



## Avaya Solution & Interoperability Test Lab

# **Application Notes for Configuring Capita Secure Information Solutions DS3000 with Avaya Aura® Session Manager R6.3 and Avaya Communication Server 1000E R7.6 using SIP Trunks - Issue 1.0**

## **Abstract**

These Application Notes describe the configuration steps for provisioning Capita Secure Information Solutions DS3000 to interoperate with Avaya Aura® Session Manager R6.3 and Avaya Communication Server 1000E R7.6.

Readers should pay particular attention to the scope of testing as outlined in Section 2.1, as well as observations noted in Section 2.2 to ensure that their own use cases are adequately covered by this scope and results.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

## **1. Introduction**

These Application Notes describe the configuration steps for provisioning DS3000 from Capita Secure Information Solutions to interoperate with Avaya Aura® Session Manager R6.3 connected to an Avaya Communication Server 1000E R7.6 (CS1000E). The DS3000 is an Integrated Communication Control System that is used by emergency service customers for answering 999/112 calls and then from the same application using radio communication (TETRA digital radio or analogue PMR) to pass details to mobile resources.

As a radio dispatch deployment with basic PTN/PSTN the DS3000 acts as an end PBX and performs call prioritisation and distribution to DS3000 operators as defined by the profile in which they have logged in to the DS3000 application. In this type of configuration the DS3000 has one primary connection to the Avaya Solution, a SIP connection to Avaya Aura ® Session Manager. The DS3000 supports basic call control including hold and transfer.

Please note that this setup allows for non-Automatic Call Distributed (ACD) calls only. The configuration setup in an ACD or Contact Center environment is outlined in the Application Notes titled *Application Notes for Configuring Capita Secure Information Solutions DS3000 with Avaya Aura® Contact Center R6.4 and Avaya Communication Server 1000E R7.6 using a Lineside E1 Connection*.

## **2. General Test Approach and Test Results**

The interoperability compliance testing evaluates the ability of the DS3000 application to make and receive calls to and from Avaya 1140E UNIStim, SIP and digital deskphones. All calls destined for the DS3000 both locally and from the PSTN are routed to the DS3000 over SIP trunks using Session Manager to route the calls.

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

## **2.1. Interoperability Compliance Testing**

The interoperability compliance testing focuses on various technical testing scenarios to verify the usage of DS3000 with the Avaya solution. In addition, serviceability tests were also performed to assess the reliability and accuracy of the joint solution. The testing focused on the following types of calls:

- **Calls to CS1000E extensions** – Ensure that calls can be made to CS1000E extensions from the DS3000.
- **Calls to DS3000 Operators** – Ensure that calls can be made to the DS3000 operators from CS1000E extensions.
- **Calls to PSTN from DS3000 Operators** - Ensure that calls can be made from the DS3000 to PSTN across the SIP trunk through the CS1000E.
- **Calls from PSTN into DS3000 Operators** – Ensure that calls can be made to the DS3000 from the PSTN by calling into the CS1000E and across the SIP trunk to the DS3000.
- **Hold/transfer and conference functionality**– Verify that calls can be placed on hold and transferred and conferenced.
- **Caller information is preserved on all calls to/from DS3000** – Ensure that the correct CLID information is preserved.
- **Failover testing** - Verify the behaviour of DS3000 application under different simulated LAN failure conditions on the Avaya platform.

## **2.2. Test Results**

All Test Cases passed except for the following observation.

1. When dialling from a SIP 1140E (ext 3021) into DS3000 (ext 50000) when answered on the DS3000, the CS1000E SIP phone shows the call as being “remote hold”.

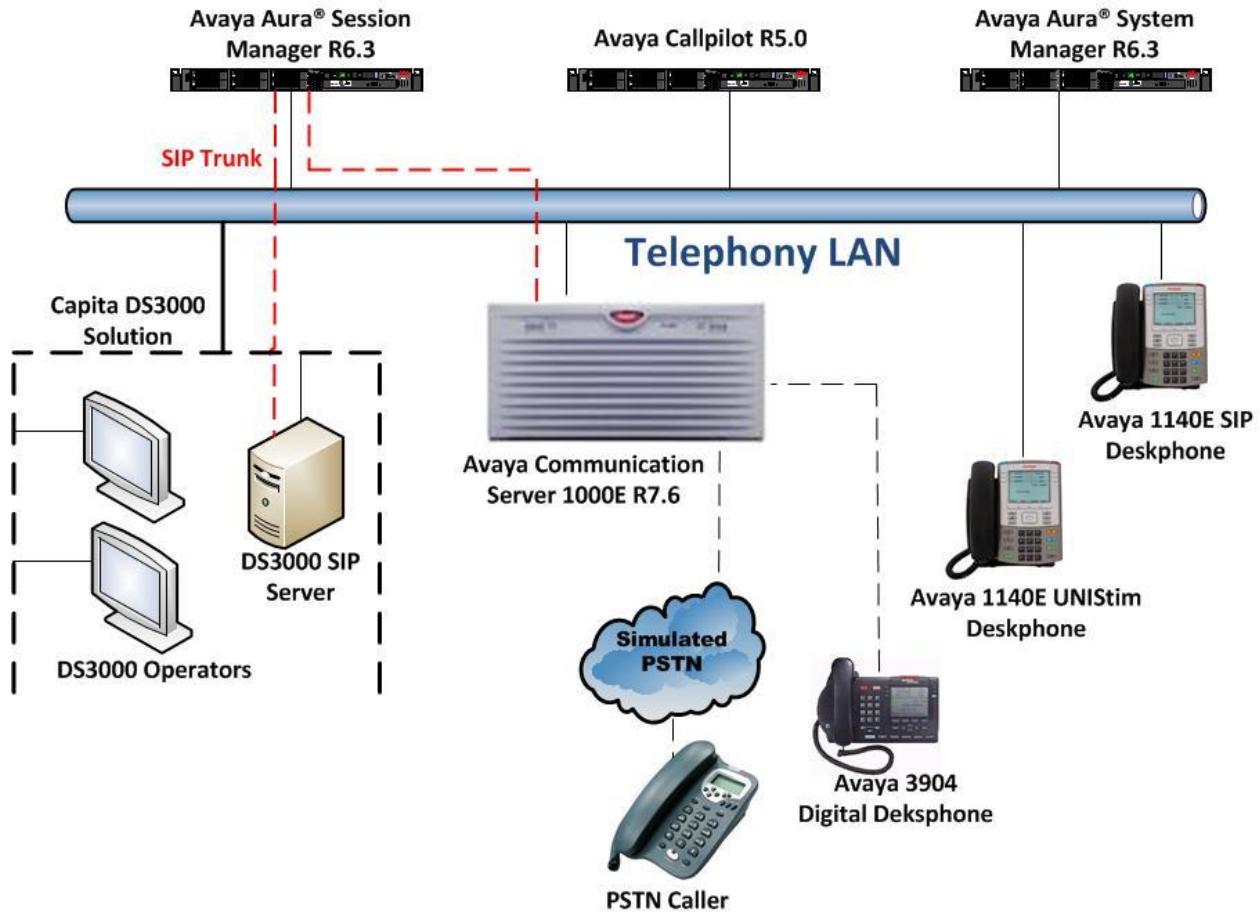
## **2.3. Support**

Support from Avaya is available by visiting the website <http://support.avaya.com> and a list of product documentation can be found in **Section 11** of these Application Notes. Technical support for the Capita DS3000 product can be obtained as follows.

- Tel : + 44 (0) 8456 041999
- Email: [csis.info@capita.co.uk](mailto:csis.info@capita.co.uk)

### 3. Reference Configuration

Figure 1 shows the setup for compliance testing Capita's DS3000 with CS1000E and Session Manager using SIP signalling over SIP trunks to pass callers from the CS1000E to the DS3000 extensions.



**Figure 1: Connection of Capita DS3000 with Avaya Communication Server 1000E R7.6 and Avaya Aura® Session Manager R6.3**

## 4. Equipment and Software Validated

The following equipment and software was used for the compliance test.

Device Description	Versions Tested
Avaya Communication Server 1000E running on CPPM	R7.6 (See <b>Appendix A</b> for Patch details)
Avaya Aura® System Manager running on a Virtual Platform	R6.3.9 [Build 6.3.0.8.5682-6.3.8.4414] [SW Update Rev 6.3.9.1.2482]
Avaya Aura® Session Manager running on a Virtual Platform	R6.3 [Build 6.3.9.0.639011]
Avaya Call Pilot 600r Server	Avaya Call Pilot Version 5.00.41 Patch Line-up: CP50041SU08S CP500508G09C
Avaya 1140 UNIStim Deskphone	UNIStim V0625C8D
Avaya 1140 SIP Deskphone	SIP 04.03.12.00
Avaya 3904 Digital set	Core Firmware 024 Flash Firmware 094
Capita DS3000 Solution Kit (DSX Converged Versions 2013 R1 and later) - Aculab Dual Redundant SIP Server	Release 2x Series V6.5.13

## 5. Configure Avaya Communication Server 1000E

It is assumed that a fully functioning CS1000E is in place with the necessary licensing and with SIP trunks in place to Session Manager. See **Appendix B** for a printout of the SIP route, d-channel, and trunk information. For further information on the configuration of CS1000E please see reference [1] in **Section 11** of these Application Notes. “Putty” is used to administer the CS1000E. Using Putty, open an SSH Session to the Node IP address of the CS1000E, log in to the CS1000E Linux application using the appropriate credentials and type **cslogin** (not shown) to gain access to the PBX command line.

**Note:** A simulated PSTN connection was present on the CS1000E in the form of a QSIG ISDN connection, the configuration of which is outside the scope of these Application Notes.

### 5.1. Configure a Dial Plan for Capita DS3000

A Coordinated Dial Plan is added to place calls across the SIP trunk to the DS3000. Add a Route List Block (**RLB**) to place calls over the SIP route that is already configured on the system. Note that an **RLB** may already be in place but the following procedure shows the addition of a new RLB. Enter overlay 86 to configure a new RLB by typing **LD 86** at the > prompt. A new Route List Index (**RLI**) is added with an **ENTR 0** of that of the SIP route used.

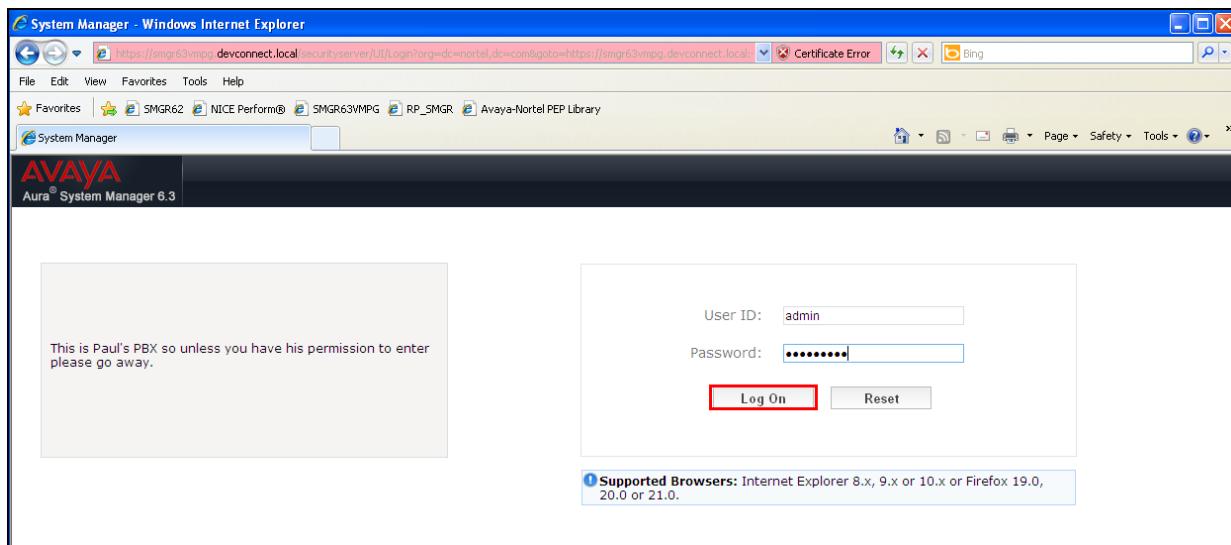
Prompt	Response	Description
>	<b>LD 86</b>	Enter Overlay 86
REQ	new	new/add
CUST	0	Customer number (default is 0)
FEAT	<b>r1b</b>	Route List Block
<b>RLI</b>	20	Route List index Number (any unused number)
<b>ENTR</b>	<b>0</b>	First Entry (0-2)
ROUT	20	Route Number (See <b>Appendix B</b> for info on Route 20)
DMI	0	Digit Manipulation Table (default is 0)
Return to end		

Once the **RLB** is added, the Coordinated Dial Plan (**CDP**) is added in the form of a Distance Steering Code (**DSC**). Note that in the example below, **50000** is the **DSC** as this is the extension number used for the DS3000 Application during the compliance testing. Enter overlay 87 to add a new **CDP** by typing **LD 87** at the > prompt.

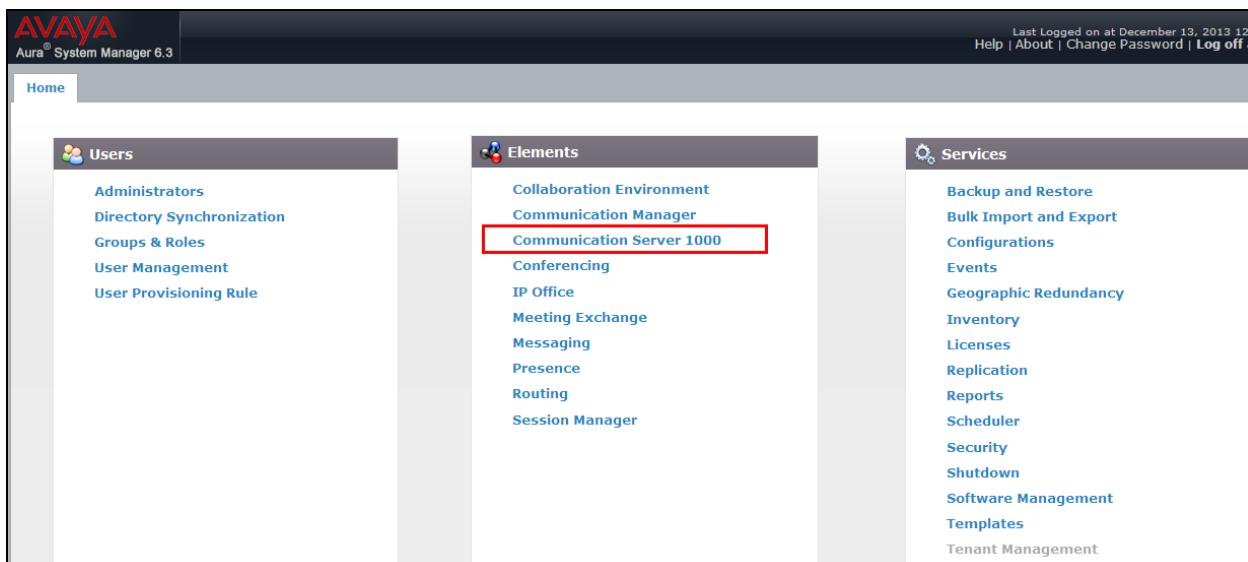
Prompt	Response	Description
>	<b>LD 87</b>	Enter Overlay 87
REQ	new	new/add
CUST	0	Customer number (default is 0)
FEAT	<b>cdp</b>	Coordinated Dial Plan
TYPE	<b>dsc</b>	Distance Steering Code
DSC	<b>50000</b>	Extension number of the DS3000 Application
FLEN	5	Ext Length
DSP	LSC	DSP Type (Least Cost Routing)
RLI	20	Which RLB to use (Enter the RLB setup above)
Return to end		

## 6. Configure Avaya Communication Server 1000E Signalling Server

Access to the CS1000E Signalling Server is achieved by logging into 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.



Once logged in, click on **Communication Server 1000** as highlighted.



The following screen appears showing the various **Elements**, select **EM on cs1kpg** (note this name may appear different depending on the system).

This screenshot shows the Avaya Aura System Manager 6.3 interface. The left sidebar contains navigation links for Network, User Services, Security, and Tools. The main area is titled "Elements" and displays a list of registered elements. The list includes:

Element Name	Element Type	Release	Address	Description
smgr63vmpg.devconnect.local (primary)	Base OS	7.6	10.10.40.32	Base OS element.
<b>EM on cs1kpg1</b>	CS1000	7.6	192.168.40.101	New element.
cs1kpg1.devconnect.local (member)	Linux Base	7.6	10.10.40.101	Base OS element.
192.168.40.102	Media Gateway Controller	7.6	192.168.40.102	New element.
NRSM on cs1kpg1	Network Routing Service	7.6	192.168.40.101	New element.

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

This screenshot shows the CS1000 Element Manager interface under the "IP Telephony Nodes" section. The left sidebar lists various network services and nodes. The main pane displays a table of nodes with the following data:

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

Select **Gateway (SIPGw)** highlighted.

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

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)** (highlighted)
- Personal Directories (PD)
- Presence Publisher
- IP Media Services

\* Required Value.

**Associated Signaling Servers & Cards**

Select to add	Add	Remove	Make Leader	Print   Refresh		
Hostname	Type	Deployed Applications	ELAN IP	T LAN IPv4	Role	
cs1kpg1	Signaling_Server (SIP/H323, PD, Presence Publisher, IP Media Services)	SIP Line, LTPS, Gateway	192.168.40.101	10.10.40.101	Leader	

Show:  IPv6 address

Enter the correct SIP domain name note this will be referenced again in **Section 7.1**.

**Node ID: 111 - Virtual Trunk Gateway Configuration Details**

Vtrk gateway application:  Enable gateway service on this node

**General**

Virtual Trunk Network Health Monitor

Vtrk gateway application:	SIP Gateway (SIPGw) <input type="button" value=""/>
SIP domain name:	devconnect.local <input type="text"/>
Local SIP port:	5060 <input type="text"/> * (1 - 65535)
Gateway endpoint name:	CS1KPG1 <input type="text"/>
Gateway password:	<input type="text"/>
Application node ID:	111 <input type="text"/> * (0-9999)
Enable failsafe NRS:	<input type="checkbox"/>

Note: FailSafe NRS cannot be enabled, if all servers in the node have NRS application 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:

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

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.

**CS1000 Element Manager**

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

**Node ID: 111 - Virtual Trunk Gateway Configuration Details**

**General | SIP Gateway Settings | SIP Gateway Services**

**Proxy Or Redirect Server:** **Proxy Server Route 1:**

- Primary TLAN IP address: **10.10.40.34**
- The IP address can have either IPv4 or IPv6 format based on the value of "TLAN address type"
- Port: **5060** (1 - 65535)
- Transport protocol: **TCP**
- Options:
  - 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**

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

**Save** **Cancel**

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

**CS1000 Element Manager**

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

**Node ID: 111 - Virtual Trunk Gateway Configuration Details**

**General | SIP Gateway Settings | SIP Gateway Services**

**Proxy Server Route 2:**

- Primary TLAN IP address: **10.10.40.34**
- The IP address can have either IPv4 or IPv6 format based on the value of "TLAN address type"
- Port: **5060** (1 - 65535)
- Transport protocol: **TCP**
- Options:
  - Support registration
  - Tertiary CDS proxy
  - Primary CDS proxy

**CLID Presentation:**

Country code (CCC):

Area code:  NPA in North America

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

**Save** **Cancel**

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

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

Node ID:	111	(0-9999)
Call server IP address:	192.168.40.101	T LAN address type: <input checked="" type="radio"/> IPv4 only <input type="radio"/> IPv4 and IPv6
Embedded LAN (ELAN)	Gateway IP address: 192.168.40.1	Telephony LAN (T LAN) Node IPv4 address: 10.10.40.111 Subnet mask: 255.255.255.0
	Subnet mask: 255.255.255.0	Node IPv6 address: [empty]
<small>* Required Value.</small> <div style="text-align: right;"> <input style="border: 2px solid red; padding: 2px; margin-right: 10px;" type="button" value="Save"/><input type="button" value="Cancel"/> </div>		

**Associated Signaling Servers & Cards**

Select to add	Add	Remove	Make Leader	Print   Refresh		
Hostname	Type	Deployed Applications	ELAN IP	T LAN IPv4	Role	
cs1kpg1	Signaling_Server (SIP/H323), PD, Presence	SIP Line, LTPS, Gateway	192.168.40.101	10.10.40.101	Leader	

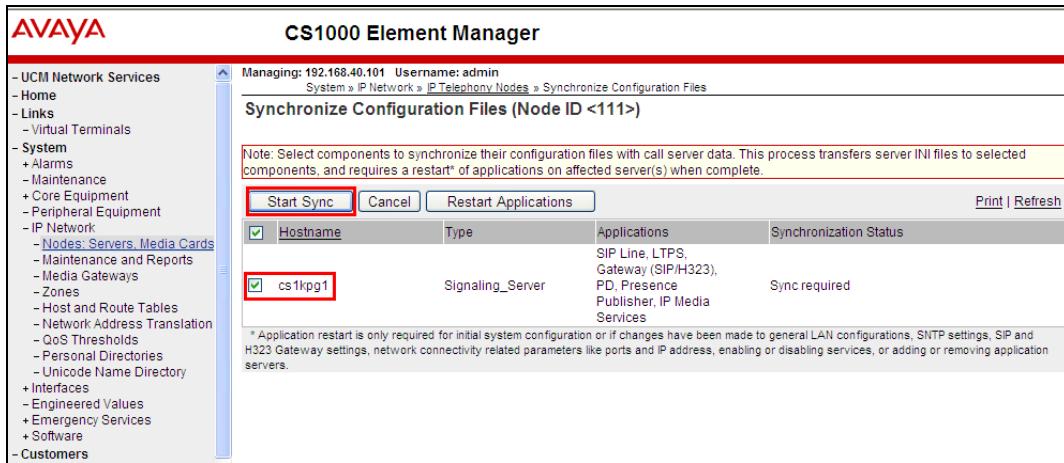
Select **Transfer Now** as shown below.

**Node Saved**

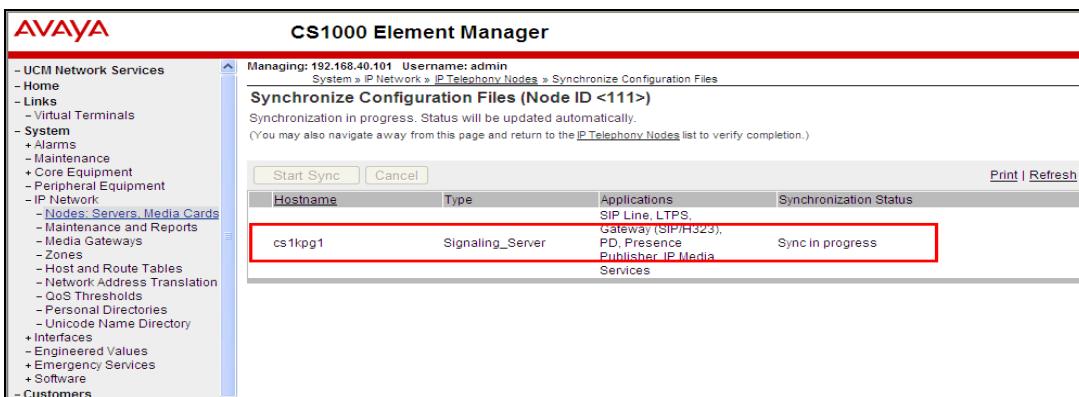
Node ID: 111 has been saved on the call server.  
The new configuration must also be transferred to associated servers and media cards.

<b>Transfer Now...</b>	You will be given an option to select individual servers, or transfer to all.
<b>Show Nodes</b>	You may initiate a transfer manually at a later time.

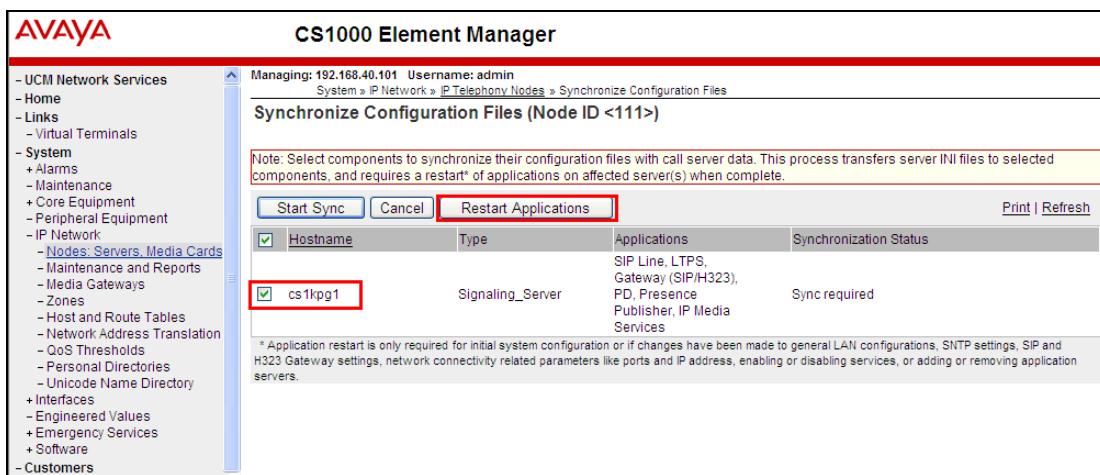
The following screen is displayed requiring that synchronization is performed followed by a restart of the Applications. Ensure the **Hostname** is ticked and click on **Start Sync**.



The following screen shows the **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.



## 7. Configure Avaya Aura® Session Manager

In order to make changes in Session Manager a web session is established to System Manager. Log into System Manager by opening a web browser and navigating to `http://<System Manager IP Address>/SMGR`. Enter the appropriate credentials for the **User ID** and **Password** and click on **Log On** highlighted below.

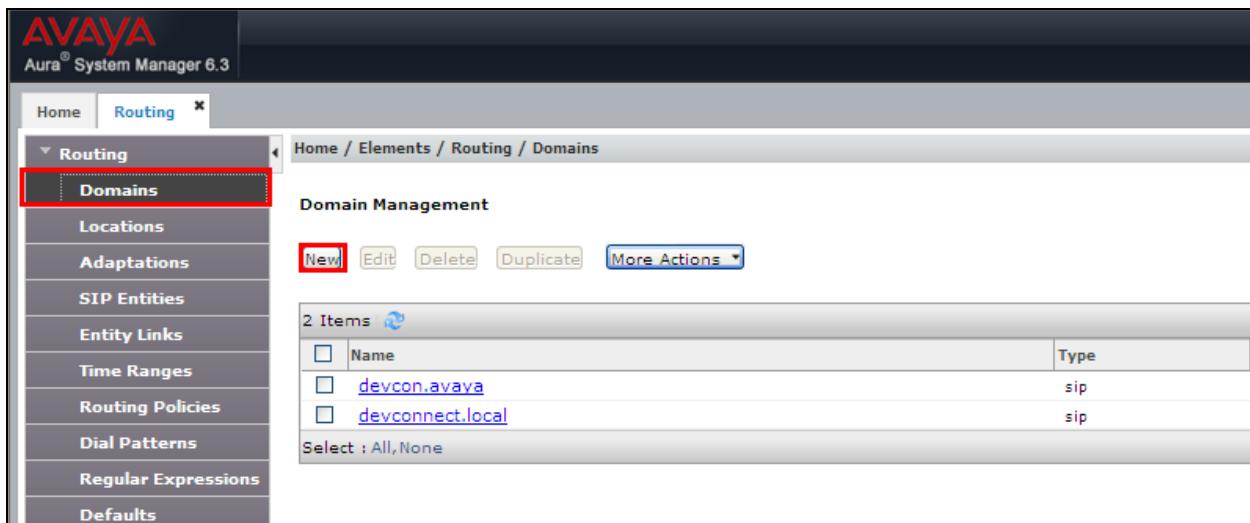
Once logged in click on **Routing** highlighted below.

## 7.1. Domains and Locations

**Note:** It is assumed that a domain and a location have already been setup and a SIP trunk already in place to the CS1000E. Therefore, a quick overview of the domain and location that was used in compliance testing is only provided here.

### 7.1.1. Add a new Domain

If a domain is not already in place then click on **New** as is highlighted below.



The screenshot shows the Avaya System Manager 6.3 interface. The top navigation bar includes 'Home' and 'Routing'. Under 'Routing', the 'Domains' option is selected and highlighted with a red box. The main content area is titled 'Domain Management' and shows a table with two items: 'devcon.avaya' and 'devconnect.local', both of which are of type 'sip'. There are buttons for 'New', 'Edit', 'Delete', 'Duplicate', and 'More Actions' at the top of the list.

Enter the domain **Name**, note this will be the same as that domain configured in **Section 5.5**, and ensure the **Type** is set to **SIP**. Click on **Commit** once done.



This screenshot shows the 'Domain Management' screen after a new domain has been added. The table now contains one item: '\*devconnect.local' with a 'Type' of 'sip'. The 'Commit' and 'Cancel' buttons are visible at the bottom right of the table area.

### 7.1.2. Add a new Location

If a location is not already in place then one must be added to include the IP address range of the Avaya solution. Click on **New** as is highlighted below to add a new location.

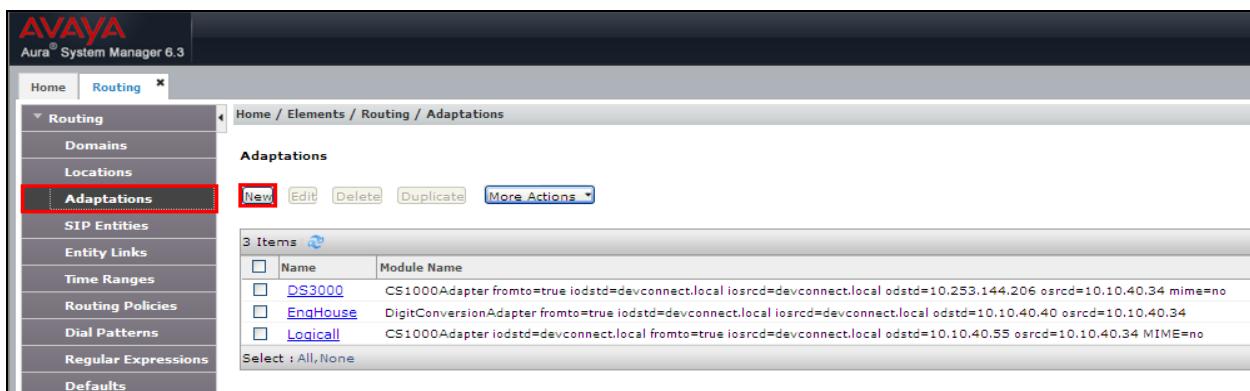
The screenshot shows the Avaya System Manager 6.3 interface. The title bar reads "AVAYA" and "Aura® System Manager 6.3". The top navigation bar has tabs for "Home" and "Routing". Under "Routing", there is a dropdown menu with options: Domains, Locations (which is selected and highlighted with a red box), Adaptations, SIP Entities, Entity Links, Time Ranges, Routing Policies, Dial Patterns, Regular Expressions, and Defaults. The main content area is titled "Location". At the top of this area are buttons for "New", "Edit", "Delete", "Duplicate", and "More Actions". Below these buttons, it says "1 Item" with a refresh icon. A table follows, with columns for "Name" and "Correlation". There is one row in the table with a checkbox next to "Name" and the value "DevConnectPG63". At the bottom of the table, there is a "Select" dropdown set to "All, None".

Enter a suitable **Name** and add the IP address ranges at the bottom of the screen under **Location Pattern** and click on **Commit** once this is done.

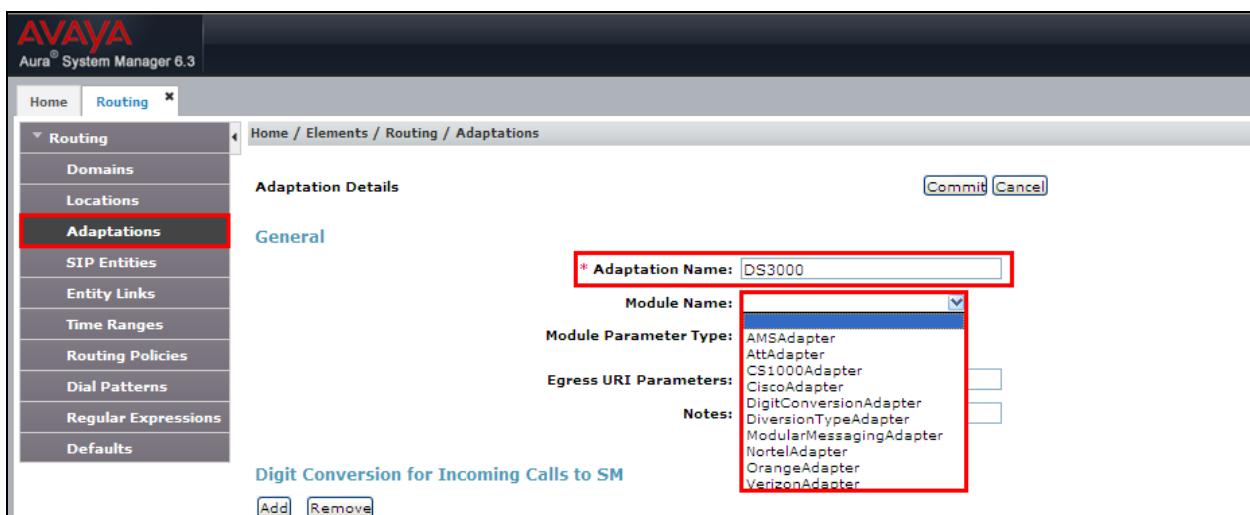
The screenshot shows the Avaya Aura System Manager 6.3 interface. The left sidebar has a tree view with 'Locations' selected. The main panel shows 'Location Details' for a new location named 'DevConnectPG63'. It includes sections for 'General' (with fields for Name and Notes), 'Dial Plan Transparency in Survivable Mode' (with Enabled checkbox and dropdowns for Listed Directory Number and Associated CM SIP Entity), 'Overall Managed Bandwidth' (with dropdowns for Managed Bandwidth Units and Total/Multimedia Bandwidth, and a checked checkbox for Audio Calls Can Take Multimedia Bandwidth), 'Per-Call Bandwidth Parameters' (with dropdowns for Maximum Multimedia Bandwidth (Intra-Location) and Inter-Location, and fields for Minimum Multimedia Bandwidth and Default Audio Bandwidth), and 'Alarm Threshold' (with dropdowns for Overall and Multimedia Alarm Thresholds, and fields for Latency before Trigger). At the bottom, there's a 'Location Pattern' section with an 'Add' button, a table showing two IP Address Patterns (\*10.10.40.\* and \*192.168.50.\*), and 'Commit' and 'Cancel' buttons.

## 7.2. Creating an Adaptation for the DS3000

An adaptation can allow the altering of SIP Message. An adaptation is created to convert domain names to IP addresses. Select **Adaptations** from the left window and click on **New** in the main window.



Enter a suitable **Adaptation Name**, select **DigitConversionAdapter** for the **Module Name**.



The **Module Parameter Type** should be set to **Name-Value Parameter**. Add the following module parameters:

- **fromto=true**
- **iodstd=devconnect.local**
- **iosrcd=devconnect.local**
- **odstd=10.253.144.206**
- **osrcd=10.10.40.34**

In this example 10.253.144.206 is the DS3000 SIP Gateway and 10.10.40.34 is the Session Manager SM100 IP Address, these IP addresses may need to be changed to suit accordingly. **devconnect.local** is the domain name as per **Section 7.1**.

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

Add the remaining module parameters and click on **Commit** once completed.

Name	Value
odstd	10.253.144.206
osrcd	10.10.40.34

## 7.3. Adding DS3000 as a SIP Entity

Click on **SIP Entities** in the left column and select **New** in the right window.

The screenshot shows the Avaya System Manager 6.3 interface. The left sidebar has a 'Routing' section with several options: Domains, Locations, Adaptations, and a red-highlighted 'SIP Entities'. Below it are Entity Links, Time Ranges, Routing Policies, Dial Patterns, and Regular Expressions. The main content area is titled 'SIP Entities' and shows a table with 13 items. The columns are 'Name', 'FQDN or IP Address', and 'Type'. The entries are: AAMessaging (192.168.50.60, SIP Trunk), AAOA (10.10.40.45, SIP Trunk), AstraBS1 (10.10.40.75, SIP Trunk), and AstraBS2 (10.10.40.76, SIP Trunk). At the top of this screen are buttons for New, Edit, Delete, Duplicate, and More Actions.

Enter a suitable **Name** for the new SIP Entity and the **IP Address** of the DS3000, which is the floating IP address of the DS3000 SIP Server. Enter the correct **Time Zone** and **Location** and click on **Commit**.

The screenshot shows the 'SIP Entity Details' configuration dialog. The left sidebar has a 'Routing' section with 'SIP Entities' highlighted. The main area is titled 'General'. It contains fields for Name (Capita), FQDN or IP Address (10.253.144.206), Type (SIP Trunk), Notes, and a large red box around the 'Adaptation' dropdown (set to DS3000), 'Location' dropdown (set to DevConnectPG63), and 'Time Zone' dropdown (set to Europe/Dublin). Below these are fields for SIP Timer B/F (in seconds) (4), Credential name, and Call Detail Recording (set to egress). At the top right are 'Commit' and 'Cancel' buttons.

## 7.4. Adding the DS3000 Entity Link

Two Entity links are added for the DS3000 as it can use both UDP and TCP to transport SIP messaging. Click on **Entity Links** in the left column and select **New** in the main window.

The screenshot shows the Avaya System Manager 6.3 interface. The left sidebar has a tree view with 'Routing' expanded, showing 'Domains', 'Locations', 'Adaptations', 'SIP Entities', and 'Entity Links'. The 'Entity Links' item is highlighted with a red box. The main window title is 'Home / Elements / Routing / Entity Links'. Below the title are buttons: 'New' (highlighted with a red box), 'Edit', 'Delete', 'Duplicate', and 'More Actions'. A table titled '13 Items' lists entity links. The columns are: Name, SIP Entity 1, Protocol, Port, SIP Entity 2, DNS Override, Port, and Connection Policy. The table contains five rows:

Name	SIP Entity 1	Protocol	Port	SIP Entity 2	DNS Override	Port	Connection Policy
AAMessaging	SM63vmpg	TCP	5060	AAMessaging	<input type="checkbox"/>	5060	trusted
AAOA_TCP_5060	SM63vmpg	TCP	5060	AAOA	<input type="checkbox"/>	5060	trusted
Aastral_UDP	SM63vmpg	UDP	5060	AastralB51	<input type="checkbox"/>	5060	trusted
Aastral2_UDP	SM63vmpg	UDP	5060	AastralB52	<input type="checkbox"/>	5060	trusted

Enter a suitable **Name** for the Entity Link and select the **Session Manager SIP Entity** for **SIP Entity 1** and the newly created DS3000 Entity called **Capita** for **SIP Entity 2**. Ensure that **TCP** is selected for the **Protocol** and that **Port 5060** is used. Click on **Commit** once finished to save the new Entity Link.

The screenshot shows the Avaya System Manager 6.3 interface. The left sidebar has a tree view with 'Routing' expanded, showing 'Domains', 'Locations', 'Adaptations', 'SIP Entities', and 'Entity Links'. The 'Entity Links' item is highlighted with a red box. The main window title is 'Home / Elements / Routing / Entity Links'. Below the title are buttons: 'Commit' (highlighted with a red box) and 'Cancel'. A table titled '1 Item' lists one entity link. The columns are: Name, SIP Entity 1, Protocol, Port, SIP Entity 2, DNS Override, Port, and Connection Policy. The table contains one row:

Name	SIP Entity 1	Protocol	Port	SIP Entity 2	DNS Override	Port	Connection Policy
*Capita_TCP_5060	*SM63vmpg	TCP	*5060	*Capita	<input type="checkbox"/>	*5060	trusted

Below the table is a button 'Select : All, None'. At the bottom right is a red box around the 'Commit' button.

A second Entity Link is added for UDP, enter a suitable **Name** for the Entity Link and select the **Session Manager SIP Entity** for **SIP Entity 1** and the newly created DS3000 Entity called **Capita** for **SIP Entity 2**. Ensure that **UDP** is selected for the **Protocol** and that **Port 5060** is used. Click on **Commit** once finished to save the new Entity Link.

Name	SIP Entity 1	Protocol	Port	SIP Entity 2	DNS Override	Port	Connection Policy
*Capita_UDP_5060	*SM63vmpg	UDP	*5060	*Capita		*5060	trusted

## 7.5. Adding the DS3000 Routing Policy

Click on **Routing Policies** in the left window and select **New** in the main window.

Name	Disabled	Retries	Destination
ToAAMessaging	<input type="checkbox"/>	0	AAMessaging
ToAAOA	<input type="checkbox"/>	0	AAOA
ToCS1KPG1	<input type="checkbox"/>	0	Capita
ToCS1KPG2	<input type="checkbox"/>	0	CM62

Enter a suitable **Name** for the Routing Policy and click on **Select** under **SIP Entity as Destination**, highlighted below.

Name	FQDN or IP Address	Type

Select the **Capita** SIP Entity as shown below and click on **Select**.

Name	FQDN or IP Address	Type
AAMessaging	192.168.50.60	SIP Trunk
AAOA	10.10.40.45	SIP Trunk
AastrabS1	10.10.40.75	SIP Trunk
AastrabS2	10.10.40.76	SIP Trunk
ASCOMDECT1	10.10.40.181	SIP Trunk
<b>Capita</b>	<b>10.253.144.206</b>	<b>SIP Trunk</b>
CM62	192.168.50.13	CM
CM63VMPG	10.10.40.31	CM
CS1KPG1	10.10.40.111	SIP Trunk
CS1KPG2	192.168.50.99	SIP Trunk
EnghouseCP	10.10.40.40	SIP Trunk
IPOfficeR9	10.10.40.50	SIP Trunk
SM63vmpg	10.10.40.34	Session Manager

The selected destination is now shown, click on **Commit** to save this.

Name	FQDN or IP Address	Type	Notes
<b>Capita</b>	<b>10.253.144.206</b>	<b>SIP Trunk</b>	

## 7.6. Adding a Dial Pattern for the DS3000

Select **Dial Patterns** in the left window and select **New** in the main window.

The screenshot shows the Avaya System Manager 6.3 interface. The left sidebar under the 'Routing' category has 'Dial Patterns' selected and highlighted with a red box. The main window title is 'Home / Elements / Routing / Dial Patterns'. Below the title, there is a toolbar with buttons for 'New' (highlighted with a red box), 'Edit', 'Delete', 'Duplicate', and 'More Actions'. A table titled '15 Items' lists dial patterns with columns for 'Pattern', 'Min', 'Max', 'Emergency Call' (checkbox), 'Emergency Type', 'Emergency Priority', and 'SIP Domain'. The first four rows show patterns 10, 2, 30, and 3006, all mapped to the 'devconnect.local' SIP domain.

Enter the required digits for the Pattern, in the example below 5000x is used, which means that 50000 – 50009 will use the Routing Policy that will be selected. **5000** is entered as the **Pattern** and the **Min** and **Max** digit length of **5** is used thus giving 5000x. Ensure that the correct domain is entered for **SIP Domain** in this example the domain created in **Section 7.1** is added. Click on **Add** under **Originating Locations and Routing Policies** in order to select this Routing Policy.

The screenshot shows the 'Dial Pattern Details' dialog box. The left sidebar under the 'Routing' category has 'Dial Patterns' selected and highlighted with a red box. The dialog has tabs for 'General' and 'Originating Locations and Routing Policies'. In the 'General' tab, fields for 'Pattern' (5000), 'Min' (5), and 'Max' (5) are highlighted with a red box. Other fields include 'Emergency Call' (unchecked), 'Emergency Priority' (1), 'Emergency Type' (empty), and 'SIP Domain' (set to 'devconnect.local'). The 'SIP Domain' field and the 'Notes' field below it are also highlighted with a red box. At the bottom of the dialog, there are 'Commit' and 'Cancel' buttons.

Select the Originating Location, this will be the location added in **Section 7.1** select the newly created routing policy for the DS3000 created in **Section 7.5** for **Routing Policies**.

The screenshot shows the Avaya System Manager 6.3 interface. The left sidebar is expanded to show the 'Routing' section, with 'Dial Patterns' selected. The main pane shows the 'Originating Location' dialog. Under 'Originating Location', there is a checkbox 'Apply The Selected Routing Policies to All Originating Locations'. Below this is a list titled '1 Item' containing a checked item 'Name DevConnectPG63'. A red box highlights this item. At the top right of the dialog are 'Select' and 'Cancel' buttons. Below the dialog is a table titled 'Routing Policies' with 9 items. One row, 'To Capita', is highlighted with a red box. The table columns include 'Name', 'Disabled', and 'Destination'. Other entries include 'ToAAMessaging' (disabled, destination AAMessaging), 'ToAAOA' (disabled, destination AAOA), and 'ToCM62' (disabled, destination CM62).

With the Routing Policy selected click on **Commit** to finish adding the **Dial Pattern**.

The screenshot shows the Avaya System Manager 6.3 interface. The left sidebar is expanded to show the 'Routing' section, with 'Dial Patterns' selected. The main pane shows the 'Dial Pattern Details' dialog. Under 'General', there are fields for 'Pattern' (5000), 'Min' (5), 'Max' (5), 'Emergency Call' (unchecked), 'Emergency Priority' (1), 'Emergency Type' (empty), 'SIP Domain' (devconnect.local), and 'Notes' (empty). At the top right of the dialog are 'Commit' and 'Cancel' buttons, with 'Commit' highlighted by a red box. Below the dialog is a table titled 'Originating Locations and Routing Policies'. It has columns for 'Originating Location Name', 'Originating Location Notes', 'Routing Policy Name', 'Rank', 'Routing Policy Disabled', 'Routing Policy Destination', and 'Routing Policy Notes'. A single row is present, showing 'DevConnectPG63' as the originating location, 'To Capita' as the routing policy, a rank of 0, and 'Capita' as the destination. This row is also highlighted with a red box. At the bottom of the table are 'Add' and 'Remove' buttons.

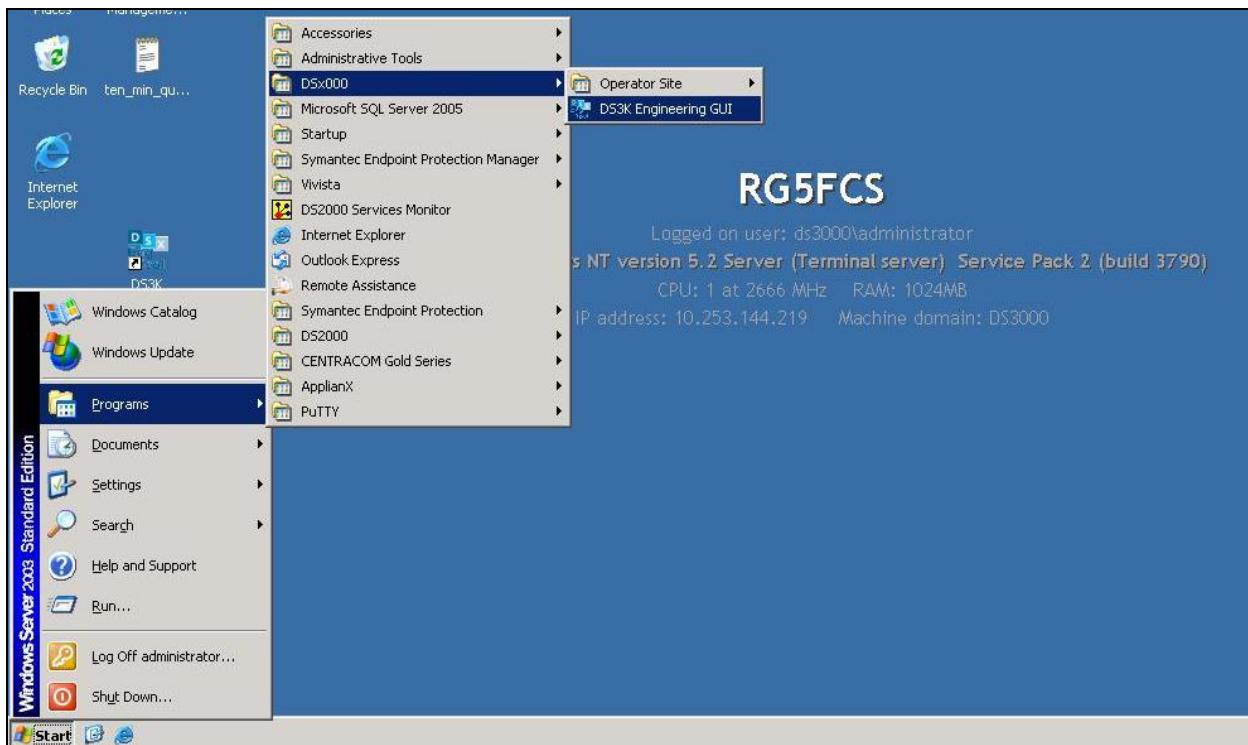
## 8. Configure Capita DS3000 Application

The following sections describe the steps required to configure the DS3000 application in order to connect successfully with Session Manager using SIP trunks.

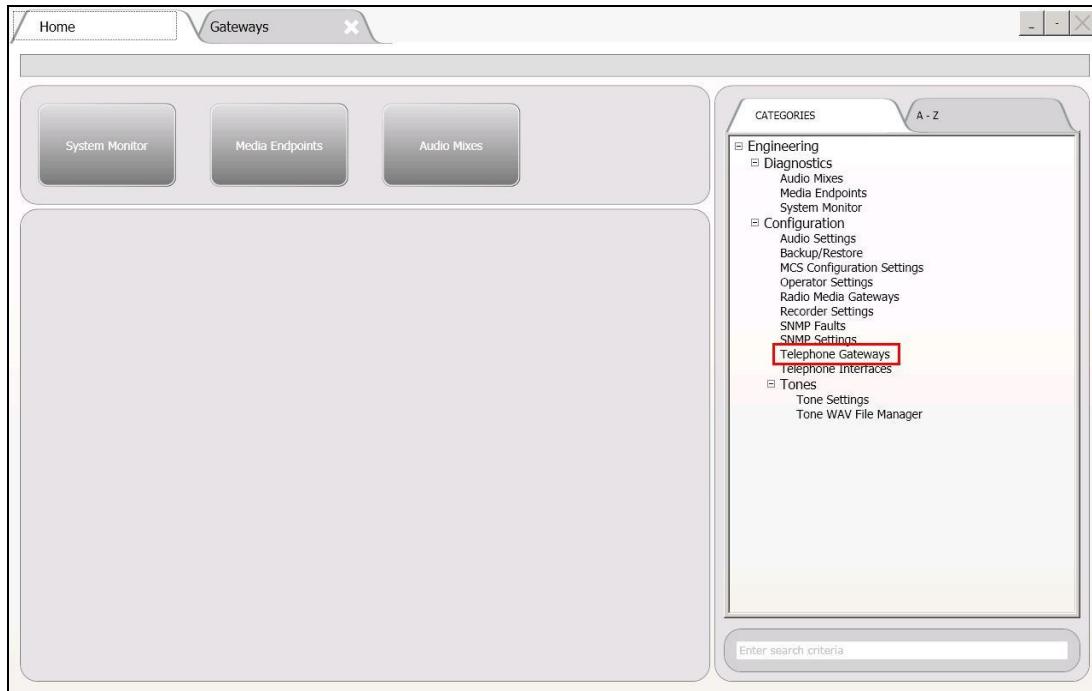
### 8.1. Configure DS3000 connection to Session Manager

The configuration for the connection to Session Manager is performed on the DS3000 FCS machine.

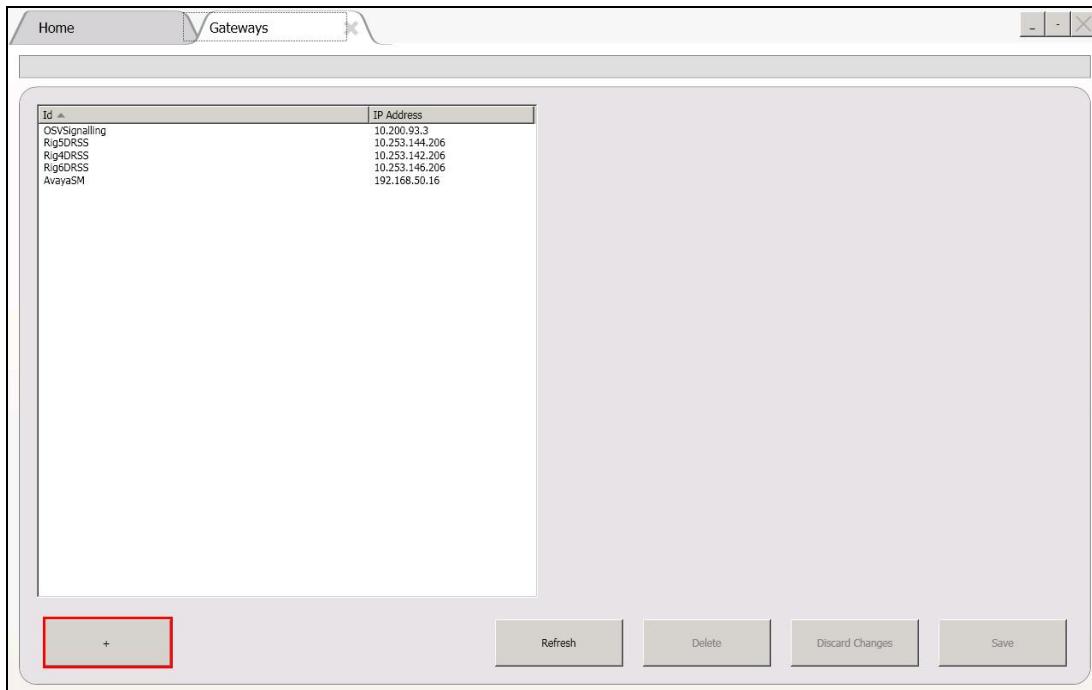
Log in to **DS3K Engineering GUI** as shown below on the DS3000 FCS Server.



Once logged in the following screen appears. Select **Telephone Gateways** in the right column, highlighted below.



The **Gateways** tab is opened. Select the + icon at the bottom left of the screen.



Fill in the **Gateway Id** and **IP Address** information. This will be the IP address of the Session Manager.

The screenshot shows the Avaya Session Manager interface. The top navigation bar has tabs for Home and Gateways, with 'Gateways' selected. A red box highlights the 'Gateways' tab. Below the tabs is a table listing gateways with columns for Id and IP Address. One row, 'Avaya63SM', is selected and highlighted with a dark blue background. To the right of the table, there are two input fields: 'Gateway Id' containing 'Avaya63SM' and 'IP Address' containing '10.10.40.34'. Both of these fields are also highlighted with red boxes.

Id	IP Address
OSVSignalling	10.200.93.3
Rig5DRSS	10.253.144.206
Rig4DRSS	10.253.142.206
Rig6DRSS	10.253.146.206
AudioCodesM2000	10.253.144.125
AvayaSM	192.168.50.16
Avaya63SM	10.10.40.34

Gateway Id: Avaya63SM

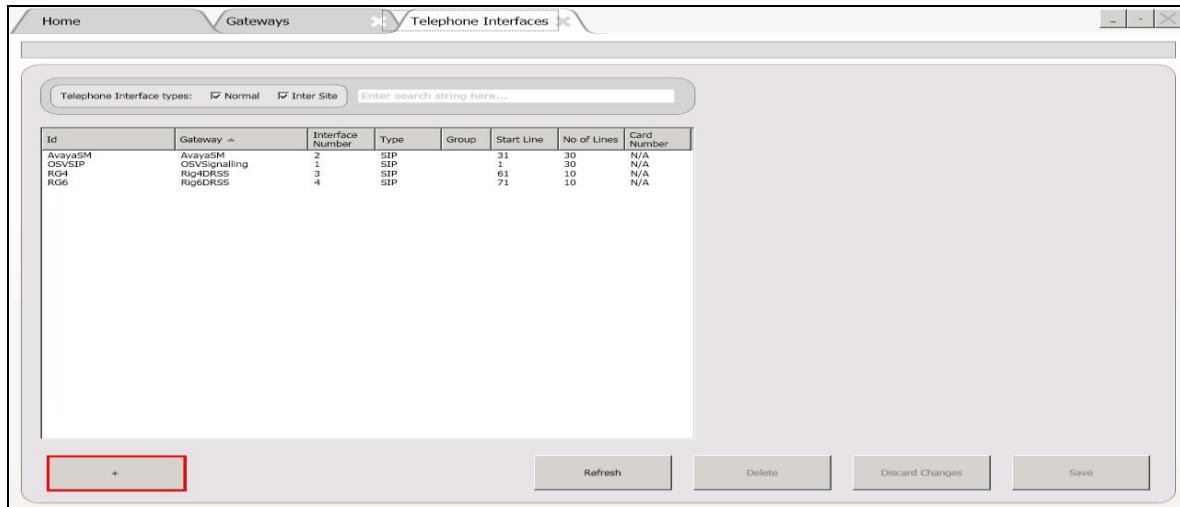
IP Address: 10.10.40.34

Click on the **Home** tab and select **Telephone Interfaces** in the right column as highlighted below.

The screenshot shows the Avaya Session Manager interface with the 'Home' tab selected. In the center, there are three buttons: 'System Monitor', 'Media Endpoints', and 'Audio Mixes'. On the right side, there is a sidebar titled 'CATEGORIES' with a tree view. The 'Telephone Gateways' node is expanded, and its child node 'Telephone Interfaces' is selected and highlighted with a red box. Other nodes in the tree include 'Engineering', 'Diagnostics', 'Configuration', 'Tones', and 'Tone Settings'. The 'A - Z' link is also visible at the top of the sidebar.

- Engineering
- Diagnostics
- Configuration
- Tones
- Telephone Gateways
  - Telephone Interfaces
  - Tone Settings
  - Tone WAV File Manager

The **Telephone Interfaces** tab is opened. Select the + icon at the bottom left of the screen to add a new Telephone interface.



All the information in the right column must be filled in. The screen below shows the information that was used during compliance testing. Click on **Save** at the bottom right of the screen once all the information has been entered correctly. Note, set the **Operator ringing tone generation** to **Always generate** only when there is no “early media” set on the PBX.

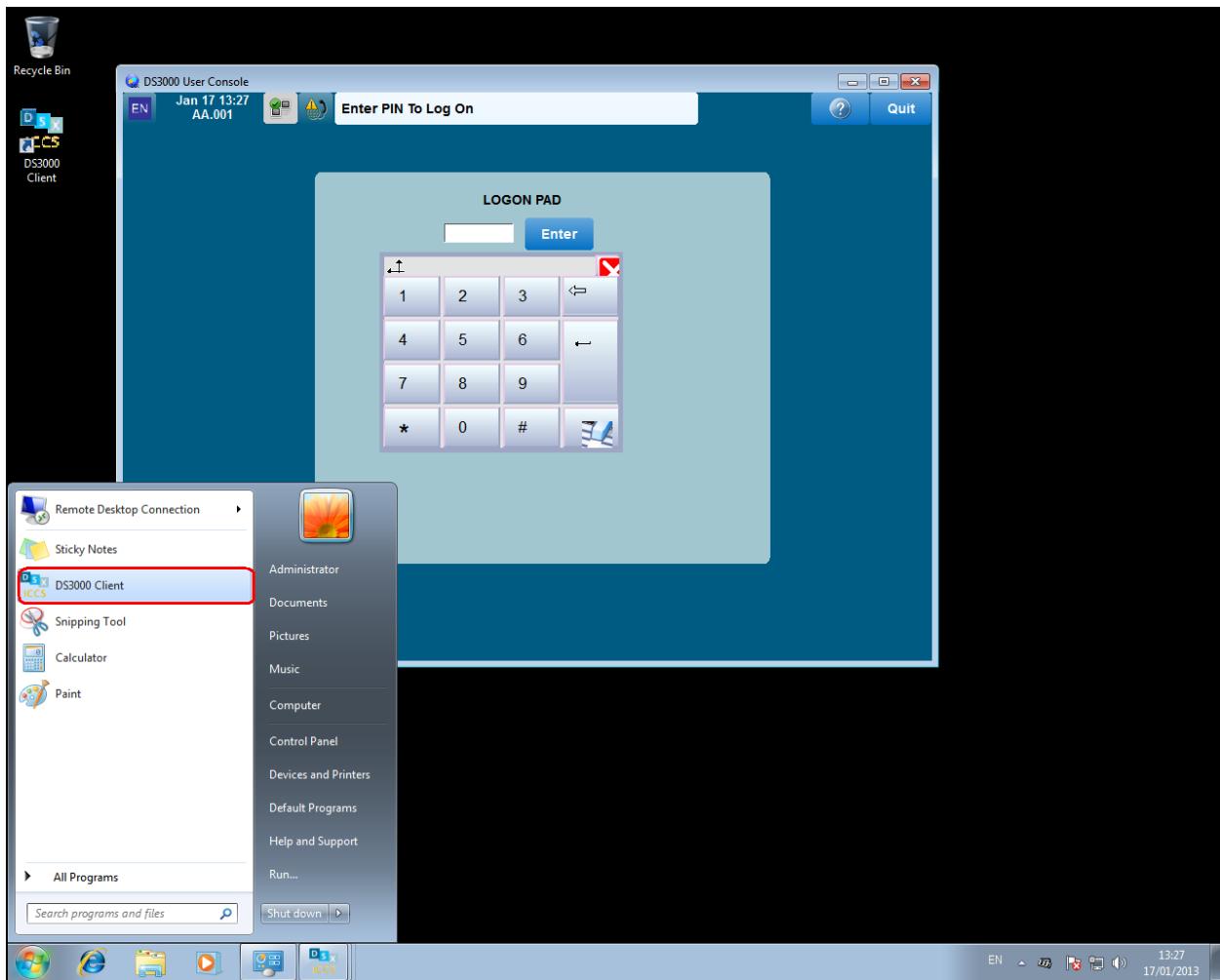
ID	Gateway	Interface Number	Type	Group	Start Line	No of Lines	Card Number
AACCAgent	AudioCodesM2000	5	SIP		81	30	5
<b>AvayaSM63</b>	<b>Avaya63M</b>	<b>6</b>	<b>SIP</b>		<b>121</b>	<b>30</b>	<b>N/A</b>
AvayaSM	AvayaSM	2	SIP		31	30	N/A
OSVSP	OSVSignalling	1	SIP		1	30	N/A
RG4	Rig4DRSS	3	SIP		61	10	N/A
RG6	Rig6DRSS	4	SIP		71	10	N/A

Telephone Interface Id: AvayaSM63  
 Gateway: Avaya63M  
 Interface Number: 6  
 Type: SIP  
 Group:  
 Start Line Number: 121  
 Number of Lines: 30  
 Operator ringing tone generation: Always generate  
 Monitor Interface:   
 Inter Site:

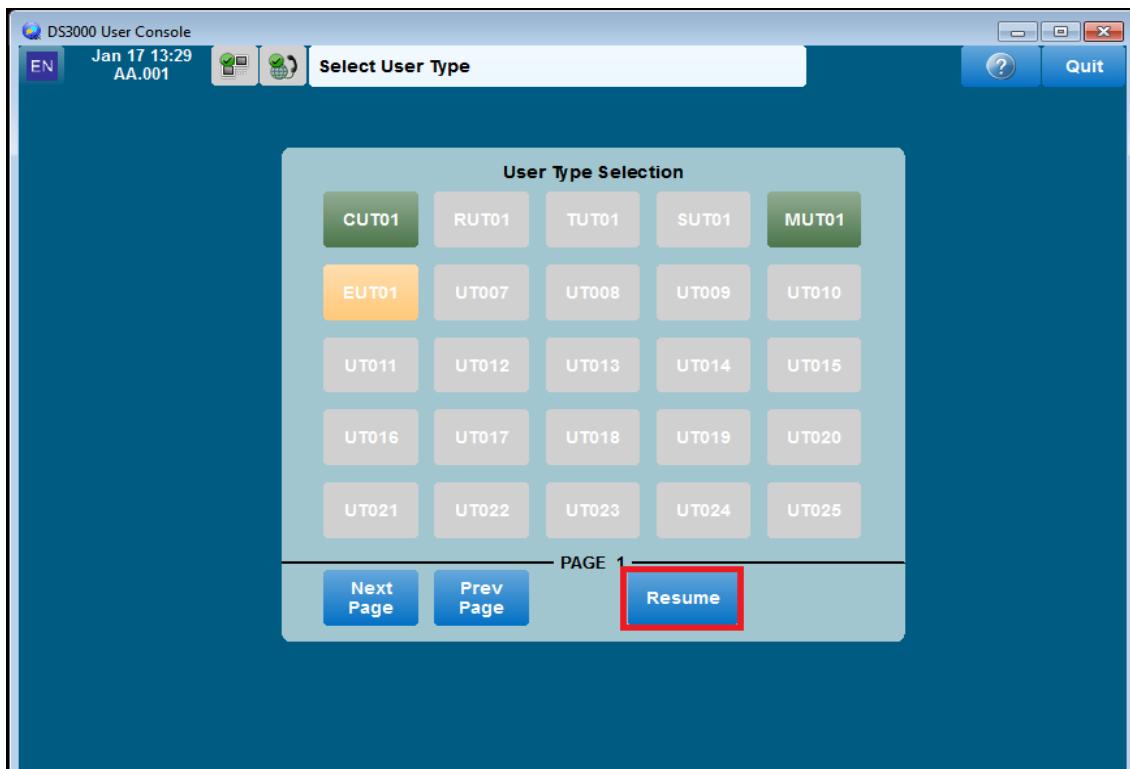
Buttons at the bottom: Refresh, Delete, Discard Changes, Save. The 'Save' button is highlighted with a red box.

## 8.2. Configure the DS3000 extension numbers

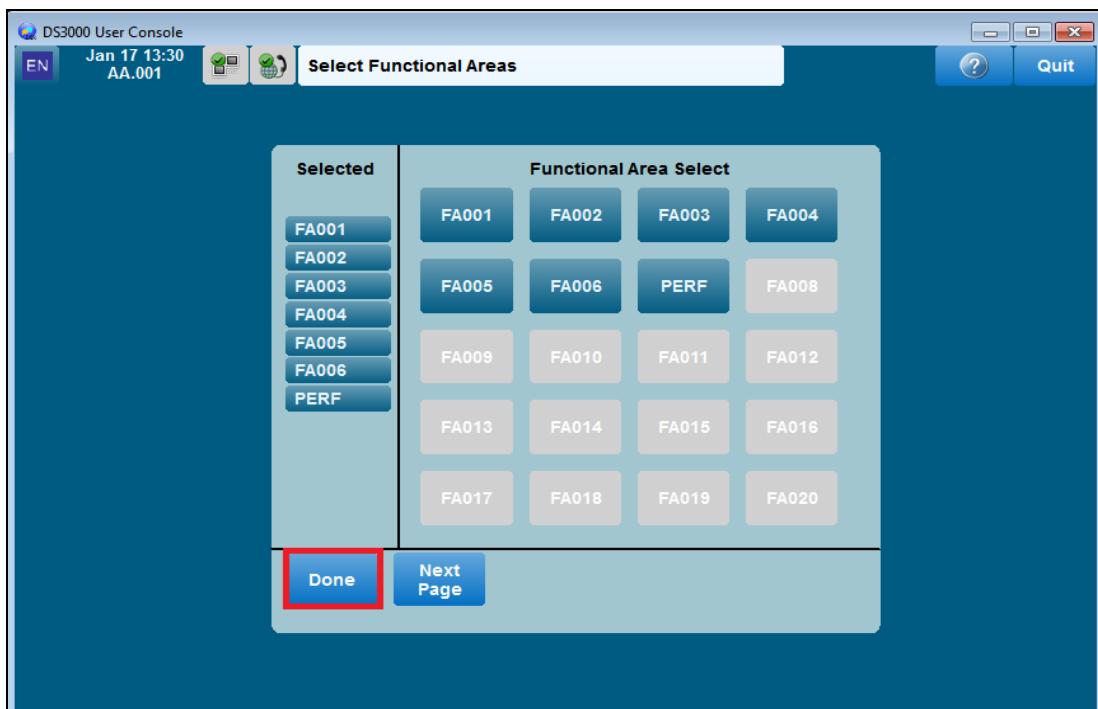
Open the **DS3000 Client** on the DS3000 Client machine. Enter the correct credentials on the **LOGON PAD**.



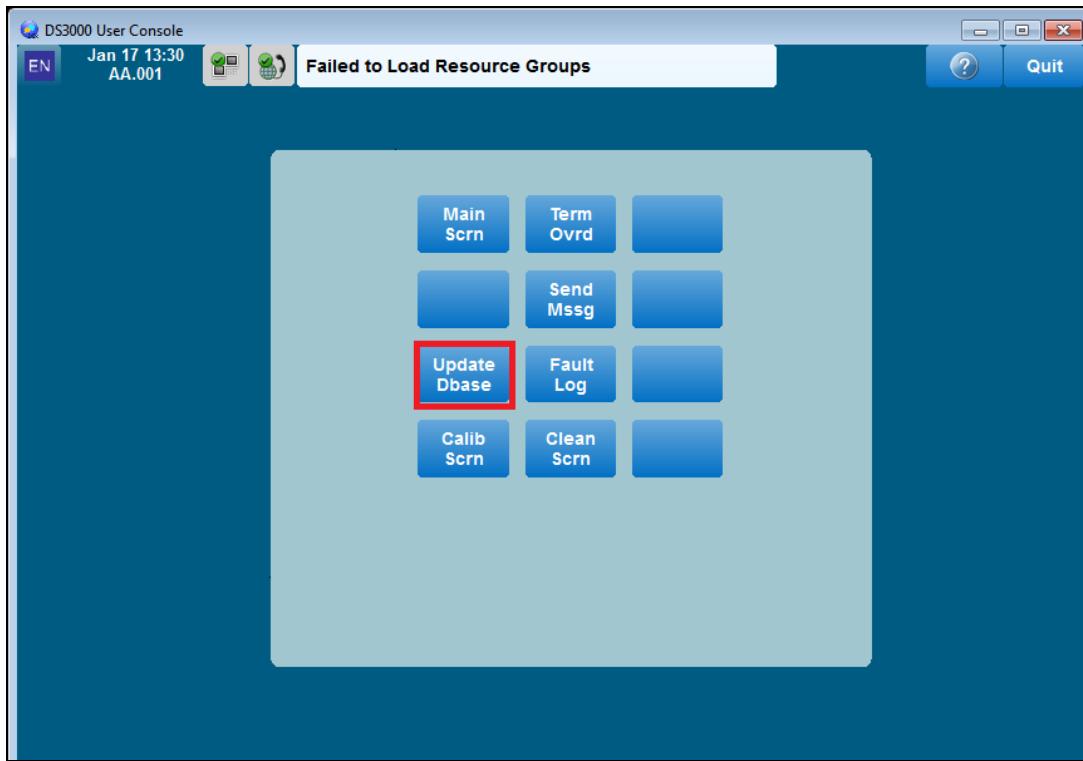
Click on **Resume** at the bottom of the screen as highlighted.



Select **Done** at the bottom of the screen as highlighted.



Click on the **UpdateDbase** button highlighted.



Click on the **Call Routes** icon highlighted in the left window. The highlighted row in the right window shows that when 3xxx is dialled that Interface 2 is used. Note: The interface numbers are as defined by the configuration entered in **Section 8.1**.

The screenshot shows a software application window with a toolbar at the top and a sidebar on the left. The sidebar contains icons and a tree view of categories like ANCIL, CARDS, COASTGUARD, DSI, RADIO, REMOTE, SCREENS, SELCALL, SOUNDS, SYSTEM, and TELEPHONY. Under TELEPHONY, there are sub-options: ACD Parameters, Call Routes (which is highlighted with a red box), Divert, DPNSS Extensions, GSM Pagers, and HandOff Groups. To the right of the sidebar is a table titled "Call Routes". The table has columns: Undo, Edit, DigitsCompareLen, Digits, InsertLength, RoutingDigits, GSIC(0), GSIC(1), GSIC(2), and GSIC(3). There are 16 rows numbered 1 to 16. Row 4 is highlighted with a red box. The data for Row 4 is: Undo (locked), Edit (locked), DigitsCompareLen (1), Digits (3), InsertLength (0), RoutingDigits (6), GSIC(0) (255), GSIC(1) (255), GSIC(2) (255), GSIC(3) (255).

	Undo	Edit	DigitsCompareLen	Digits	InsertLength	RoutingDigits	GSIC(0)	GSIC(1)	GSIC(2)	GSIC(3)
1			1	0	0		255	255	255	255
2			1	1	0		0	255	255	255
3			1	2	0		0	255	255	255
4			1	3	0	6	255	255	255	255
5			1	4	0		1	255	255	255
6			1	5	0		1	255	255	255
7			1	6	0		1	255	255	255
8			1	7	0		1	255	255	255
9			1	8	0		255	255	255	255
10			1	9	0		1	255	255	255
11			2	01	0		255	255	255	255
12			2	22	0		255	255	255	255
13			2	21	0		255	255	255	255
14			2	31	0		255	255	255	255
15			2	444444	0		255	255	255	255
16			2	51	0		255	255	255	255

Select **DPNSS Extensions** in the left column highlighted. Note the entry highlighted is for the DS3000 Extension **50000**. Ensure **Accept Type** is set to **Telephone**.

The screenshot shows the Avaya PABX Setup software interface. On the left, there is a navigation tree with categories like ANCIL, CARDS, COASTGUARD, DSI, RADIO, REMOTE, SCREENS, SELCALL, SOUNDS, SYSTEM, and TELEPHONY. Under TELEPHONY, 'DPNSS Extensions' is highlighted with a red box. The main window contains a table titled 'DPNSS Extensions' with 16 rows. The columns are: Row, Undo, Edit, KeyText, QueueText, AcceptType, PageNo, Priority, DisplayGroup, DisplaySubGroup, and Col. The 'AcceptType' column for row 14 (Extension 50000) is set to 'Telephone' with a dropdown arrow, while other rows show 'Telephone' with a lock icon. The 'PageNo' column for row 14 shows '24: Avaya'. The 'DisplayGroup' and 'DisplaySubGroup' columns for row 14 are GRP-1 and SUBGRP-01 respectively.

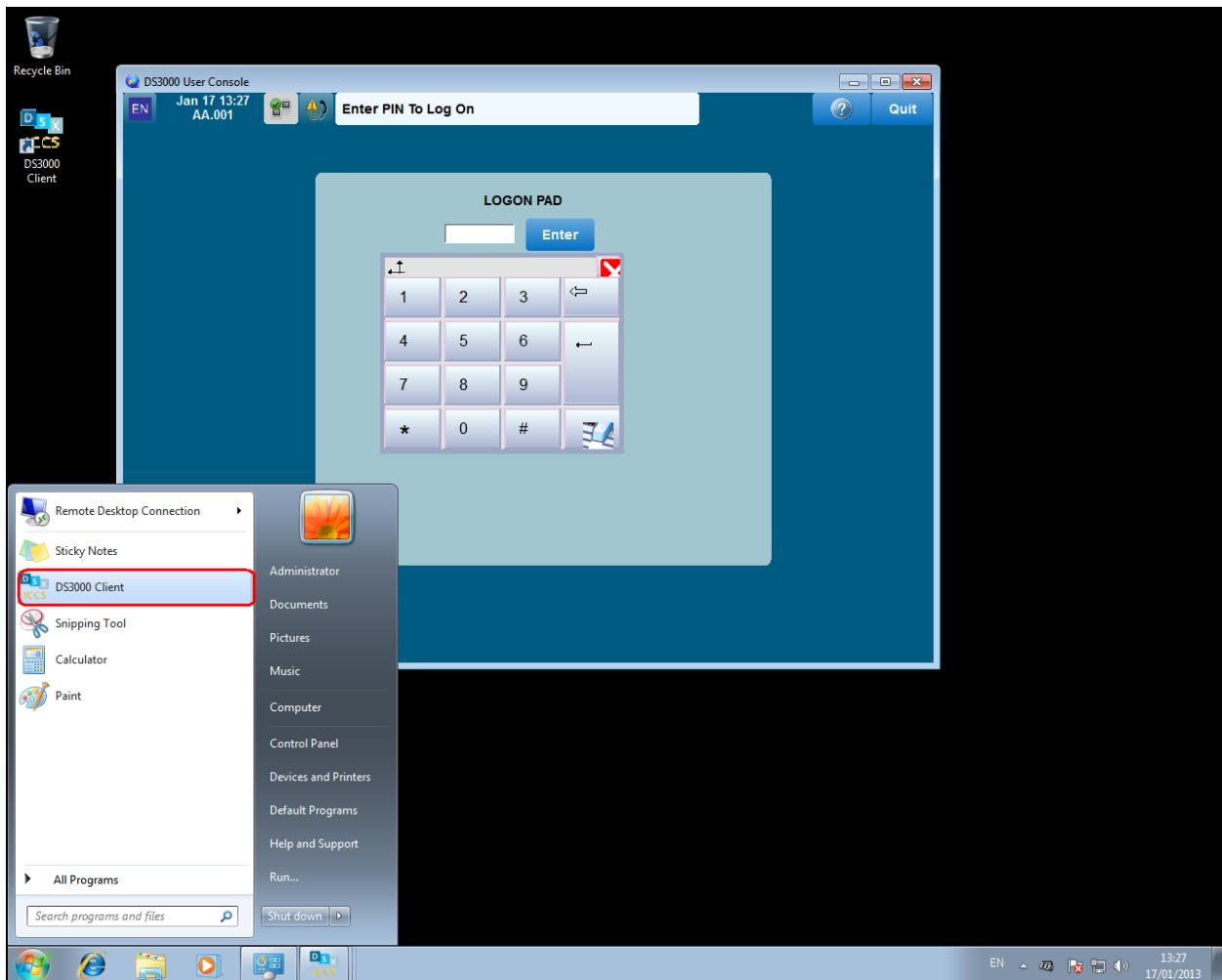
Row	Undo	Edit	KeyText	QueueText	AcceptType	PageNo	Priority	DisplayGroup	DisplaySubGroup	Col
1			EXT 49900		Telephone	1: PAGE 1 (3...	0	GRP-2	SUBGRP-01	1: T
2			EXT 49901		Telephone	1: PAGE 1 (3...	0	GRP-2	SUBGRP-02	1: T
3			EXT 49902		Telephone	1: PAGE 1 (3...	0	GRP-2	SUBGRP-01	1: T
4			EXT 49903		Telephone	1: PAGE 1 (3...	0	GRP-16	SUBGRP-32	1: T
5			EXT 49904		Telephone	1: PAGE 1 (3...	0	GRP-7	SUBGRP-01	1: T
6			EXT 49905		Telephone	1: PAGE 1 (3...	0	GRP-8	SUBGRP-32	1: T
7			EXT 49906		Telephone	1: PAGE 1 (3...	0	GRP-2	SUBGRP-01	1: T
8			COMB 1142		Telephone	1: PAGE 1 (3...	0	GRP-2	SUBGRP-01	3: T
9			EXT 49908		Telephone	1: PAGE 1 (3...	0	GRP-2	SUBGRP-01	1: T
10			EXT 49909		Telephone	1: PAGE 1 (3...	0	GRP-2	SUBGRP-01	1: T
11			EXT 49910		Telephone	1: PAGE 1 (3...	0	GRP-2	SUBGRP-01	1: T
12			EXT 49911		Telephone	1: PAGE 1 (3...	0	GRP-2	SUBGRP-01	1: T
13			EXT 49912		Telephone	1: PAGE 1 (3...	0	GRP-2	SUBGRP-01	1: T
14			50000		Telephone	24: Avaya	0	GRP-1	SUBGRP-01	1: T
15			50001		Telephone	1: PAGE 1 (3...	0	GRP-1	SUBGRP-01	1: T
16			50002		Telephone	1: PAGE 1 (3...	0	GRP-1	SUBGRP-01	1: T

## 9. Verification Steps

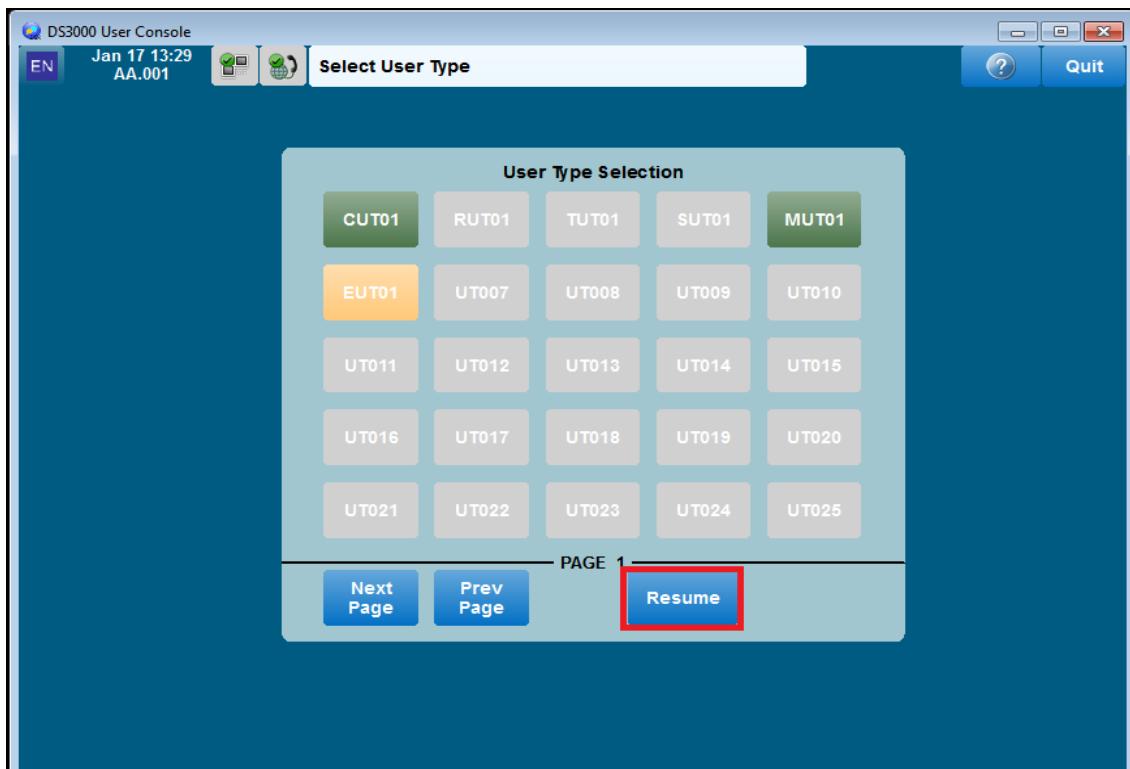
The following step can be taken to ensure that the connection between Capita's DS3000 and the Avaya solution is configured correctly. Make a call to the DS3000 and verify that the caller can be heard.

### 9.1. Verify that calls can be made to the DS3000

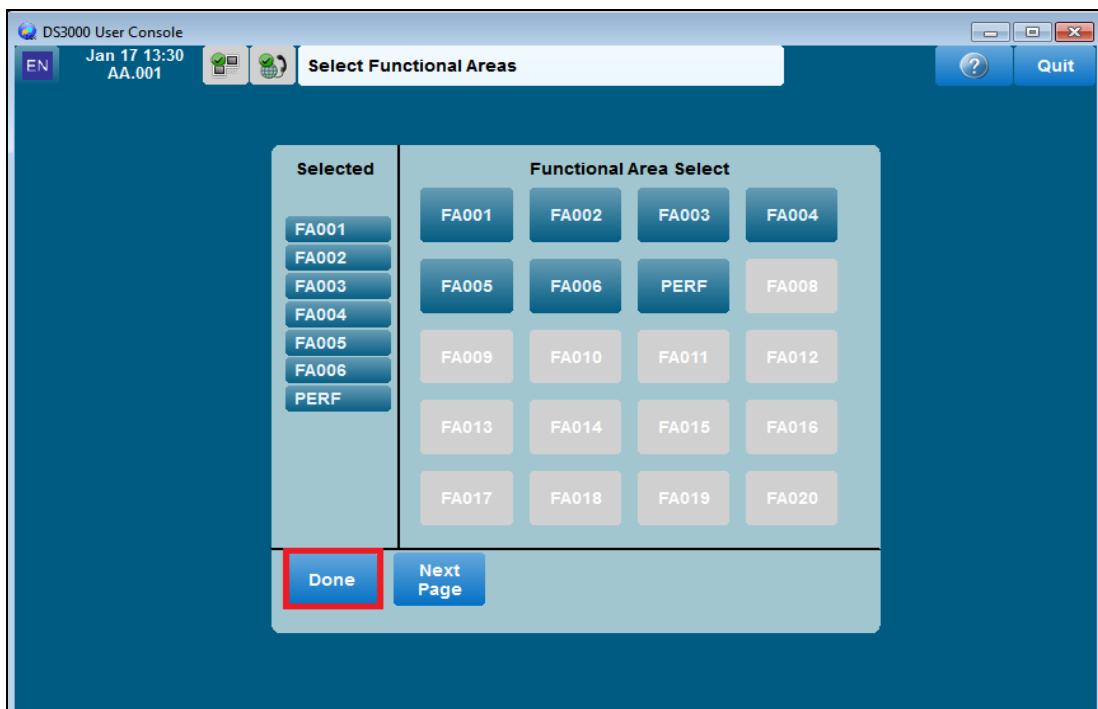
Open the **DS3000 Client** on the DS3000 Client machine. Enter the correct credentials on the **LOGON PAD**.



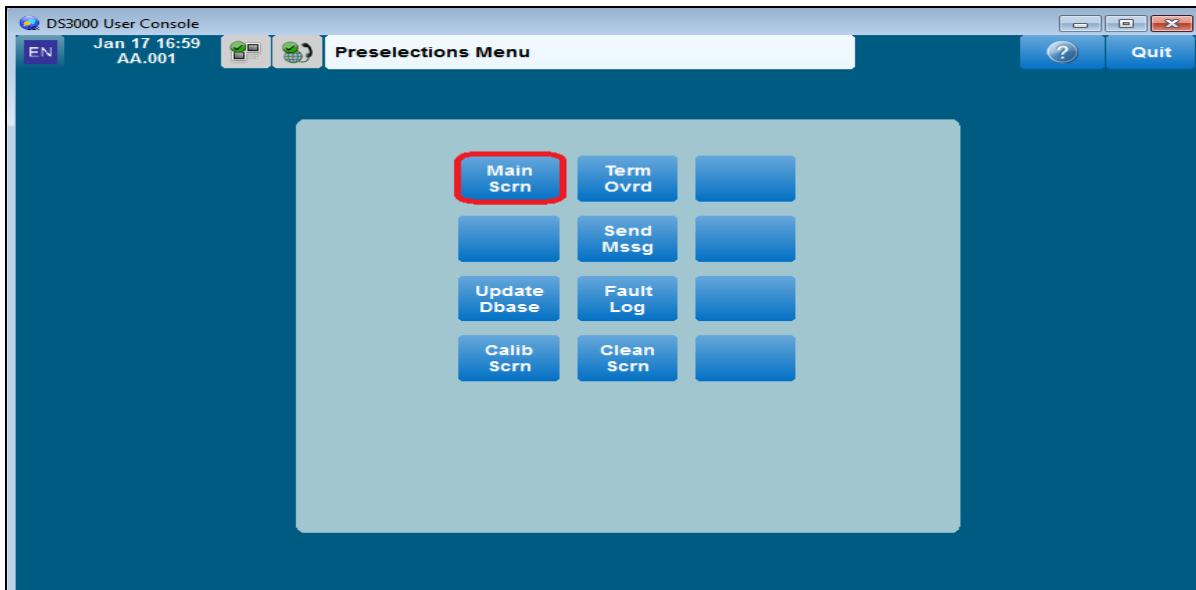
Click on **Resume** at the bottom of the screen as highlighted.



Select **Done** at the bottom of the screen as highlighted.



Click on the **Main Scrn** button highlighted below.



Once a call is presented to the DS3000 the following screen should appear. Click on the **Take Call** button on the bottom right of the screen to take the call.



## 10. Conclusion

These Application Notes describe the configuration steps required for DS3000 from Capita Secure Information Solutions to successfully interoperate with Avaya Communication Server 1000E R7.6 and Avaya Aura® Session Manager R6.3. Please refer to **Section 2.2** for test results and observations.

## 11. Additional References

This section references documentation relevant to these Application Notes. The Avaya product documentation is available at <http://support.avaya.com>, where the following documents can be obtained.

- [1] *Software Input Reference Administration Avaya Communication Server 1000, Release 7.6*; Document No. NN43001-611\_05.02
- [2] *Administering Avaya Aura® Session Manager*, Doc # 03603324, Issue 1 Release 6.3
- [3] *Unified Communications Management Common Services Fundamentals Avaya Communication Server 1000*, Doc # NN43001-116, 05.08
- [4] *Element Manager System Reference –Administration Avaya Communication Server 1000* Doc # NN43001-632, 05.04
- [5] *Application Notes for Configuring Capita Secure Information Solutions DS3000 with Avaya Aura® Session Manager R6.3 and Avaya Communication Server 1000E R7.5 using SIP Trunks*

Product documentation for DS3000 can be requested from Capita or may be downloaded from <http://www.capitasecureinformationsolutions.co.uk>

## Appendix A

### Linux Patches on Avaya Communication Server 1000E R7.6

Product Release: 7.65.16.00

In system patches: 0

In System service updates: 26

PATCH#	IN_SERVICE	DATE	SPECINS	REMOVABLE	NAME
2	Yes	27/08/13	NO	YES	cs1000-dmWeb-7.65.16.21-01.i386.000
3	Yes	28/08/13	NO	yes	cs1000-snmp-7.65.16.00-01.i686.000
4	Yes	28/08/13	NO	YES	cs1000-nrsm-7.65.16.00-03.i386.000
5	Yes	28/08/13	NO	YES	cs1000-oam-logging-7.65.16.01-01.i386.000
6	Yes	28/08/13	NO	yes	cs1000-cs1000WebService_6-0-7.65.16.21-00.i386.000
7	Yes	28/08/13	NO	YES	cs1000-sps-7.65.16.21-01.i386.000
8	Yes	28/08/13	NO	YES	cs1000-pd-7.65.16.21-00.i386.000
9	Yes	28/08/13	NO	YES	cs1000-shared-carrdtct-7.65.16.21-01.i386.000
10	Yes	28/08/13	NO	YES	cs1000-shared-tpselect-7.65.16.21-01.i386.000
11	Yes	28/08/13	NO	YES	cs1000-emWebLocal_6-0-7.65.16.21-01.i386.000
12	Yes	28/08/13	NO	yes	cs1000-dbcom-7.65.16.21-00.i386.000
13	Yes	28/08/13	NO	YES	cs1000-csmWeb-7.65.16.21-05.i386.000
14	Yes	28/08/13	NO	YES	cs1000-shared-xmsg-7.65.16.21-00.i386.000
15	Yes	28/08/13	NO	YES	cs1000-vtrk-7.65.16.21-29.i386.000
16	Yes	28/08/13	NO	YES	cs1000-tps-7.65.16.21-05.i386.000
17	Yes	28/08/13	NO	YES	cs1000-mscAnnc-7.65.16.21-02.i386.001
18	Yes	28/08/13	NO	YES	cs1000-mscAttn-7.65.16.21-04.i386.001
19	Yes	28/08/13	NO	YES	cs1000-mscConf-7.65.16.21-02.i386.001
20	Yes	28/08/13	NO	YES	cs1000-mscMusc-7.65.16.21-02.i386.001
21	Yes	28/08/13	NO	YES	cs1000-mscTone-7.65.16.21-03.i386.001
22	Yes	28/08/13	NO	YES	cs1000-bcc-7.65.16.21-21.i386.000
23	Yes	28/08/13	NO	YES	cs1000-Jboss-Quantum-7.65.16.21-3.i386.000
24	Yes	28/08/13	NO	YES	cs1000-emWeb_6-0-7.65.16.21-06.i386.000
25	Yes	10/12/13	NO	yes	cs1000-cs-7.65.P.100-01.i386.001
26	Yes	10/12/13	YES	yes	cs1000-linuxbase-7.65.16.21-08.i386.000
27	Yes	10/12/13	NO	YES	cs1000-patchWeb-7.65.16.21-06.i386.000

[paul@cs1kpg1 ~]\$

## Call Server Patches on Avaya Communication Server 1000E R7.6

IN-SERVICE PEPS						
PAT#	CR #	PATCH REF #	NAME	DATE	FILENAME	SPECINS
000	wi01052968	ISS1:1OF1	p32540_1	18/08/2014	p32540_1.cpl	NO
001	wi01045058	ISS1:1OF1	p32214_1	18/08/2014	p32214_1.cpl	NO
002	wi01085855	ISS1:1OF1	p32658_1	18/08/2014	p32658_1.cpl	NO
003	wi01053314	ISS1:1OF1	p32555_1	18/08/2014	p32555_1.cpl	NO
004	wi01060382	iss1:1of1	p32623_1	18/08/2014	p32623_1.cpl	YES
005	wi01070580	ISS1:1OF1	p32380_1	18/08/2014	p32380_1.cpl	NO
006	wi01101876	ISS1:1OF1	p32858_1	18/08/2014	p32858_1.cpl	NO
007	wi01061481	ISS1:1OF1	p32382_1	18/08/2014	p32382_1.cpl	NO
008	wi01124074	ISS1:1OF1	p32989_1	18/08/2014	p32989_1.cpl	NO
009	wi01099300	iss1:1of1	p32704_1	18/08/2014	p32704_1.cpl	NO
010	wi01035976	ISS1:1OF1	p32173_1	18/08/2014	p32173_1.cpl	NO
011	wi01065922	ISS1:1OF1	p32516_1	18/08/2014	p32516_1.cpl	NO
012	WI01121737	ISS1:1OF1	p32939_1	21/08/2014	p32939_1.cpl	NO
013	wi01041453	ISS1:1OF1	p32587_1	18/08/2014	p32587_1.cpl	NO
014	wi01096842	ISS1:1OF1	p32731_1	18/08/2014	p32731_1.cpl	NO
015	WI0110261	ISS1:1OF1	p32758_1	18/08/2014	p32758_1.cpl	NO
016	wi01064599	iss1:1of1	p32580_1	18/08/2014	p32580_1.cpl	NO
017	wi01098783	ISS1:1OF1	p32748_1	18/08/2014	p32748_1.cpl	NO
018	wi01072027	ISS1:1OF1	p32689_1	18/08/2014	p32689_1.cpl	NO
019	wi01059388	iss1:1of1	p32628_1	18/08/2014	p32628_1.cpl	NO
020	wi01104410	ISS1:1OF1	p32801_1	18/08/2014	p32801_1.cpl	NO
021	wi00933195	ISS1:1OF1	p32491_1	18/08/2014	p32491_1.cpl	NO
022	wi01150771	ISS1:1OF1	p33210_1	21/08/2014	p33210_1.cpl	NO
023	wi01065118	ISS1:1OF1	p32397_1	18/08/2014	p32397_1.cpl	NO
024	wi01063864	ISS1:1OF1	p32410_1	18/08/2014	p32410_1.cpl	YES
025	wi01096712	ISS1:1OF1	p32708_1	18/08/2014	p32708_1.cpl	NO
026	wi01075359	ISS1:1OF1	p32671_1	18/08/2014	p32671_1.cpl	NO
027	wi01080753	ISS1:1OF1	p32518_1	18/08/2014	p32518_1.cpl	NO
028	wi01070473	ISS1:1OF1	p32413_1	18/08/2014	p32413_1.cpl	NO
029	wi01075355	ISS1:1OF1	p32594_1	18/08/2014	p32594_1.cpl	NO
030	wi01071379	ISS1:1OF1	p32522_1	18/08/2014	p32522_1.cpl	NO
031	wi01070756	ISS1:1OF1	p32444_1	18/08/2014	p32444_1.cpl	NO
032	wi01075353	ISS1:1OF1	p32613_1	18/08/2014	p32613_1.cpl	NO
033	wi01062607	ISS1:1OF1	p32503_1	18/08/2014	p32503_1.cpl	NO
034	wi01068851	ISS1:1OF1	p32439_1	18/08/2014	p32439_1.cpl	NO
035	wi01144354	ISS1:1OF1	p33117_1	21/08/2014	p33117_1.cpl	NO
036	wi01092300	ISS1:1OF1	p32692_1	18/08/2014	p32692_1.cpl	NO
037	wi01063263	ISS1:1OF1	p32573_1	18/08/2014	p32573_1.cpl	NO
038	wi01087528	ISS1:1OF1	p32700_1	18/08/2014	p32700_1.cpl	NO
039	wi01150846	ISS1:1OF1	p33157_1	21/08/2014	p33157_1.cpl	NO
040	wi01039280	ISS1:1OF1	p32423_1	18/08/2014	p32423_1.cpl	NO
041	wi01068669	ISS1:1OF1	p32333_1	18/08/2014	p32333_1.cpl	NO
042	wi01069441	ISS1:1OF1	p32097_1	18/08/2014	p32097_1.cpl	NO
043	wi01058621	ISS1:1OF1	p32339_1	18/08/2014	p32339_1.cpl	NO
044	wi01146804	ISS1:1OF1	p33132_1	21/08/2014	p33132_1.cpl	NO
045	wi01070465	iss1:1of1	p32562_1	18/08/2014	p32562_1.cpl	NO
046	wi01053920	ISS1:1OF1	p32303_1	18/08/2014	p32303_1.cpl	NO
047	wi00897254	ISS1:1OF1	p31127_1	18/08/2014	p31127_1.cpl	NO
048	wi01057403	ISS1:1OF1	p32591_1	18/08/2014	p32591_1.cpl	NO
049	wi01066991	ISS1:1OF1	p32449_1	18/08/2014	p32449_1.cpl	NO
050	wi01094305	ISS1:1OF1	p32640_1	18/08/2014	p32640_1.cpl	NO

051	wi01060611	ISS1:1OF1	p32809_1	18/08/2014	p32809_1.cpl	NO
052	wi01137694	ISS1:1OF1	p33081_1	21/08/2014	p33081_1.cpl	NO
053	wi01060241	ISS1:1OF1	p32381_1	18/08/2014	p32381_1.cpl	NO
054	wi01034307	ISS1:1OF1	p32615_1	18/08/2014	p32615_1.cpl	NO
055	wi01052428	ISS1:1OF1	p32606_1	18/08/2014	p32606_1.cpl	NO
056	wi00884716	ISS1:1OF1	p32517_1	18/08/2014	p32517_1.cpl	NO
057	wi01070468	iss1:1of1	p32418_1	18/08/2014	p32418_1.cpl	NO
058	wi01091447	ISS1:1OF1	p32675_1	18/08/2014	p32675_1.cpl	NO
059	wi01156999	ISS1:1OF1	p33180_1	21/08/2014	p33180_1.cpl	NO
060	wi01132599	ISS1:1OF1	p33025_1	18/08/2014	p33025_1.cpl	NO
061	wi01065125	ISS1:1OF1	p32416_1	18/08/2014	p32416_1.cpl	NO
062	wi01056633	ISS1:1OF1	p32322_1	18/08/2014	p32322_1.cpl	NO
063	wi01078721	ISS1:1OF1	p32553_1	18/08/2014	p32553_1.cpl	NO
064	wi01053597	ISS1:1OF1	p32304_1	18/08/2014	p32304_1.cpl	NO
065	wi01132883	ISS1:1OF1	p33030_1	18/08/2014	p33030_1.cpl	NO
066	wi01025156	ISS1:1OF1	p32136_1	18/08/2014	p32136_1.cpl	NO
067	wi01088775	ISS1:1OF1	p32659_1	18/08/2014	p32659_1.cpl	NO
068	wi01114038	ISS1:1OF1	p32869_1	18/08/2014	p32869_1.cpl	NO
069	wi01075360	iss1:1of1	p32602_1	18/08/2014	p32602_1.cpl	NO
070	wi01053195	ISS1:1OF1	p32297_1	18/08/2014	p32297_1.cpl	NO
071	wi01043367	ISS1:1OF1	p32232_1	18/08/2014	p32232_1.cpl	NO
072	wi01082456	ISS1:1OF1	p32596_1	18/08/2014	p32596_1.cpl	NO
073	wi01089519	ISS1:1OF1	p32665_1	18/08/2014	p32665_1.cpl	NO
074	wi01105888	ISS1:1OF1	p32794_1	18/08/2014	p32794_1.cpl	NO
075	wi01132215	ISS1:1OF1	p33084_1	21/08/2014	p33084_1.cpl	NO
076	wi01035980	ISS1:1OF1	p32558_1	18/08/2014	p32558_1.cpl	NO
077	wi01087543	ISS1:1OF1	p32662_1	18/08/2014	p32662_1.cpl	NO
078	wi01060826	ISS1:1OF1	p32379_1	18/08/2014	p32379_1.cpl	NO
079	wi01167427	ISS1:1OF1	p33264_1	21/08/2014	p33264_1.cpl	NO
080	wi01034961	ISS1:1OF1	p32144_1	18/08/2014	p32144_1.cpl	NO
081	wi01142525	ISS1:1OF1	p33096_1	21/08/2014	p33096_1.cpl	NO
082	WI01077073	ISS1:1OF1	p32534_1	18/08/2014	p32534_1.cpl	NO
083	wi01133985	ISS1:1OF1	p33049_1	18/08/2014	p33049_1.cpl	NO
084	wi01138714	ISS2:1OF1	p33065_2	21/08/2014	p33065_2.cpl	NO
085	wi01130836	ISS1:1OF1	p33008_1	18/08/2014	p33008_1.cpl	YES
086	wi01118928	ISS1:1OF1	p32922_1	18/08/2014	p32922_1.cpl	NO
087	wi01070585	ISS1:1OF1	p32383_1	18/08/2014	p32383_1.cpl	NO
088	wi01071296	ISS1:1OF1	p32836_1	18/08/2014	p32836_1.cpl	NO
089	wi01089355	ISS1:1OF1	p32674_1	18/08/2014	p32674_1.cpl	YES
090	wi01119312	ISS1:1OF1	p32919_1	18/08/2014	p32919_1.cpl	NO
091	wi01134952	ISS1:1OF1	p33039_1	18/08/2014	p33039_1.cpl	NO
092	wi01124477	ISS1:1OF1	p32963_1	18/08/2014	p32963_1.cpl	NO
093	wi01156086	ISS1:1OF1	p33269_1	21/08/2014	p33269_1.cpl	NO
094	wi01115894	ISS1:1OF1	p32910_1	18/08/2014	p32910_1.cpl	NO
095	wi01101385	ISS1:1OF1	p32773_1	18/08/2014	p32773_1.cpl	YES
096	wi01115450	ISS1:1OF1	p32888_1	18/08/2014	p32888_1.cpl	NO
097	wi01075538	ISS1:1OF1	p32469_1	18/08/2014	p32469_1.cpl	NO
098	wi01159931	ISS1:1OF1	p33231_1	21/08/2014	p33231_1.cpl	YES
099	wi01126552	ISS1:1OF1	p32975_1	18/08/2014	p32975_1.cpl	NO
100	wi01144066	ISS1:1OF1	p33114_1	21/08/2014	p33114_1.cpl	NO
101	wi01129028	ISS1:1OF1	p33016_1	18/08/2014	p33016_1.cpl	NO
102	wi01099724	ISS1:1OF1	p32742_1	18/08/2014	p32742_1.cpl	YES
103	wi01129098	ISS1:1OF1	p32951_1	18/08/2014	p32951_1.cpl	NO
104	wi01146254	ISS1:1OF1	p33127_1	21/08/2014	p33127_1.cpl	NO
105	WI01108562	ISS1:1OF1	p32832_1	18/08/2014	p32832_1.cpl	NO
106	wi01094727	ISS1:1OF1	p32848_1	18/08/2014	p32848_1.cpl	NO
107	wi01096967	ISS1:1OF1	p32735_1	18/08/2014	p32735_1.cpl	NO
108	wi01022598	ISS1:1OF1	p32066_1	18/08/2014	p32066_1.cpl	NO
109	wi01126454	ISS1:1OF1	p32973_1	18/08/2014	p32973_1.cpl	NO
110	wi01051200	ISS1:1OF1	p32290_1	18/08/2014	p32290_1.cpl	NO
111	wi01127640	ISS1:1OF1	p32992_1	18/08/2014	p32992_1.cpl	NO
112	wi01128512	ISS1:1OF1	p32997_1	18/08/2014	p32997_1.cpl	NO

113	wi01122174	ISS1:1OF1	p32936_1	18/08/2014	p32936_1.cpl	NO
114	wi01097598	ISS1:1OF1	p32797_1	18/08/2014	p32797_1.cpl	NO
115	wi01095462	ISS1:1OF1	p32723_1	18/08/2014	p32723_1.cpl	NO
116	wi01108828	ISS1:1OF1	p32831_1	18/08/2014	p32831_1.cpl	NO
117	wi01104473	ISS1:1OF1	p32818_1	18/08/2014	p32818_1.cpl	NO
118	wi01079444	ISS1:1OF1	p32564_1	18/08/2014	p32564_1.cpl	NO
119	wi01109251	ISS1:1OF1	p32827_1	18/08/2014	p32827_1.cpl	NO
120	wi01092443	ISS1:1OF1	p32676_1	18/08/2014	p32676_1.cpl	NO
121	wi01099292	ISS1:1OF1	p32886_1	18/08/2014	p32886_1.cpl	NO
122	wi01104867	ISS1:1OF1	p32828_1	18/08/2014	p32828_1.cpl	NO
123	wi01080963	ISS1:1OF1	p32626_1	18/08/2014	p32626_1.cpl	YES
124	wi01065115	ISS1:1OF1	p32523_1	18/08/2014	p32523_1.cpl	NO
125	wi01081510	ISS1:1OF1	p32582_1	18/08/2014	p32582_1.cpl	NO
126	wi01110593	ISS1:1OF1	p32849_1	18/08/2014	p32849_1.cpl	NO
127	wi01099606	iss1:1of1	p32713_1	18/08/2014	p32713_1.cpl	NO
128	wi01123389	ISS1:1OF1	p33045_1	18/08/2014	p33045_1.cpl	NO
129	wi01072062	ISS1:1OF1	p32776_1	18/08/2014	p32776_1.cpl	NO
130	wi01136194	ISS1:1OF1	p33051_1	21/08/2014	p33051_1.cpl	NO
131	wi01045144	ISS1:1OF1	p33202_1	21/08/2014	p33202_1.cpl	NO
132	wi01128596	ISS1:1OF1	p33000_1	18/08/2014	p33000_1.cpl	NO
133	wi01090535	ISS1:1OF1	p32519_1	18/08/2014	p32519_1.cpl	NO
134	wi01127447	ISS1:1OF1	p32990_1	18/08/2014	p32990_1.cpl	NO
135	wi01132244	ISS1:1OF1	p33041_1	18/08/2014	p33041_1.cpl	NO
136	wi01097786	ISS1:1OF1	p33086_1	21/08/2014	p33086_1.cpl	NO
137	wi01093118	ISS1:1OF1	p32496_1	18/08/2014	p32496_1.cpl	NO
138	wi01108262	ISS1:1OF1	p32865_1	18/08/2014	p32865_1.cpl	YES
139	wi01098433	ISS1:1OF1	p32736_1	18/08/2014	p32736_1.cpl	NO
140	wi01115807	ISS1:1OF1	p32895_1	18/08/2014	p32895_1.cpl	YES
141	wi01159009	ISS1:1OF1	p33098_1	21/08/2014	p33098_1.cpl	YES
142	wi01136429	ISS1:1OF1	p33037_1	21/08/2014	p33037_1.cpl	NO
143	wi01119086	ISS1:1OF1	p32917_1	18/08/2014	p32917_1.cpl	NO
144	wi01132204	ISS1:1OF1	p32501_1	18/08/2014	p32501_1.cpl	NO
145	wi01058378	ISS1:1OF1	p32344_1	18/08/2014	p32344_1.cpl	NO
146	wi01088797	ISS1:1OF1	p32844_1	18/08/2014	p32844_1.cpl	NO
147	wi00937672	ISS1:1OF1	p31276_1	18/08/2014	p31276_1.cpl	NO
148	wi01098905	ISS1:1OF1	p32556_1	18/08/2014	p32556_1.cpl	NO
149	wi01120705	ISS1:1OF1	p32930_1	18/08/2014	p32930_1.cpl	NO
150	wi01120406	ISS1:1OF1	p32956_1	18/08/2014	p32956_1.cpl	NO
151	wi010883896	ISS1:1OF1	p32937_1	18/08/2014	p32937_1.cpl	NO
152	wi01130815	ISS1:1OF1	p33017_1	18/08/2014	p33017_1.cpl	NO
153	wi01113374	ISS1:1OF1	p32874_1	18/08/2014	p32874_1.cpl	NO
154	wi01145002	ISS1:1OF1	p33186_1	21/08/2014	p33186_1.cpl	NO
155	wi01104627	ISS1:1OF1	p32819_1	18/08/2014	p32819_1.cpl	NO
156	wi01137003	ISS1:1OF1	p33053_1	18/08/2014	p33053_1.cpl	NO
157	wi01093071	ISS1:1OF1	p32701_1	18/08/2014	p32701_1.cpl	NO
158	wi01068751	ISS1:1OF1	p32445_1	18/08/2014	p32445_1.cpl	NO
159	wi01134602	ISS1:1OF1	p32398_1	18/08/2014	p32398_1.cpl	NO
160	wi01102093	ISS1:1OF1	p32760_1	18/08/2014	p32760_1.cpl	NO
161	wi01101969	ISS1:1OF1	p32726_1	18/08/2014	p32726_1.cpl	NO
162	wi01133106	ISS1:1OF1	p33032_1	18/08/2014	p33032_1.cpl	NO
163	wi01070279	ISS1:1OF1	p32262_1	18/08/2014	p32262_1.cpl	NO
164	wi01107601	ISS1:1OF1	p32970_1	18/08/2014	p32970_1.cpl	NO
165	wi01088915	ISS1:1OF1	p32638_1	18/08/2014	p32638_1.cpl	NO
166	wi01130348	ISS1:1OF1	p33014_1	18/08/2014	p33014_1.cpl	NO
167	wi01077639	ISS1:1OF1	p32883_1	18/08/2014	p32883_1.cpl	NO
168	wi01125238	ISS1:1OF1	p32971_1	18/08/2014	p32971_1.cpl	NO
169	wi01000087	ISS1:1OF1	p32014_1	18/08/2014	p32014_1.cpl	NO
170	wi01119100	ISS1:1OF1	p32925_1	18/08/2014	p32925_1.cpl	NO
171	wi01132902	ISS1:1OF1	p33028_1	18/08/2014	p33028_1.cpl	NO
172	wi01053950	ISS1:1OF1	p32654_1	18/08/2014	p32654_1.cpl	YES
173	wi01082824	ISS1:1OF1	p32467_1	18/08/2014	p32467_1.cpl	NO
174	wi01109345	ISS1:1OF1	p32830_1	18/08/2014	p32830_1.cpl	NO

175	wi01073725	ISS1:1OF1	p32552_1	18/08/2014	p32552_1.cpl	NO
176	wi01149017	ISS1:1OF1	p33145_1	21/08/2014	p33145_1.cpl	NO
177	wi01099810	ISS1:1OF1	p32796_1	18/08/2014	p32796_1.cpl	NO
178	wi01134354	ISS1:1OF1	p33031_1	18/08/2014	p33031_1.cpl	NO
179	wi01127527	ISS1:1OF1	p32988_1	18/08/2014	p32988_1.cpl	YES
180	wi01095255	ISS1:1OF1	p33027_1	18/08/2014	p33027_1.cpl	NO
181	wi01121374	ISS1:1OF1	p31107_1	18/08/2014	p31107_1.cpl	NO
182	wi01102475	ISS1:1OF1	p32782_1	18/08/2014	p32782_1.cpl	YES
183	wi01120458	ISS1:1OF1	p32929_1	18/08/2014	p32929_1.cpl	NO
184	wi01118320	ISS1:1OF1	p32753_1	18/08/2014	p32753_1.cpl	NO
185	wi01133960	ISS1:1OF1	p33034_1	18/08/2014	p33034_1.cpl	NO
186	wi01075540	ISS1:1OF1	p32492_1	18/08/2014	p32492_1.cpl	NO
187	wi01112655	ISS1:1OF1	p32870_1	18/08/2014	p32870_1.cpl	NO
188	wi01106658	ISS1:1OF1	p32812_1	18/08/2014	p32812_1.cpl	NO
189	wi01021522	ISS1:1OF1	p32863_1	18/08/2014	p32863_1.cpl	NO
190	wi01089807	ISS1:1OF1	p32957_1	18/08/2014	p32957_1.cpl	NO
191	wi01083036	ISS1:1OF1	p32571_1	18/08/2014	p32571_1.cpl	NO
192	wi01102091	ISS1:1OF1	p32744_1	18/08/2014	p32744_1.cpl	YES
193	wi01149384	ISS1:1OF1	p33147_1	21/08/2014	p33147_1.cpl	NO
194	wi01119863	ISS1:1OF1	p32923_1	18/08/2014	p32923_1.cpl	NO
195	wi01071996	ISS1:1OF1	p32461_1	18/08/2014	p32461_1.cpl	NO
196	wi01094832	iss1:1of1	p32718_1	18/08/2014	p32718_1.cpl	NO
197	wi01115369	ISS1:1OF1	p32889_1	18/08/2014	p32889_1.cpl	NO
198	wi01137737	ISS1:1OF1	p33055_1	18/08/2014	p33055_1.cpl	NO
199	wi01163826	ISS1:1OF1	p33229_1	21/08/2014	p33229_1.cpl	NO
200	wi01065248	ISS1:1OF1	p32412_1	18/08/2014	p32412_1.cpl	NO
201	wi01132222	ISS1:1OF1	p33023_1	18/08/2014	p33023_1.cpl	NO
202	wi01127874	ISS1:1OF1	p25747_1	18/08/2014	p25747_1.cpl	NO
203	wi01118819	ISS1:1OF1	p32954_1	18/08/2014	p32954_1.cpl	NO
204	wi01096907	ISS1:1OF1	p32733_1	18/08/2014	p32733_1.cpl	NO
205	wi01111194	ISS1:1OF1	p32821_1	18/08/2014	p32821_1.cpl	NO
206	wi01113712	ISS1:1OF1	p32877_1	18/08/2014	p32877_1.cpl	NO
207	wi01100508	ISS1:1OF1	p32761_1	18/08/2014	p32761_1.cpl	NO
208	wi01096910	ISS1:1OF1	p32734_1	18/08/2014	p32734_1.cpl	NO
209	wi01071659	ISS1:1OF1	p32589_1	18/08/2014	p32589_1.cpl	NO
210	wi01075149	ISS1:1OF1	p32475_1	18/08/2014	p32475_1.cpl	NO
211	wi01144609	ISS1:1OF1	p33119_1	21/08/2014	p33119_1.cpl	NO
212	wi01068922	ISS1:1OF1	p32454_1	18/08/2014	p32454_1.cpl	NO
213	wi01166065	ISS1:1OF1	p33241_1	21/08/2014	p33241_1.cpl	NO
214	wi01102296	ISS1:1OF1	p32780_1	18/08/2014	p32780_1.cpl	NO
215	wi01076948	ISS1:1OF1	p32526_1	18/08/2014	p32526_1.cpl	YES
216	wi01088055	ISS1:1OF1	p32607_1	18/08/2014	p32607_1.cpl	NO
217	wi01114695	ISS1:1OF1	p32885_1	18/08/2014	p32885_1.cpl	NO
218	wi01146766	ISS1:1OF1	p33131_1	21/08/2014	p33131_1.cpl	NO
219	wi01150596	ISS1:1OF1	p33154_1	21/08/2014	p33154_1.cpl	NO
220	wi01139981	ISS1:1OF1	p33083_1	21/08/2014	p33083_1.cpl	NO
221	wi01163362	ISS1:1OF1	p33224_1	21/08/2014	p33224_1.cpl	YES
222	wi01134211	ISS1:1OF1	p33077_1	21/08/2014	p33077_1.cpl	NO
223	wi01153104	ISS1:1OF1	p33174_1	21/08/2014	p33174_1.cpl	NO
224	wi01153896	ISS1:1OF1	p33185_1	21/08/2014	p33185_1.cpl	NO
225	wi01150083	ISS1:1OF1	p33152_1	21/08/2014	p33152_1.cpl	NO
226	wi01151870	ISS1:1OF1	p33162_1	21/08/2014	p33162_1.cpl	YES
227	wi01096718	ISS1:1OF1	p33138_1	21/08/2014	p33138_1.cpl	YES
228	wi01136640	ISS1:1OF1	p33052_1	21/08/2014	p33052_1.cpl	NO
229	wi01164281	ISS1:1OF1	p33232_1	21/08/2014	p33232_1.cpl	NO
230	wi01165461	ISS1:1OF1	p33237_1	21/08/2014	p33237_1.cpl	NO
231	wi01171467	ISS1:1OF1	p33270_1	21/08/2014	p33270_1.cpl	NO
232	wi01142100	ISS1:1OF1	p33090_1	21/08/2014	p33090_1.cpl	NO
233	wi01170424	ISS1:1OF1	p33260_1	21/08/2014	p33260_1.cpl	NO
234	wi01142792	ISS1:1OF1	p33099_1	21/08/2014	p33099_1.cpl	NO
235	wi01155909	ISS1:1OF1	p33192_1	21/08/2014	p33192_1.cpl	NO
236	wi01119736	ISS1:1OF1	p33094_1	21/08/2014	p33094_1.cpl	NO

237	wi01160967	ISS1:1OF1	p33213_1	21/08/2014	p33213_1.cpl	NO
238	wi01165870	ISS1:1OF1	p33238_1	21/08/2014	p33238_1.cpl	NO
239	WI11032038	ISS1:1OF1	p33022_1	21/08/2014	p33022_1.cpl	NO
240	wi01138136	ISS1:1OF1	p33191_1	21/08/2014	p33191_1.cpl	NO
241	wi01163521	ISS1:1OF1	p33226_1	21/08/2014	p33226_1.cpl	NO
242	wi01152195	ISS1:1OF1	p33163_1	21/08/2014	p33163_1.cpl	YES
243	wi01068011	ISS1:1OF1	p33182_1	21/08/2014	p33182_1.cpl	NO
244	wi01147091	ISS1:1OF1	p33137_1	21/08/2014	p33137_1.cpl	NO
245	wi01151898	ISS1:1OF1	p33175_1	21/08/2014	p33175_1.cpl	NO
246	wi01147983	ISS1:1OF1	p33141_1	21/08/2014	p33141_1.cpl	NO
247	wi01163048	ISS1:1OF1	p33223_1	21/08/2014	p33223_1.cpl	YES
248	wi01165881	ISS1:1OF1	p33239_1	21/08/2014	p33239_1.cpl	NO
249	wi01134799	ISS1:1OF1	p33069_1	21/08/2014	p33069_1.cpl	NO
250	wi01146543	ISS1:1OF1	p33097_1	21/08/2014	p33097_1.cpl	NO
251	wi01150802	ISS1:1OF1	p33156_1	21/08/2014	p33156_1.cpl	NO
252	wi01154253	ISS1:1OF1	p33206_1	21/08/2014	p33206_1.cpl	NO
253	wi01143987	ISS1:1OF1	p33134_1	21/08/2014	p33134_1.cpl	NO
254	WI01154952	ISS1:1OF1	p33184_1	21/08/2014	p33184_1.cpl	NO
255	wi01157590	ISS1:1OF1	p33252_1	21/08/2014	p33252_1.cpl	NO
256	wi01146289	ISS1:1OF1	p33146_1	21/08/2014	p33146_1.cpl	NO
257	wi01153039	ISS1:1OF1	p17588_1	21/08/2014	p17588_1.cpl	NO
258	wi01153844	ISS1:1OF1	p33172_1	21/08/2014	p33172_1.cpl	NO
259	wi01135146	ISS1:1OF1	p33033_1	21/08/2014	p33033_1.cpl	NO
260	wi01146705	ISS1:1OF1	p33129_1	21/08/2014	p33129_1.cpl	NO
261	wi01154485	ISS1:1OF1	p33194_1	21/08/2014	p33194_1.cpl	NO
MDP>LAST SUCCESSFUL MDP REFRESH :2014-08-21 08:43:42 (Local Time)						
MDP>USING DEPLIST ZIP FILE DOWNLOADED :2014-08-20 11:48:22 (est)						

## Appendix B

### SIP Route on Avaya Communication Server 1000E R7.6

```
TYPE: rdb

CUST 0

ROUT 20

TYPE RDB
CUST 00
ROUT 20
DES SIPTRK
TKTP TIE
M911P NO
ESN NO
RPA NO
CNVT NO
SAT NO
RCLS EXT
VTRK YES
ZONE 00001
PCID SIP
CRID YES
NODE 3
DTRK NO
ISDN YES
    MODE ISLD
    DCH 66
    IFC SL1
    PNI 00001
    NCNA YES
    NCRD YES
    TRO YES
    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 YES
ICOG IAO
SRCH LIN
TRMB YES
STEP
ACOD 8020
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
```

PAGE 002

```
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
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 YES
INC YES
LAST YES
TTA YES
ABAN YES
CDRB YES
QREC YES
OAL YES
AIA YES
OAN YES
OPD YES
```

```
NDP  EXC 0
NATL YES
SSL
CFWR NO
IDOP NO
VRAT NO
MUS  YES
MRT  10
PANS YES
RACD NO
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
```

PAGE 003

```
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 20 20
ATTR NO
TRRL NO
SGRP 0
CCBA NO
ARDN NO
CTBL 0
AACR NO
```

## SIP D-channel Avaya Communication Server 1000E R7.6

```
ADAN      DCH 66
CTYP DCIP
DES VTRK_DCH
USR ISLD
ISLM 4000
SSRC 1800
OTBF 32
NASA YES
IFC SL1
CNEG 1
RLS ID 7
RCAP ND2 MWI
MBGA NO
H323
OVLR YES
OVLS YES
OVLT 1
```

## SIP Trunk on Avaya Communication Server 1000E R7.6

```
TYPE TNB
TN 96 0 3 29

DATE

PAGE

DES

DES SIPTRK
TN 096 0 03 29 VIRTUAL
TYPE IPTI
CDEN 8D
CUST 0
XTRK VTRK
ZONE 00001
TIMP 600
BIMP 600
AUTO_BIMP NO
NMUS NO
TRK ANLG
NCOS 0
RTMB 20 30
CHID 60
TGAR 0
STRI/STRO IMM IMM
SUPN YES
AST NO
IAPG 0
CLS UNR DTN CND ECD WTA LPR APN THFD XREP SPCD MSBT
      P10 NTC MID
TKID
AACR NO
```

---

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