594_1.cpl	NO
038	wi01060382	iss1:1of1	p32623_1	07/09/2014	p32623_1.cpl	YES
039	wi01087543	ISS1:1OF1	p32662_1	07/09/2014	p32662_1.cpl	NO
040	wi01119100	ISS1:1OF1	p32925_1	07/09/2014	p32925_1.cpl	NO
041	wi01146804	ISS1:1OF1	p33132_1	07/09/2014	p33132_1.cpl	NO
042	wi01063263	ISS1:1OF1	p32573_1	07/09/2014	p32573_1.cpl	NO
043	wi01088775	ISS1:1OF1	p32659_1	07/09/2014	p32659_1.cpl	NO
044	wi01091447	ISS1:1OF1	p32675_1	07/09/2014	p32675_1.cpl	NO
045	wi01070465	iss1:1of1	p32562_1	07/09/2014	p32562_1.cpl	NO
046	wi01064599	iss1:1of1	p32580_1	07/09/2014	p32580_1.cpl	NO
047	wi01053597	ISS1:1OF1	p32304_1	07/09/2014	p32304_1.cpl	NO
048	wi01070468	iss1:1of1	p32418_1	07/09/2014	p32418_1.cpl	NO
049	wi01060241	ISS1:1OF1	p32381_1	07/09/2014	p32381_1.cpl	NO
050	wi01127527	ISS1:1OF1	p32988_1	07/09/2014	p32988_1.cpl	YES

051	wi01070580	ISS1:1OF1	p32380_1	07/09/2014	p32380_1.cpl	NO
052	wi01080963	ISS1:1OF1	p32626_1	07/09/2014	p32626_1.cpl	YES
053	wi00897254	ISS1:1OF1	p31127_1	07/09/2014	p31127_1.cpl	NO
054	wi01089519	ISS1:1OF1	p32665_1	07/09/2014	p32665_1.cpl	NO
055	wi01101385	ISS1:1OF1	p32773_1	07/09/2014	p32773_1.cpl	YES
056	wi01025156	ISS1:1OF1	p32136_1	07/09/2014	p32136_1.cpl	NO
057	wi01071379	ISS1:1OF1	p32522_1	07/09/2014	p32522_1.cpl	NO
058	wi01149017	ISS1:1OF1	p33145_1	07/09/2014	p33145_1.cpl	NO
059	wi01115894	ISS1:1OF1	p32910_1	07/09/2014	p32910_1.cpl	NO
060	wi01080753	ISS1:1OF1	p32518_1	07/09/2014	p32518_1.cpl	NO
061	wi01071659	ISS1:1OF1	p32589_1	07/09/2014	p32589_1.cpl	NO
062	wi01052428	ISS1:1OF1	p32606_1	07/09/2014	p32606_1.cpl	NO
063	wi01066991	ISS1:1OF1	p32449_1	07/09/2014	p32449_1.cpl	NO
064	wi01085855	ISS1:1OF1	p32658_1	07/09/2014	p32658_1.cpl	NO
065	wi01060826	ISS1:1OF1	p32379_1	07/09/2014	p32379_1.cpl	NO
066	wi01087528	ISS1:1OF1	p32700_1	07/09/2014	p32700_1.cpl	NO
067	wi01072027	ISS1:1OF1	p32689_1	07/09/2014	p32689_1.cpl	NO
068	wi01041453	ISS1:1OF1	p32587_1	07/09/2014	p32587_1.cpl	NO
069	wi01045058	ISS1:1OF1	p32214_1	07/09/2014	p32214_1.cpl	NO
070	wi01127874	ISS1:1OF1	p25747_1	07/09/2014	p25747_1.cpl	NO
071	wi01053314	ISS1:1OF1	p32555_1	07/09/2014	p32555_1.cpl	NO
072	wi00884716	ISS1:1OF1	p32517_1	07/09/2014	p32517_1.cpl	NO
073	wi01075360	iss1:1of1	p32602_1	07/09/2014	p32602_1.cpl	NO
074	wi01052968	ISS1:1OF1	p32540_1	07/09/2014	p32540_1.cpl	NO
075	wi01063864	ISS1:1OF1	p32410_1	07/09/2014	p32410_1.cpl	YES
076	wi01068851	ISS1:1OF1	p32439_1	07/09/2014	p32439_1.cpl	NO
077	wi01167427	ISS1:1OF1	p33264_1	07/09/2014	p33264_1.cpl	NO
078	wi01035980	ISS1:1OF1	p32558_1	07/09/2014	p32558_1.cpl	NO
079	wi01056633	ISS1:1OF1	p32322_1	07/09/2014	p32322_1.cpl	NO
080	wi01068922	ISS1:1OF1	p32454_1	07/09/2014	p32454_1.cpl	NO
081	wi01132902	ISS1:1OF1	p33028_1	07/09/2014	p33028_1.cpl	NO
082	wi01098905	ISS1:1OF1	p32556_1	07/09/2014	p32556_1.cpl	NO
083	wi01081510	ISS1:1OF1	p32582_1	07/09/2014	p32582_1.cpl	NO
084	wi00933195	ISS1:1OF1	p32491_1	07/09/2014	p32491_1.cpl	NO
085	wi01093071	ISS1:1OF1	p32701_1	07/09/2014	p32701_1.cpl	NO
086	wi01071996	ISS1:1OF1	p32461_1	07/09/2014	p32461_1.cpl	NO
087	wi01088797	ISS1:1OF1	p32844_1	07/09/2014	p32844_1.cpl	NO
088	wi01136640	ISS1:1OF1	p33052_1	07/09/2014	p33052_1.cpl	NO
089	wi01089355	ISS1:1OF1	p32674_1	07/09/2014	p32674_1.cpl	YES
090	wi01068751	ISS1:1OF1	p32445_1	07/09/2014	p32445_1.cpl	NO
091	wi01072062	ISS1:1OF1	p32776_1	07/09/2014	p32776_1.cpl	NO
092	wi01098433	ISS1:1OF1	p32736_1	07/09/2014	p32736_1.cpl	NO
093	wi01096718	ISS1:1OF1	p33138_1	07/09/2014	p33138_1.cpl	YES
094	wi01138136	ISS1:1OF1	p33191_1	07/09/2014	p33191_1.cpl	NO
095	wi01090535	ISS1:1OF1	p32519_1	07/09/2014	p32519_1.cpl	NO
096	wi01075540	ISS1:1OF1	p32492_1	07/09/2014	p32492_1.cpl	NO
097	wi01115807	ISS1:1OF1	p32895_1	07/09/2014	p32895_1.cpl	YES
098	wi01123389	ISS1:1OF1	p33045_1	07/09/2014	p33045_1.cpl	NO
099	WI11032038	ISS1:1OF1	p33022_1	07/09/2014	p33022_1.cpl	NO
100	wi01099292	ISS1:1OF1	p32886_1	07/09/2014	p32886_1.cpl	NO
101	wi01102296	ISS1:1OF1	p32780_1	07/09/2014	p32780_1.cpl	NO
102	wi01109345	ISS1:1OF1	p32830_1	07/09/2014	p32830_1.cpl	NO
103	wi01111194	ISS1:1OF1	p32821_1	07/09/2014	p32821_1.cpl	NO
104	wi01088055	ISS1:1OF1	p32607_1	07/09/2014	p32607_1.cpl	NO
105	wi01105888	ISS1:1OF1	p32794_1	07/09/2014	p32794_1.cpl	NO
106	wi01102093	ISS1:1OF1	p32760_1	07/09/2014	p32760_1.cpl	NO
107	wi01114038	ISS1:1OF1	p32869_1	07/09/2014	p32869_1.cpl	NO
108	wi01077639	ISS1:1OF1	p32883_1	07/09/2014	p32883_1.cpl	NO
109	wi01092443	ISS1:1OF1	p32676_1	07/09/2014	p32676_1.cpl	NO
110	wi01075149	ISS1:1OF1	p32475_1	07/09/2014	p32475_1.cpl	NO
111	wi01075538	ISS1:1OF1	p32469_1	07/09/2014	p32469_1.cpl	NO

112	wi01134354	ISS1:1OF1	p33031_1	07/09/2014	p33031_1.cpl	NO
113	wi01096712	ISS1:1OF1	p32708_1	07/09/2014	p32708_1.cpl	NO
114	wi01104867	ISS1:1OF1	p32828_1	07/09/2014	p32828_1.cpl	NO
115	wi01000087	ISS1:1OF1	p32014_1	07/09/2014	p32014_1.cpl	NO
116	wi01102475	ISS1:1OF1	p32782_1	07/09/2014	p32782_1.cpl	YES
117	wi01051200	ISS1:1OF1	p32290_1	07/09/2014	p32290_1.cpl	NO
118	wi01101876	ISS1:1OF1	p32858_1	07/09/2014	p32858_1.cpl	NO
119	wi01099810	ISS1:1OF1	p32796_1	07/09/2014	p32796_1.cpl	NO
120	wi01104627	ISS1:1OF1	p32819_1	07/09/2014	p32819_1.cpl	NO
121	wi01082824	ISS1:1OF1	p32467_1	07/09/2014	p32467_1.cpl	NO
122	wi01146543	ISS1:1OF1	p33097_1	07/09/2014	p33097_1.cpl	NO
123	wi01097598	ISS1:1OF1	p32797_1	07/09/2014	p32797_1.cpl	NO
124	wi01142525	ISS1:1OF1	p33096_1	07/09/2014	p33096_1.cpl	NO
125	wi01070279	ISS1:1OF1	p32262_1	07/09/2014	p32262_1.cpl	NO
126	wi01112655	ISS1:1OF1	p32870_1	07/09/2014	p32870_1.cpl	NO
127	wi01099724	ISS1:1OF1	p32742_1	07/09/2014	p32742_1.cpl	YES
128	wi01104410	ISS1:1OF1	p32801_1	07/09/2014	p32801_1.cpl	NO
129	wi01096967	ISS1:1OF1	p32735_1	07/09/2014	p32735_1.cpl	NO
130	wi01096907	ISS1:1OF1	p32733_1	07/09/2014	p32733_1.cpl	NO
131	wi01094727	ISS1:1OF1	p32848_1	07/09/2014	p32848_1.cpl	NO
132	wi01106658	ISS1:1OF1	p32812_1	07/09/2014	p32812_1.cpl	NO
133	wi01115450	ISS1:1OF1	p32888_1	07/09/2014	p32888_1.cpl	NO
134	wi01058378	ISS1:1OF1	p32344_1	07/09/2014	p32344_1.cpl	NO
135	wi01021522	ISS1:1OF1	p32863_1	07/09/2014	p32863_1.cpl	NO
136	wi01083036	ISS1:1OF1	p32571_1	07/09/2014	p32571_1.cpl	NO
137	wi01132222	ISS1:1OF1	p33023_1	07/09/2014	p33023_1.cpl	NO
138	wi01060611	ISS1:1OF1	p32809_1	07/09/2014	p32809_1.cpl	NO
139	wi01073725	ISS1:1OF1	p32552_1	07/09/2014	p32552_1.cpl	NO
140	wi01147091	ISS1:1OF1	p33137_1	07/09/2014	p33137_1.cpl	NO
141	wi01113374	ISS1:1OF1	p32874_1	07/09/2014	p32874_1.cpl	NO
142	wi01088915	ISS1:1OF1	p32638_1	07/09/2014	p32638_1.cpl	NO
143	wi01079444	ISS1:1OF1	p32564_1	07/09/2014	p32564_1.cpl	NO
144	wi01096842	ISS1:1OF1	p32731_1	07/09/2014	p32731_1.cpl	NO
145	wi01065115	ISS1:1OF1	p32523_1	07/09/2014	p32523_1.cpl	NO
146	wi01070585	ISS1:1OF1	p32383_1	07/09/2014	p32383_1.cpl	NO
147	wi01096910	ISS1:1OF1	p32734_1	07/09/2014	p32734_1.cpl	NO
148	wi01071296	ISS1:1OF1	p32836_1	07/09/2014	p32836_1.cpl	NO
149	wi01159931	ISS1:1OF1	p33231_1	07/09/2014	p33231_1.cpl	YES
150	wi01095462	ISS1:1OF1	p32723_1	07/09/2014	p32723_1.cpl	NO
151	wi01098783	ISS1:1OF1	p32748_1	07/09/2014	p32748_1.cpl	NO
152	wi01102091	ISS1:1OF1	p32744_1	07/09/2014	p32744_1.cpl	YES
153	wi01118819	ISS1:1OF1	p32954_1	07/09/2014	p32954_1.cpl	NO
154	WI01121737	ISS1:1OF1	p32939_1	07/09/2014	p32939_1.cpl	NO
155	wi01094832	iss1:1of1	p32718_1	07/09/2014	p32718_1.cpl	NO
156	wi01093118	ISS1:1OF1	p32496_1	07/09/2014	p32496_1.cpl	NO
157	wi01099300	iss1:1of1	p32704_1	07/09/2014	p32704_1.cpl	NO
158	wi01100508	ISS1:1OF1	p32761_1	07/09/2014	p32761_1.cpl	NO
159	wi01099606	iss1:1of1	p32713_1	07/09/2014	p32713_1.cpl	NO
160	wi01163362	ISS1:1OF1	p33224_1	07/09/2014	p33224_1.cpl	YES
161	wi01078721	ISS1:1OF1	p32553_1	07/09/2014	p32553_1.cpl	NO
162	wi01076948	ISS1:1OF1	p32526_1	07/09/2014	p32526_1.cpl	YES
163	wi01122174	ISS1:1OF1	p32936_1	07/09/2014	p32936_1.cpl	NO
164	wi01108828	ISS1:1OF1	p32831_1	07/09/2014	p32831_1.cpl	NO
165	wi01115369	ISS1:1OF1	p32889_1	07/09/2014	p32889_1.cpl	NO
166	wi01022598	ISS1:1OF1	p32066_1	07/09/2014	p32066_1.cpl	NO
167	wi00937672	ISS1:1OF1	p31276_1	07/09/2014	p31276_1.cpl	NO
168	wi01108262	ISS1:1OF1	p32865_1	07/09/2014	p32865_1.cpl	YES
169	wi01065248	ISS1:1OF1	p32412_1	07/09/2014	p32412_1.cpl	NO
170	wi01120458	ISS1:1OF1	p32929_1	07/09/2014	p32929_1.cpl	NO
171	wi01157590	ISS1:1OF1	p33252_1	07/09/2014	p33252_1.cpl	NO
172	wi01130836	ISS1:1OF1	p33008_1	07/09/2014	p33008_1.cpl	YES

173	wi01137737	ISS1:1OF1	p33055_1	07/09/2014	p33055_1.cpl	NO
174	wi01133985	ISS1:1OF1	p33049_1	07/09/2014	p33049_1.cpl	NO
175	wi01119086	ISS1:1OF1	p32917_1	07/09/2014	p32917_1.cpl	NO
176	wi01137003	ISS1:1OF1	p33053_1	07/09/2014	p33053_1.cpl	NO
177	wi01132244	ISS1:1OF1	p33041_1	07/09/2014	p33041_1.cpl	NO
178	wi01132883	ISS1:1OF1	p33030_1	07/09/2014	p33030_1.cpl	NO
179	wi01128596	ISS1:1OF1	p33000_1	07/09/2014	p33000_1.cpl	NO
180	wi01126454	ISS1:1OF1	p32973_1	07/09/2014	p32973_1.cpl	NO
181	wi01154253	ISS1:1OF1	p33206_1	07/09/2014	p33206_1.cpl	NO
182	wi01134952	ISS1:1OF1	p33039_1	07/09/2014	p33039_1.cpl	NO
183	wi01129028	ISS1:1OF1	p33016_1	07/09/2014	p33016_1.cpl	NO
184	wi01142792	ISS1:1OF1	p33099_1	07/09/2014	p33099_1.cpl	NO
185	wi01159009	ISS1:1OF1	p33098_1	07/09/2014	p33098_1.cpl	YES
186	wi01124074	ISS1:1OF1	p32989_1	07/09/2014	p32989_1.cpl	NO
187	wi01134602	ISS1:1OF1	p32398_1	07/09/2014	p32398_1.cpl	NO
188	wi01126552	ISS1:1OF1	p32975_1	07/09/2014	p32975_1.cpl	NO
189	wi01119863	ISS1:1OF1	p32923_1	07/09/2014	p32923_1.cpl	NO
190	wi01133960	ISS1:1OF1	p33034_1	07/09/2014	p33034_1.cpl	NO
191	wi01151870	ISS1:1OF1	p33162_1	07/09/2014	p33162_1.cpl	YES
192	wi01095255	ISS1:1OF1	p33027_1	07/09/2014	p33027_1.cpl	NO
193	wi01113712	ISS1:1OF1	p32877_1	07/09/2014	p32877_1.cpl	NO
194	wi01083896	ISS1:1OF1	p32937_1	07/09/2014	p32937_1.cpl	NO
195	wi01130815	ISS1:1OF1	p33017_1	07/09/2014	p33017_1.cpl	NO
196	wi01120705	ISS1:1OF1	p32930_1	07/09/2014	p32930_1.cpl	NO
197	wi01127640	ISS1:1OF1	p32992_1	07/09/2014	p32992_1.cpl	NO
198	wi01118320	ISS1:1OF1	p32753_1	07/09/2014	p32753_1.cpl	NO
199	wi01110593	ISS1:1OF1	p32849_1	07/09/2014	p32849_1.cpl	NO
200	wi01053950	ISS1:1OF1	p32654_1	07/09/2014	p32654_1.cpl	YES
201	wi01170424	ISS1:1OF1	p33260_1	07/09/2014	p33260_1.cpl	NO
202	wi01121374	ISS1:1OF1	p31107_1	07/09/2014	p31107_1.cpl	NO
203	wi01156999	ISS1:1OF1	p33180_1	07/09/2014	p33180_1.cpl	NO
204	wi01129098	ISS1:1OF1	p32951_1	07/09/2014	p32951_1.cpl	NO
205	wi01114695	ISS1:1OF1	p32885_1	07/09/2014	p32885_1.cpl	NO
206	wi01125238	ISS1:1OF1	p32971_1	07/09/2014	p32971_1.cpl	NO
207	wi01120406	ISS1:1OF1	p32956_1	07/09/2014	p32956_1.cpl	NO
208	wi01119312	ISS1:1OF1	p32919_1	07/09/2014	p32919_1.cpl	NO
209	wi01132204	ISS1:1OF1	p32501_1	07/09/2014	p32501_1.cpl	NO
210	wi01133106	ISS1:1OF1	p33032_1	07/09/2014	p33032_1.cpl	NO
211	WI01108562	ISS1:1OF1	p32832_1	07/09/2014	p32832_1.cpl	NO
212	wi01107601	ISS1:1OF1	p32970_1	07/09/2014	p32970_1.cpl	NO
213	wi01166065	ISS1:1OF1	p33241_1	07/09/2014	p33241_1.cpl	NO
214	wi01130348	ISS1:1OF1	p33014_1	07/09/2014	p33014_1.cpl	NO
215	wi01128512	ISS1:1OF1	p32997_1	07/09/2014	p32997_1.cpl	NO
216	wi01127447	ISS1:1OF1	p32990_1	07/09/2014	p32990_1.cpl	NO
217	wi01132599	ISS1:1OF1	p33025_1	07/09/2014	p33025_1.cpl	NO
218	wi01165881	ISS1:1OF1	p33239_1	07/09/2014	p33239_1.cpl	NO
219	wi01153104	ISS1:1OF1	p33174_1	07/09/2014	p33174_1.cpl	NO
220	wi01146254	ISS1:1OF1	p33127_1	07/09/2014	p33127_1.cpl	NO
221	wi01149384	ISS1:1OF1	p33147_1	07/09/2014	p33147_1.cpl	NO
222	wi01146766	ISS1:1OF1	p33131_1	07/09/2014	p33131_1.cpl	NO
223	wi01152195	ISS1:1OF1	p33163_1	07/09/2014	p33163_1.cpl	YES
224	wi01045144	ISS1:1OF1	p33202_1	07/09/2014	p33202_1.cpl	NO
225	wi01119736	ISS1:1OF1	p33094_1	07/09/2014	p33094_1.cpl	NO
226	wi01145002	ISS1:1OF1	p33186_1	07/09/2014	p33186_1.cpl	NO
227	wi01160967	ISS1:1OF1	p33213_1	07/09/2014	p33213_1.cpl	NO
228	wi01153039	ISS1:1OF1	p17588_1	07/09/2014	p17588_1.cpl	NO
229	wi01139981	ISS1:1OF1	p33083_1	07/09/2014	p33083_1.cpl	NO
230	wi01150802	ISS1:1OF1	p33156_1	07/09/2014	p33156_1.cpl	NO
231	wi01134799	ISS1:1OF1	p33069_1	07/09/2014	p33069_1.cpl	NO
232	wi01097786	ISS1:1OF1	p33086_1	07/09/2014	p33086_1.cpl	NO
233	wi01153844	ISS1:1OF1	p33172_1	07/09/2014	p33172_1.cpl	NO

234	wi01154485	ISS1:1OF1	p33194_1	07/09/2014	p33194_1.cpl	NO
235	wi01147983	ISS1:1OF1	p33141_1	07/09/2014	p33141_1.cpl	NO
236	wi01144066	ISS1:1OF1	p33114_1	07/09/2014	p33114_1.cpl	NO
237	wi01163048	ISS1:1OF1	p33223_1	07/09/2014	p33223_1.cpl	YES
238	wi01156086	ISS1:1OF1	p33269_1	07/09/2014	p33269_1.cpl	NO
239	wi01138714	ISS2:1OF1	p33065_2	07/09/2014	p33065_2.cpl	NO
240	wi01150083	ISS1:1OF1	p33152_1	07/09/2014	p33152_1.cpl	NO
241	wi01136194	ISS:1OF1	p33051_1	07/09/2014	p33051_1.cpl	NO
242	WI01154952	ISS1:1OF1	p33184_1	07/09/2014	p33184_1.cpl	NO
243	wi01144609	ISS1:1OF1	p33119_1	07/09/2014	p33119_1.cpl	NO
244	wi01155909	ISS1:1OF1	p33192_1	07/09/2014	p33192_1.cpl	NO
245	wi01164281	ISS1:1OF1	p33232_1	07/09/2014	p33232_1.cpl	NO
246	wi01144354	ISS1:1OF1	p33117_1	07/09/2014	p33117_1.cpl	NO
247	wi01150596	ISS1:1OF1	p33154_1	07/09/2014	p33154_1.cpl	NO
248	wi01150771	ISS1:1OF1	p33210_1	07/09/2014	p33210_1.cpl	NO
249	wi01137694	ISS1:1OF1	p33081_1	07/09/2014	p33081_1.cpl	NO
250	wi01143987	ISS1:1OF1	p33134_1	07/09/2014	p33134_1.cpl	NO
251	wi01165461	ISS1:1OF1	p33237_1	07/09/2014	p33237_1.cpl	NO
252	wi01151898	ISS1:1OF1	p33175_1	07/09/2014	p33175_1.cpl	NO
253	wi01146289	ISS1:1OF1	p33146_1	07/09/2014	p33146_1.cpl	NO
254	wi01136429	ISS1:1OF1	p33037_1	07/09/2014	p33037_1.cpl	NO
255	wi01163826	ISS1:1OF1	p33229_1	07/09/2014	p33229_1.cpl	NO
256	wi01134211	ISS1:1OF1	p33077_1	07/09/2014	p33077_1.cpl	NO
257	wi01153896	ISS1:1OF1	p33185_1	07/09/2014	p33185_1.cpl	NO
258	wi01068011	ISS1:1OF1	p33182_1	07/09/2014	p33182_1.cpl	NO
259	wi01165870	ISS1:1OF1	p33238_1	07/09/2014	p33238_1.cpl	NO
260	wi01171467	ISS1:1OF1	p33270_1	07/09/2014	p33270_1.cpl	NO
261	wi01142100	ISS1:1OF1	p33090_1	07/09/2014	p33090_1.cpl	NO
MDP>LAST SUCCESSFUL MDP REFRESH :2014-08-01 17:31:18(Local Time)						
MDP>USING DEPLIST ZIP FILE DOWNLOADED :2014-08-01 10:33:51(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
      OVLN 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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