



Avaya Solution & Interoperability Test Lab

Application Notes for configuring Etrali Trading Solutions Open Trade with Avaya Communication Server 1000E R7.5 and Avaya Aura® Session Manager R6.1 - 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 1000E R7.5 and Avaya Aura® Session Manager R6.1.

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 1000E R7.5 and Avaya Aura® Session Manager R6.1. 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 Avaya Communication Server 1000E R7.5 (CS1000E) using SIP trunks between Open Trade and Avaya Aura® Session Manager R6.1. Session Manager directs the call over SIP trunks to a specific IP address depending on the digits dialled using SIP signalling. Compliance testing involved making calls to and from extensions on the Open Trade SIP server.

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 call 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).
- **Failover/Service** – Tests the behaviour of Open Trade when there are certain failed conditions.

2.2. Test Results

All tests outlined in the Test Plan document passed successfully. Below are listed observations following the compliance test of this solution.

1. A system configuration change was required on the CS1000E SIP Gateway, the domain name was replaced with the IP address of the Session Manager and this was to facilitate Etrali Trading Solutions who did not support the setup using a domain name. Note this change is documented in **Section 6** of these Application Notes and it is a system wide change on the CS1000E SIP Gateway that is required specifically for this setup with Etrali Open Trade. This may affect other systems connecting to the CS1000E SIP Gateway
2. Open Trade is unable to propagate updates to the display name during 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.
3. As Open Trade do not support SIP UPDATE, the CS1000E default configuration will not allow a blind transfer to be executed. With the installation of plugin 501 on the CS1000E, the blind transfer will be allowed and the call will be completed. The limitation of this plugin is that no ringback 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.
4. After the Open Trade handset is placed on hold and retrieved, the CLID is replaced by the trunk number.
5. When there is a conference created by the Open Trade set “Conference” is not shown on any of the phone sets.
6. Using Aura® Messaging as voicemail is currently not supported.

2.3. Support

For more information on Etrali Trading Solutions Open Trade and product support visit <http://www.etrali.com/> Telephone support for Open Trade is available at:

3. Reference Configuration

The configuration in **Figure 1** will be used to compliance test Open Trade with CS1000E using SIP signalling over SIP trunks to pass calls from the CS1000E to the Open Trade server. The calls are routed via Session Manager.

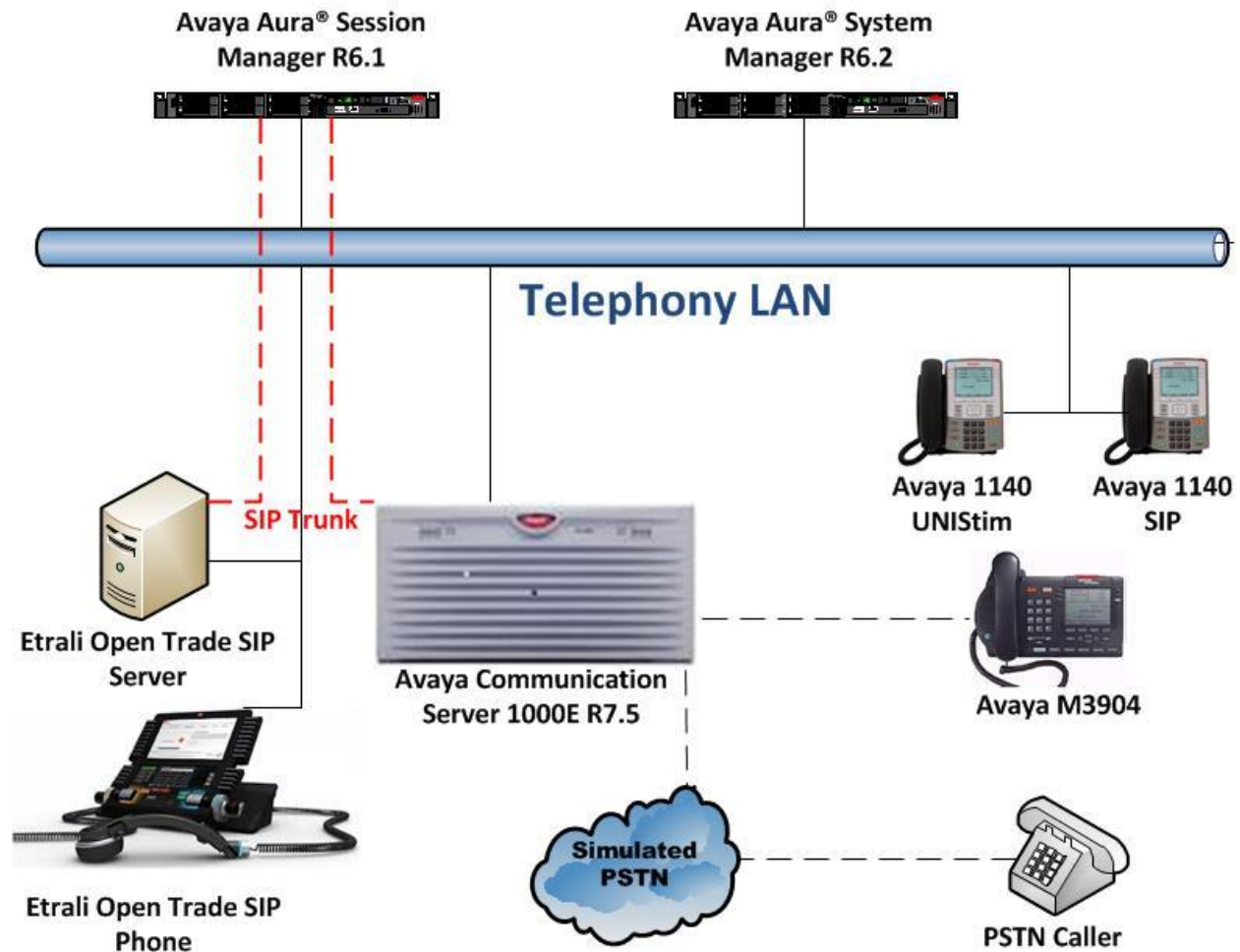


Figure 1: Connection of Etrali Trading Solutions Open Trade with Avaya Communication Server 1000E R7.5, Avaya Aura® Session Manager R6.1

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	R7.5 (See Appendix A for list of patches)
Avaya Aura® System Manager	System Manager 6.2.0 SP4 Build No. - 6.2.0.0.15669-6.2.12.408 Software Update Revision No: 6.2.16.1.1993
Avaya Aura® Session Manager	Session Manager R6.1 SP7 SM 6.1.7.0.617012
Avaya Aura Messaging	R6.1
Avaya 1140 UNISTim Deskphone	UNISTim V0625C8D
Avaya 1140 SIP Deskphone	SIP 04.03.12
Etrali Trading Solutions Open Trade Terminal	4.1.x
Etrali Trading Solutions Plug-in Unit	4.1.x

5. Configuration of Avaya Communication Server 1000E

The configuration operations illustrated in this section were performed using terminal access to the CS1000E using PuTTY. It is assumed a fully working CS1000E is in place with the necessary licensing. For all other provisioning information, such as Administering Avaya CS1000E, refer to product documentation in **Section 11** 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 66 (i.e. **DCH 66**) 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 that the following are set:

- **VTRK** is set to **YES**.
- **PCID** is set to **SIP**.
- **Node** is set to the correct system number (note this will be set during the installation if the CS1000E).
- **ISDN** is set to **YES**
- **MODE** is set to **ISDL**
- **IFC** is set to **SL1**

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	200	Node setup during the installation 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.

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**. Ensure that **TYPE** is set to **RLI** and enter a new RLI number (usually keep this the same as the route number for convenience). In the example below both **RLI** and **ROUT** are set to **22**.

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 Trio Enterprise. 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

6. Configure Avaya Communication Server 1000E SIP Gateway

Access to the CS1000E SIP Gateway is done through System Manager using a web browser by entering **http://<FQDN>/SMGR**, where <FQDN> is the fully qualified domain name of System Manager or **http://<IP Address>/SMGR**. Log in using appropriate credentials.

System Manager - Windows Internet Explorer provided by Avaya IT

https://192.168.50.8/network-login/

File Edit View Favorites Tools Help

Customize Links Free Hotmail Windows Windows Marketplace Windows Media To Be Reviewed SSO

System Manager

AVAYA Avaya Aura® System Manager 6.2

Home / Log On

Log On

Recommended access to System Manager is via FQDN.

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

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

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

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

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

User ID:

Password:

Log On Cancel

[Change Password](#)

Once logged in click on **UCM Services** as highlighted.

UCM Roles
Manage UCM Roles, assign roles to users

User Management
Manage users, shared user resources and provision users

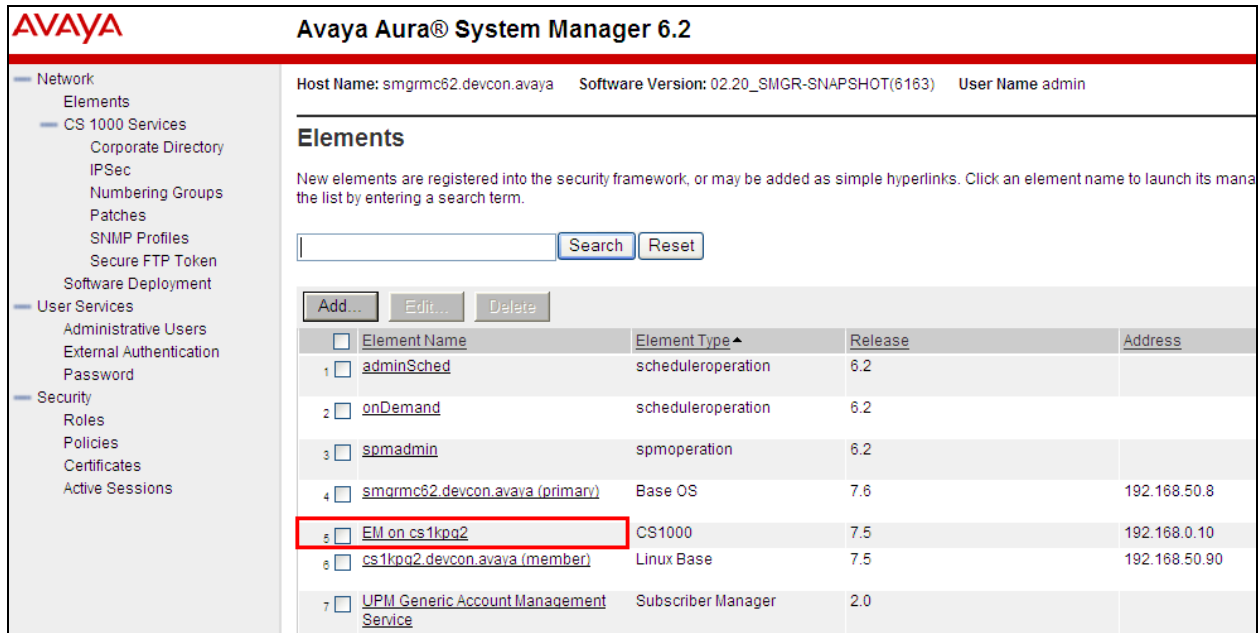
Server objects

- Inventory**
Manage, discover, and navigate to elements, update element software
- Meeting Exchange**
Manage Meeting Exchange and Avaya Aura Conferencing 6.0 elements
- Messaging**
Manage Avaya Aura Messaging, Communication Manager Messaging, and Modular Messaging
- Presence**
Presence
- Routing**
Network Routing Policy
- Session Manager**
Session Manager Element Manager
- SIP AS 8.1**
SIP AS 8.1

Manage system wide configurations

- Events**
Manage alarms, view and harvest logs
- Licenses**
View and configure licenses
- Replication**
Track data replication nodes, repair replication nodes
- Scheduler**
Schedule, track, cancel, update and delete jobs
- Security**
Manage Security Certificates
- Templates**
Manage Templates for Communication Manager, Messaging System and B5800 Branch Gateway elements
- UCM Services**
Manage UCM applications and navigation such as CS1000 deployment, patching, ISSS and SNMP

The following screen appears showing the various **Elements**, select **EM_on_cs1kpg2** (note this name may appear different depending on the system).



Avaya Aura® System Manager 6.2

Host Name: smgrmc62.devcon.avaya Software Version: 02.20_SMGR-SNAPSHOT(6163) User Name admin

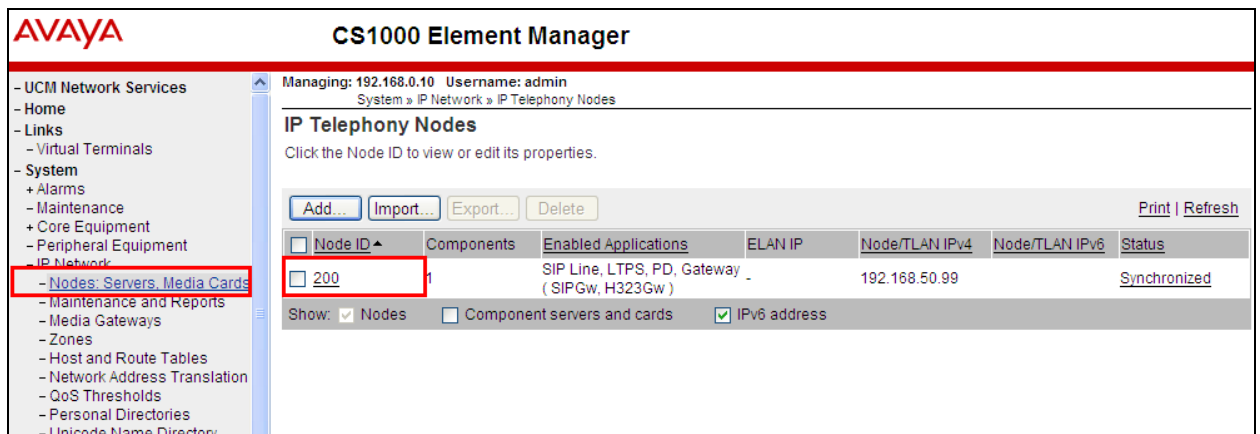
Elements

New elements are registered into the security framework, or may be added as simple hyperlinks. Click an element name to launch its management page by entering a search term.

Search:

	<input type="checkbox"/> Element Name	Element Type	Release	Address
1	<input type="checkbox"/> adminSched	scheduleroperation	6.2	
2	<input type="checkbox"/> onDemand	scheduleroperation	6.2	
3	<input type="checkbox"/> spmadmin	spmoperation	6.2	
4	<input type="checkbox"/> smgrmc62.devcon.avaya (primary)	Base OS	7.6	192.168.50.8
5	<input type="checkbox"/> EM on cs1kpg2	CS1000	7.5	192.168.0.10
6	<input type="checkbox"/> cs1kpg2.devcon.avaya (member)	Linux Base	7.5	192.168.50.90
7	<input type="checkbox"/> UPIM Generic Account Management Service	Subscriber Manager	2.0	

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 **200**. Open this node by clicking on **200** highlighted below.



AVAYA CS1000 Element Manager

Managing: 192.168.0.10 Username: admin
System » IP Network » IP Telephony Nodes

IP Telephony Nodes

Click the Node ID to view or edit its properties.

<input type="checkbox"/> Node ID	Components	Enabled Applications	ELAN IP	Node/TLAN IPv4	Node/TLAN IPv6	Status
<input type="checkbox"/> 200	1	SIP Line, LTPS, PD, Gateway (SIPGw, H323Gw)		192.168.50.99		Synchronized

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

Select **Gateway (SIPGw)** highlighted.

AVAYA CS1000 Element Manager

Managing: 192.168.0.10 Username: admin
System » IP Network » IP Telephony Nodes » Node Details

Node Details (ID: 200 - SIP Line, LTPS, PD, Gateway (SIPGw, H323Gw))

Subnet mask: 255.255.255.0 * Subnet mask: 255.255.255.0 *
Node IPv6 address:

IP Telephony Node Properties

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

Applications (click to edit configuration)

- SIP Line
- Terminal Proxy Server (TPS)
- Gateway (SIPGw & H323Gw)**
- Personal Directories (PD)
- Presence Publisher
- IP Media Services

* Required Value. [Save] [Cancel]

Associated Signaling Servers & Cards

Server(s) with (hostname-ELAN IP-TLAN IP) not part of the CS1000 or CS1000-HS system where this Call Server belongs: (cs1kpg2-192.168.0.10-192.168.50.90)

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

Hostname	Type	Deployed Applications	ELAN IP	TLAN IPv4	Role
cs1kpg2	Signaling_Server	NONE	192.168.0.10	192.168.50.90	Leader

Show: ☐ IPv6 address

Enter the IP address of the Session Manager connecting to Open Trade. This is a system wide change on the CS1000E SIP Gateway that is required specifically for this setup with Etrali Open Trade and may affect other system connecting to the CS1000E SIP Gateway.

AVAYA CS1000 Element Manager

Managing: 192.168.0.10 Username: admin
System » IP Network » IP Telephony Nodes » Node Details » Virtual Trunk Gateway Configuration

Node ID: 200 - Virtual Trunk Gateway Configuration Details

General | SIP Gateway Settings | SIP Gateway Services | H.323 Gateway Settings

Vtrk gateway application: ☒ Enable gateway service on this node

General

Vtrk gateway application: SIPGw and H.323Gw

SIP domain name: 192.168.50.30

Local SIP port: 5060 * (1 - 65535)

Gateway endpoint name: CS1KPG2 *

Gateway password: *

H.323 ID: CS1KPG2 *

Application node ID: 200 * (0-9999)

Enable failsafe NRS: ☐

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]

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

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**, everything else can be left as default.

The screenshot shows the AVAYA CS1000 Element Manager interface. The left sidebar contains a navigation tree with categories like UCM Network Services, System, Interfaces, Customers, Routes and Trunks, and Dialing and Numbering Plans. The main content area is titled 'Node ID: 200 - Virtual Trunk Gateway Configuration Details'. It has tabs for General, SIP Gateway Settings, SIP Gateway Services, and H.323 Gateway Settings. The 'SIP Gateway Services' tab is active, showing the 'Proxy Or Redirect Server' section. Under 'Proxy Server Route 1', the 'Primary TLAN IP address' is set to '192.168.50.30', the 'Port' is '5060', and the 'Transport protocol' is 'TCP'. The 'Options' section has 'Support registration' unchecked and 'Primary CDS proxy' checked. A 'Save' button is at the bottom right.

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

This screenshot shows the same configuration page as the previous one, but for 'Proxy Server Route 2'. The 'Primary TLAN IP address' is '192.168.50.30', the 'Port' is '5060', and the 'Transport protocol' is 'TCP'. In the 'Options' section, 'Registration not supported' is checked and 'Primary CDS proxy' is unchecked. The 'CLID Presentation' section is visible below, with fields for 'Country code (CCC)' and 'Area code'. A 'Save' button is highlighted with a red box at the bottom right.

Click on **Save** again highlighted below.

AVAYA CS1000 Element Manager

Managing: 192.168.0.10 Username: admin
System » IP Network » IP Telephony Nodes » Node Details

Node Details (ID: 200 - SIP Line, LTPS, PD, Gateway (SIPGw, H323Gw))

Node ID: 200 * (0-9999)

Call server IP address: 192.168.0.10 * TLAN address type: ☒ IPv4 only
☐ IPv4 and IPv6

Embedded LAN (ELAN) **Telephony LAN (TLAN)**

Gateway IP address: 192.168.0.1 * Node IPv4 address: 192.168.50.99 *

Subnet mask: 255.255.255.0 * Subnet mask: 255.255.255.0 *

Node IPv6 address:

* Required Value. **Save** Cancel

Associated Signaling Servers & Cards

Server(s) with (hostname-ELAN IP-TLAN IP) not part of the CS1000 or CS1000-HS system where this Call Server belongs: (cs1kpg2-192.168.0.10-192.168.50.90)

Select to add Add Remove Make Leader Print | Refresh

<input type="checkbox"/> Hostname	Type	Deployed Applications	ELAN IP	TLAN IPv4	Role
<input type="checkbox"/> cs1kpg2	Signaling_Server	NONE	192.168.0.10	192.168.50.90	Leader

Select **Transfer Now** as shown below.

AVAYA CS1000 Element Manager

Managing: 192.168.40.101 Username: admin
System » IP Network » IP Telephony Nodes » Node Saved

Node Saved

Node ID: 111 has been saved on the call server.

The new configuration must also be transferred to associated servers and media cards.

Transfer Now... You will be given an option to select individual servers, or transfer to all.

Show Nodes You may initiate a transfer manually at a later time.

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**.

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 <200>)

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

Start Sync Cancel Restart Applications [Print](#) | [Refresh](#)

<input checked="" type="checkbox"/>	Hostname	Type	Applications	Synchronization Status
<input checked="" type="checkbox"/>	cs1kpg2	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, SNTP 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.

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 <200>)

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.)

Start Sync Cancel [Print](#) | [Refresh](#)

	Hostname	Type	Applications	Synchronization Status
	cs1kpg2	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 <200>)

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

Start Sync Cancel **Restart Applications** [Print](#) | [Refresh](#)

<input checked="" type="checkbox"/>	Hostname	Type	Applications	Synchronization Status
<input checked="" type="checkbox"/>	cs1kpg2	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, SNTP 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.

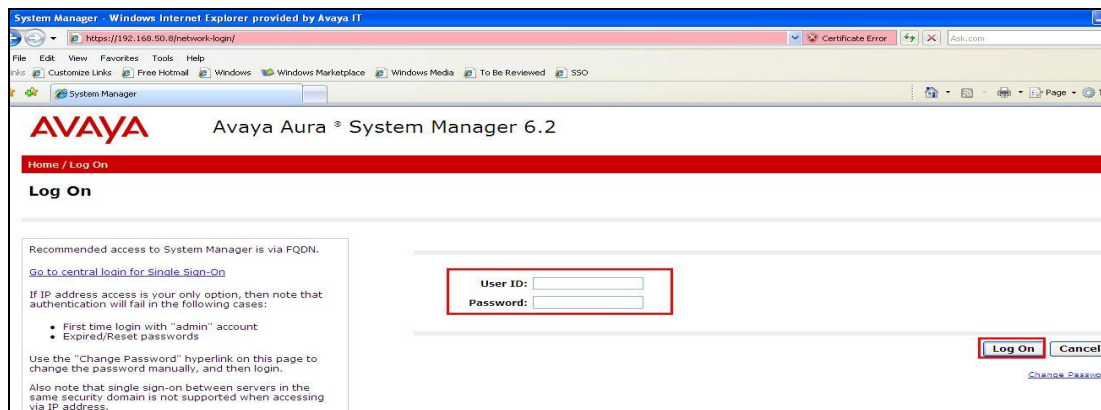
7. Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Session Manager. Session Manager is configured via System Manager. The procedures include the following areas:

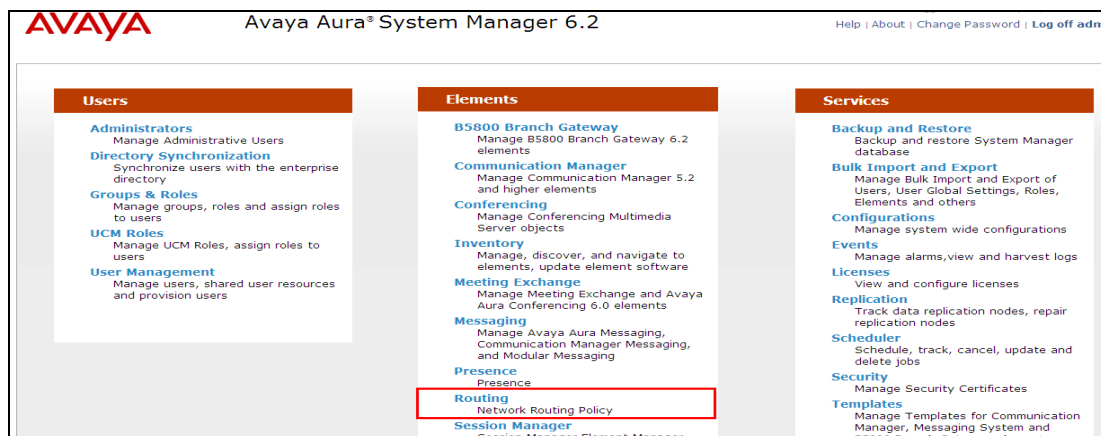
- Log in to Avaya Aura® Session Manager
- Configure SIP Domain
- Configure Location
- Configure Adaptation
- Configure SIP Entities
- Configure Entity Links
- Configure Routing Policies
- Configure Dial Patterns

7.1. Log in to Avaya Aura® System Manager

Access the System Manager is done using a web browser by entering **http://<FQDN>/SMGR**, where **<FQDN>** is the fully qualified domain name of System Manager or **http://<IP Address>/SMGR**. Log in using appropriate credentials.



Once logged in click on **Routing** as highlighted.



7.2. Configure SIP Domain

Click on **Domains** in the left window. If there is not a domain already configured click on **New** highlighted below

Avaya Aura® System Manager 6.2

Home / Elements / Routing / Domains

Domain Management

2 Items Refresh

Name	Type	Default	Notes
devcon.avaya	sip	<input type="checkbox"/>	
devconnect.local	sip	<input type="checkbox"/>	

Select : All, None

Enter the name of the telephony domain. The **Type** should be **sip**. Click on **Commit** once done.

Avaya Aura® System Manager 6.2

Home / Elements / Routing / Domains

Domain Management

Warning: SIP Domain name change will cause login failure for Communication Address handles with this domain. Consult release notes or Support for steps to reset login credentials.

1 Item Refresh

Name	Type	Default	Notes
* devcon.avaya	sip	<input type="checkbox"/>	

* Input Required

Commit Cancel

7.3. Configure Location

Select **Locations** from the left window and select **New** from the main window.

Avaya Aura® System Manager 6.2

Home / Elements / Routing / Locations

Location Management

1 Item Refresh

Name	Notes
DevconLAB	

Select : All, None

Enter a suitable name for the location and scroll down to the bottom of the page and click on **Add**. Enter the IP addresses associated with the location in the case there are two ranges **192.168.50.x** and **172.29.187.x** and once completed click on **Commit**.

AVAYA

Avaya Aura® System Manager 6.2

Last Logged on at January 15, 2014 12:07 PM
[Help](#) | [About](#) | [Change Password](#) | [Log off admin](#)

Routing

Domains

Locations

Adaptations

SIP Entities

Entity Links

Time Ranges

Routing Policies

Dial Patterns

Regular Expressions

Defaults

Home / Elements / Routing / Locations

Location Details

Commit

Cancel

[Help](#)

General

* Name:

DevconLAB

Notes:

Overall Managed Bandwidth

Managed Bandwidth Units:

Kbit/sec

Total Bandwidth:

Multimedia Bandwidth:

Audio Calls Can Take Multimedia Bandwidth: ☒

* Minimum Multimedia Bandwidth:

64

Kbit/Sec

* Default Audio Bandwidth:

80

Kbit/sec

Alarm Threshold

Overall Alarm Threshold:

80

 %

Multimedia Alarm Threshold:

80

 %

* Latency before Overall Alarm Trigger:

5

Minutes

* Latency before Multimedia Alarm Trigger:

5

Minutes

Location Pattern

Add

Remove

2 Items

<input type="checkbox"/>	IP Address Pattern	Notes
<input type="checkbox"/>	* 192.168.50.*	
<input type="checkbox"/>	* 172.29.187.*	

Select : All, None

Commit

Cancel

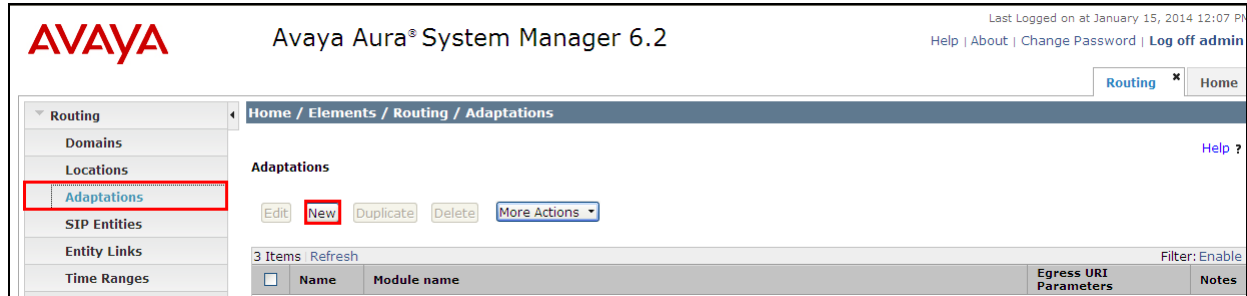
PG; Reviewed
SPOC 06/04/14

Solution & Interoperability Test Lab Application Notes
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17 of 55
EtraliOT_SM61

7.4. Configure Adaptation

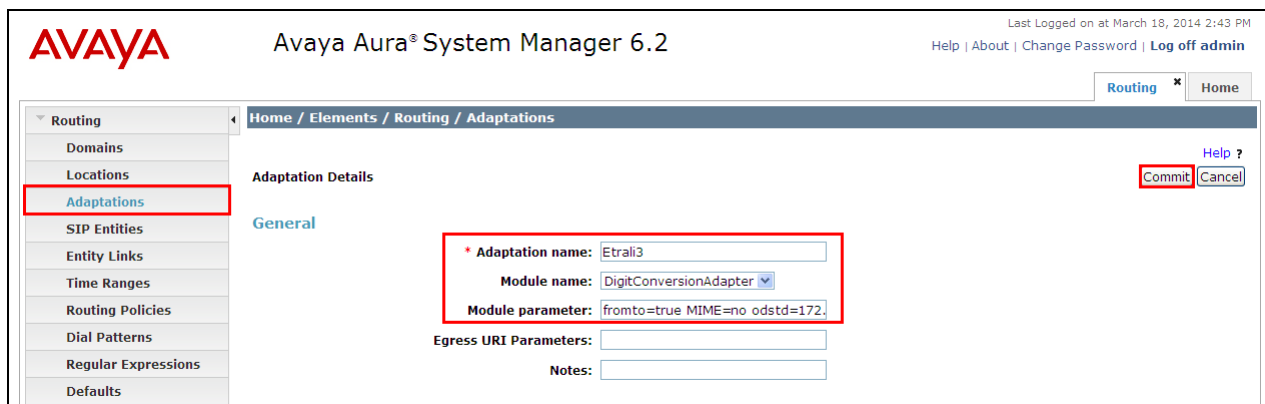
To configure a new Adaptation select **Adaptations** from the left window and click on **New** from the main window.



Enter a suitable **Name** and select **DigitConversionAdapter** for the **Module Name**. Select **Name-Value Parameter** as the **Module Parameter Type**. Add the following Parameters:

- Fromto = true
- Iodstd = "domain"
- Iosrcd = "domain"
- Odstd = "Open Trade, IP Address"
- Osrtd = "Session Manager IP Address"

Click on **Commit** once completed.



7.5. Configure SIP Entity for Etrali OpenTrade

Select **SIP Entities** from the left window and click on **New** in the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar has a menu with 'Routing' expanded, and 'SIP Entities' is highlighted with a red box. The main area shows the 'SIP Entities' page with a breadcrumb 'Home / Elements / Routing / SIP Entities'. There are buttons for 'Edit', 'New' (highlighted with a red box), 'Duplicate', 'Delete', and 'More Actions'. Below these is a table with 15 items. The table has columns: Name, FQDN or IP Address, Type, and Notes. The table is filtered by 'Enable'.

Name	FQDN or IP Address	Type	Notes
AAMessaging	192.168.50.60	Modular Messaging	
AMXServer	192.168.50.100	SIP Trunk	
CM63VMPG	10.10.40.31	CM	

Enter a suitable **Name** and ensure that the **Adaptation** that was created in **Section 7.4** is used. Enter the **Location** that was configured in **Section 7.2** and the correct **Time Zone**. Click on **Commit** once completed.

The screenshot shows the 'SIP Entity Details' page in Avaya Aura System Manager 6.2. The left sidebar has 'SIP Entities' highlighted with a red box. The main area shows the 'SIP Entity Details' page with a breadcrumb 'Home / Elements / Routing / SIP Entities'. There are buttons for 'Commit' (highlighted with a red box) and 'Cancel'. The 'General' tab is selected. The form fields are: Name (Etrali), FQDN or IP Address (172.29.187.244), Type (SIP Trunk), Notes (empty), Adaptation (Etrali3), Location (DevconLAB), Time Zone (Europe/Dublin), Override Port & Transport with DNS SRV (unchecked), SIP Timer B/F (in seconds) (4), and Credential name (empty).

Name: Etrali
FQDN or IP Address: 172.29.187.244
Type: SIP Trunk
Notes:
Adaptation: Etrali3
Location: DevconLAB
Time Zone: Europe/Dublin
Override Port & Transport with DNS SRV: ☐
SIP Timer B/F (in seconds): 4
Credential name:

7.6. Configure Entity Link for Etrali Open Trade

Select **Entity Link** from the left window and click on **New** in the main window.

Avaya Aura® System Manager 6.2

Home / Elements / Routing / Entity Links

Entity Links

Buttons: Edit, New, Duplicate, Delete, More Actions

Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy	Notes
AAMessaging	SessionManager	TCP	5060	AAMessaging	5060	Trusted	
AMXServer	SessionManager	UDP	5060	AMXServer	5060	Trusted	
CM63VMPPG	SessionManager	TLS	5061	CM63VMPPG	5061	Trusted	
CS1KPG1_TCP	SessionManager	TCP	5060	CS1KPG1	5060	Trusted	
DS3000	SessionManager	UDP	5060	DS3000	5060	Trusted	

Select the correct **SIP Entity** that was created in **Section 7.5** and ensure that **UDP** is used as the **Protocol**. Note the **Port** is **5060**.

Avaya Aura® System Manager 6.2

Home / Elements / Routing / Entity Links

Entity Links

Buttons: Commit, Cancel

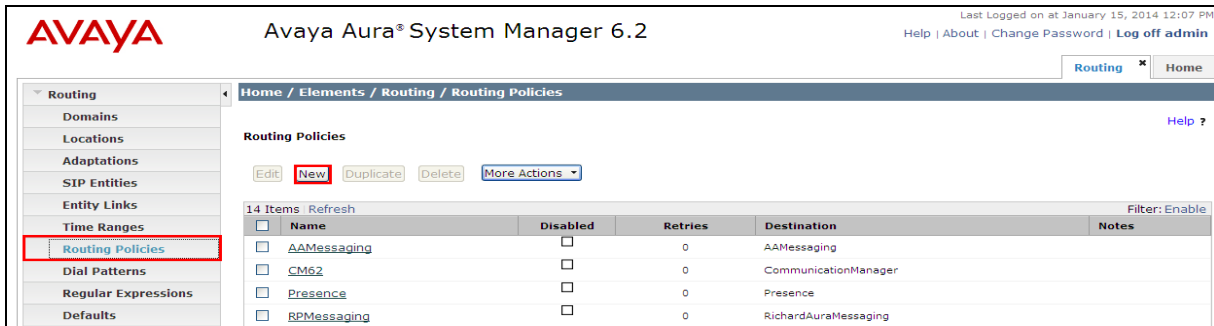
Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy	Notes
* SM61_Etrali_5060_UI	* SM61	UDP	* 5060	* Etrali	* 5060	Trusted	

* Input Required

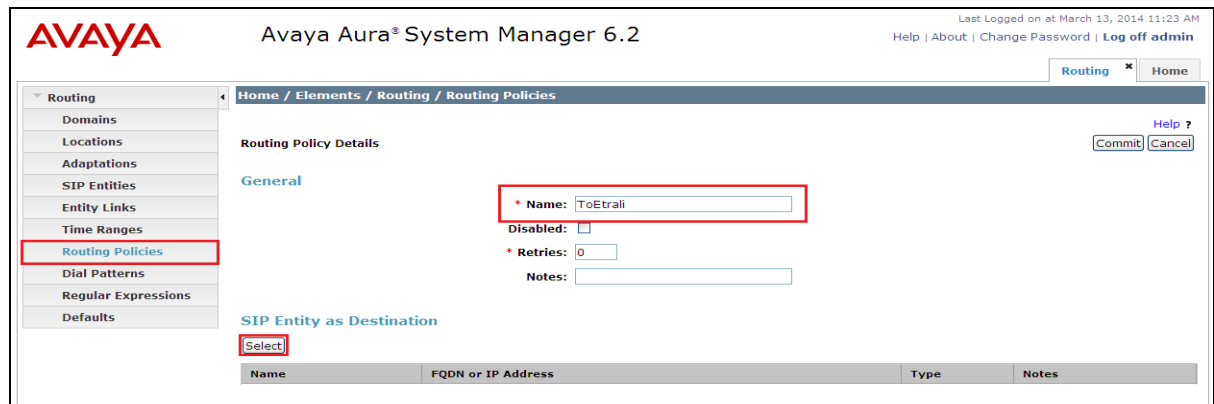
Buttons: Commit, Cancel

7.7. Configure Routing Policy for Etrali Open Trade

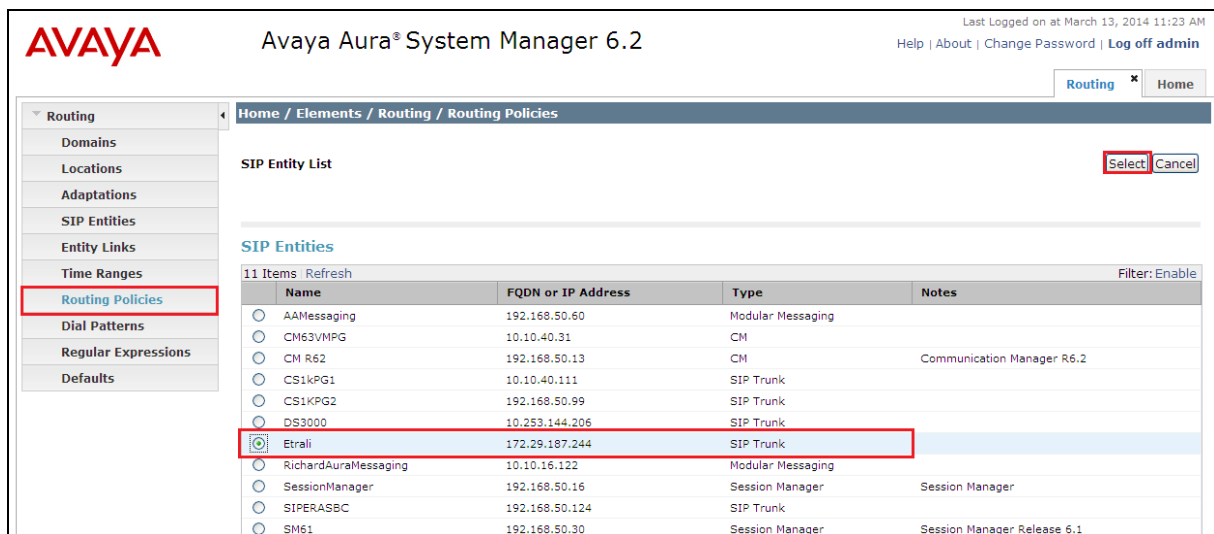
Select **Routing Policies** from the left window and click on **New** in the main window.



Enter a suitable **Name** and click on **Select** highlighted in order to associate this routing policy with a SIP Entity.



Select the **Etrali** SIP Entity created in **Section 7.5**.



7.8. Configure Dial Pattern for Etrali Open Trade

In order to route calls to the Open Trade a dial pattern is created pointing to the SIP Entity. Select **Dial Patterns** from the left window and click on **New** in the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar has a menu with 'Dial Patterns' highlighted. The main area shows a list of 17 items with columns: Pattern, Min, Max, Emergency Call, Emergency Type, Emergency Priority, SIP Domain, and Notes. The 'New' button is highlighted in the top toolbar.

Pattern	Min	Max	Emergency Call	Emergency Type	Emergency Priority	SIP Domain	Notes
20	4	4	<input type="checkbox"/>			devcon.avaya	
22252015	8	8	<input type="checkbox"/>			devcon.avaya	
2999	4	4	<input type="checkbox"/>			devcon.avaya	
30	4	4	<input type="checkbox"/>			-ALL-	

Enter the number to be routed noting this will be the same number outlined in **Section 5.3.2**. Note that the **SIP Domain** is that configured in **Section 7.2**. Click on **Add** to select the SIP Entity.

The screenshot shows the 'Dial Pattern Details' form in Avaya Aura System Manager 6.2. The 'General' tab is active. The 'Pattern' field is set to 51, 'Min' is 4, and 'Max' is 4. The 'Emergency Call' checkbox is unchecked. The 'Emergency Priority' is set to 1. The 'Emergency Type' is empty. The 'SIP Domain' dropdown is set to 'devcon.avaya'. The 'Notes' field is empty. The 'Add' button is highlighted in the 'Originating Locations and Routing Policies' section.

General

* Pattern: 51
* Min: 4
* Max: 4

Emergency Call: ☐
Emergency Priority: 1
Emergency Type:
SIP Domain: devcon.avaya
Notes:

Originating Locations and Routing Policies
Add Remove
1 Item Refresh

Tick on the **Originating Location** as shown below and select the **Etrali** Routing Policy. Click on **Select** once complete.

Time Ranges

Routing Policies

Dial Patterns

Regular Expressions

Defaults

☐ Apply The Selected Routing Policies to All Originating Locations

1 Item Refresh

<input checked="" type="checkbox"/>	Name	Notes
<input checked="" type="checkbox"/>	DevconLAB	

Select : All, None

Routing Policies

9 Items Refresh

<input type="checkbox"/>	Name	Disabled	Destination	Notes
<input type="checkbox"/>	AAmessaging	<input type="checkbox"/>	AAmessaging	
<input type="checkbox"/>	CM62	<input type="checkbox"/>	CM R62	
<input type="checkbox"/>	RPMessaging	<input type="checkbox"/>	RichardAuraMessaging	
<input type="checkbox"/>	ToCM63VMPPG	<input type="checkbox"/>	CM63VMPPG	
<input type="checkbox"/>	ToCS1KPG1	<input type="checkbox"/>	CS1kPG1	
<input type="checkbox"/>	ToCS1KPG2	<input type="checkbox"/>	CS1KPG2	
<input type="checkbox"/>	toDS3000	<input type="checkbox"/>	DS3000	
<input checked="" type="checkbox"/>	ToEtrali	<input type="checkbox"/>	Etrali	
<input type="checkbox"/>	ToSBC	<input type="checkbox"/>	SIPERASBC	

Select : All, None

7.9. Configure SIP Entity Avaya Communication Server 1000E

Select **SIP Entities** from the left window and click on **New** in the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar has a red box around 'SIP Entities'. The main area shows a table of SIP Entities with columns: Name, FQDN or IP Address, Type, and Notes. The table contains three entries: AAMessaging (192.168.50.60, Modular Messaging), AMXServer (192.168.50.100, SIP Trunk), and CM63VMPG (10.10.40.31, CM). A red box highlights the 'New' button in the top toolbar.

Name	FQDN or IP Address	Type	Notes
AAMessaging	192.168.50.60	Modular Messaging	
AMXServer	192.168.50.100	SIP Trunk	
CM63VMPG	10.10.40.31	CM	

Enter a suitable **Name** and ensure the **Location** that was configured in **Section 7.2** and the correct **Time Zone** is entered.

The screenshot shows the 'SIP Entity Details' form in Avaya Aura System Manager 6.2. The left sidebar has a red box around 'SIP Entities'. The form has a red box around the 'Name' field (CS1KPG2), 'FQDN or IP Address' field (192.168.50.99), and 'Type' dropdown (SIP Trunk). Another red box highlights the 'Location' dropdown (DevconLAB) and 'Time Zone' dropdown (Europe/Dublin). The 'Commit' button is also highlighted with a red box.

Name: CS1KPG2
FQDN or IP Address: 192.168.50.99
Type: SIP Trunk
Location: DevconLAB
Time Zone: Europe/Dublin

7.10. Configure Entity Link Avaya Communication Server 1000E

Select **Entity Link** from the left window and click on **New** in the main window.

Avaya Aura® System Manager 6.2

Home / Elements / Routing / Entity Links

Entity Links

Buttons: Edit, **New**, Duplicate, Delete, More Actions

14 Items Refresh

Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy	Notes
AA Messaging	SessionManager	TCP	5060	AA Messaging	5060	Trusted	
AMX Server	SessionManager	UDP	5060	AMX Server	5060	Trusted	
CM63VM PG	SessionManager	TLS	5061	CM63VM PG	5061	Trusted	
CS1KPG1 TCP	SessionManager	TCP	5060	CS1KPG1	5060	Trusted	
DS3000	SessionManager	UDP	5060	DS3000	5060	Trusted	

Select the correct **Sip Entity** that was created in **Section 7.9** and ensure that **TCP** is used as the **Protocol**. Note the **Port** is **5060**. This was also given as the **Port** and **Protocol** in **Section 6**.

Avaya Aura® System Manager 6.2

Home / Elements / Routing / Entity Links

Entity Links

Buttons: Commit, Cancel

1 Item Refresh

Name	SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy	Notes
* ToCS1KPG2	* SessionManager	TCP	* 5060	* CS1KPG2	* 5060	Trusted	

* Input Required

Buttons: **Commit**, Cancel

7.11. Configure Routing Policy Avaya Communication Server 1000E

Select **Routing Policies** from the left window and click on **New** in the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar has 'Routing Policies' highlighted. The main area shows the 'Routing Policies' list with 14 items. The 'New' button is highlighted in the top toolbar.

Name	Disabled	Retries	Destination	Notes
AA Messaging	<input type="checkbox"/>	0	AA Messaging	
CM62	<input type="checkbox"/>	0	CommunicationManager	
Presence	<input type="checkbox"/>	0	Presence	
RP Messaging	<input type="checkbox"/>	0	RichardAura Messaging	

Enter a suitable **Name** and click on **Select** highlighted in order to associate this routing policy with a SIP Entity. Select the **CS1000E** SIP Entity created in **Section 7.9** (shown below) and click on **Commit** when done.

The screenshot shows the 'Routing Policy Details' form. The 'Name' field is highlighted with a red box and contains the text 'ToCS1KPG2'. The 'Select' button under the 'SIP Entity as Destination' section is also highlighted with a red box.

Name: ToCS1KPG2

Disabled: ☐

Retries: 0

Notes:

SIP Entity as Destination: **Select**

Select the SIP Entity that was created in **Section 7.9**.

The screenshot shows the 'SIP Entity List' table. The 'Select' button is highlighted with a red box. The 'CS1KPG2' entity is highlighted with a red box in the table.

Name	FQDN or IP Address	Type	Notes
AA Messaging	192.168.50.60	Modular Messaging	
AMXServer	192.168.50.100	SIP Trunk	
CM63VMPG	10.10.40.31	CM	
CommunicationManager	192.168.50.13	CM	Communication Manager R6.2
CS1kPG1	10.10.40.111	SIP Trunk	
CS1KPG2	192.168.50.99	SIP Trunk	
DS3000	10.253.144.206	SIP Trunk	

7.12. Configure Dial Pattern for Avaya Communication Server 1000E

In order to route calls to the CS1000E a dial pattern is created pointing to the SIP Entity. Select **Dial Patterns** from the left window and click on **New** in the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left navigation pane has 'Dial Patterns' highlighted under the 'Routing' section. The main content area shows a table of 17 items. The table has columns: Pattern, Min, Max, Emergency Call, Emergency Type, Emergency Priority, SIP Domain, and Notes. The first four rows are visible, showing patterns 20, 22252015, 2999, and 30, all with a minimum of 4 and a maximum of 4, and an emergency call checkbox.

Pattern	Min	Max	Emergency Call	Emergency Type	Emergency Priority	SIP Domain	Notes
20	4	4	<input type="checkbox"/>			devcon.avaya	
22252015	8	8	<input type="checkbox"/>			devcon.avaya	
2999	4	4	<input type="checkbox"/>			devcon.avaya	
30	4	4	<input type="checkbox"/>			-ALL-	

Enter the number to be routed noting this will be extension numbers of the CS1000E deskphones, in this case **32xx**. Note the **SIP Domain** is that configured in **Section 7.2**. Click on **Add** to select the SIP Entity.

The screenshot shows the 'Dial Pattern Details' form in Avaya Aura System Manager 6.2. The 'General' tab is active. The form fields are: Pattern (32), Min (4), Max (4), Emergency Call (checkbox), Emergency Priority (1), Emergency Type (dropdown), SIP Domain (devcon.avaya), and Notes (text area). The 'Add' button is highlighted in the 'Originating Locations and Routing Policies' section.

*** Pattern:** 32
*** Min:** 4
*** Max:** 4

Emergency Call: ☐
Emergency Priority: 1
Emergency Type:
SIP Domain: devcon.avaya
Notes:

Originating Locations and Routing Policies
Add Remove
1 Item Refresh

Tick on the **Originating Location** as shown below and select the **CS1000E** Routing Policy.
Click on **Select** once complete.

AVAYA Avaya Aura® System Manager 6.2 Last Logged on at January 15, 2014 12:07 PM
[Help](#) | [About](#) | [Change Password](#) | [Log off admin](#)

Routing

Domains

Locations

Adaptations

SIP Entities

Entity Links

Time Ranges

Routing Policies

Dial Patterns

Regular Expressions

Defaults

Home / Elements / Routing / Dial Patterns

Originating Location and Routing Policy List

Select

Cancel

Originating Location

☐ Apply The Selected Routing Policies to All Originating Locations

1 Item Refresh

<input checked="" type="checkbox"/>	Name	Notes
<input checked="" type="checkbox"/>	DevconLAB	

Select : All, None

Routing Policies

14 Items Refresh

<input type="checkbox"/>	Name	Disabled	Destination	Notes
<input type="checkbox"/>	AAMessaging	<input type="checkbox"/>	AAMessaging	
<input checked="" type="checkbox"/>	ToCS1KPG2	<input type="checkbox"/>	CS1KPG2	

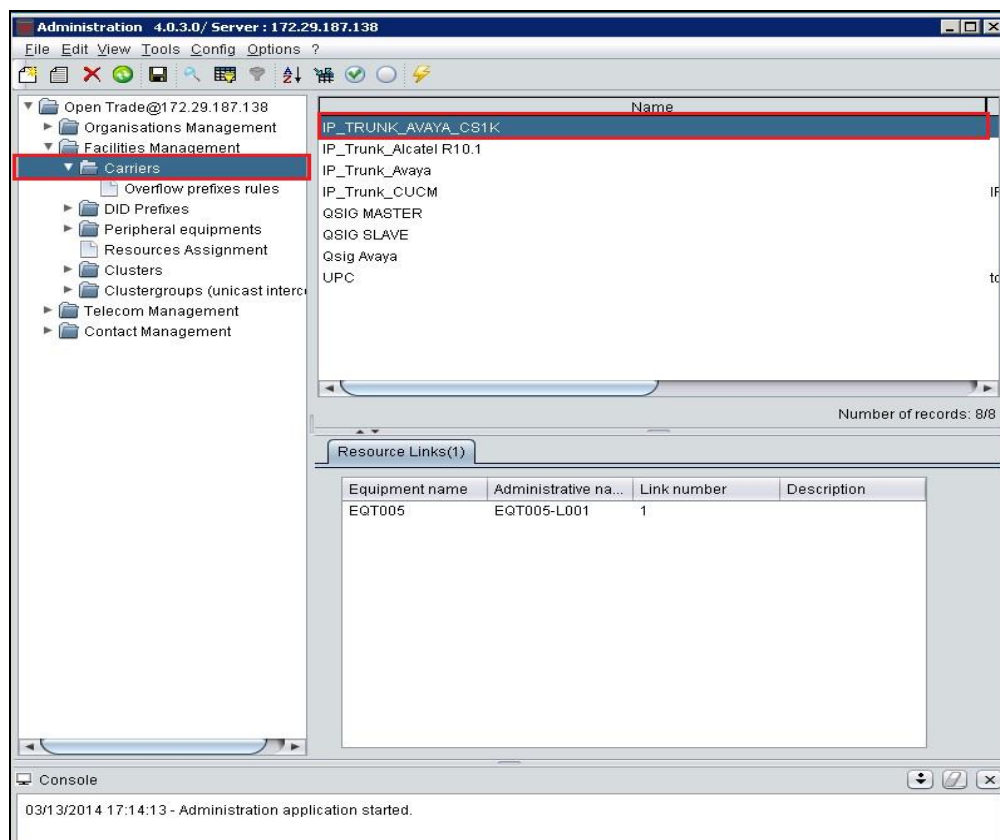
8. Configuration of Etrali Trading Solutions Open Trade

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



8.1. 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.

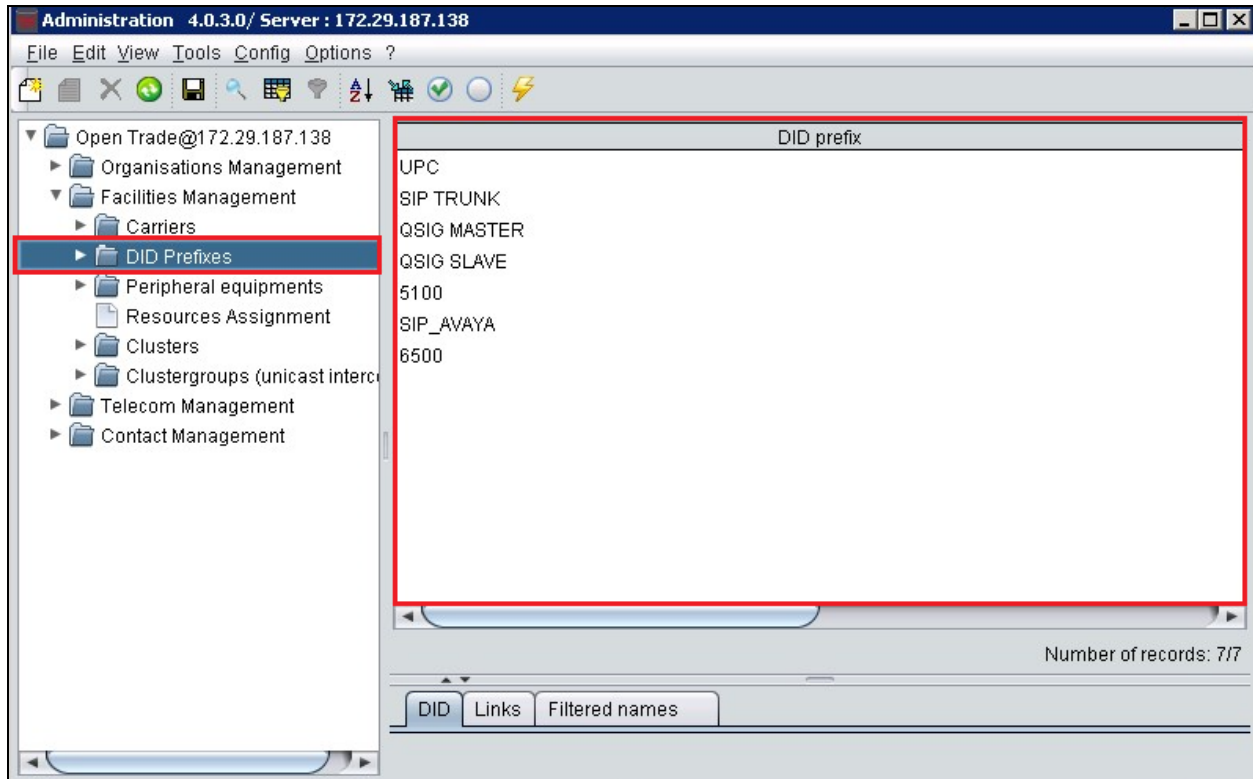


Enter an appropriate **Name** and **Description** and click **Ok**.

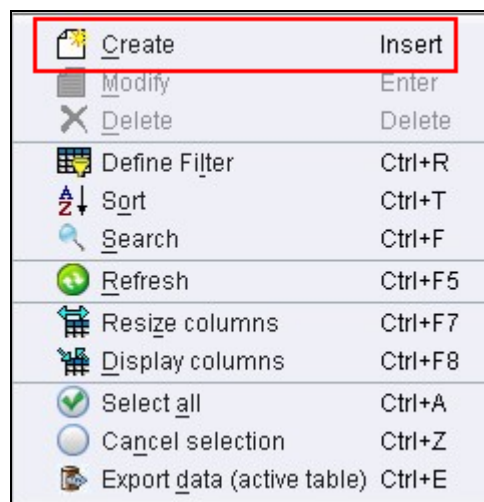


8.2. Create DID Prefixes

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**.

DID prefix Add

DID prefix

DID prefix: 5100

Filtered names (beginning with...):

Names

Add Remove

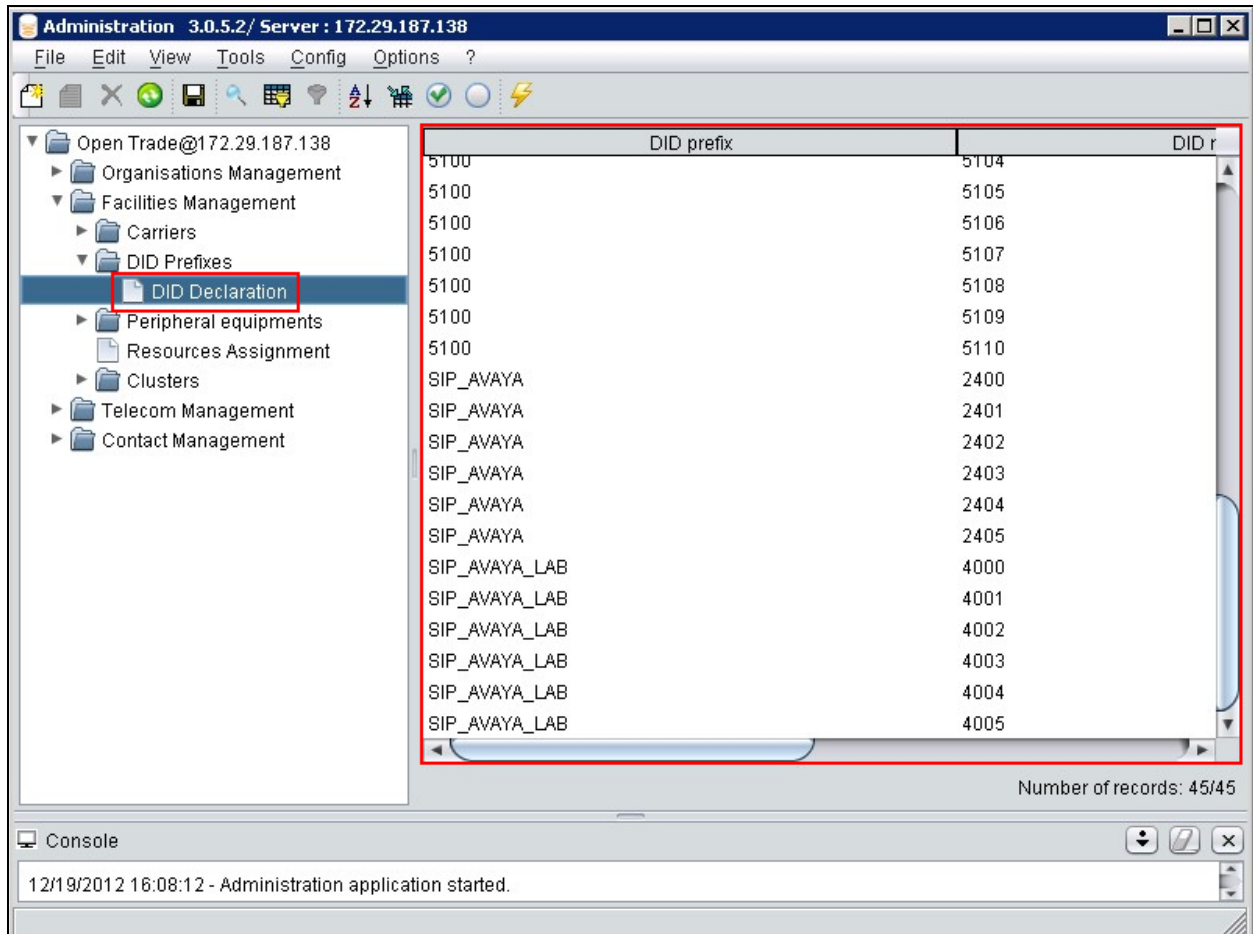
Description:

Created items: 0

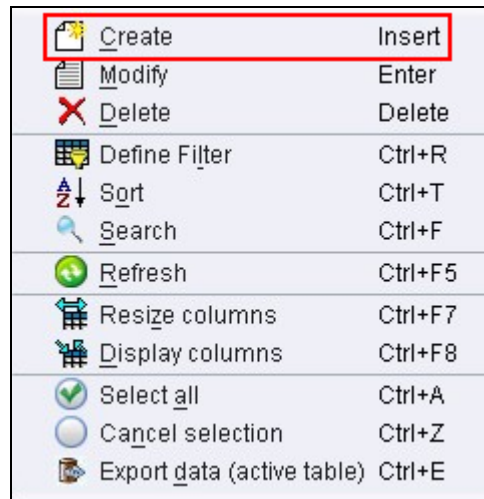
Add Default values Cancel

8.3. 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.



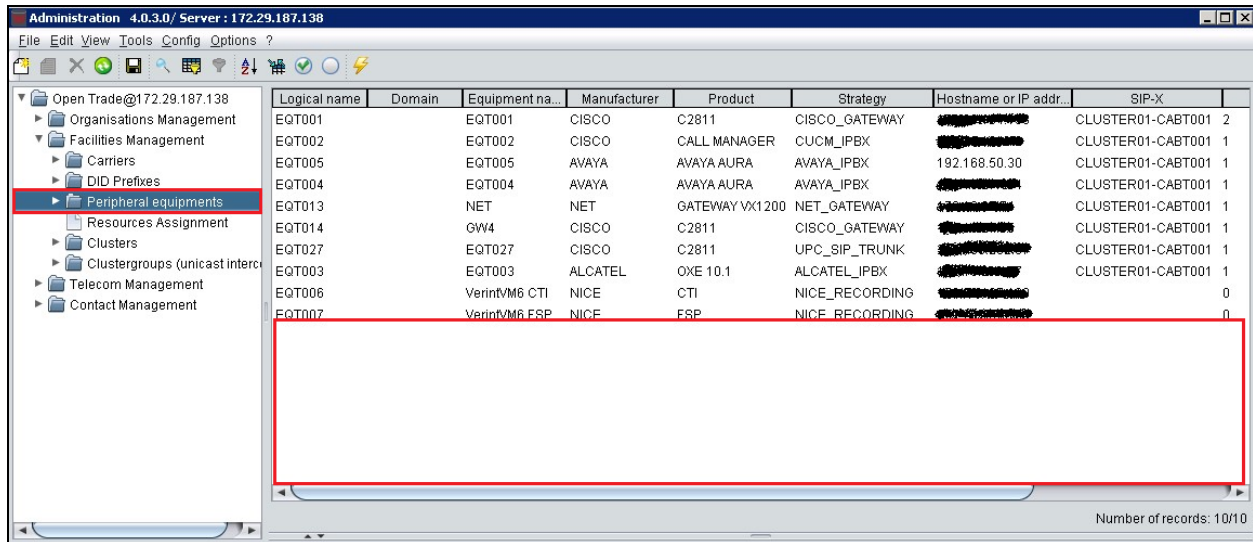
Enter the following values in the **Add DID** screen which appears and click **Add**.

- **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.

A screenshot of a dialog box titled 'Add DID'. The dialog has a blue header bar with the title and a close button. The main area contains four 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.

8.4. 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 **AVAYA** from the drop down list.
- **Product name** – select **AVAYA AURA** from the drop down list.
- **SIP Strategy** – select **AVAYA_IPBX** from the drop down list.
- **Equipment name** – enter an identifying name.
- **IP Address or Hostname** – enter the IP address of Session Manager.
- **Telco links** – enter **1**.

Add Peripheral equipment

Peripheral equipment

Logical number: 8

Logical name: EQT008

Equipment name: EQT008

SIP-X name: CLUSTER01-CABT001

SIP-X Logical name: CLUSTER01-CABT001

Contact parameters

Domain:

IP Address or Hostname:

- 1: 192.168.50.30
- 2:
- 3:
- 4:

Resources

Telco Links: 1

Recording channels: 0

Interco capacity: 0

Description: Avaya Lab certification (VPN)

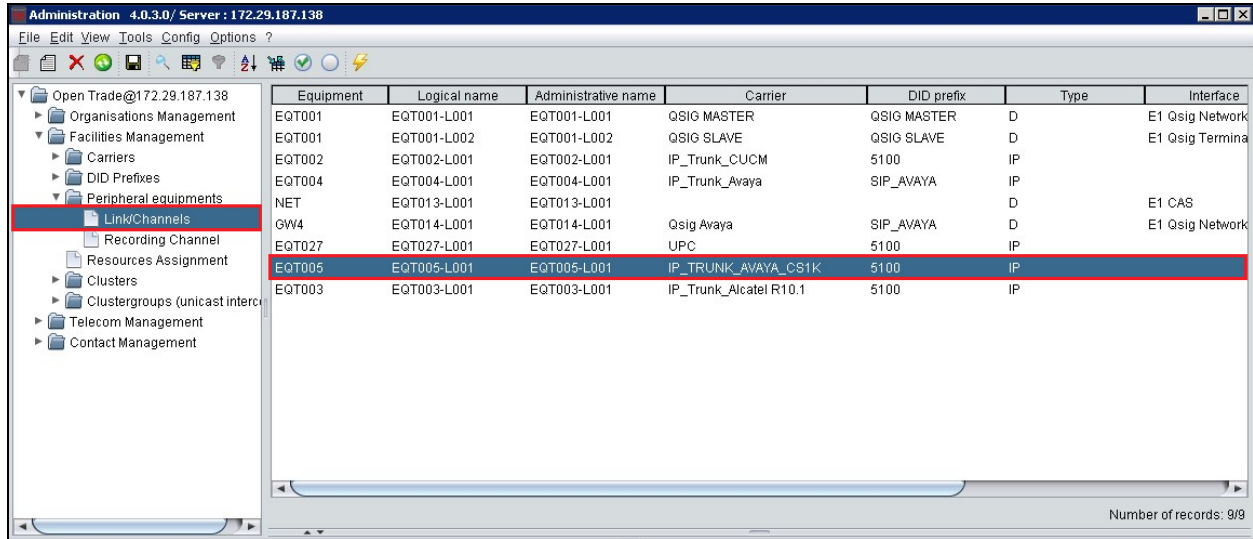
Advanced configuration >>

Created items: 0

Buttons: Add, Default values, Cancel

8.5. Create Link/Channels

Expand the **Link/Channels** menu item and double click the newly created Equipment created in Section 8.4.



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 8.1.
- **DID prefix** – select the DID prefix created in Section 8.2.
- **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_AVAYA_CS1K Number of channels: 30

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

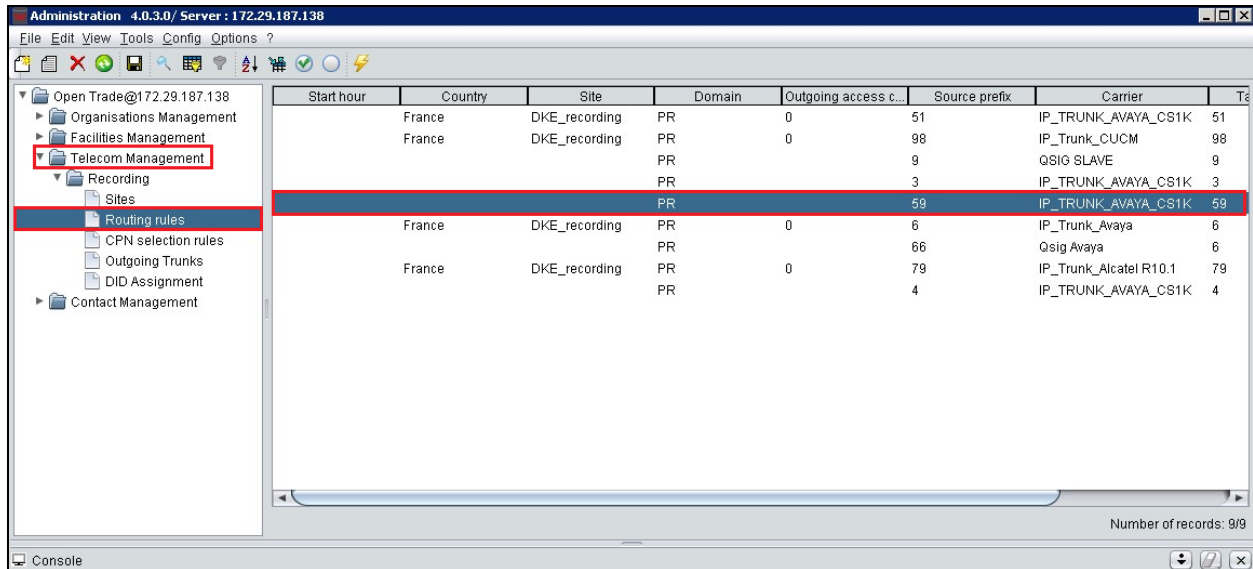
Type: IP Recording warning beep tones: ☐

Interface: None

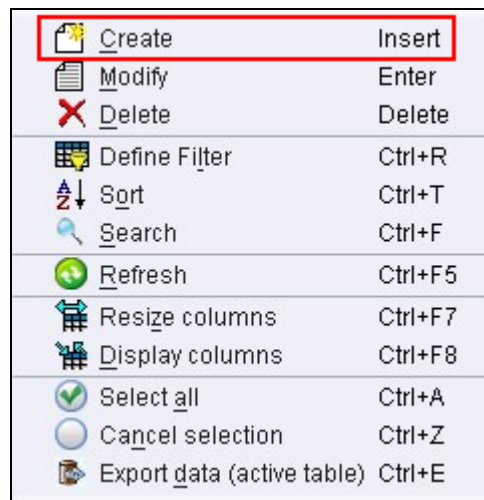
Ok Restore Cancel

8.6. Create Routing Rule

Expand the **Telecom Management** and **Recording** items 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 digits of the extension range configured for Avaya endpoints.
- **Carrier** – enter the Carrier configured in **Section 8.1**.
- **Target prefix** - enter the first digits 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: 59

To

Carrier: IP_TRUNK_AVAYA_CS1K

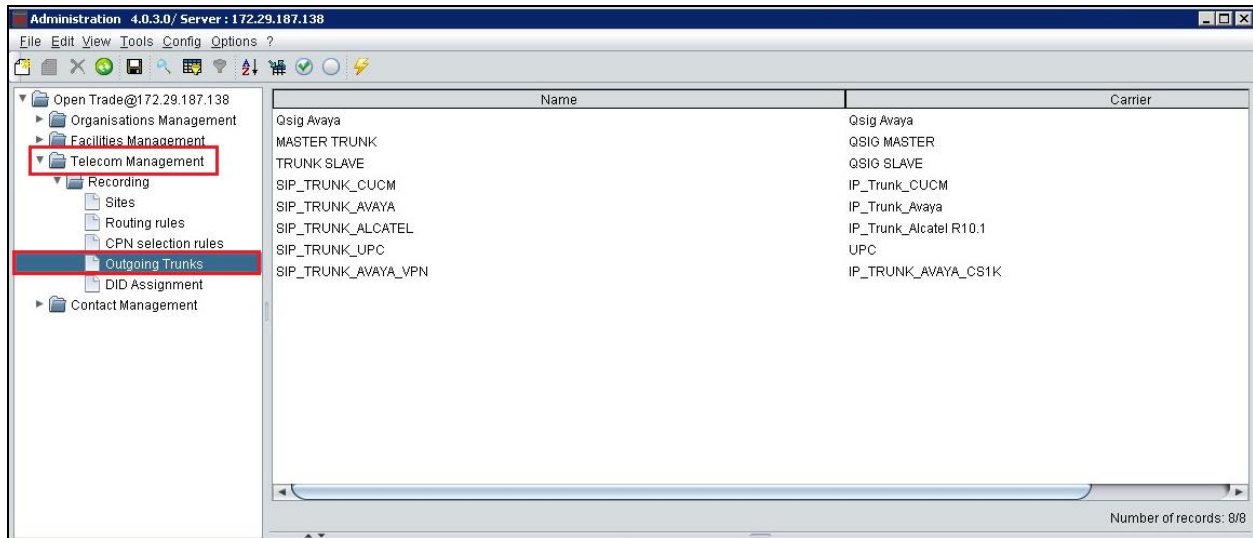
Target prefix: 59

☒ Is activated

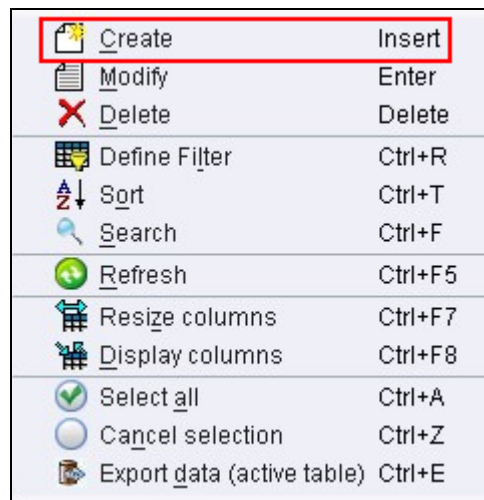
Ok Restore Cancel

8.7. 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 **Modify Outgoing trunk** screen which appears and click **Ok**.

- **Name** – Enter a suitable name for the outgoing trunk.
- **Carrier** – select the carrier created in **Section 8.1** 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 8.4**.

Modify Outgoing trunk

Outgoing Trunk

Name:

Carrier:

Workgroups

Name	Supplementary name	BE
WG_Recording		BU_Recording

Resources

Type	Equipment	Logical name	Administrative name
Link	EQT005	EQT005-L001	EQT005-L001

Overflow trunks

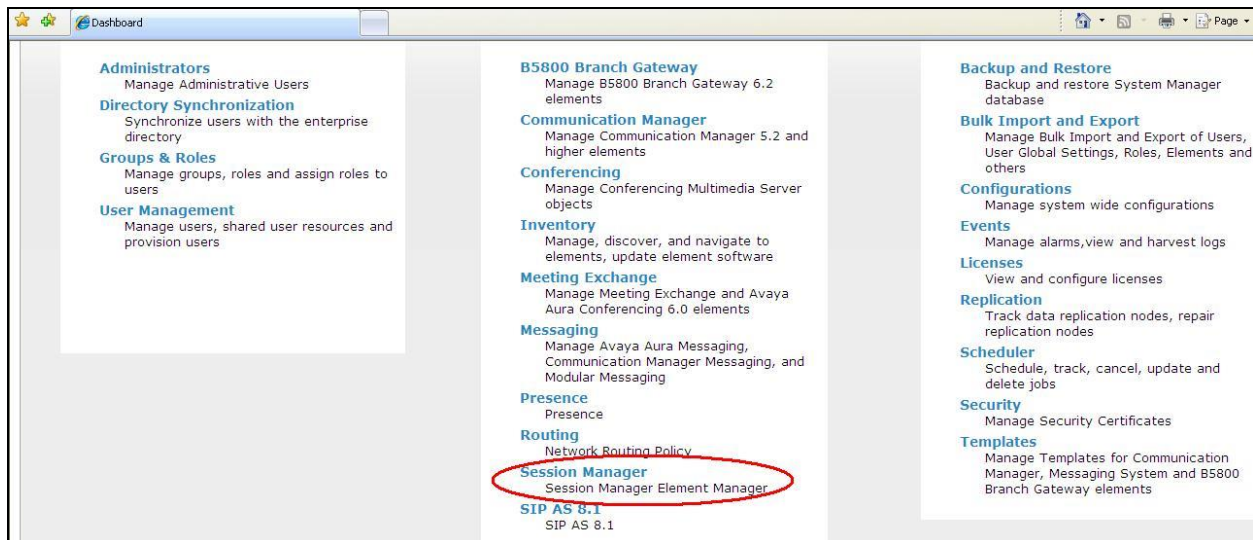
Site	Trunk	Activated
DKE_recording	None	<input type="checkbox"/>

9. Verification Steps

To verify a successful configuration of Open Trade and CS1000E a call is placed from the CS1000E to and from an Open Trade extension with the caller getting answered successfully hearing clear and audible speech. The following steps can also be taken to ensure the link is up between Open Trade and Session Manager.

9.1. Verify Open Trade SIP Entity

Log in to System Manager as per **Section 7.1**. From the main menu select Session Manager as shown below.



Navigate to **System Status** → **SIP Entity Monitoring**. Select the **Etrali** SIP Entity.

Entity Link Status for All Session Manager Instances

Run Monitor

Session Manager Name	Entity Links Down/Total	Entity Links Partially Down	SIP Entities - Monitoring Not Started	SIP Entities - Not Monitored
SessionManager	3/5	0	0	0
SM61	0/4	0	0	0

Select : All, None

All Monitored SIP Entities

Run Monitor

9 Items Refresh Show ALL Filter: Enable

SIP Entity Name
AAMessaging
CM R62
CM63VMPG
CS1kPG1
CS1KPG2
DS3000
Etrali
RichardAuraMessaging
SIPERASBC

Select : All, None

Note that both the **Conn. Status** and **Link Status** show **Up**.

Avaya Aura® System Manager 6.2

Last Logged on at March 18, 2014 2:34 PM

Help | About | Change Password | Log off admin

Session Manager x Home

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

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: Etrali

Summary View

1 Item Refresh Filter: Enable

Details	Session Manager Name	SIP Entity Resolved IP	Port	Proto.	Conn. Status	Reason Code	Link Status
Show	SM61	172.29.187.244	5060	UDP	Up	200 OK	Up

10.Conclusion

The interoperation of Open Trade from Etrali Trading Solutions with Avaya Communication Server 1000E R7.5 and Avaya Aura® Session Manager R6.1 was successful for this specific setup in order to place calls to and from Open Trade to the CS1000E. All issues and observations are outlined in **Section 2.2**.

11.Additional References

Additional Avaya product documentation is available at <http://support.avaya.com>.

- [1] *Software Input Output Reference – Administration – Avaya Communication Sever 1000, R7.5* NN43001-611
- [2] *Administering Avaya Aura® Session Manager*, Release 6.1, 03-603324

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 1000E R7.5 - Linux Patches

Product Release: 7.50.17.00						
In system patches: 2						
PATCH#	NAME	IN_SERVICE	DATE	SPECINS	TYPE	RPM
31	p31484_1	Yes	26/06/13	NO	FRU	cs1000-shared-general-7.50.17-00.i386
51	p33024_1	Yes	13/03/14	NO	FRU	cs1000-cs-7.50.Q.100-00.i386
In System service updates: 32						
PATCH#	IN_SERVICE	DATE	SPECINS	REMOVABLE	NAME	
0	Yes	12/03/14	NO	YES	cs1000-patchWeb-7.50.17.16-15.i386.000	
1	Yes	17/01/13	YES	YES	cs1000-baseWeb-7.50.17.16-2.i386.000	
2	Yes	13/03/14	NO	YES	cs1000-dmWeb-7.50.17.16-7.i386.000	
3	Yes	26/06/13	NO	YES	cs1000-shared-pbx-7.50.17.16-1.i386.000	
4	Yes	26/06/13	NO	YES	cs1000-kcv-7.50.17.16-1.i386.000	
5	Yes	26/06/13	NO	yes	avaya-cs1000-cnd-4.0.20-00.i386.000	
6	Yes	26/06/13	NO	YES	cs1000-ipsec-7.50.17.16-1.i386.000	
7	Yes	26/06/13	NO	YES	ipsec-tools-0.6.5-14.el5.3 avaya 1.i386.000	
8	Yes	26/06/13	NO	YES	spiritAgent-6.1-1.0.0.108.208.i386.000	
12	Yes	26/06/13	NO	YES	cs1000-ncs-7.50.17.16-1.i386.000	
13	Yes	26/06/13	NO	YES	cs1000-EmCentralLogic-7.50.17.16-2.i386.000	
17	Yes	26/06/13	NO	YES	cs1000-csoneksvrmgr-7.50.17.16-1.i386.000	
28	Yes	26/06/13	NO	YES	cs1000-dbcom-7.50.17.16-1.i386.000	
32	Yes	12/03/14	YES	YES	cs1000-linuxbase-7.50.17.16-21.i386.000	
33	Yes	13/03/14	NO	YES	cs1000-pd-7.50.17.16-3.i386.000	
34	Yes	13/03/14	NO	YES	cs1000-ftrpkg-7.50.17.16-13.i386.000	
35	Yes	13/03/14	NO	YES	cs1000-emWebLocal_6-0-7.50.17.16-4.i386.000	
36	Yes	13/03/14	YES	YES	cs1000-mscAnnc-7.50.17.16-17.i386.000	
37	Yes	13/03/14	YES	YES	cs1000-mscAttn-7.50.17.16-7.i386.000	
38	Yes	13/03/14	YES	YES	cs1000-mscConf-7.50.17.16-5.i386.000	
39	Yes	13/03/14	YES	YES	cs1000-mscMusc-7.50.17.16-18.i386.000	
40	Yes	13/03/14	YES	YES	cs1000-mscTone-7.50.17.16-6.i386.000	
41	Yes	13/03/14	YES	YES	cs1000-emWeb_6-0-7.50.17.16-41.i386.000	
42	Yes	13/03/14	NO	YES	cs1000-gk-7.50.17.16-2.i386.000	
43	Yes	13/03/14	NO	YES	cs1000-cs1000WebService_6-0-7.50.17.16-2.i386.000	
44	Yes	13/03/14	NO	YES	cs1000-csmWeb-7.50.17.16-9.i386.000	
45	Yes	13/03/14	NO	YES	cs1000-sps-7.50.17.16-18.i386.000	
46	Yes	13/03/14	yes	yes	tzdata-2013c-2.el5.i386.000	
47	Yes	13/03/14	YES	YES	cs1000-tps-7.50.17.16-33.i386.000	
48	Yes	13/03/14	YES	YES	cs1000-Jboss-Quantum-7.50.17.16-37.i386.000	
49	Yes	13/03/14	YES	YES	cs1000-vtrk-7.50.17.16-228.i386.000	
50	Yes	13/03/14	YES	YES	cs1000-bcc-7.50.17.16-117.i386.000	

Avaya Communication Server 1000E R7.5 - Call Server Patches

VERSION 4121
RELEASE 7
ISSUE 50 Q +
DepList 1: core Issue: 01 (created: 2013-11-28 07:03:52 (est)) ALTERED

IN-SERVICE PEPS

PAT#	CR #	PATCH REF #	NAME	DATE	FILENAME	SPECINS
000	wi01044828	ISS1:1OF1	p31510_1	13/03/2014	p31510_1.cpl	NO
001	wi00853178	ISS1:1OF1	p30719_1	13/03/2014	p30719_1.cpl	NO
002	wi01044293	ISS1:1OF1	p32250_1	13/03/2014	p32250_1.cpl	NO
003	wi01037022	ISS1:1OF1	p32192_1	13/03/2014	p32192_1.cpl	YES
004	wi00854130	ISS1:1OF1	p30443_1	13/03/2014	p30443_1.cpl	NO
005	wi01006063	ISS1:1OF1	p31957_1	13/03/2014	p31957_1.cpl	NO
006	wi01029486	ISS1:1OF1	p32144_1	13/03/2014	p32144_1.cpl	NO
007	wi01057782	ISS1:1OF1	p32344_1	13/03/2014	p32344_1.cpl	NO
008	wi00896319	ISS1:1OF1	p31070_1	13/03/2014	p31070_1.cpl	NO
009	wi01092839	ISS1:1OF1	p32731_1	13/03/2014	p32731_1.cpl	NO
010	wi01008943	ISS1:1OF1	p31382_1	13/03/2014	p31382_1.cpl	NO
011	wi01030651	ISS1:1OF1	p32159_1	13/03/2014	p32159_1.cpl	NO
012	wi01012423	ISS1:1OF1	p26155_1	13/03/2014	p26155_1.cpl	NO
013	wi01023570	ISS1:1OF1	p32096_1	13/03/2014	p32096_1.cpl	NO
014	wi01050993	ISS1:1OF1	p32289_1	13/03/2014	p32289_1.cpl	NO
015	wi01032447	ISS1:1OF1	p32160_1	13/03/2014	p32160_1.cpl	NO
016	wi00998328	ISS1:1OF1	p31899_1	13/03/2014	p31899_1.cpl	NO
017	wi00854469	ISS1:1OF1	p30701_1	13/03/2014	p30701_1.cpl	NO
018	wi01007604	ISS1:1OF1	p31983_1	13/03/2014	p31983_1.cpl	NO
019	wi01020959	ISS1:1OF1	p32062_1	13/03/2014	p32062_1.cpl	NO
020	wi01007960	ISS1:1OF1	p31965_1	13/03/2014	p31965_1.cpl	NO
021	wi01112938	ISS1:1OF1	p32871_1	13/03/2014	p32871_1.cpl	NO
022	wi01060919	ISS1:1OF1	p32397_1	13/03/2014	p32397_1.cpl	YES
023	wi00949273	ISS1:1OF1	p31411_1	13/03/2014	p31411_1.cpl	NO
024	wi01032794	ISS1:1OF1	p31480_1	13/03/2014	p31480_1.cpl	NO
025	wi01037848	ISS1:1OF1	p32202_1	13/03/2014	p32202_1.cpl	NO
026	wi01066277	ISS1:1OF2	p32435_1	13/03/2014	p32435_1.cpl	NO
027	wi00971980	ISS1:1OF1	p31863_1	13/03/2014	p31863_1.cpl	NO
028	wi01042548	ISS1:1OF1	p32232_1	13/03/2014	p32232_1.cpl	NO
029	wi01034779	ISS1:1OF1	p32174_1	13/03/2014	p32174_1.cpl	NO
030	wi01046277	ISS1:1OF1	p32265_1	13/03/2014	p32265_1.cpl	NO
031	wi01003384	ISS1:1OF1	p31479_1	13/03/2014	p31479_1.cpl	NO
032	wi01039079	ISS1:1OF1	p32210_1	13/03/2014	p32210_1.cpl	NO
033	wi01046059	ISS1:1OF1	p32262_1	13/03/2014	p32262_1.cpl	NO
034	wi01008188	ISS1:1OF1	p32020_1	13/03/2014	p32020_1.cpl	NO
035	wi01037583	ISS1:1OF1	p32201_1	13/03/2014	p32201_1.cpl	NO
036	wi00965603	ISS1:1OF1	p31618_1	13/03/2014	p31618_1.cpl	NO
037	wi00956788	ISS1:1OF1	p31638_1	13/03/2014	p31638_1.cpl	NO
038	wi01001911	ISS1:1OF1	p31920_1	13/03/2014	p31920_1.cpl	NO
039	wi01008316	ISS1:1OF1	p32026_1	13/03/2014	p32026_1.cpl	YES
040	wi01034452	ISS1:1OF1	p31672_1	13/03/2014	p31672_1.cpl	NO
041	wi01077070	ISS1:1OF1	p32534_1	13/03/2014	p32534_1.cpl	NO
042	wi01018064	ISS1:1OF1	p32044_1	13/03/2014	p32044_1.cpl	NO
043	wi01033893	ISS1:1OF1	p32167_1	13/03/2014	p32167_1.cpl	NO
044	wi00976951	ISS1:1OF1	p30112_1	13/03/2014	p30112_1.cpl	NO
045	wi01046101	ISS1:1OF1	p32263_1	13/03/2014	p32263_1.cpl	NO
046	WI00854150	ISS1:1OF1	p30468_1	13/03/2014	p30468_1.cpl	NO
047	wi01030088	ISS1:1OF1	p32148_1	13/03/2014	p32148_1.cpl	YES
048	wi01041007	ISS1:1OF1	p32059_1	13/03/2014	p32059_1.cpl	NO
049	wi00991907	iss1:1of1	p31907_1	13/03/2014	p31907_1.cpl	NO
050	wi01037773	ISS1:1OF1	p31544_1	13/03/2014	p31544_1.cpl	NO
051	wi01044600	ISS1:1OF1	p32255_1	13/03/2014	p32255_1.cpl	YES

052	wi01033197	ISS1:1OF1	p29818_1	13/03/2014	p29818_1.cpl	NO
053	wi01005927	ISS1:1OF1	p31905_1	13/03/2014	p31905_1.cpl	NO
054	wi01119475	ISS1:1OF1	p32922_1	13/03/2014	p32922_1.cpl	NO
055	wi00897250	ISS1:1OF1	p31127_1	13/03/2014	p31127_1.cpl	NO
056	wi01115608	ISS1:1OF1	p32949_1	13/03/2014	p32949_1.cpl	YES
057	wi01014835	ISS1:1OF1	p32015_1	13/03/2014	p32015_1.cpl	NO
058	wi00896394	ISS1:1OF1	p30807_1	13/03/2014	p30807_1.cpl	NO
059	wi00989828	ISS1:1OF1	p31836_1	13/03/2014	p31836_1.cpl	NO
060	wi01039486	ISS1:1OF1	p32209_1	13/03/2014	p32209_1.cpl	YES
061	wi01037975	ISS1:1OF1	p32227_1	13/03/2014	p32227_1.cpl	YES
062	wi01015780	ISS1:1OF1	p32083_1	13/03/2014	p32083_1.cpl	NO
063	wi01016398	ISS1:1OF1	p32019_1	13/03/2014	p32019_1.cpl	NO
064	wi01037234	ISS1:1OF1	p32220_1	13/03/2014	p32220_1.cpl	NO
065	wi01008106	ISS1:1OF1	p31861_1	13/03/2014	p31861_1.cpl	NO
066	wi01001938	ISS1:1OF1	p31921_1	13/03/2014	p31921_1.cpl	YES
067	wi01031571	ISS1:1OF1	p32158_1	13/03/2014	p32158_1.cpl	NO
068	wi00905297	ISS1:1OF1	p31195_1	13/03/2014	p31195_1.cpl	NO
069	wi01041545	ISS1:1OF1	p32236_1	13/03/2014	p32236_1.cpl	YES
070	wi00965009	ISS1:1OF1	p31600_1	13/03/2014	p31600_1.cpl	NO
071	wi01044845	ISS1:1OF1	p31739_1	13/03/2014	p31739_1.cpl	NO
072	wi01034420	ISS1:1OF1	p31584_1	13/03/2014	p31584_1.cpl	NO
073	wi01021598	ISS1:1OF1	p32066_1	13/03/2014	p32066_1.cpl	NO
074	wi01011078	ISS1:1OF1	p31996_1	13/03/2014	p31996_1.cpl	NO
075	wi01020587	ISS1:1OF1	p32097_1	13/03/2014	p32097_1.cpl	NO
076	wi01042285	ISS1:1OF1	p32230_1	13/03/2014	p32230_1.cpl	YES
077	wi01039170	ISS1:1OF1	p32207_1	13/03/2014	p32207_1.cpl	YES
078	wi01075022	ISS1:1OF1	p32519_1	13/03/2014	p32519_1.cpl	NO
079	wi01050057	ISS1:1OF1	p32286_1	13/03/2014	p32286_1.cpl	NO
080	wi00837538	ISS1:1OF1	p30568_1	13/03/2014	p30568_1.cpl	NO
081	wi01034774	ISS1:1OF1	p32173_1	13/03/2014	p32173_1.cpl	NO
082	wi01074096	ISS1:1OF1	p32080_1	13/03/2014	p32080_1.cpl	NO
083	wi01044868	ISS1:1OF1	p32261_1	13/03/2014	p32261_1.cpl	NO
084	wi00999802	ISS1:1OF1	p31577_1	13/03/2014	p31577_1.cpl	NO
085	wi00824257	ISS1:1OF1	p30447_1	13/03/2014	p30447_1.cpl	NO
086	wi01039099	ISS1:1OF1	p32269_1	13/03/2014	p32269_1.cpl	NO
087	wi01016303	ISS1:1OF1	p32031_1	13/03/2014	p32031_1.cpl	NO
088	wi01014478	ISS1:1OF1	p32301_1	13/03/2014	p32301_1.cpl	NO
089	wi01044873	ISS1:1OF1	p31749_1	13/03/2014	p31749_1.cpl	NO
090	wi00981711	ISS1:1OF1	p31766_1	13/03/2014	p31766_1.cpl	NO
091	wi01000796	ISS1:1OF1	p31800_1	13/03/2014	p31800_1.cpl	NO
092	wi00967514	ISS1:1OF1	p31351_1	13/03/2014	p31351_1.cpl	NO
093	wi01012638	ISS1:1OF1	p32008_1	13/03/2014	p32008_1.cpl	NO
094	wi01012229	ISS1:1OF1	p31993_1	13/03/2014	p31993_1.cpl	NO
095	wi01027702	ISS1:1OF1	p32140_1	13/03/2014	p32140_1.cpl	NO
096	wi01020752	ISS1:1OF1	p32108_1	13/03/2014	p32108_1.cpl	NO
097	wi01042755	ISS1:1OF1	p31667_1	13/03/2014	p31667_1.cpl	NO
098	wi01112402	ISS1:1OF1	p32866_1	13/03/2014	p32866_1.cpl	NO
099	wi01003814	ISS1:1OF1	p31940_1	13/03/2014	p31940_1.cpl	NO
100	wi01013144	ISS1:1OF1	p31929_1	13/03/2014	p31929_1.cpl	NO
101	wi01005653	ISS1:1OF1	p31952_1	13/03/2014	p31952_1.cpl	NO
102	wi01033550	ISS1:1OF1	p31565_1	13/03/2014	p31565_1.cpl	NO
103	wi01027609	ISS1:1OF1	p31850_1	13/03/2014	p31850_1.cpl	NO
104	wi00897279	ISS1:1OF1	p31129_1	13/03/2014	p31129_1.cpl	NO
105	wi01040531	ISS1:1OF1	p32218_1	13/03/2014	p32218_1.cpl	NO
106	wi00875425	ISS1:1OF1	p30943_1	13/03/2014	p30943_1.cpl	NO
107	wi01011113	ISS1:1OF1	p32054_1	13/03/2014	p32054_1.cpl	NO
108	wi01003999	ISS1:1OF1	p31946_1	13/03/2014	p31946_1.cpl	YES
109	wi01051786	ISS1:1OF1	p32296_1	13/03/2014	p32296_1.cpl	YES
110	wi00993743	ISS1:1OF1	p31865_1	13/03/2014	p31865_1.cpl	NO
111	wi00967505	ISS1:1OF1	p31491_1	13/03/2014	p31491_1.cpl	NO
112	wi01008505	ISS1:1OF1	p31968_1	13/03/2014	p31968_1.cpl	NO
113	wi01034409	ISS1:1OF1	p29708_1	13/03/2014	p29708_1.cpl	NO

114	wi01031825	ISS1:1OF1	p31882_1	13/03/2014	p31882_1.cpl	NO
115	wi01010472	ISS1:1OF1	p31975_1	13/03/2014	p31975_1.cpl	NO
116	wi01020043	ISS1:1OF1	p32055_1	13/03/2014	p32055_1.cpl	NO
117	wi01001588	ISS1:1OF1	p31976_1	13/03/2014	p31976_1.cpl	NO
118	wi01028650	ISS1:1OF1	p32188_1	13/03/2014	p32188_1.cpl	NO
119	wi01040096	ISS1:1OF1	p32214_1	13/03/2014	p32214_1.cpl	NO
120	wi01022466	ISS1:1OF1	p32205_1	13/03/2014	p32205_1.cpl	NO
121	wi00977002	ISS2:1OF1	p30786_2	13/03/2014	p30786_2.cpl	NO
122	wi01042797	ISS1:1OF1	p32089_1	13/03/2014	p32089_1.cpl	NO
123	wi00949136	ISS1:1OF1	p31441_1	13/03/2014	p31441_1.cpl	NO
124	wi01051024	ISS1:1OF1	p32290_1	13/03/2014	p32290_1.cpl	NO
125	wi00967510	ISS1:1OF1	p31147_1	13/03/2014	p31147_1.cpl	NO
126	wi00854415	ISS1:1OF1	p30593_1	13/03/2014	p30593_1.cpl	NO
127	wi00865477	ISS1:1OF1	p30892_1	13/03/2014	p30892_1.cpl	YES
128	wi01122145	ISS1:1OF1	p32944_1	13/03/2014	p32944_1.cpl	NO
129	wi01052217	ISS1:1OF1	p32297_1	13/03/2014	p32297_1.cpl	NO
130	wi00856991	ISS1:1OF1	p17588_1	13/03/2014	p17588_1.cpl	NO
131	wi00950575	ISS1:1OF1	p31724_1	13/03/2014	p31724_1.cpl	NO
132	wi01081099	ISS1:1OF1	p32590_1	13/03/2014	p32590_1.cpl	NO
133	wi00959284	ISS1:1OF1	p31531_1	13/03/2014	p31531_1.cpl	NO
134	wi00984904	ISS1:1OF1	p31796_1	13/03/2014	p31796_1.cpl	NO
135	WI00853473	ISS1:1OF1	p30625_1	13/03/2014	p30625_1.cpl	NO
136	wi01097005	ISS1:1OF1	p31617_1	13/03/2014	p31617_1.cpl	NO
137	wi01052883	ISS1:1OF1	p32304_1	13/03/2014	p32304_1.cpl	NO
138	wi01056574	ISS1:1OF1	p30571_1	13/03/2014	p30571_1.cpl	NO
139	wi00879526	ISS1:1OF1	p31007_1	13/03/2014	p31007_1.cpl	NO
140	wi00858335	ISS1:1OF1	p30819_1	13/03/2014	p30819_1.cpl	NO
141	wi00927321	ISS1:1OF1	p31286_1	13/03/2014	p31286_1.cpl	YES
142	wi01060240	ISS1:1OF1	p32381_1	13/03/2014	p32381_1.cpl	NO
143	wi00975659	ISS1:1OF1	p31707_1	13/03/2014	p31707_1.cpl	NO
144	wi01115773	ISS1:1OF1	p32894_1	13/03/2014	p32894_1.cpl	NO
145	wi00834382	ISS1:1OF1	p30548_1	13/03/2014	p30548_1.cpl	NO
146	wi01123229	ISS1:1OF1	p32952_1	13/03/2014	p32952_1.cpl	NO
147	wi01112617	ISS1:1OF1	p32869_1	13/03/2014	p32869_1.cpl	YES
148	wi01081427	ISS1:1OF1	p32736_1	13/03/2014	p32736_1.cpl	NO
149	wi01075015	ISS1:1OF1	p32518_1	13/03/2014	p32518_1.cpl	NO
150	wi00897082	ISS1:1OF1	p31124_1	13/03/2014	p31124_1.cpl	NO
151	WI00889786	ISS1:1OF1	p30750_1	13/03/2014	p30750_1.cpl	NO
152	wi00877367	ISS1:1OF1	p30534_1	13/03/2014	p30534_1.cpl	NO
153	WI00836292	ISS1:1OF1	p30554_1	13/03/2014	p30554_1.cpl	NO
154	wi00924886	ISS1:1OF1	p31062_1	13/03/2014	p31062_1.cpl	YES
155	wi01107140	ISS1:1OF1	p32827_1	13/03/2014	p32827_1.cpl	NO
156	wi01055323	ISS1:1OF1	p32322_1	13/03/2014	p32322_1.cpl	NO
157	wi00841980	ISS1:1OF1	p30618_1	13/03/2014	p30618_1.cpl	NO
158	wi00969890	ISS1:1OF1	p31664_1	13/03/2014	p31664_1.cpl	YES
159	wi00937672	ISS1:1OF1	p31276_1	13/03/2014	p31276_1.cpl	NO
160	wi00936935	ISS1:1OF1	p31362_1	13/03/2014	p31362_1.cpl	NO
161	wi01106657	ISS1:1OF1	p32812_1	13/03/2014	p32812_1.cpl	NO
162	wi00865477	ISS1:1OF1	p30894_1	13/03/2014	p30894_1.cpl	YES
163	wi00991523	ISS1:1OF1	p31603_1	13/03/2014	p31603_1.cpl	NO
164	wi01093071	ISS1:1OF1	p32701_1	13/03/2014	p32701_1.cpl	NO
165	wi01070959	ISS1:1OF1	p32475_1	13/03/2014	p32475_1.cpl	NO
166	wi00906350	ISS1:1OF1	p31219_1	13/03/2014	p31219_1.cpl	NO
167	wi01078718	ISS1:1OF1	p32553_1	13/03/2014	p32553_1.cpl	NO
168	wi01065226	ISS1:1OF1	p32461_1	13/03/2014	p32461_1.cpl	NO
169	wi00909476	ISS1:1OF1	p31340_1	13/03/2014	p31340_1.cpl	NO
170	wi01098790	ISS1:1OF1	p32745_1	13/03/2014	p32745_1.cpl	YES
171	wi01093952	ISS1:1OF1	p32640_1	13/03/2014	p32640_1.cpl	NO
172	wi00835294	ISS1:1OF1	p30565_1	13/03/2014	p30565_1.cpl	NO
173	wi01052286	ISS1:1OF1	p32303_1	13/03/2014	p32303_1.cpl	NO
174	wi00839134	ISS1:1OF1	p30698_1	13/03/2014	p30698_1.cpl	YES
175	wi01078513	ISS1:1OF1	p32549_1	13/03/2014	p32549_1.cpl	NO

176	wi01097775	ISS1:1OF1	p32788_1	13/03/2014	p32788_1.cpl	NO
177	wi00869243	ISS1:1OF1	p30848_1	13/03/2014	p30848_1.cpl	NO
178	wi01099871	ISS1:1OF1	p32412_1	13/03/2014	p32412_1.cpl	NO
179	wi00968448	ISS1:1OF1	p31648_1	13/03/2014	p31648_1.cpl	YES
180	wi01123222	ISS1:1OF1	p32975_1	13/03/2014	p32975_1.cpl	NO
181	wi00959463	ISS1:1OF1	p31528_1	13/03/2014	p31528_1.cpl	NO
182	wi00900096	ISS1:1OF1	p31006_1	13/03/2014	p31006_1.cpl	NO
183	wi01094404	iss1:1of1	p32713_1	13/03/2014	p32713_1.cpl	NO
184	wi01129850	ISS1:1OF1	p33008_1	13/03/2014	p33008_1.cpl	NO
185	wi00967509	ISS1:1OF1	p31294_1	13/03/2014	p31294_1.cpl	NO
186	wi01096966	ISS1:1OF1	p32735_1	13/03/2014	p32735_1.cpl	NO
187	WI00927300	ISS1:1OF1	p30999_1	13/03/2014	p30999_1.cpl	NO
188	wi01118658	ISS1:1OF1	p32921_1	13/03/2014	p32921_1.cpl	NO
189	wi01122006	ISS1:1OF1	p32951_1	13/03/2014	p32951_1.cpl	NO
190	wi00880836	ISS1:1OF1	p30976_1	13/03/2014	p30976_1.cpl	NO
191	wi01105033	ISS1:1OF1	p32806_1	13/03/2014	p32806_1.cpl	YES
192	wi00897176	ISS1:1OF1	p30418_1	13/03/2014	p30418_1.cpl	NO
193	wi00968353	ISS1:1OF1	p31412_1	13/03/2014	p31412_1.cpl	NO
194	wi01092792	ISS1:1OF1	p32699_1	13/03/2014	p32699_1.cpl	NO
195	wi01093666	iss1:1of1	p32704_1	13/03/2014	p32704_1.cpl	NO
196	wi00895181	ISS1:1OF1	p31106_1	13/03/2014	p31106_1.cpl	NO
197	wi01132049	ISS1:1OF1	p33023_1	13/03/2014	p33023_1.cpl	NO
198	wi01079788	ISS1:1OF1	p32569_1	13/03/2014	p32569_1.cpl	NO
199	wi00838073	ISS1:1OF1	p30588_1	13/03/2014	p30588_1.cpl	NO
200	wi00862574	iss1:1of1	p30870_1	13/03/2014	p30870_1.cpl	NO
201	wi00930649	ISS1:1OF1	p31570_1	13/03/2014	p31570_1.cpl	NO
202	wi00962211	ISS1:1OF1	p31580_1	13/03/2014	p31580_1.cpl	NO
203	wi00964006	ISS1:1OF1	p31595_1	13/03/2014	p31595_1.cpl	YES
204	wi01089515	ISS1:1OF1	p32665_1	13/03/2014	p32665_1.cpl	YES
205	wi01077638	ISS1:1OF1	p32541_1	13/03/2014	p32541_1.cpl	NO
206	wi00981928	ISS1:1OF1	p31869_1	13/03/2014	p31869_1.cpl	NO
207	wi00969208	ISS1:1OF1	p31656_1	13/03/2014	p31656_1.cpl	NO
208	wi01074191	ISS1:1OF1	p32509_1	13/03/2014	p32509_1.cpl	NO
209	wi00984888	ISS1:1OF1	p31795_1	13/03/2014	p31795_1.cpl	NO
210	wi00932204	ISS2:1OF1	p31305_2	13/03/2014	p31305_2.cpl	NO
211	wi00945997	ISS1:1OF1	p31641_1	13/03/2014	p31641_1.cpl	NO
212	wi01088825	ISS1:1OF1	p32660_1	13/03/2014	p32660_1.cpl	NO
213	wi01060101	ISS1:1OF1	p32380_1	13/03/2014	p32380_1.cpl	NO
214	wi01067346	ISS1:1OF1	p32445_1	13/03/2014	p32445_1.cpl	NO
215	wi01068602	ISS1:1OF1	p32459_1	13/03/2014	p32459_1.cpl	NO
216	wi00863876	ISS1:1OF1	p30787_1	13/03/2014	p30787_1.cpl	NO
217	wi00998121	ISS1:1OF1	p31897_1	13/03/2014	p31897_1.cpl	NO
218	wi01088773	ISS1:1OF1	p32659_1	13/03/2014	p32659_1.cpl	NO
219	wi00906022	ISS1:1OF1	p31202_1	13/03/2014	p31202_1.cpl	NO
220	wi00980476	ISS1:1OF1	p31387_1	13/03/2014	p31387_1.cpl	NO
221	wi01089354	ISS1:1OF1	p32674_1	13/03/2014	p32674_1.cpl	YES
222	wi00836182	ISS1:1OF1	p30450_1	13/03/2014	p30450_1.cpl	NO
223	wi00839821	ISS1:1OF1	p30619_1	13/03/2014	p30619_1.cpl	NO
224	wi00856702	ISS1:1OF1	p30573_1	13/03/2014	p30573_1.cpl	NO
225	wi00871969	ISS1:1OF1	p30768_1	13/03/2014	p30768_1.cpl	NO
226	wi01086735	ISS1:1OF1	p32638_1	13/03/2014	p32638_1.cpl	YES
227	wi01055861	ISS1:1OF1	p32327_1	13/03/2014	p32327_1.cpl	NO
228	wi00967512	ISS1:1OF1	p31384_1	13/03/2014	p31384_1.cpl	NO
229	wi01093338	ISS1:1OF1	p32706_1	13/03/2014	p32706_1.cpl	YES
230	wi01050334	ISS1:1OF1	p32399_1	13/03/2014	p32399_1.cpl	NO
231	wi01099720	ISS1:1OF1	p32742_1	13/03/2014	p32742_1.cpl	YES
232	wi00957235	ISS1:1OF1	p31798_1	13/03/2014	p31798_1.cpl	NO
233	wi00921295	ISS1:1OF1	p31265_1	13/03/2014	p31265_1.cpl	NO
234	wi01118324	ISS1:1OF1	p32916_1	13/03/2014	p32916_1.cpl	NO
235	wi01121495	ISS1:1OF1	p32973_1	13/03/2014	p32973_1.cpl	NO
236	wi00842409	ISS1:1OF1	p30621_1	13/03/2014	p30621_1.cpl	NO
237	wi00943748	ISS1:1OF1	p31516_1	13/03/2014	p31516_1.cpl	NO

238	wi01062831	iss1:lof1	p32404_1	13/03/2014	p32404_1.cpl	NO
239	wi00860279	ISS1:1OF1	p30789_1	13/03/2014	p30789_1.cpl	NO
240	wi01093978	ISS1:1OF1	p32778_1	13/03/2014	p32778_1.cpl	NO
241	wi00960809	ISS1:1OF1	p31564_1	13/03/2014	p31564_1.cpl	NO
242	wi01107629	ISS1:1OF1	p32821_1	13/03/2014	p32821_1.cpl	NO
243	wi00985153	ISS1:1OF1	p31859_1	13/03/2014	p31859_1.cpl	NO
244	wi01094793	ISS1:1OF1	p32716_1	13/03/2014	p32716_1.cpl	NO
245	wi00994044	ISS1:1OF1	p31871_1	13/03/2014	p31871_1.cpl	NO
246	wi00955753	ISS1:1OF1	p31733_1	13/03/2014	p31733_1.cpl	NO
247	wi01062767	ISS1:1OF1	p32400_1	13/03/2014	p32400_1.cpl	NO
248	wi00897096	ISS1:1OF1	p30676_1	13/03/2014	p30676_1.cpl	NO
249	wi00856410	ISS1:1OF1	p30749_1	13/03/2014	p30749_1.cpl	NO
250	wi00840590	ISS1:1OF1	p30767_1	13/03/2014	p30767_1.cpl	NO
251	wi00843623	ISS1:1OF1	p30731_1	13/03/2014	p30731_1.cpl	YES
252	wi01067663	ISS1:1OF1	p32447_1	13/03/2014	p32447_1.cpl	YES
253	wi01079441	ISS1:1OF1	p32564_1	13/03/2014	p32564_1.cpl	NO
254	wi00949410	ISS1:1OF1	p31248_1	13/03/2014	p31248_1.cpl	NO
255	wi00886321	ISS1:1OF1	p31009_1	13/03/2014	p31009_1.cpl	NO
256	wi01094835	iss1:lof1	p32718_1	13/03/2014	p32718_1.cpl	NO
257	wi01068149	ISS1:1OF1	p32454_1	13/03/2014	p32454_1.cpl	NO
258	wi01091939	ISS1:1OF1	p32364_1	13/03/2014	p32364_1.cpl	NO
259	wi01046740	ISS1:1OF1	p32382_1	13/03/2014	p32382_1.cpl	NO
260	wi01069871	ISS1:1OF1	p32467_1	13/03/2014	p32467_1.cpl	NO
261	wi01113711	ISS1:1OF1	p32877_1	13/03/2014	p32877_1.cpl	NO
262	wi00965838	ISS1:1OF1	p31623_1	13/03/2014	p31623_1.cpl	NO
263	wi00996639	ISS1:1OF1	p31886_1	13/03/2014	p31886_1.cpl	NO
264	wi00906163	ISS1:1OF1	p31205_1	13/03/2014	p31205_1.cpl	NO
265	wi01062070	ISS1:1OF1	p32398_1	13/03/2014	p32398_1.cpl	NO
266	wi00930864	ISS1:1OF1	p31325_1	13/03/2014	p31325_1.cpl	NO
267	wi00884699	ISS1:1OF1	p31000_1	13/03/2014	p31000_1.cpl	YES
268	wi00857566	ISS1:1OF1	p30766_1	13/03/2014	p30766_1.cpl	NO
269	wi01114694	ISS1:1OF1	p32885_1	13/03/2014	p32885_1.cpl	NO
270	wi00991892	ISS1:1OF1	p31853_1	13/03/2014	p31853_1.cpl	NO
271	wi00859499	ISS1:1OF1	p30694_1	13/03/2014	p30694_1.cpl	NO
272	wi01071562	ISS1:1OF1	p32484_1	13/03/2014	p32484_1.cpl	NO
273	wi00857362	ISS1:1OF1	p30782_1	13/03/2014	p30782_1.cpl	NO
MDP>LAST SUCCESSFUL MDP REFRESH :2013-01-14 21:08:59(Local Time)						
MDP>USING DEPLIST ZIP FILE DOWNLOADED :2013-01-11 11:29:20(est)						

Appendix B

Avaya Communication Server 1000E D-Channel for SIP Trunks

```
>ld 22
REQ prt
TYPE adan dch 1
ADAN DCH 1
CTYP DCIP
DES SIPL
USR ISLD
ISLM 4000
SSRC 3700
OTBF 32
NASA NO
IFC SL1
CNEG 1
RLS ID 25
RCAP
MBGA NO
H323
OVLN NO
OVLN NO
```

Avaya Communication Server 1000E SIP Route

```
>ld 21
REQ: prt
TYPE: rdb
CUST 0
ROUT 22
TYPE RDB
CUST 00
ROUT 22
DES SIPTRK
TKTP TIE
M911P NO
ESN NO
RPA NO
CNVT NO
SAT NO
RCLS EXT
VTRK YES
ZONE 00066
PCID SIP
CRID YES
SBWM NO
NODE 111
DTRK NO
ISDN YES
MODE ISLD
DCH 1
IFC SL1
PNI 00001
NCNA YES
NCRD YES
TRO YES
FALT NO
```

CTYP UKWN
INAC NO
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 8022
TCPP NO
PII NO
AUXP NO
TARG
CLEN 1
BILN NO
OABS
INST
IDC NO
DCNO 0 *
NDNO 0
DEXT NO
ANTK
SIGO STD
STYP SDAT
MFC NO
ICIS YES
OGIS YES
PTUT 0
TIMR ICF 1920
OGF 1920
EOD 13952
LCT 256
DSI 34944
NRD 10112
DDL 70
ODT 4096
RGV 640
GTO 896
GTI 896
SFB 3
PRPS 800
NBS 2048
NBL 4096
IENB 5
TFD 0
RTD 12
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 NO
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
PECL NO
DCTI 0
TIDY 8022 22
ATRR NO
TRRL NO
SGRP 0
CCBA NO
ARDN NO
CTBL 0
ANIE 0
CAC_CIS 3
AACR NO

Avaya Communication Server 1000E Trunk Channel

```
>ld 20
REQ: prt
TYPE: tn
TYPE TNB
TN 100 0 3 0
DES SIPTRK
TN 100 0 03 00 VIRTUAL
TYPE IPTI
CDEN 8D
CUST 0
XTRK VTRK
ZONE 00066
TIMP 600
BIMP 600
AUTO_BIMP NO
NMUS NO
TRK ANLG
NCOS 0
RTMB 22 1
CHID 11
TGAR 0
STRI/STRO IMM IMM
SUPN YES
AST NO
IAPG 0
CLS UNR DIP CND ECD WTA LPR APN THFD XREP SPCD MSBT
P10 NTC MID
TKID
AACR NO
DATE 27 AUG 2013
```

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