Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Aculab's ApplianX IP Gateway to Enable an Avaya Communication Server 1000E 7.6 using a SIP Trunk via Avaya Aura® Session Manager to Interoperate with a Digital Private Network Signaling Trunk - Issue 1.0

Abstract

These Application Notes describe the configuration steps for provisioning an Aculab ApplianX IP Gateway to enable an Avaya Communication Server 1000E 7.6 using a SIP Trunk via Avaya Aura® Session Manager to Interoperate with a Digital Private Network Signalling Trunk.

Readers should pay attention to section 2, in particular the scope of testing as outlined in Section 2.1 as well as the observations noted in Section 2.2, to ensure that their own use cases are adequately covered by this scope and results.

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

1. Introduction

The ApplianX IP Gateway can be used in a variety of TDM and VoIP migration strategies, whether it is connecting a TDM-based PBX to a new IP network, or IP PBX, or providing a PSTN front end to SIP-based solutions. The ApplianX IP Gateway is a 'plug & play' gateway. On the PSTN side, the ApplianX IP Gateway provides one, two or four universal T1/E1 (USA, Japan, Europe, worldwide) interfaces, with a wide range of signalling protocols, including PRI/ISDN types, T1 robbed bit and E1 CAS, R1, R2 and DTMF, plus PBX protocols, such as QSIG and DPNSS. A different protocol can be selected for each trunk.

2. General Test Approach and Test results

The general test approach was to configure an E1 trunk of the Aculab ApplianX IP Gateway (ApplianX) as Digital Private Network Signalling System (DPNSS). The DPNSS trunk connected to the ApplianX then converted the signalling to SIP to communicate with the Avaya Aura® Session Manager. Avaya Communication Server 1000E (CS1000) was used to terminate SIP Calls.

Note: During compliance testing a CS1000 was used to host the DPNSS trunk.

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 testing included:

- Verification of connectivity between CS1000 (SIP) and CS1000 (DPNSS) via the ApplianX IP Gateway
- Basic call tests: Calls from DPNSS to SIP and vice versa
- Calls on hold (including music-on-hold)
- Transfers and conferences
- Call back when free (Ring again)
- Accessing voice mail
- Route optimisation (Path replacement)
- Call forwards

2.2. Test Results

Tests were performed to ensure full interoperability of an Aculab ApplianX IP Gateway when configured for SIP (CS1000) and DPNSS. The tests were all functional in nature and performance testing was not included. All the test cases passed successfully.

Note: Although during testing a CS1000 was configured with DPNSS trunks, an ApplianX IP Gateway will function with any PBX supporting DPNSS.

2.3. Support

Technical support can be obtained for Aculab products as follows:

- E-mail: support@aculab.com
- Phone: +44(0)1908 273805

Note: An Aculab support contract is required to gain access to Aculab support services.

3. Reference Configuration

Figure 1 illustrates the network configuration used during compliance testing. The CS1000 was configured to use SIP and was configured with a connection to the Session Manager. The DPNSS PBX was connected to a DPNSS port on the ApplianX. The ApplianX was configured with one SIP trunk and one DPNSS trunk. Avaya 1120 IP Phones were used for SIP and digital telephones were used to make and receive calls to the DPNSS PBX.

Note: During compliance testing the DPNSS PBX was an Avaya Communication Server 1000E R7.6.

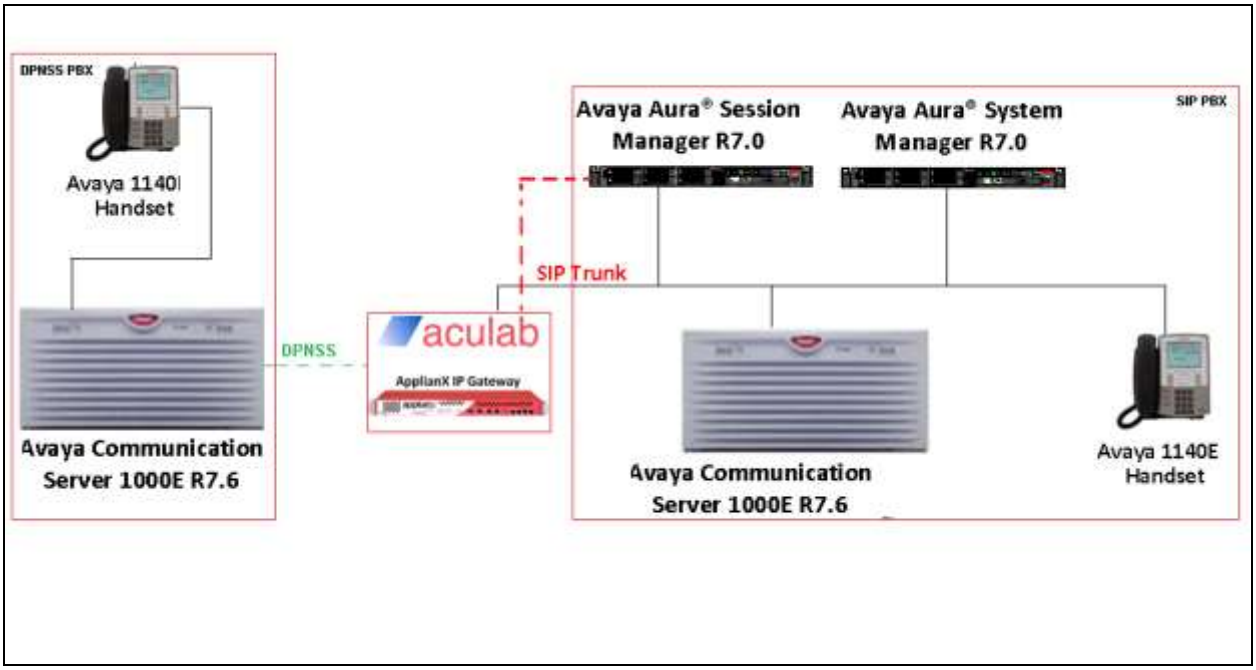


Figure 1: Avaya Communication Server 1000E with Aculab ApplianX IP Gateway Reference Configuration

4. Equipment and Software Validated

The hardware and associated software used in the compliance testing is listed below.

Avaya Equipment	Software Version
Avaya Aura® System Manager running on VMWare Virtual Machine	System Manager 7.0 – FP1 Build No. - 7.0.0.0.16266-7.0.9.912 Software Update Revision No: 7.0.0.03929
Avaya Aura® Session Manager running on VMWare Virtual Machine	Session Manager R7.0 SM 7.0.0.0.700007
Avaya CPPM running Avaya Communication Server 1000E	R7.6 (See **Appendix 3** for Call Server Patches)
Avaya 1140 Series Deskphone	UNIStim
Aculab Equipment	**Software Version**
ApplianX IP Gateway Gateway Engine	Version 2.3.5 (Release 1453) Version 1.5.7-14

Table 1: Hardware and Software Version Numbers

Note: The DPNSS PBX was an Avaya Communication Server 1000E running Release 7.6. A Sample DPNSS configuration is shown in **Appendix 1**

5. Configure Avaya Communication Server 1000E

The configuration and verification operations illustrated in this section were all performed using the PUTTY program. The information provided in this section describes the configuration of CS1000 for this solution. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 10**.

Note: It is assumed that the CS1000 has already been configured for SIP and a connection is in place to Session Manager. The CS1000 SIP trunk configuration is shown in **Appendix 2**

5.1. Create a Route for SIP calls

The following sections illustrate the setup of a new route and Coordinated Dial Plan (CDP) in order to send calls to ApplianX via Session Manager. To create a new route on the CS1000E overlay 16 is used. Use the **new** command in overlay 16 to create a new SIP route**.** Type **LD 16** at the > prompt to enter overlay 16. The route created is a **TIE** route in order to connect to ApplianX via Session Manager. Subsets of these commands are listed below.

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                20                  Route Number
TKTP                TIE                 Route Type
VTRK                YES                 Virtual Route
ZONE                1                   Zone number associated with the route
PCID                SIP                 Protocol for the route
```

5.2. Configure a Coordinated Dial Plan

A Coordinated Dial Plan is added to place calls across the SIP trunk to the ApplianX. Add a Route List Block (RLB) to place calls over the SIP route created in **Section 5.1** above. Enter overlay 86 to configure a new RLB by typing **LD 86** at the > prompt. As shown below a new Route List Index (**RLI**) is added with a **ROUT** equal to that of the SIP Route created in **Section 5.1**.

LD 86

```
Prompt        Response      Description
>             LD 86         Enter Overlay 86
REQ           new           new/add
CUST          0             Customer number (default is 0)
FEAT          rlb           Route List Block
RLI           20            Route List index Number (any unused number)
ENTR          0             First Entry (0-2
ROUT          20            Route Number configured in Section 5.1
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, **4xxx** is the **DSC** as this is the number used to route calls to the ApplianX during the compliance testing. Enter overlay 87 to add a new **CDP** by typing **LD 87** at the > prompt.

LD 87

```
Prompt        Response      Description
>             LD 87         Enter Overlay 87
REQ           new           new/add
CUST          0             Customer number (default is 0)
FEAT          cdp           Coordinated Dial Plan
TYPE          dsc           Distance Steering Code
DSC           4             Extension number of the TENS Application
FLEN          6             Ext Length
DSP           LSC           DSP Type (Least Cost Routing)
RLI           20            Which RLB to use (Enter the RLB setup above)
Return to end
```

6. Configuring 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:

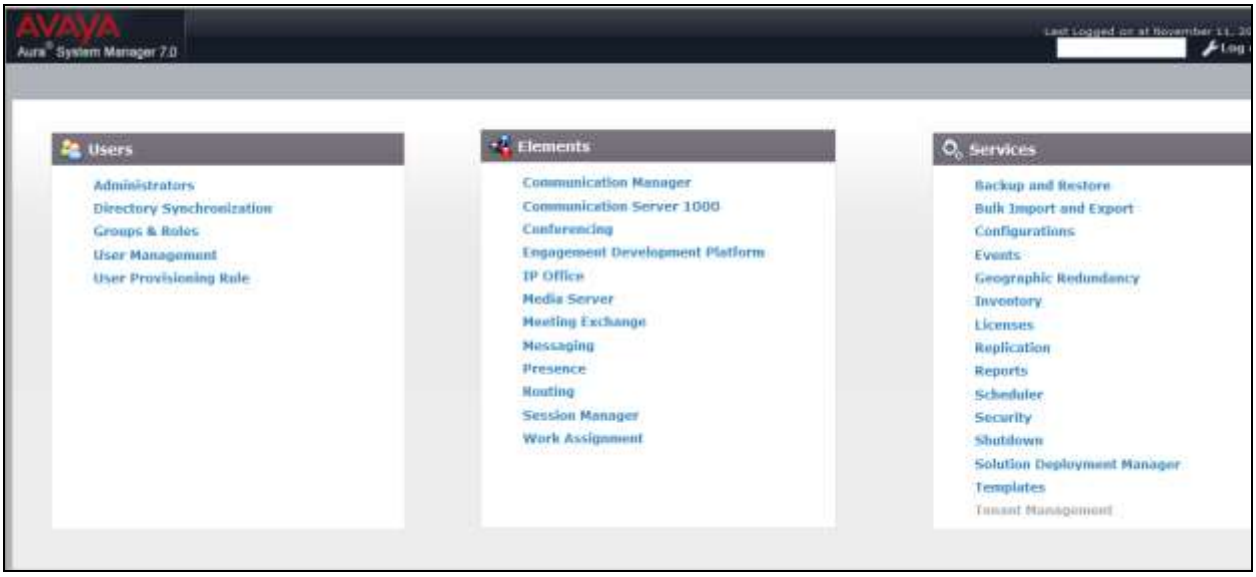
- Log in to Avaya Aura® Session Manager
- Administer SIP Domain
- Administer Location
- Administer SIP Entities
- Administer Routing Policies
- Administer Dial Patterns

6.1. Log in to Avaya Aura® System Manager

Access the 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 Adddress >/SMGR**. Log in using appropriate credentials.

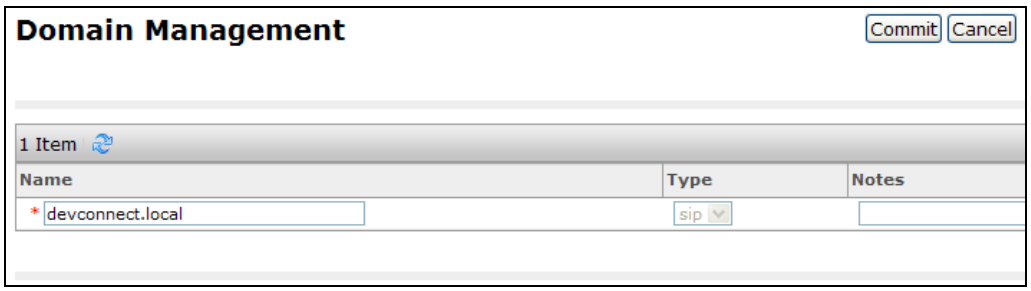
6.2. Administer SIP Domain

Once logged in, select **Routing** from the **Elements** column.



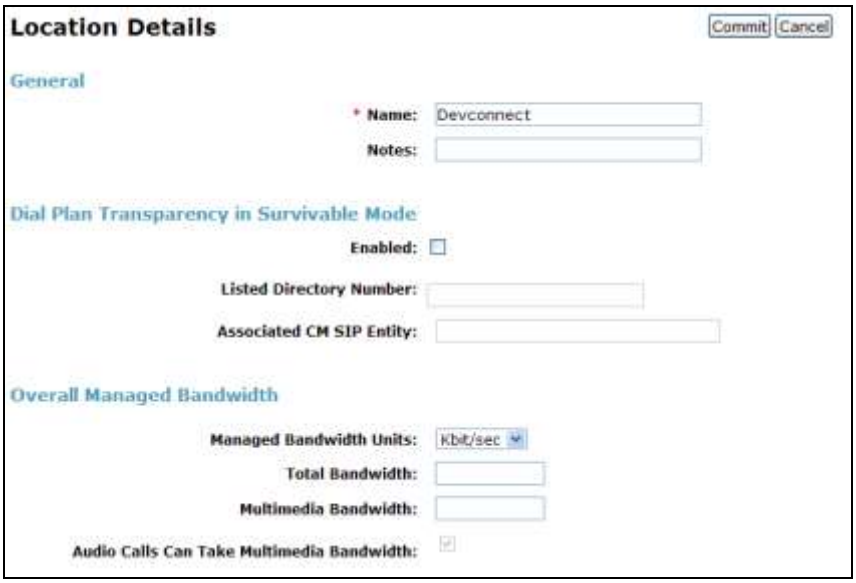
Click on **Domains** in the left window. If there is not a domain already configured click on **New** highlighted below.

Note the domain **Name** used in the compliance testing was **devconnect.local**. Note this domain is also referenced on the CS1000E Signalling Server the setup of which is outside the scope of these Application Notes. For more information on the Signalling Server setup please refer to **Section 10**. Once the domain name is entered click on **Commit** to save this.

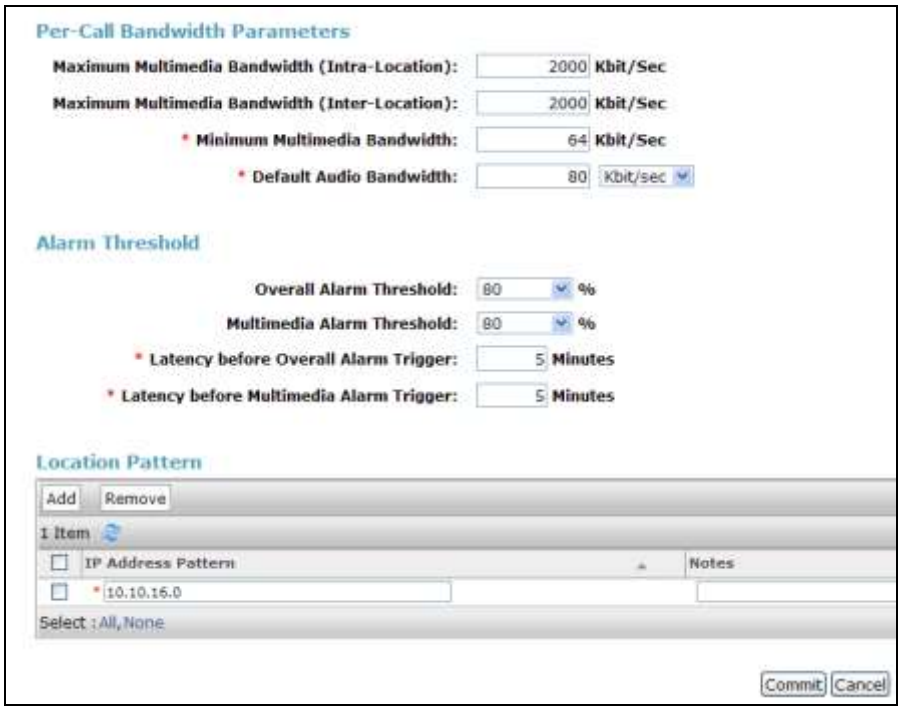


6.3. Administer Location

Session Manager uses the origination location to determine which dial patterns to look at when routing a call. In this example, one Location has been created which will reference both the Session Manager location and the OpenGate location. Navigate to **Home → Elements → Routing → Locations → New** and enter an identifying **Name**, as shown below.



At the bottom of the same page the **Location Pattern** is defined. Click **Add** and enter the IP address range used to logically identify the location. In this case the **IP Address Pattern** is **10.10.16.*** as shown below. Click **Commit** when done.

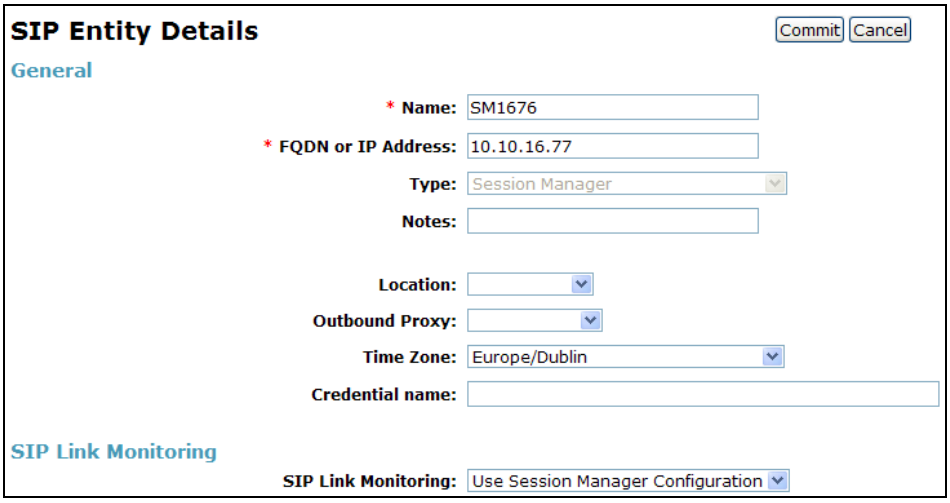


6.4. Administer SIP Entities

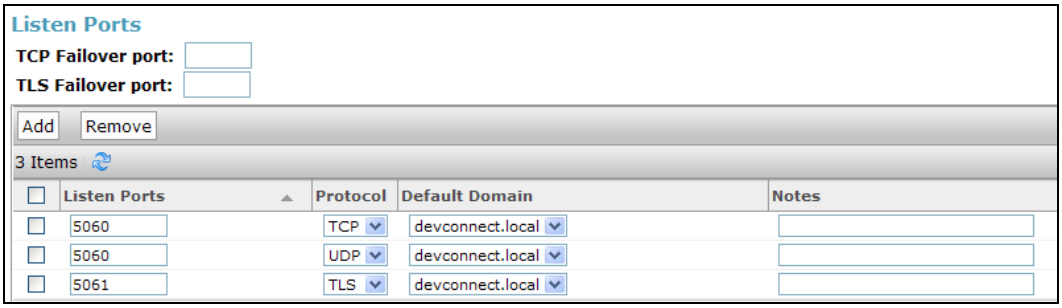
Each SIP device (other than Avaya SIP Phones) that communicates with Session Manager requires a SIP Entity configuration. This section details the steps to create SIP Entities for Session Manager SIP Signalling Interface, CS1000E and ApplianX solution respectively.

6.4.1. Configure Session Manager SIP Signalling Interface Entity

Click **Home → Elements → Routing → SIP Entities → New** and assign an identifying **Name**, the **FQDN or IP Address** for Session Manager SIP Signalling Interface, set the **Type** to **Session Manager** and the **Location** to the Location configured in **Section 6.3** and click on **Commit**.

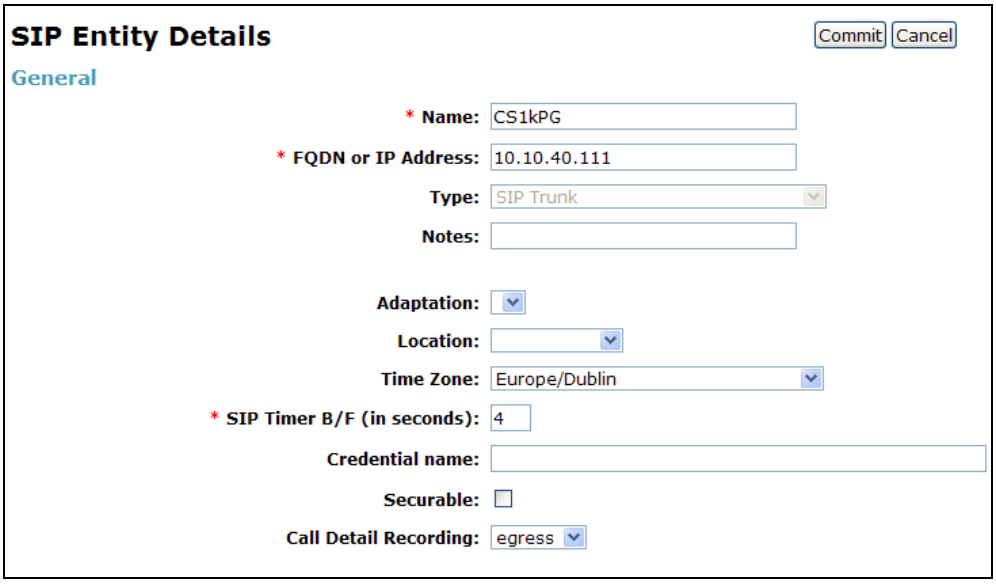


Tick the box next to the entity that was just created and click **Edit** (not shown)**.** Scroll down the page until the **Port** section is displayed, click **Add** and configure the **Port** as **5060** the **Protocol TCP** and the **Default Domain** as the domain configured in **Section 6.2**. Repeat this for the **UDP** connection, which will be established to the ApplianX. Click **Commit** when done (not shown).



6.4.2. Configure Avaya Communication Server 1000E SIP Entity

Click **Home → Elements → Routing → SIP Entities → New** and assign an identifying **Name**, the **FQDN or IP Address** for the CS1000E Node IP Address, which can be obtained from the Signalling Server, set the **Type** to **SIP Trunk** and the **Location** to the Location configured in **Section 6.3** and click on **Commit**.



6.5. Create ApplianX as a SIP Entity

A SIP Entity must be added for the ApplianX. To add a SIP Entity, select **SIP Entities** on the left panel menu and then click on the **New** button (not shown).

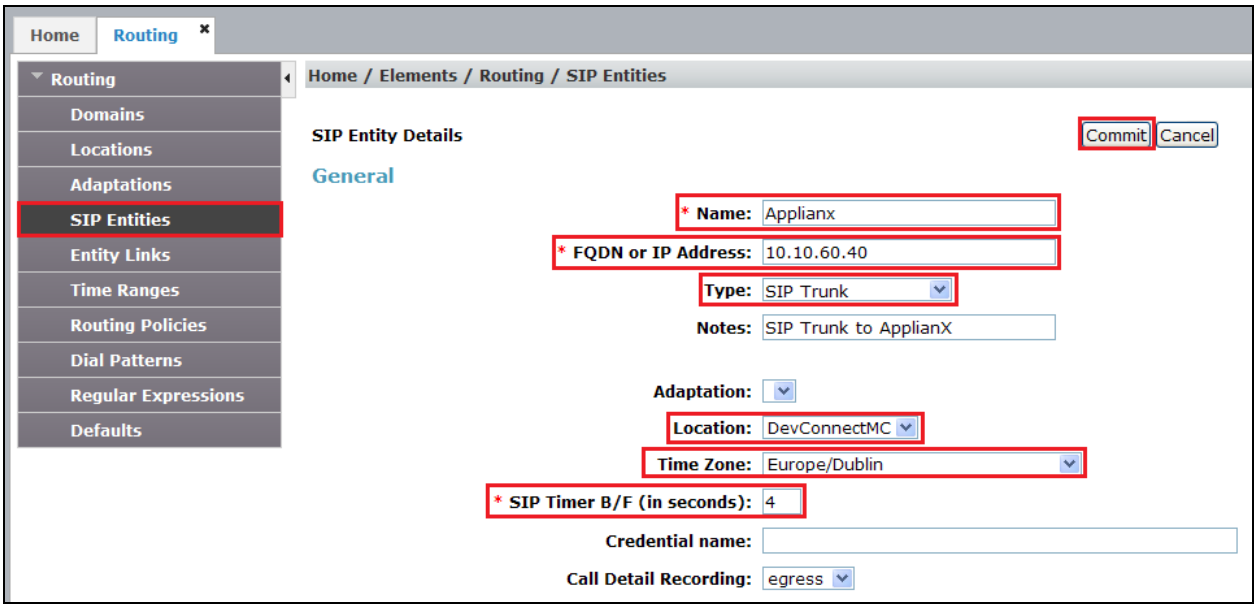
Note: A SIP Entity was already configured for Communication Manager and was called **CM70**.

Enter the following for the ApplianX SIP Entity:
Under **General** enter the following:

- **Name** — Enter an informative name (e.g., **Applianx**)
- **FQDN or IP Address** — Enter the IP address of the signalling interface of the ApplianX
- **Type** — Select **SIP Trunk** from the dropdown box
- **Location** — Select the location from the dropdown box that was configured in **Section 6.3**
- **Time Zone** — Select Time zone for this location from the dropdown box
- **SIP Timer** — Enter **4**

Once the correct information is entered click the **Commit** Button.

Note: During compliance testing **Adaptation** was left blank.

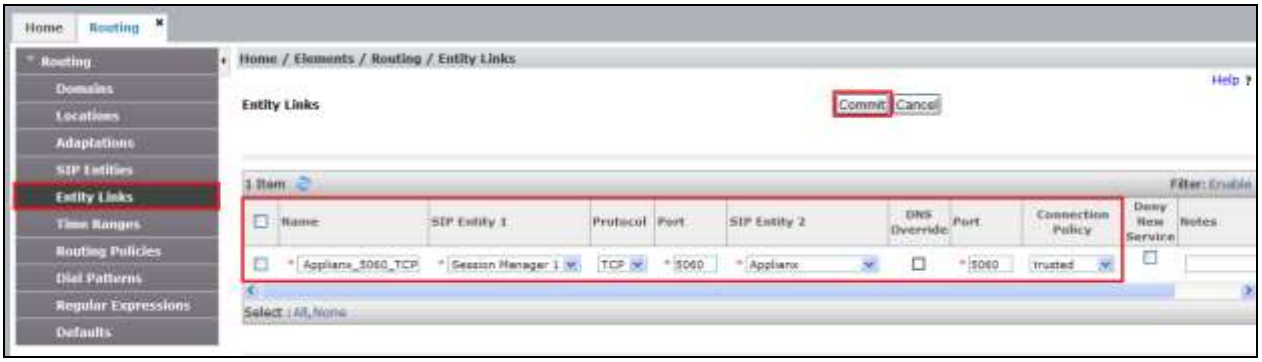


6.6. Create an Entity Link for ApplianX

The SIP trunk between Session Manager and the ApplianX requires an Entity Link.
To add an Entity Link, select **Entity Links** on the left panel menu and click on the **New** button, (not shown), enter the following:

- **Name** An informative name, (e.g. **Applianx_5060_TCP**)
- **SIP Entity 1** Select **Session Manager 1** from the **SIP Entity 1** dropdown box
- **Protocol** Select **TCP** or UDP* from the Protocol drop down box.
- **Port** Enter **5060**
- **SIP Entity 2** Select **Applianx** from the **SIP Entity 2** dropdown box (configured in **Section 6.4)**
- **Port** Enter **5060** as the Port
- **Connection Policy** Check the **Trusted** check box

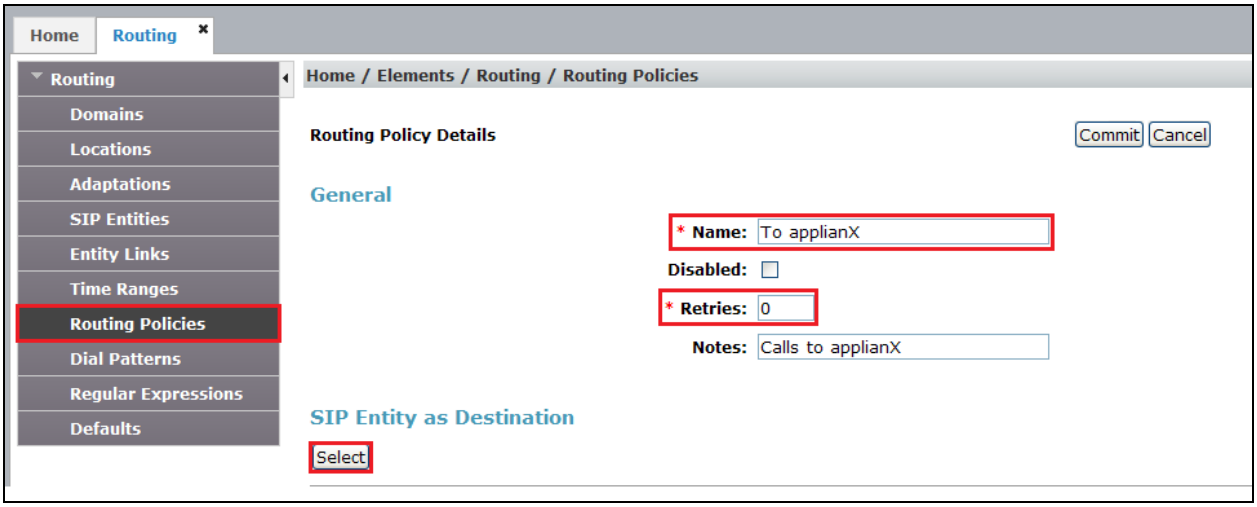
Click **Commit** to save changes. The following screen shows the Entity Links used.



***Note:** The UDP protocol was also used in this test and is also supported for the SIP trunk to the ApplianX.

6.7. Create a Routing Policy for ApplianX

Create routing policies to direct calls to the ApplianX via Session Manager. To add a routing policy, select **Routing Policies** on the left panel menu and then click on the **New** button (not shown). In **Routing Policy Details** enter an informative name in the **Name** field, (example **To applianX**), and enter **0** in the **Retries** field**.** At **SIP Entity as Destination,** click the **Select** button. A Routing Policy was also configured to direct calls to Communication Manager, but is outside the scope of these Application Notes.



Once the **SIP Entity** list screen opens, check the **ApplianX** radio button. Click on the **Select** button to confirm the chosen options and then return to the Routing Policies Details screen and select the **Commit** button (not shown) to save.

6.8. Administer Dial Patterns

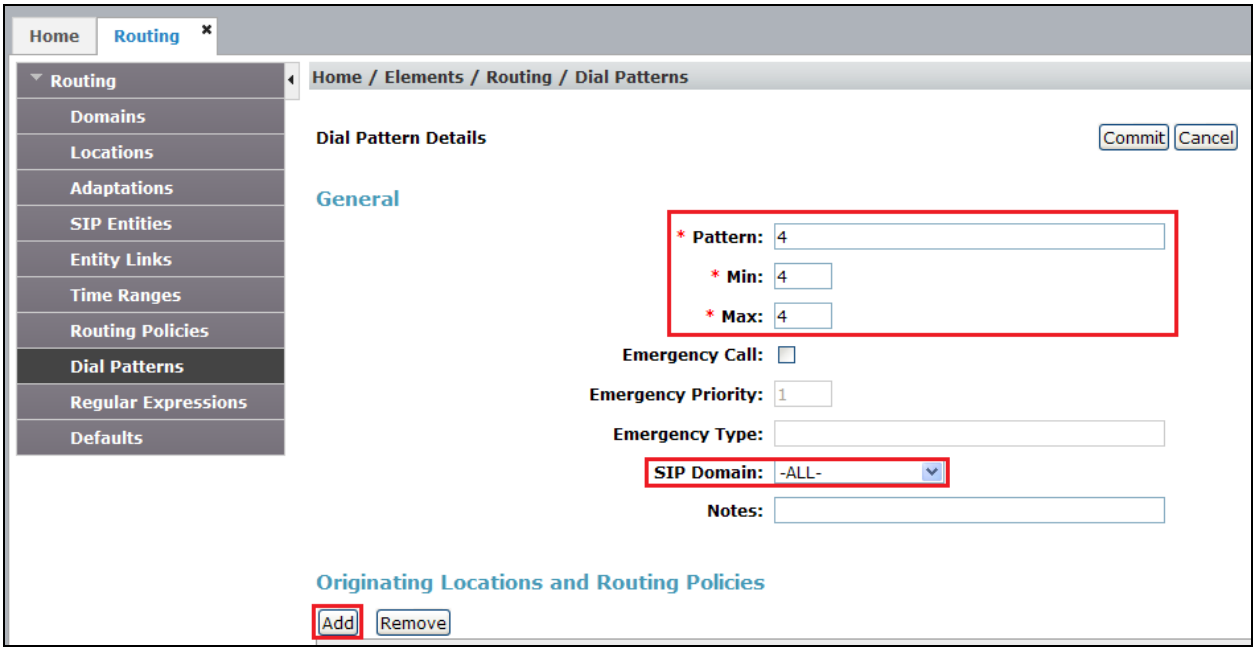
As one of its main functions, Session Manager routes SIP traffic between connected devices. Dial patterns are created as part of the configuration to manage SIP traffic routing, which will direct calls based on the number dialled to the appropriate system.

6.8.1. Create a Dial Pattern for ApplianX

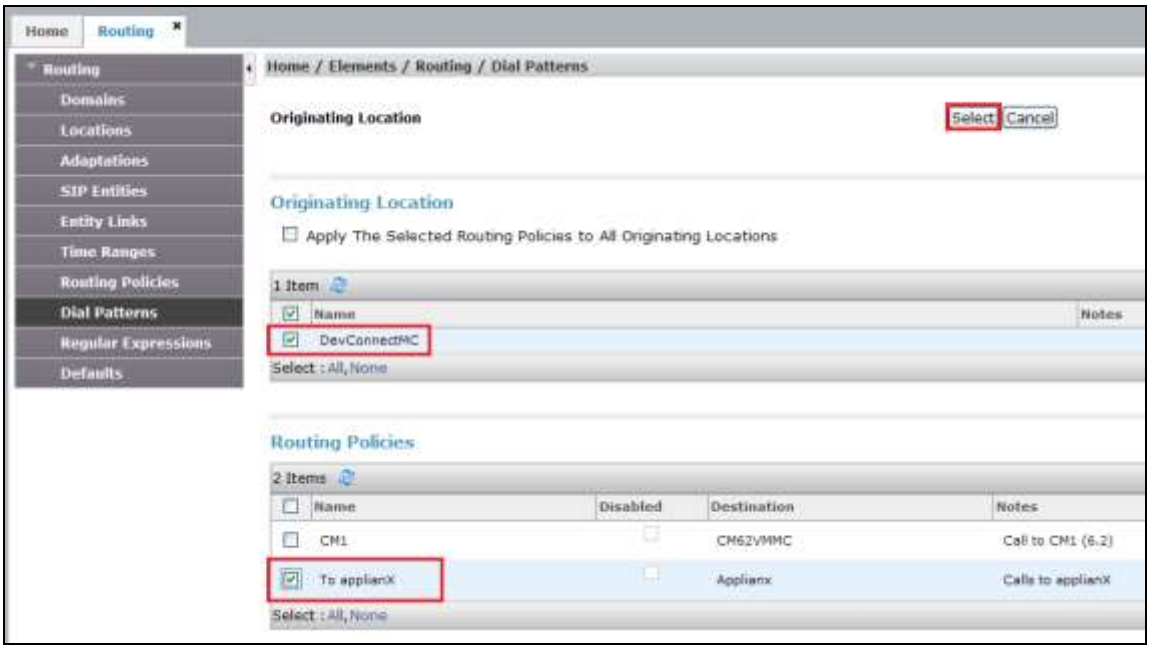
A dial pattern must be created on Session Manager to route calls to and from the ApplianX. During compliance testing a number of patterns were used. The example below shows 4. To configure the dial pattern to route calls to the ApplianX, select **Dial Patterns** on the left panel menu and then click on the **New** button (not shown). A dial pattern was also configured to route calls to Communication Manager, but is outside the scope of these Application Notes. Under **General** enter out the following:

- **Pattern** Enter 4
- **Min** Enter 4 as the minimum length of dialled number
- **Max** Enter 4 as the maximum length of dialled number
- **SIP Domain** Select **All** from the drop down box

Click the **Add** button in **Originating Locations and Routing Policies**.

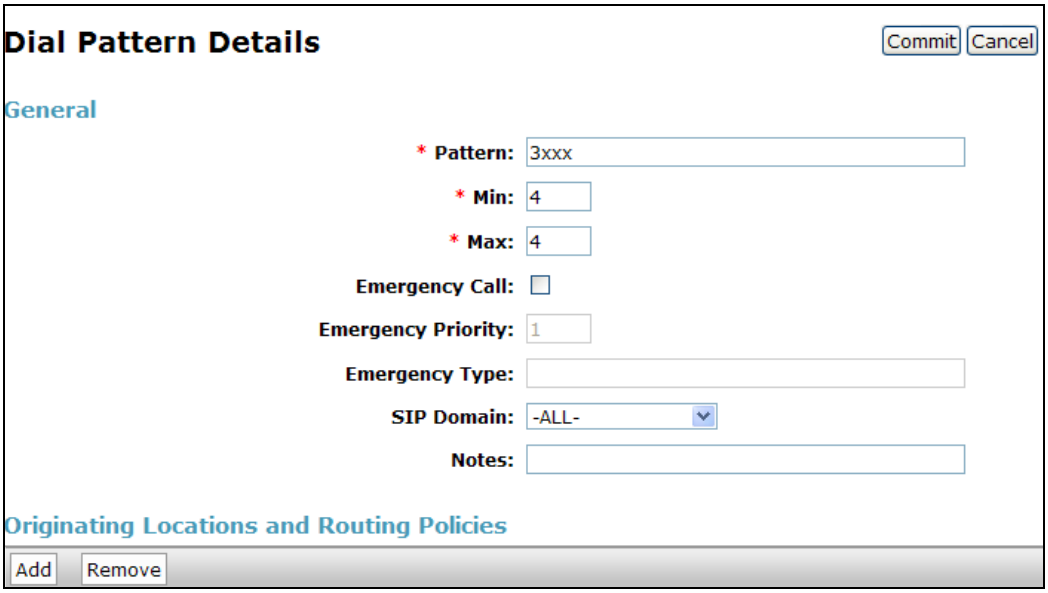


In **Originating Location** check the **DevConnectMC** check box. Under **Routing Policies** check the **To applianX** check box. Click on the **Select** button to confirm the chosen options and then be returned to the Dial Pattern screen (shown previously), select **Commit** button to save (not shown).

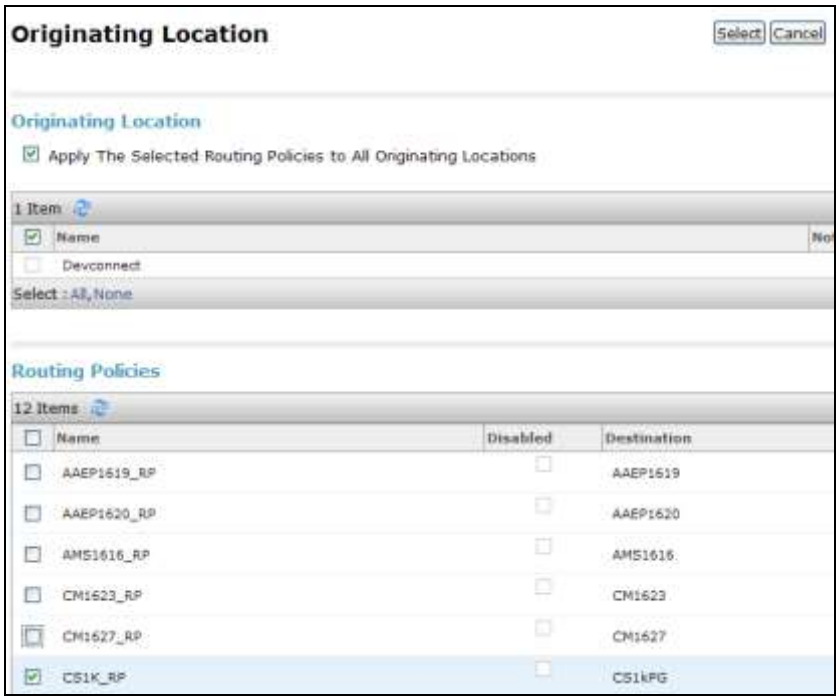


6.8.2. Create Dial Pattern to Avaya Communication Server 1000E

An additional dial pattern must be created on Session Manager to route incoming calls from ApplianX to CS1000 Extensions 3xxx. To create a dial pattern to route 3xxx from Session Manager to the CS1000, click **Home → Elements → Routing → Dial Patterns →New.** Under **Pattern** enter the numbers presented to Session Manager by ApplianX destined for CS1000, in the **Patterns** box. Set **Min** and **Max** digit string length.



In the **Originating Locations and Routing Policies** section of the web page, click **Add.** In the **Origination Section,** click **All**, in the **Routing Policies** section click the routing policy created for the CS1000. Click **Select** when done. Click **Commit** when returned to Dial Pattern Details (not shown).



7. Configure Aculab ApplianX IP Gateway

A number of steps are required to configure the Aculab ApplianX IP Gateway, the initial assigning of the administration IP address, administration user name and password are assumed to be completed. The configuration operations described in this section can be summarized as follows:

- Login to ApplianX IP Gateway
- Run the Setup Wizard
- Configure DPNSS Trunk
- Configure SIP Trunk
- Configure Endpoints
- Configure Groups
- Configure Routes
- Configure SIP
- Configure Codecs
- Save configuration
- Use configuration

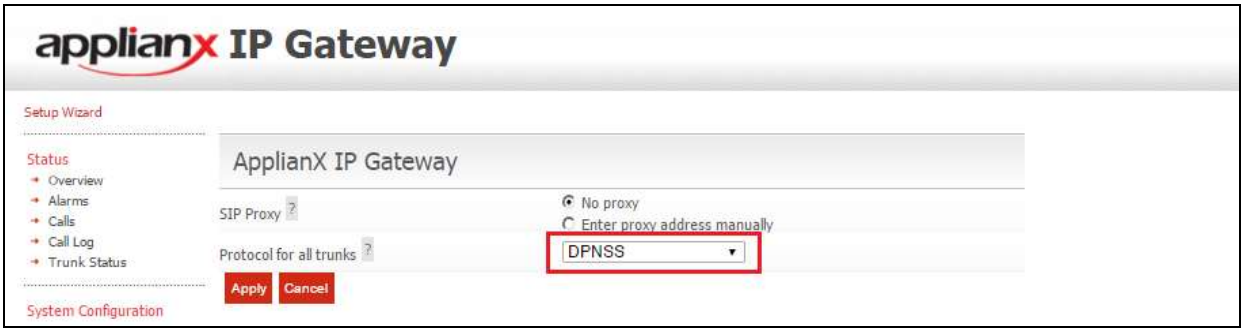
7.1. Login to ApplianX IP Gateway

Login by accessing the browser-based GUI, using the URL *http://<ip-address>* assigned to the ApplianX. Once the ApplianX IP Gateway web page opens, log in with the appropriate credentials and click on the **Log in** button.

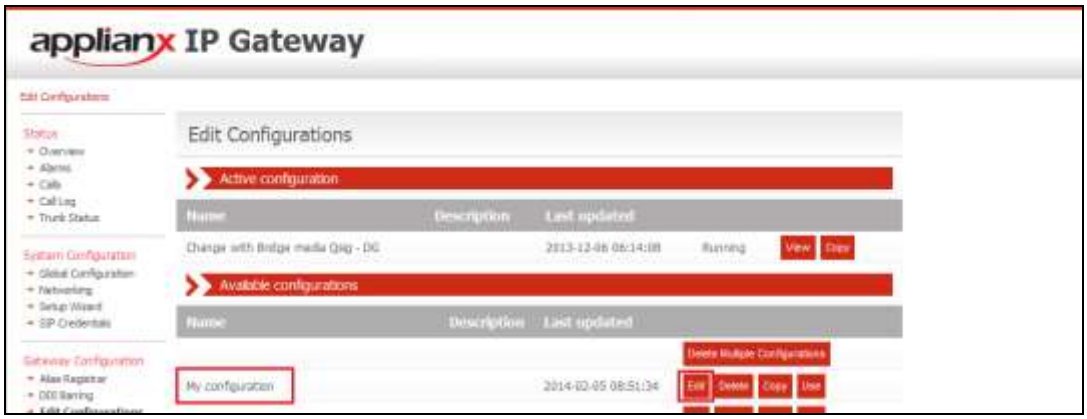
7.2. Run the Setup Wizard

After the main web page opens, select **Setup Wizard** from System Configuration section.

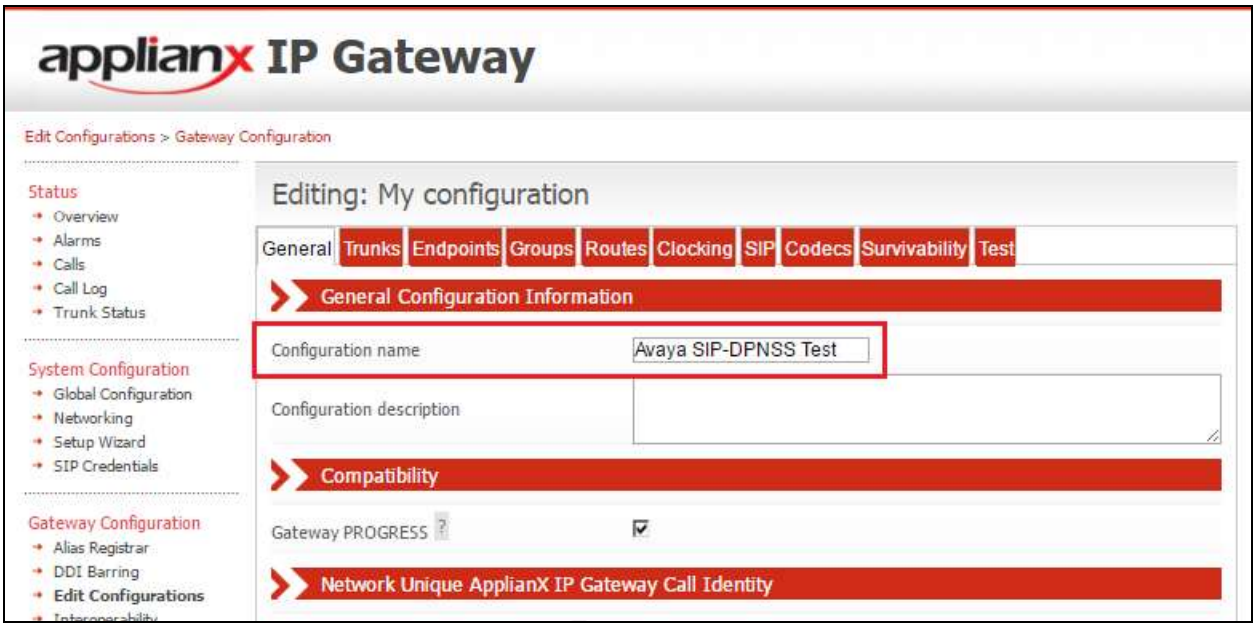
Once the **Setup Wizard** page opens, select **DPNSS** from the **Protocol for all trunks**, drop-down box, and click on the **Apply** button.



After clicking the **Apply** button in the previous step, the **Edit Configurations** page opens. Click on the **Edit** button for **My Configuration**.

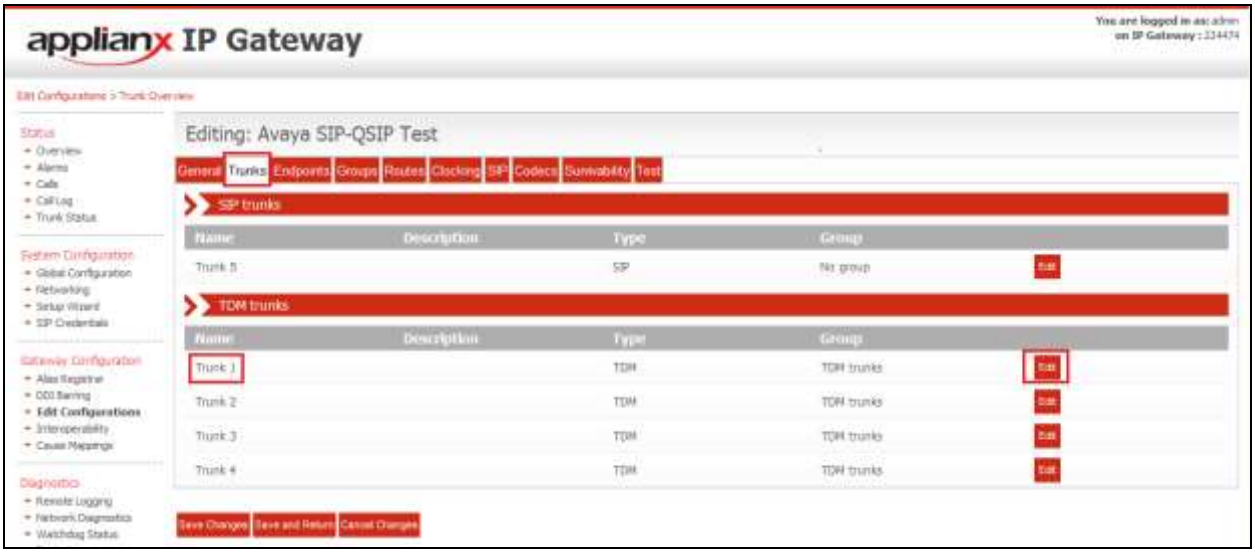


In the **General** tab, give a descriptive name to the configuration. During compliance testing, **Avaya SIP-DPNSS Test** was used.

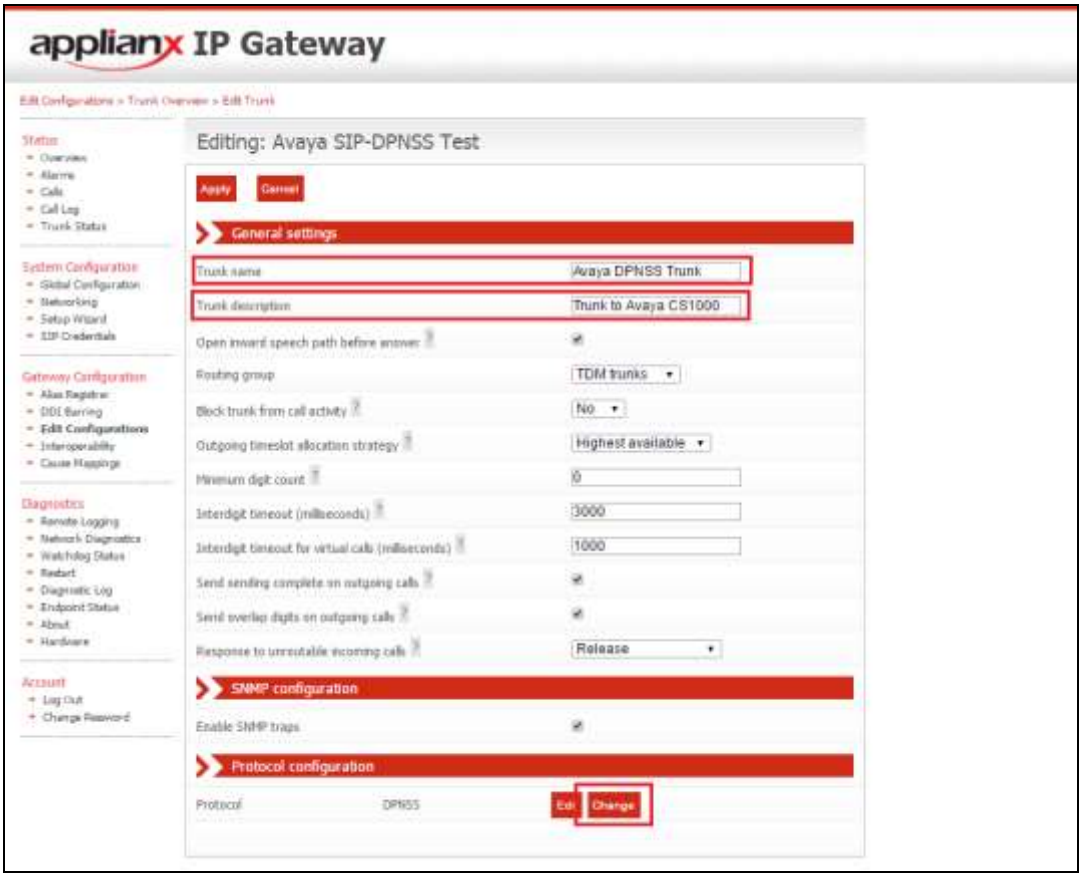


7.3. Configure DPNSS Trunk

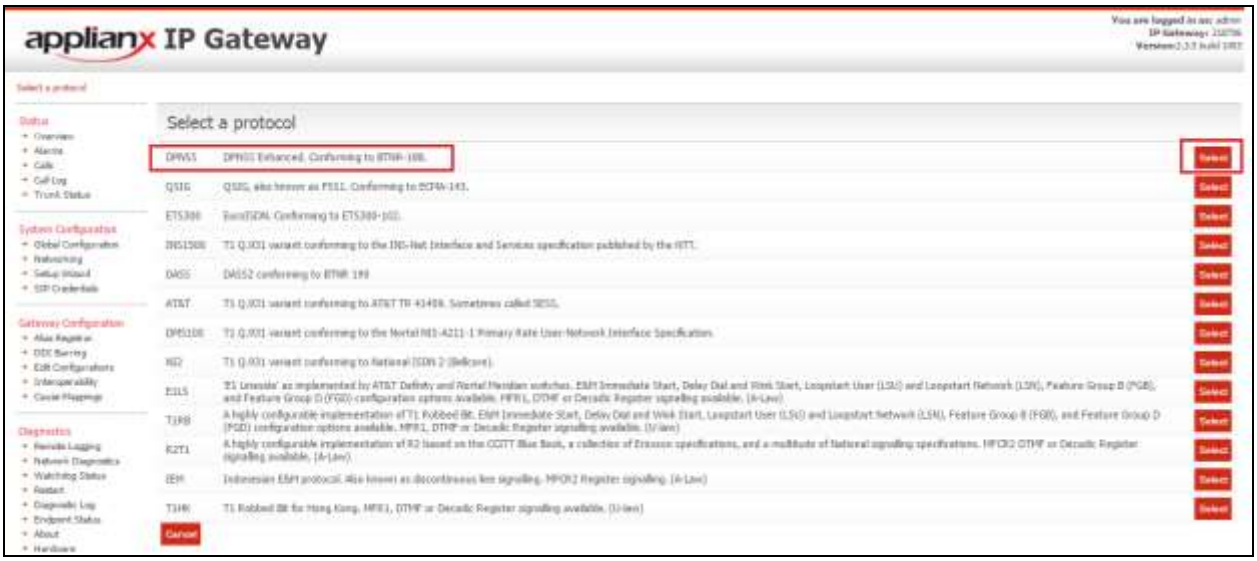
Click on the **Trunks** Tab followed by the **Trunk 1 Edit** button. This trunk was configured for DPNSS. A cable was connected between the E1/T1 Trunk 1 port on the front of the ApplianX and the T1/E1 port on the CS1000. Please note that the configurations of the DPNSS trunk are dependent on the configuration of the DPNSS gateway of connecting PBX, pay special attention to the Master/Slave configuration. The screenshots in this section relate to the configuration used during compliance testing of this solution.



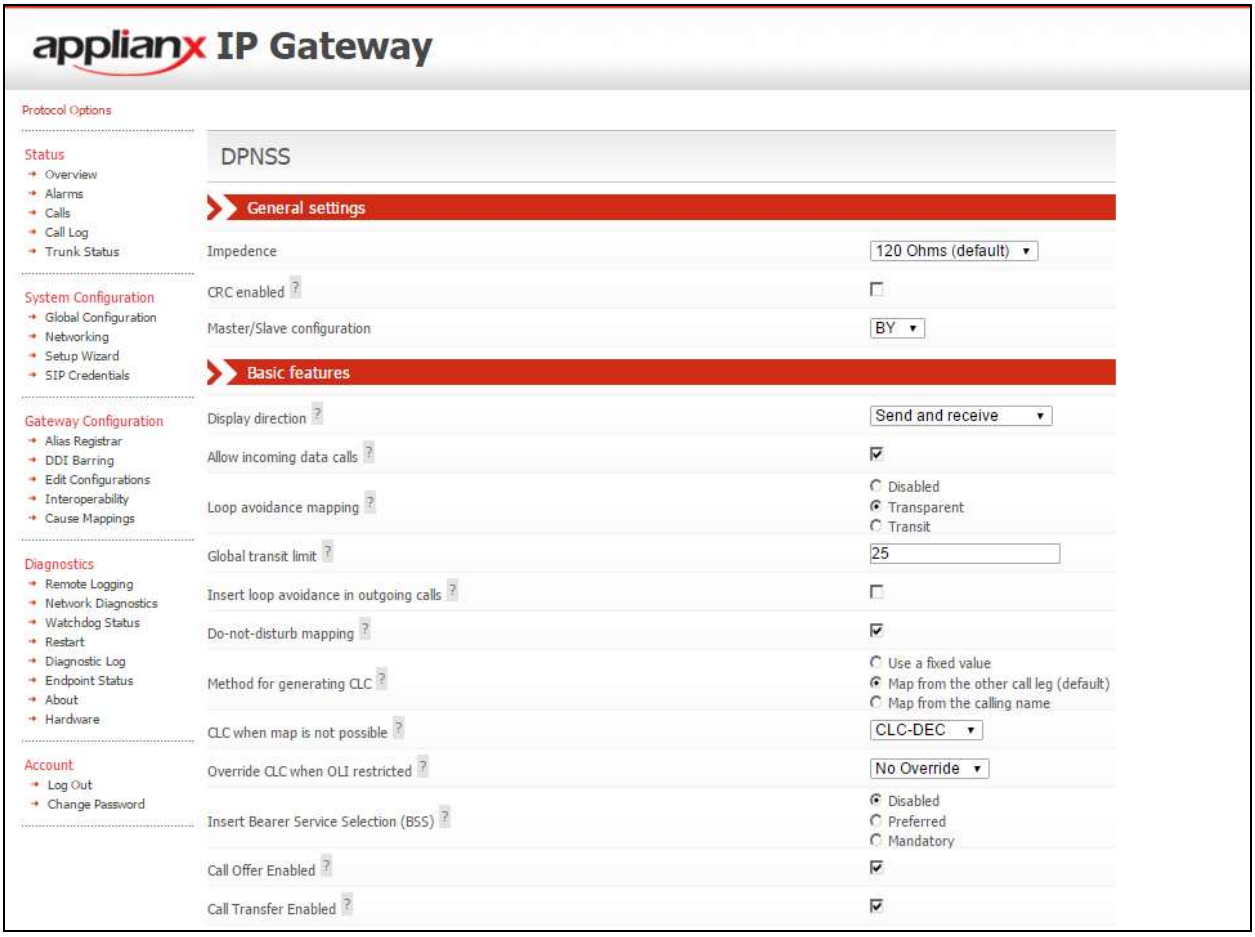
In the **Trunk Name** field (i.e., Avaya DPNSS Trunk) and in the **Trunk description** field enter a description (i.e., Trunk to Avaya CS1000). Configure the remaining fields as shown in the following screen shot. Click on the **Change** button in the **Protocol configuration** section**.**



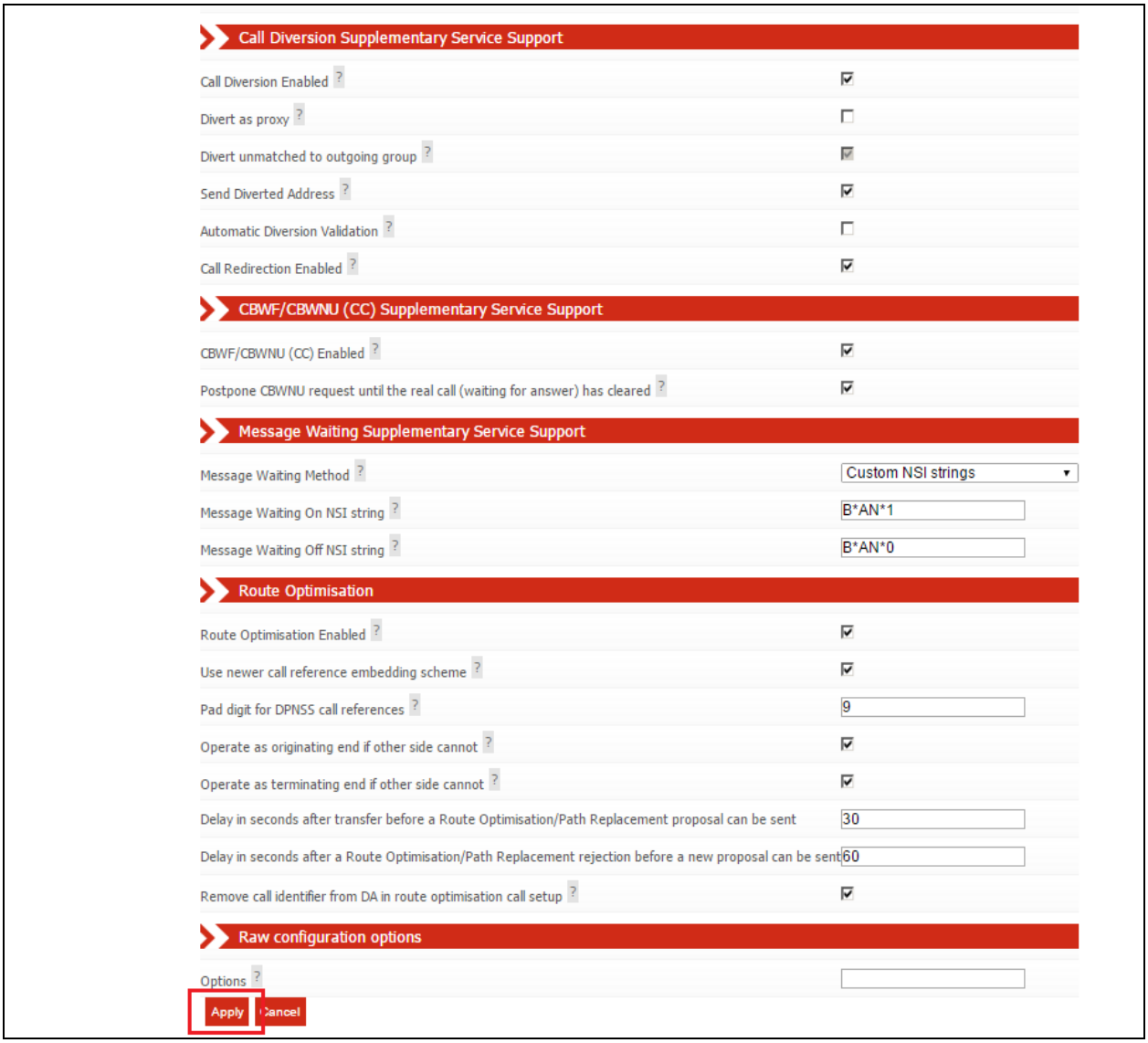
Click on the **Select** button for **DPNSS**.



Configure all as is shown in the following screen shots.

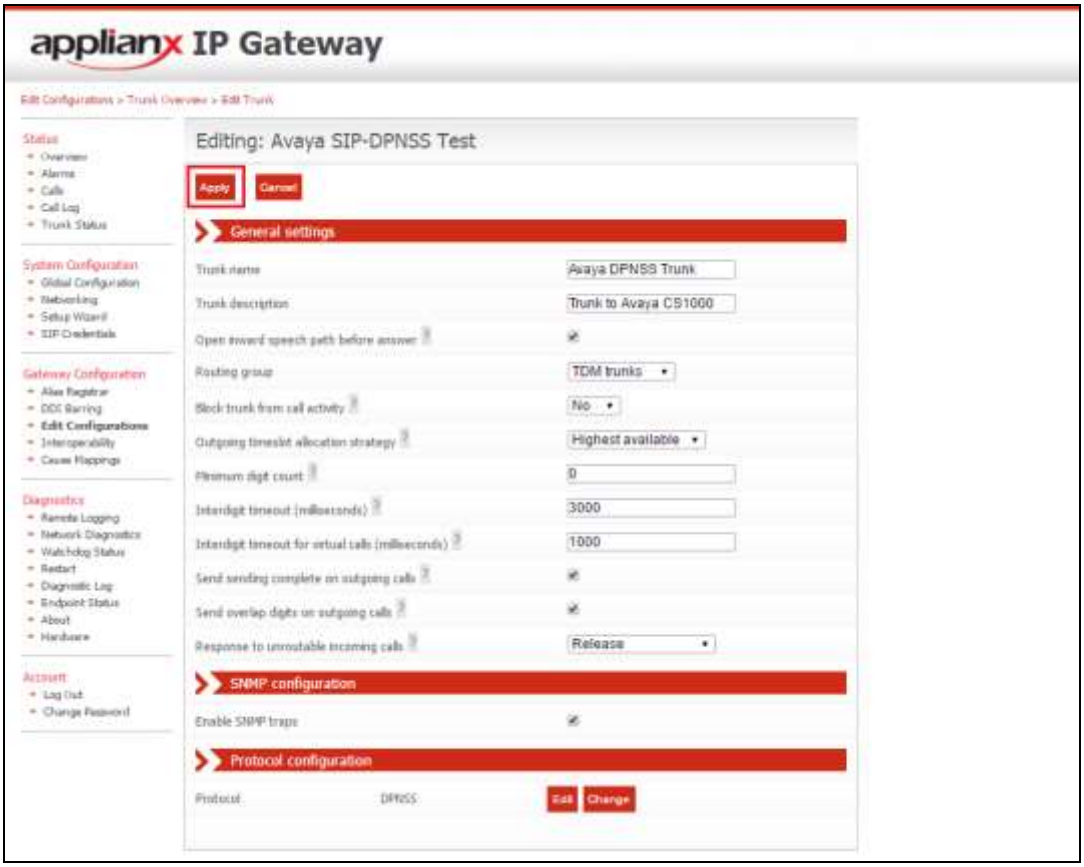


Continuation….



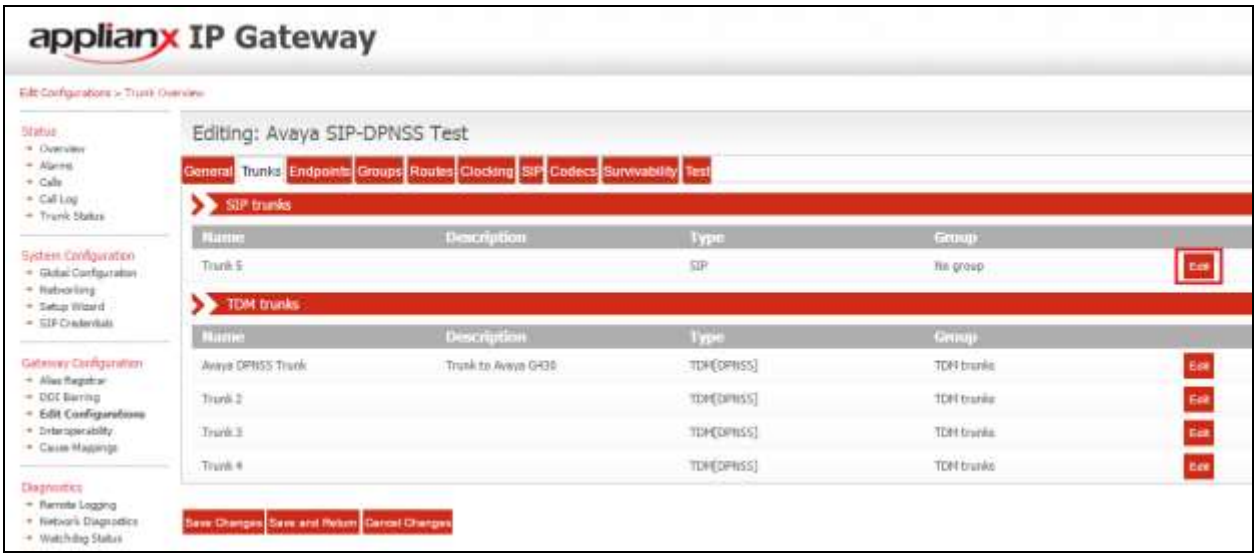
Enter the remaining values and click on the **Apply** button.

After returning to the **Editing** page, click on the **Apply** button.

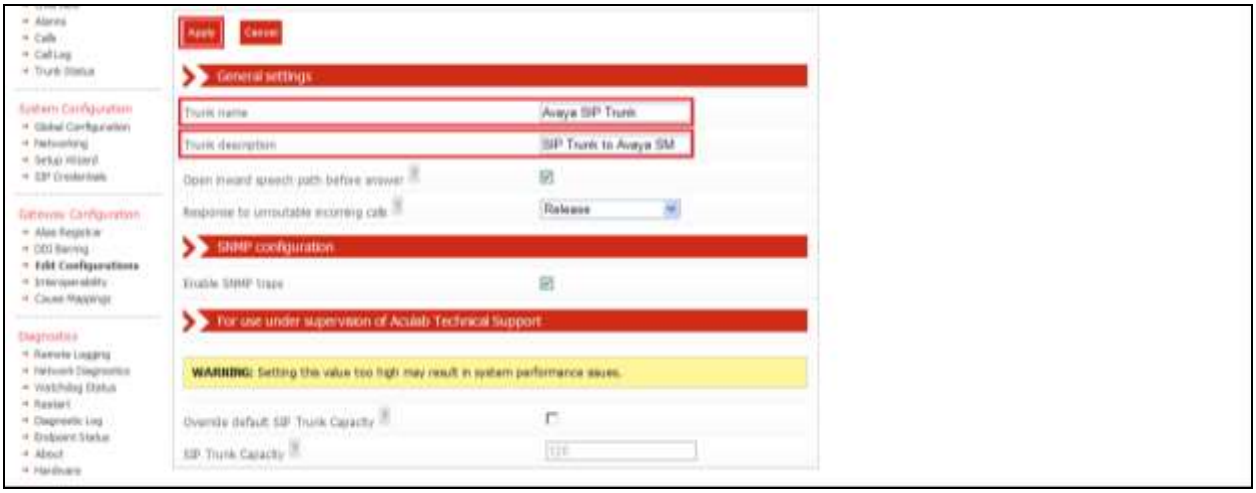


7.4. Configure SIP Trunk

To configure the SIP trunk, click on the **Edit** button.



Enter a descriptive name in the **Trunk Name** field (i.e., Avaya SIP Trunk) and in the **Trunk description** field enter a description (i.e., SIP Trunk to Avaya SM). Configure the remaining fields as shown in the following screen shot. Click on the **Apply** button to save the changes.



7.5. Configure Endpoints

The ApplianX requires information relating to Session Manager so as to communicate with Communication Manager. After clicking on the **Endpoints** tab, click on the icon for **Proxy** as shown in the screen shot below.

Enter a descriptive name in the **Name** field (i.e., Avaya Session Manager) and in the **Description** field enter a description (i.e., Avaya Session Manager Proxy). Configure the following in the remaining fields:

- **Routing Group** Select **Proxy group** from the dropdown box
- **Endpoint address** Enter the IP address of the Session Manager (this is the same IP address as configured in **Section 5.1**
- **UDP port** Enter **5060**
- **TCP port** Enter **5060**

Configure the remaining fields as shown in the following screen shot.

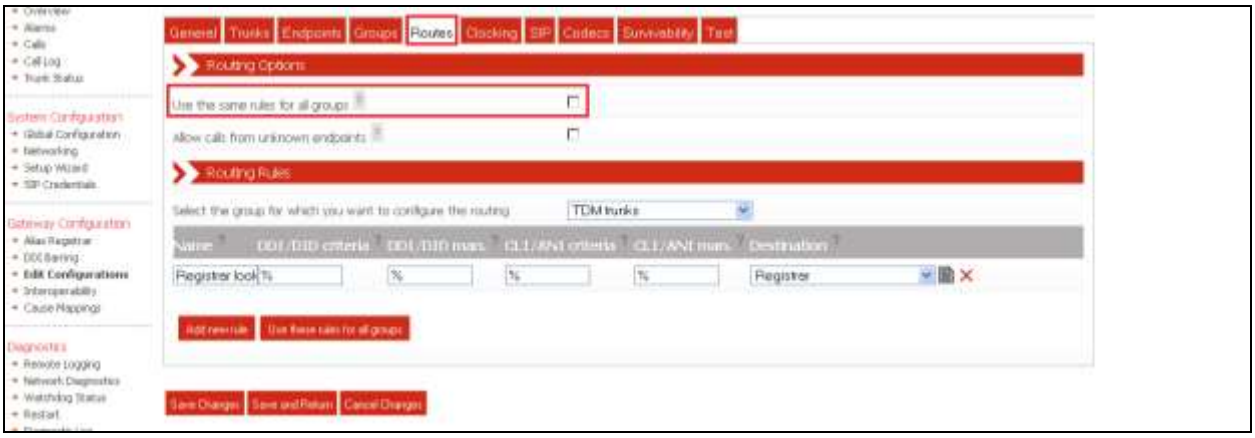
Continuation….
After configuring the remaining fields, click on the **Apply** button on the top of the screen (not shown) to save the changes.

7.6. Configure Groups

During compliance testing no group configuration was required as only one TDM trunk was configured. If multiple TDM trunks are required please refer to the Aculab documentation (see **Section 10**).

7.7. Configure Routes

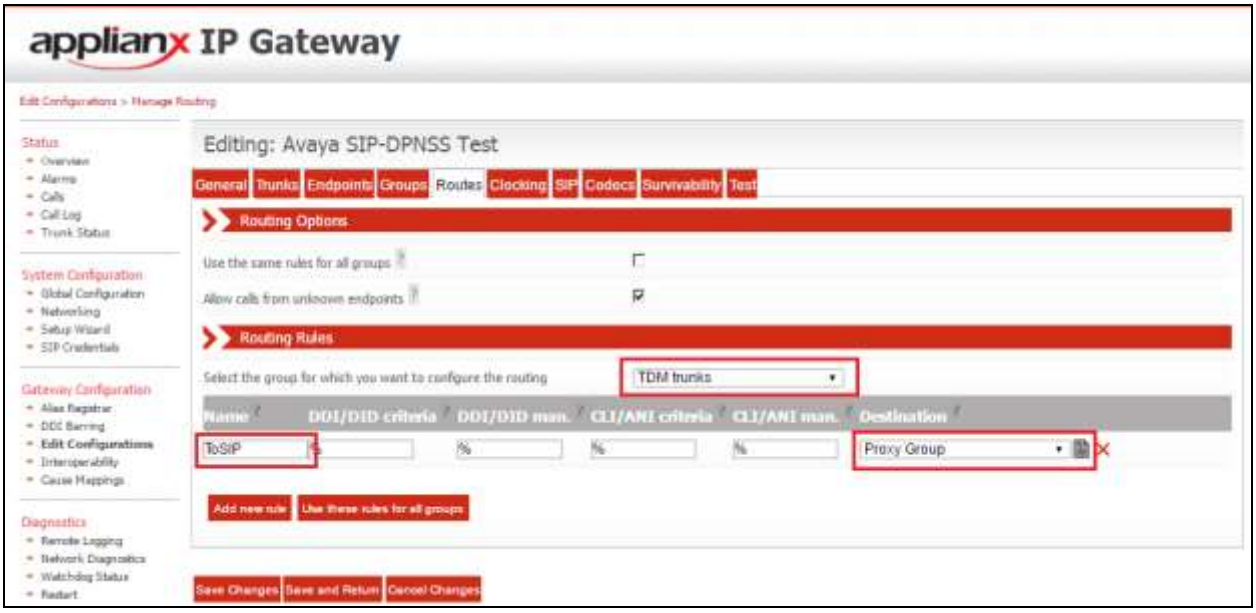
To configure the DPNSS Route, click on the **Routes** tab and uncheck **Use the same rules for all groups**the check box.



7.7.1. Configure DPNSS Route

- Select **TDM trunks** from the **Select the group for which you want to configure the routing** dropdown box
- **Name** Enter a descriptive name (i.e., toSIP)
- **Destination** Select **Proxy group** from the dropdown box

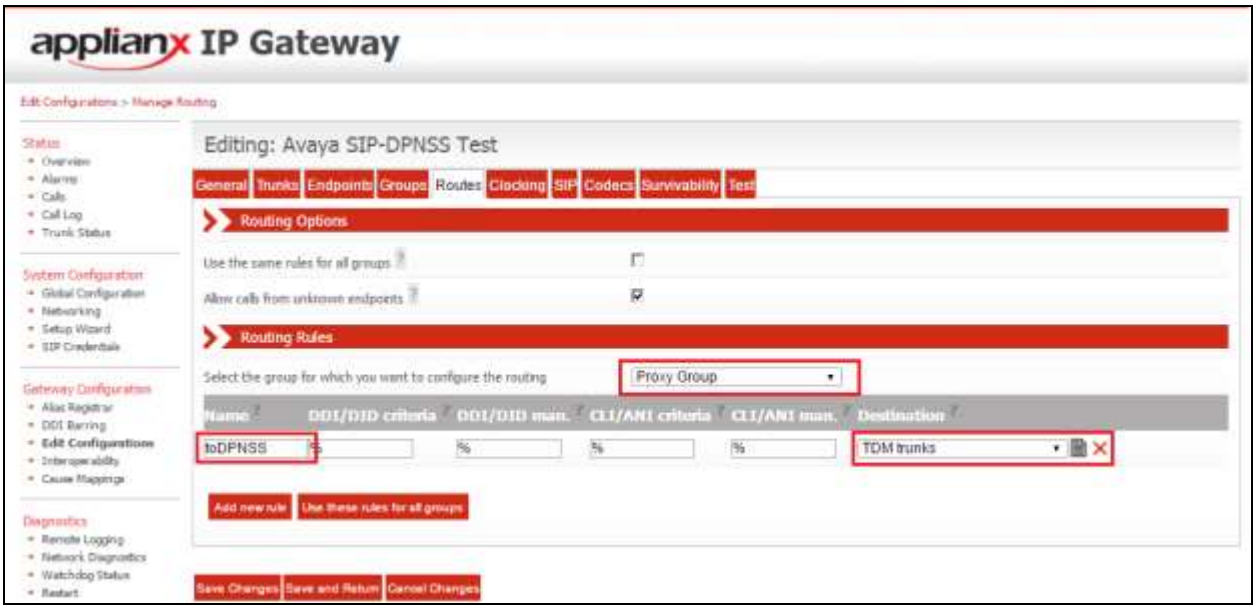
Click on the **Save Changes** button.



7.7.2. Configure SIP Route

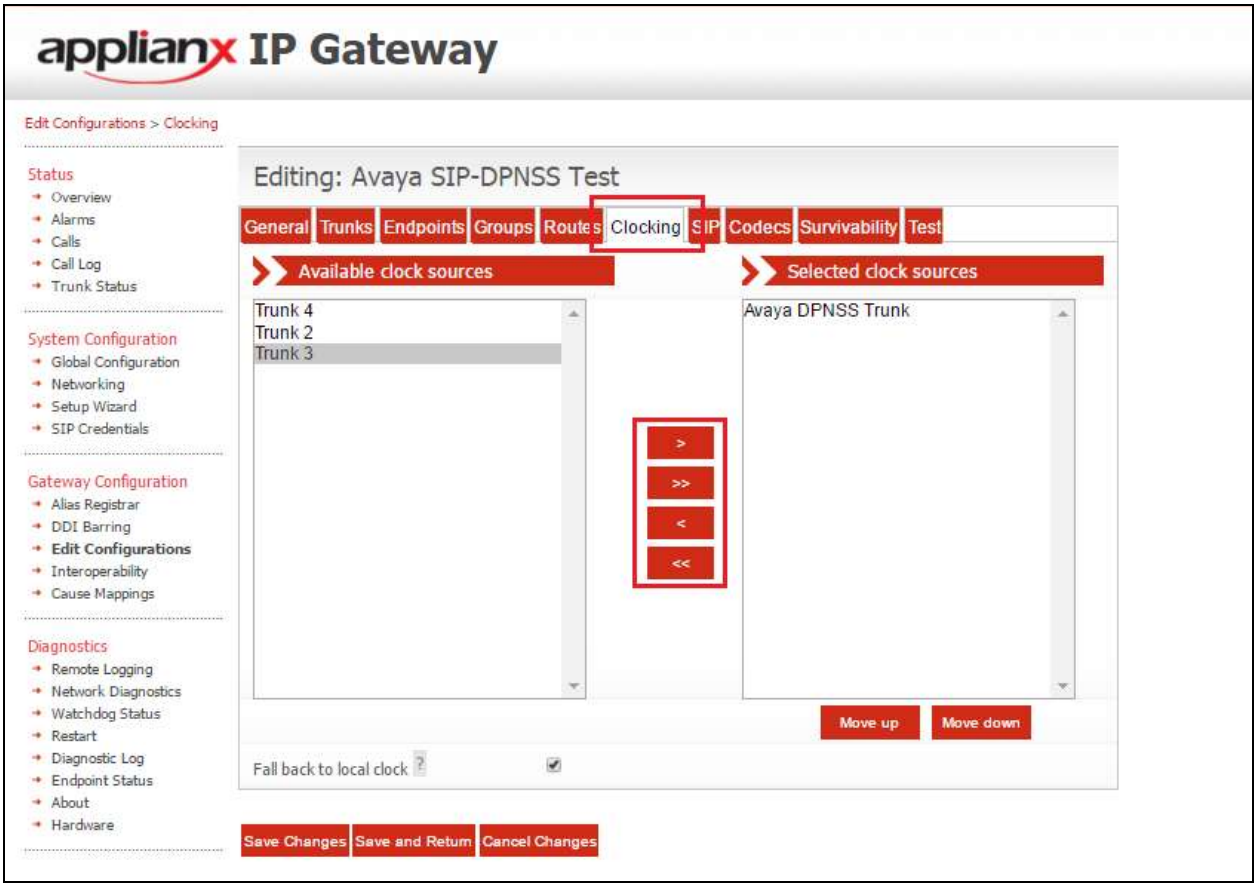
- Select **Proxy group** from the **Select the group for which you want to configure the routing** dropdown box
- Click on the **Add new rule** button
- **Name** Enter a descriptive name (i.e., toDPNSS)
- **Destination** Select **TDM trunks** from the dropdown box

Click on the **Save Changes** button.



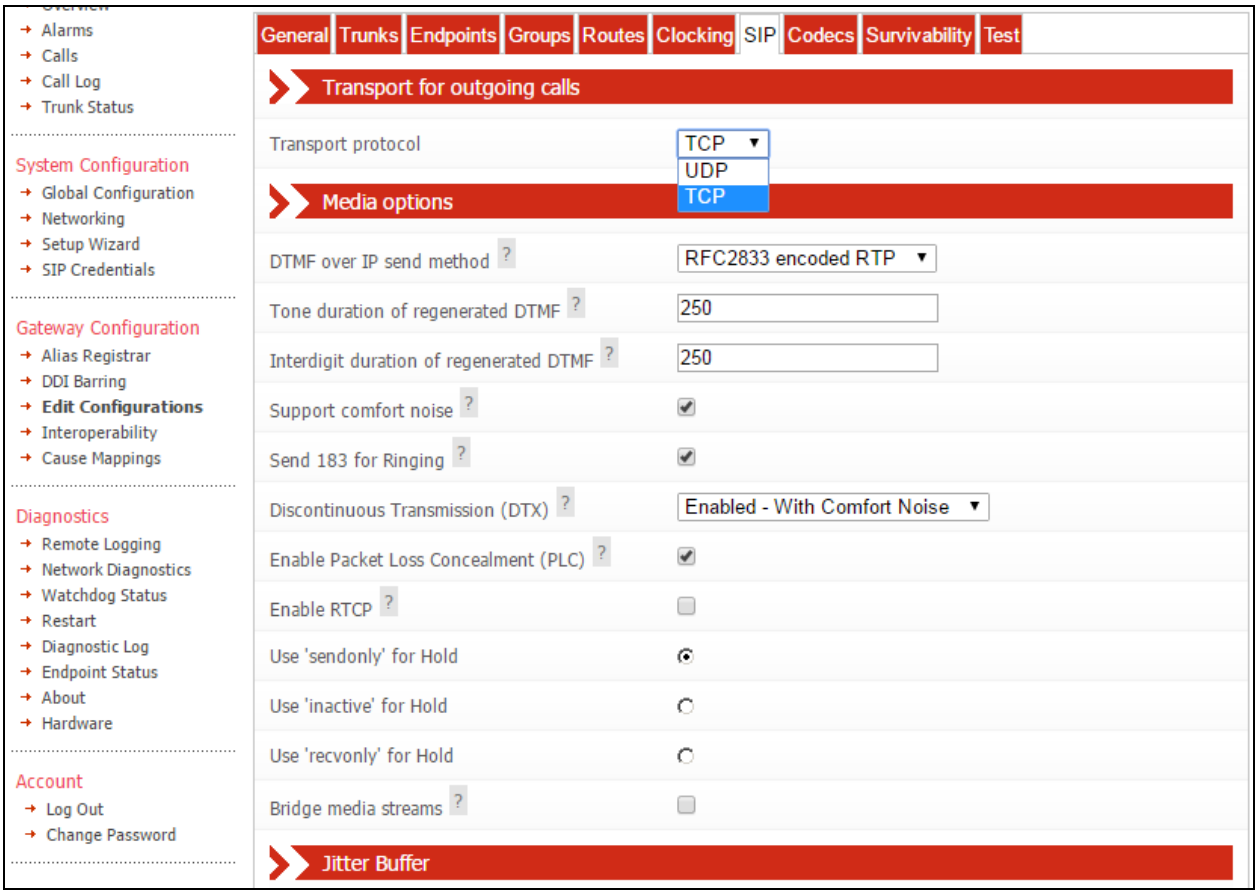
7.8. Configure Clocking

During compliance testing clocking was provided by the Avaya DPNSS trunk. To configure clocking, click on the **Clocking** tab and move the **DPNSS Trunk** to the **Selected clock sources** frame using the arrow buttons. Click on the **Save Changes** button.

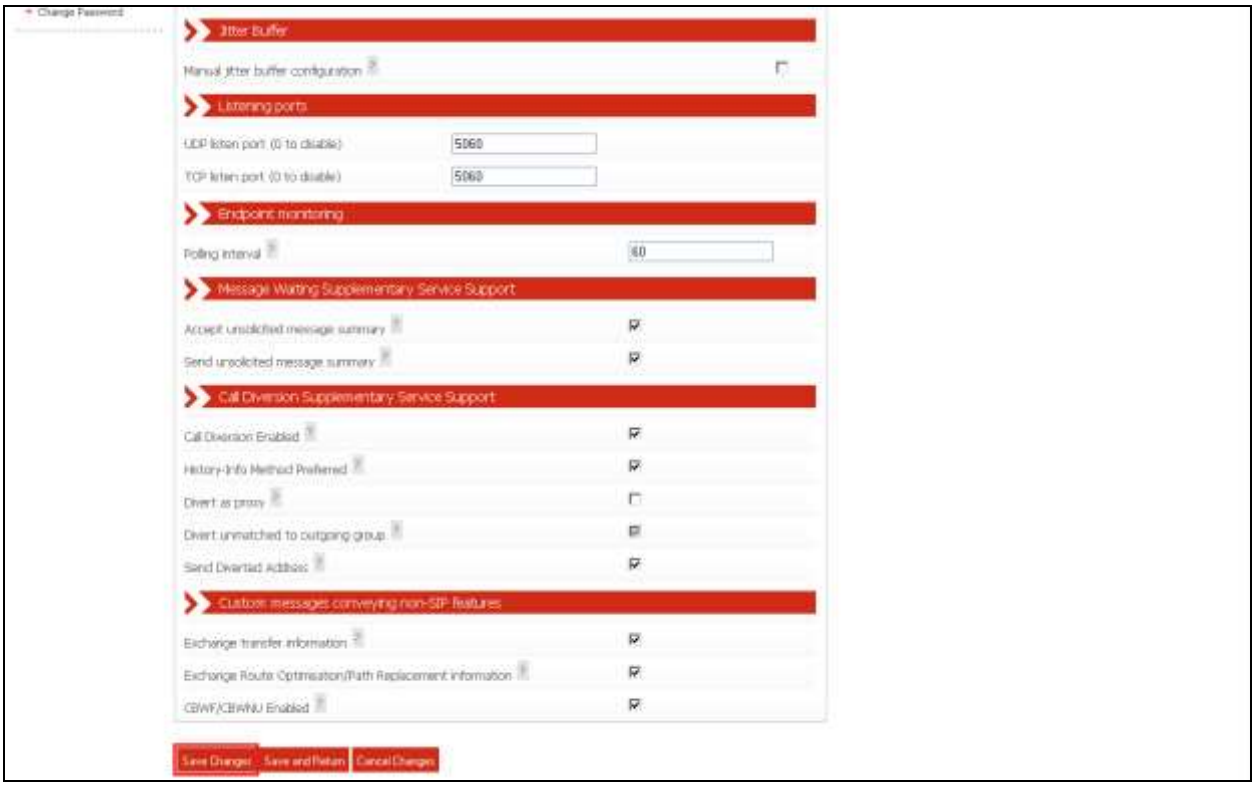


7.9. Configure SIP

To configure the SIP settings click on the **SIP** tab and enter all the information as shown in the screen shot below. **TCP** or **UDP** can be selected as both are supported in this configuration.

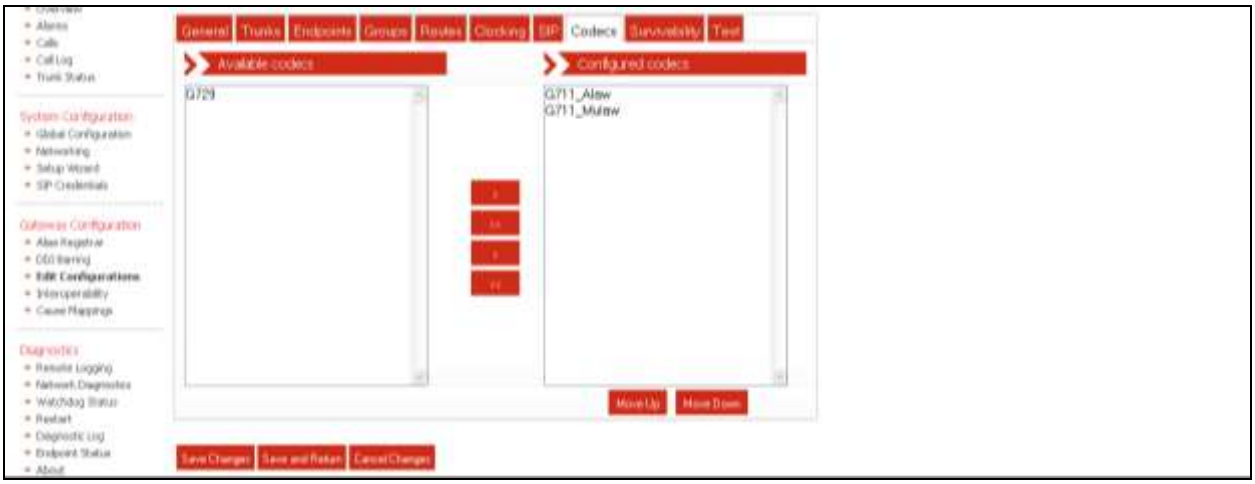


Continuation….
After configuring the remaining fields, click on the **Save Changes** button to save the changes.



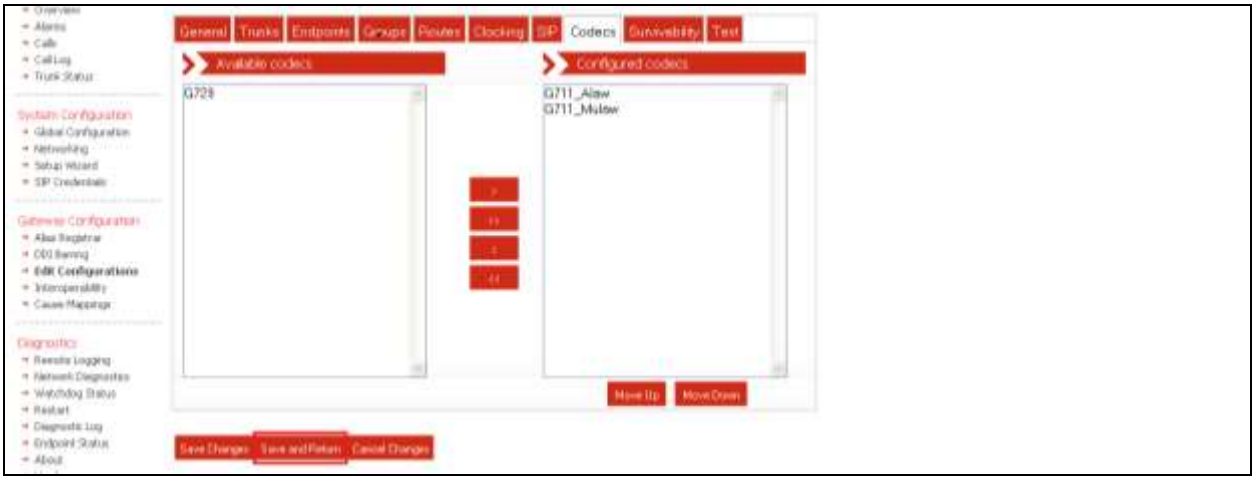
7.10. Configure Codecs

During compliance testing the codec settings were left as default. The screen shot below shows the configured codecs.



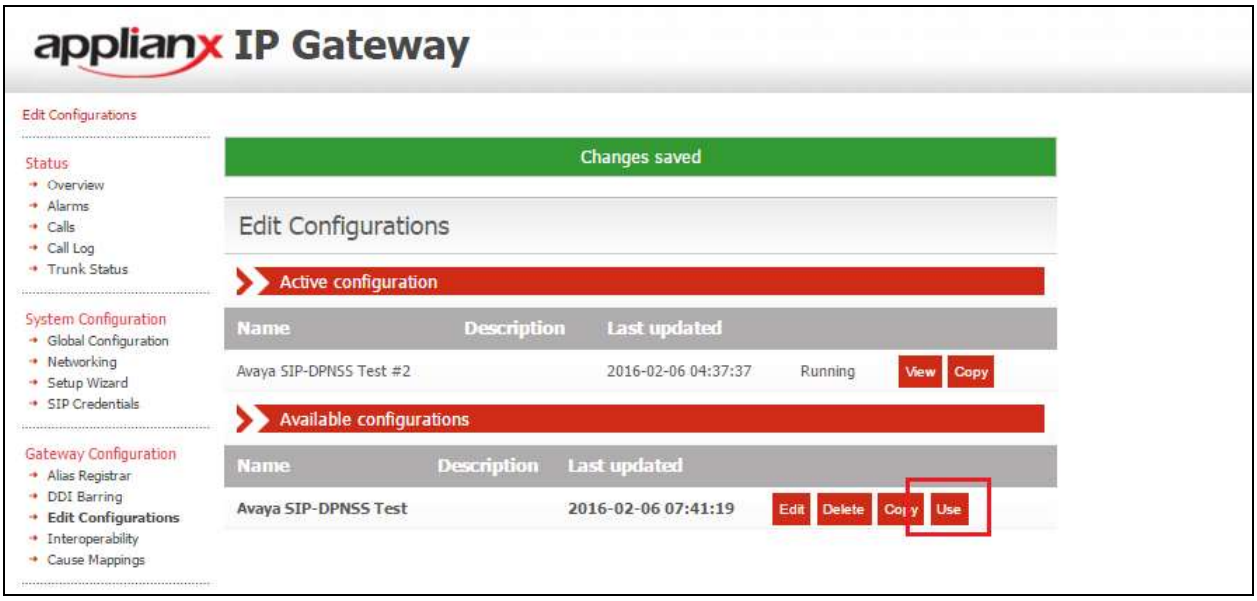
7.11. Save Configuration

Once all the configuration changes have been made, click on the **Save and Return** button.

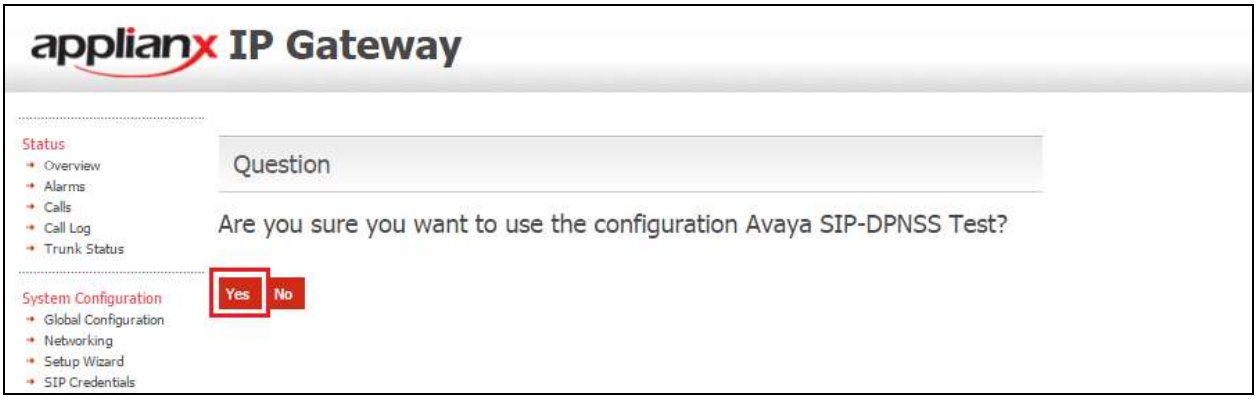


7.12. Use Configuration

Once all the configurations have been made and saved, click on the **Use** button for this configuration (Avaya SIP-DPNSS Test) to apply them to the ApplianX.



Click on the **Yes** button to confirm.



Once the configuration is active, the web page should update to something similar to the screen below.

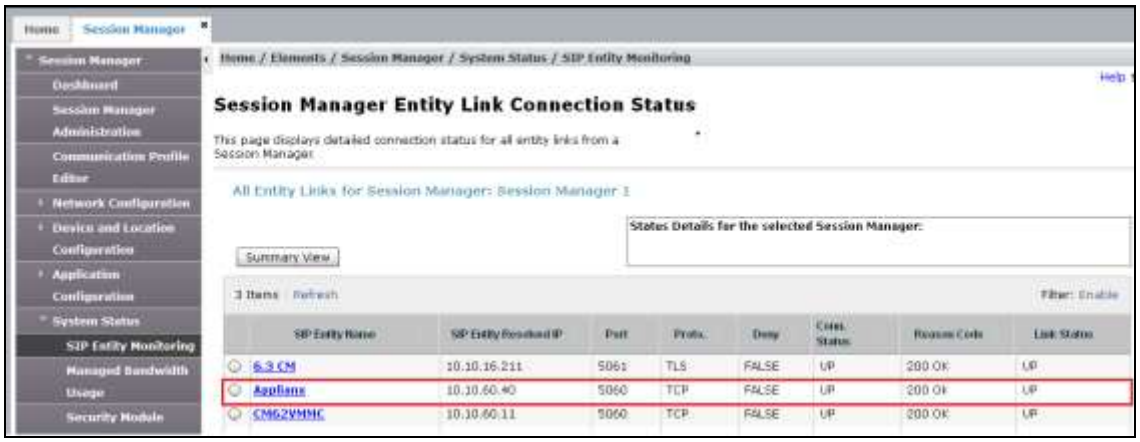
8. Verification Steps

This section provides the tests that can be performed to verify correct configuration of the Avaya and ApplianX solution.

8.1. Verify the SIP Entity Link status for the ApplianX IP Gateway

From System Manager select **Session Manager** from under the **Elements** column (not shown). When the **Session Manager** tab opens select **System Status** followed by **SIP Entity Monitoring**, then click on **Session Manager**.

When the **Session Manager Entity Link Connection Status** window opens, observe the **Conn Status** and **Link Status** and ensure that they are both showing as **up** for the **ApplianX** SIP Entity.



8.2. Verify calls via the ApplianX IP Gateway

1. Make a call to the DPNSS PBX from the CS1000. Ensure the call is connected and there is two-way speech.
2. Make a call to the CS1000 from the DPNSS PBX. Ensure the call is connected and there is two-way speech.

9. Conclusion

These Application Notes describe the configuration steps required for an Aculab ApplianX IP Gateway to enable an Avaya Communication Server 1000E using a SIP trunk to interoperate with a Digital Private Network Signalling trunk. All test cases have passed and met the objectives outlined in **Section 2.2**.

10. Additional References

This section references the Avaya and Aculab documentation that is relevant to these Application Notes.

Product documentation for Avaya products may be found at:
http://support.avaya.com

[1] Software Input Reference Administration Avaya Communication Server 1000, Release 7.6; Document No. NN43001-611_05.02
[2] Administering Avaya Aura® Session Manager, Release 7.0, August 2015
[3] Administering Avaya Aura® System Manager, Release 7.0, August, 2015

Product Documentation for ApplianX IP Gateway can be at the following location:
http://www.aculab.com/documents/

Appendix 1

Sample CS1000 Route for DPNSS Trunk configuration

```
TYPE RDB
CUST 00
ROUT 42
DES  DPNSS
TKTP IDA
NPID_TBL_NUM   0
SIGL DPN
CNVT NO
RCLS EXT
VTRK NO
NODE
DTRK NO
   INAC NO
   SPN  NO
DSEL VOD
CNDP UKWN
AUTO NO
ICOG IAO
SRCH RRB
TRMB YES
STEP
ACOD 42
TARG 01
CLEN 1
BILN NO
INST
TIMR EOD 13952
    RMA 5120
    SRM 32640
    RAS 13952
   NRAG 30
    VSS  0
    VGD  6
DRNG NO
CDR  NO
NATL YES
CFWR NO
IDOP NO
VRAT NO
MUS  NO
PANS YES
```

```
RACD 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
TTBL 0
ACNI NO
PLEV 2
ALRM NO
ART  0
SGRP 0
CCBA NO
ARDN NO
CTBL 0
AACR NO
```

DDSL (D Channel for DPNSS)

```
DDSL 42
S2   1
SIGL DA
DDCS 042
PRIV  YES
SIDE  BNT
MWIF  STD
L2_RST YES
SAT   NO
ALRM TBF 05(S) 00(H) 01
    FAE 02(S) 01(H) 04
    HER 01(M) 01(H) 10
    TSF 00(S) 00(H) 00
    AIS 01(M) 01(H) 04
    LOI 00(S) 00(H) 00
    DAI 01(M) 01(H) 05
CNTR CRT  120
    TMT  50
    SCT  20
    NMT  100
    MPT  2048
    OTH  5
    LDT  32
```

```
DTH  5
```

DPNSS Real Channel

```
DES  DPNSS
TN   042 01  VIRTUAL
TYPE RDC
CUST 0
NCOS 0
RTMB 42 1
PRIO XHP
NITE
TGAR 1
SIGL DPN
AST  NO
IAPG 0
CLS  UNR CND ECD WTA APN THFD SPCD
DDSL 42
AACR NO
DATE NO DATE
```

DPNSS Virtual Channel

```
DES  V_CHAN
TN   042 01  VIRTUAL
TYPE VDC
CUST 0
NCOS 0
RTMB 42 1
PRIO XHP
NITE
TGAR 1
SIGL DPN
AST  NO
IAPG 0
DDSL 42
AACR NO
DATE NO DATE
```

Appendix 2
Sample SIP Information on CS1000

D Channel

```
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 ND2
  MBGA NO
  H323
    OVLR NO
    OVLS NO
```

Route Data Block

```
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 YES
NDGT 4
DDLY NO
DCDR YES
ICOG IAO
SRCH LIN
TRMB YES
STEP
ACOD 8022
TCPP NO
PII NO
AUXP NO
TARG
CLEN 1
BILN NO
OABS
INST
IDC  YES
DCNO 0
NDNO 0 *
DNAM NO
ANTK
SIGO STD
STYP SDAT
MFC  NO
ICIS YES
```

```
PAGE 002

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  YES
INC  YES
LAST YES
QREC YES
OAL  YES
AIA  YES
OAN  YES
```

```
OPD  NO
NDP  EXC 0
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


PAGE 003

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
```

SIP Trunk

```
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
```

Routing to 4xxx

```
RLI  22
ELC  NO
ENTR 0
LTER NO
ROUT 22
TOD  0 ON  1 ON  2 ON  3 ON
     4 ON  5 ON  6 ON  7 ON
VNS  NO
SCNV NO
CNV  NO
EXP  NO
FRL  0
DMI  0
CTBL 0
ISDM 0
FCI  0
FSNI 0
BNE  NO
DORG NO
SBOC NRR
PROU 1
IDBB DBD
IOHQ NO
OHQ  NO
CBQ  NO

ISET 0
NALT 5
MFRL 0
OVLL 0


DSC  4
FLEN 4
DSP  LSC
RRPA NO
RLI  22
CCBA NO
NPA
NXX
```

Appendix 3

CS1000 Patches installed on SIP PBX

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

IN-SERVICE PEPS
PAT# CR #          PATCH REF #    NAME      DATE        FILENAME       SPECINS
0000 wi01199336    ISS1:1OF1      p33410_1  19/04/2016  p33410_1.cpl   NO
0001 wi01088055    ISS1:1OF1      p32607_1  19/04/2016  p32607_1.cpl   NO
0002 wi01098433    ISS1:1OF1      p32736_1  19/04/2016  p32736_1.cpl   NO
0003 wi01199608    ISS1:1OF1      p33414_1  19/04/2016  p33414_1.cpl   NO
0004 wi01146254    ISS1:1OF1      p33127_1  19/04/2016  p33127_1.cpl   NO
0005 wi01075149    ISS1:1OF1      p32475_1  19/04/2016  p32475_1.cpl   NO
0006 wi01070585    ISS1:1OF1      p32383_1  19/04/2016  p32383_1.cpl   NO
0007 wi01128512    ISS1:1OF1      p32997_1  19/04/2016  p32997_1.cpl   NO
0008 wi01098783    ISS1:1OF1      p32748_1  19/04/2016  p32748_1.cpl   NO
0009 wi01133960    ISS1:1OF1      p33034_1  19/04/2016  p33034_1.cpl   NO
0010 wi01137694    ISS1:1OF1      p33081_1  19/04/2016  p33081_1.cpl   NO
0011 wi01068011    ISS1:1OF1      p33182_1  19/04/2016  p33182_1.cpl   NO
0012 wi01153896    ISS1:1OF1      p33185_1  19/04/2016  p33185_1.cpl   NO
0013 wi01115369    ISS1:1OF1      p32889_1  19/04/2016  p32889_1.cpl   NO
0014 wi01171418    ISS1:1OF1      p33278_1  19/04/2016  p33278_1.cpl   NO
0015 wi01122174    ISS1:1OF1      p32936_1  19/04/2016  p32936_1.cpl   NO
0016 wi01201882    ISS1:1OF1      p33427_1  19/04/2016  p33427_1.cpl   NO
0017 wi01079444    ISS1:1OF1      p32564_1  19/04/2016  p32564_1.cpl   NO
0018 wi01089519    ISS1:1OF1      p32665_1  19/04/2016  p32665_1.cpl   NO
0019 wi01065248    ISS1:1OF1      p32412_1  19/04/2016  p32412_1.cpl   NO
0020 wi01052968    ISS1:1OF1      p32540_1  19/04/2016  p32540_1.cpl   NO
0021 wi01144609    ISS1:1OF1      p33119_1  19/04/2016  p33119_1.cpl   NO
0022 wi01132244    ISS1:1OF1      p33041_1  19/04/2016  p33041_1.cpl   NO
0023 wi01045058    ISS1:1OF1      p32214_1  19/04/2016  p32214_1.cpl   NO
0024 wi01053920    ISS1:1OF1      p32303_1  19/04/2016  p32303_1.cpl   NO
0025 wi01169714    ISS1:1OF1      p33335_1  19/04/2016  p33335_1.cpl   NO
0026 wi01151870    ISS1:1OF1      p33162_1  19/04/2016  p33162_1.cpl   YES
0027 wi01099300    iss1:1of1      p32704_1  19/04/2016  p32704_1.cpl   NO
0028 wi01171467    ISS1:1OF1      p33270_1  19/04/2016  p33270_1.cpl   NO
0029 wi01207693    ISS1:1OF1      p33452_1  19/04/2016  p33452_1.cpl   NO
0030 wi01120705    ISS1:1OF1      p32930_1  19/04/2016  p32930_1.cpl   NO
0031 wi00959458    ISS1:1OF1      p31551_1  19/04/2016  p31551_1.cpl   NO
0032 wi01197054    ISS1:1OF1      p33397_1  19/04/2016  p33397_1.cpl   NO
0033 wi01065118    ISS1:1OF1      p32397_1  19/04/2016  p32397_1.cpl   NO
0034 wi01181174    ISS1:1OF1      p33316_1  19/04/2016  p33316_1.cpl   NO
```

0035	wi01053597	ISS1:1OF1	p32304_1	19/04/2016	p32304_1.cpl	NO
0036	wi01071996	ISS1:1OF1	p32461_1	19/04/2016	p32461_1.cpl	NO
0037	wi01127527	ISS1:1OF1	p32988_1	19/04/2016	p32988_1.cpl	YES
0038	wi01008182	ISS1:1OF1	p33277_1	19/04/2016	p33277_1.cpl	NO
0039	wi01096842	ISS1:1OF1	p32731_1	19/04/2016	p32731_1.cpl	NO
0040	wi01068922	ISS1:1OF1	p32454_1	19/04/2016	p32454_1.cpl	NO
0041	wi01182880	ISS1:1OF1	p33328_1	19/04/2016	p33328_1.cpl	NO
0042	wi01138136	ISS1:1OF1	p33191_1	19/04/2016	p33191_1.cpl	NO
0043	CS1000-6738	ISS1:1OF1	p33495_1	19/04/2016	p33495_1.cpl	NO
0044	wi01156086	ISS1:1OF1	p33269_1	19/04/2016	p33269_1.cpl	NO
0045	wi01045144	ISS1:1OF1	p33202_1	19/04/2016	p33202_1.cpl	NO
0046	wi01120458	ISS1:1OF1	p32929_1	19/04/2016	p32929_1.cpl	NO
0047	wi01078721	ISS1:1OF1	p32553_1	19/04/2016	p32553_1.cpl	NO
0048	wi01113374	ISS1:1OF1	p32874_1	19/04/2016	p32874_1.cpl	NO
0049	wi01059388	iss1:1of1	p32628_1	19/04/2016	p32628_1.cpl	NO
0050	wi01065922	ISS1:1OF1	p32516_1	19/04/2016	p32516_1.cpl	NO
0051	wi01205975	ISS1:1OF1	p33447_1	19/04/2016	p33447_1.cpl	NO
0052	wi01142100	ISS1:1OF1	p33090_1	19/04/2016	p33090_1.cpl	NO
0053	wi01153039	ISS1:1OF1	p17588_1	19/04/2016	p17588_1.cpl	NO
0054	WI01077073	ISS1:1OF1	p32534_1	19/04/2016	p32534_1.cpl	NO
0055	wi01215810	ISS1:1OF1	p33494_1	19/04/2016	p33494_1.cpl	NO
0056	wi01066991	ISS1:1OF1	p32449_1	19/04/2016	p32449_1.cpl	NO
0057	wi01106658	ISS1:1OF1	p32812_1	19/04/2016	p32812_1.cpl	NO
0058	wi01068851	ISS1:1OF1	p32439_1	19/04/2016	p32439_1.cpl	NO
0059	wi01053314	ISS1:1OF1	p32555_1	19/04/2016	p32555_1.cpl	NO
0060	wi01123389	ISS1:1OF1	p33045_1	19/04/2016	p33045_1.cpl	NO
0061	wi01087528	ISS1:1OF1	p32700_1	19/04/2016	p32700_1.cpl	NO
0062	wi01165881	ISS1:1OF1	p33239_1	19/04/2016	p33239_1.cpl	NO
0063	wi01065125	ISS1:1OF1	p32416_1	19/04/2016	p32416_1.cpl	NO
0064	wi01119086	ISS1:1OF1	p32917_1	19/04/2016	p32917_1.cpl	NO
0065	wi01109251	ISS1:1OF1	p32827_1	19/04/2016	p32827_1.cpl	NO
0066	wi01173768	ISS1:1OF1	p33288_1	19/04/2016	p33288_1.cpl	NO
0067	wi01180594	ISS1:1OF1	p33312_1	19/04/2016	p33312_1.cpl	NO
0068	wi01126552	ISS1:1OF1	p32975_1	19/04/2016	p32975_1.cpl	NO
0069	CS1000-6979	ISS1:1OF1	p33548_1	19/04/2016	p33548_1.cpl	NO
0070	wi01204623	ISS1:1OF1	p33444_1	19/04/2016	p33444_1.cpl	NO
0071	wi01099724	ISS1:1OF1	p32742_1	19/04/2016	p32742_1.cpl	YES
0072	wi01118819	ISS1:1OF1	p32954_1	19/04/2016	p32954_1.cpl	NO
0073	wi01094305	ISS1:1OF1	p32640_1	19/04/2016	p32640_1.cpl	NO
0074	wi01188722	ISS1:1OF1	p33365_1	19/04/2016	p33365_1.cpl	NO
0075	wi01134602	ISS1:1OF1	p32398_1	19/04/2016	p32398_1.cpl	NO
0076	wi01101876	ISS1:1OF1	p32858_1	19/04/2016	p32858_1.cpl	NO
0077	wi01142792	ISS1:1OF1	p33099_1	19/04/2016	p33099_1.cpl	NO
0078	CS1000-6911	ISS1:1OF1	p33518_1	19/04/2016	p33518_1.cpl	NO
0079	CS1000-6789	ISS1:1OF1	p33508_1	19/04/2016	p33508_1.cpl	NO
0080	wi01164281	ISS1:1OF1	p33232_1	19/04/2016	p33232_1.cpl	NO

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0082 wi01149017     ISS1:1OF1      p33145_1  19/04/2016  p33145_1.cpl   NO
0083 wi01186846     ISS1:1OF1      p33332_1  19/04/2016  p33332_1.cpl   NO
0084 wi01188972     ISS1:1OF1      p33352_1  19/04/2016  p33352_1.cpl   NO
0085 wi01088915     ISS1:1OF1      p32638_1  19/04/2016  p32638_1.cpl   NO
0086 wi01107601     ISS1:1OF1      p32970_1  19/04/2016  p32970_1.cpl   NO
0087 wi01111194     ISS1:1OF1      p32821_1  19/04/2016  p32821_1.cpl   NO
0088 wi01189247     ISS1:1OF1      p33382_1  19/04/2016  p33382_1.cpl   YES
0089 wi01099606     iss1:1of1      p32713_1  19/04/2016  p32713_1.cpl   NO
0090 wi01088775     ISS1:1OF1      p32659_1  19/04/2016  p32659_1.cpl   NO
0091 wi01148697     ISS1:1OF1      p33187_1  19/04/2016  p33187_1.cpl   NO
0092 wi01130348     ISS1:1OF1      p33014_1  19/04/2016  p33014_1.cpl   NO
0093 CS1000-6844    ISS1:1OF1      p33507_1  19/04/2016  p33507_1.cpl   NO
0094 wi01134756     ISS1:1OF1      p33453_1  19/04/2016  p33453_1.cpl   NO
0095 wi01184588     ISS1:1OF1      p33338_1  19/04/2016  p33338_1.cpl   NO
0096 wi01147091     ISS1:1OF1      p33137_1  19/04/2016  p33137_1.cpl   NO
0097 CS1000-6745    ISS1:1OF1      p33492_1  19/04/2016  p33492_1.cpl   YES
0098 wi01087543     ISS1:1OF1      p32662_1  19/04/2016  p32662_1.cpl   NO
0099 wi01166011     ISS1:1OF1      p33235_1  19/04/2016  p33235_1.cpl   NO
0100 wi01035976     ISS1:1OF1      p32173_1  19/04/2016  p32173_1.cpl   NO
0101 wi01146804     ISS1:1OF1      p33132_1  19/04/2016  p33132_1.cpl   NO
0102 wi01153104     ISS1:1OF1      p33174_1  19/04/2016  p33174_1.cpl   NO
0103 wi01092443     ISS1:1OF1      p32676_1  19/04/2016  p32676_1.cpl   NO
0104 wi01136429     ISS1:1OF1      p33037_1  19/04/2016  p33037_1.cpl   NO
0105 wi01113712     ISS1:1OF1      p32877_1  19/04/2016  p32877_1.cpl   NO
0106 wi01150846     ISS1:1OF1      p33157_1  19/04/2016  p33157_1.cpl   NO
0107 CS1000-6956    ISS1:1OF1      p33538_1  19/04/2016  p33538_1.cpl   NO
0108 wi01153844     ISS1:1OF1      p33172_1  19/04/2016  p33172_1.cpl   NO
0109 wi01093071     ISS1:1OF1      p32701_1  19/04/2016  p32701_1.cpl   NO
0110 wi01182050     ISS1:1OF1      p33322_1  19/04/2016  p33322_1.cpl   NO
0111 wi01190506     ISS1:1OF1      p33361_1  19/04/2016  p33361_1.cpl   NO
0112 wi01118714     ISS2:1OF1      p32952_2  19/04/2016  p32952_2.cpl   NO
0113 wi01075538     ISS1:1OF1      p32469_1  19/04/2016  p32469_1.cpl   NO
0114 wi01091447     ISS1:1OF1      p32675_1  19/04/2016  p32675_1.cpl   NO
0115 wi01159931     ISS1:1OF1      p33231_1  19/04/2016  p33231_1.cpl   YES
0116 WI01108562     ISS1:1OF1      p32832_1  19/04/2016  p32832_1.cpl   NO
0117 wi01099810     ISS1:1OF1      p32796_1  19/04/2016  p32796_1.cpl   NO
0118 wi01200095     ISS1:1OF1      p33418_1  19/04/2016  p33418_1.cpl   NO
0119 wi01128596     ISS1:1OF1      p33000_1  19/04/2016  p33000_1.cpl   NO
0120 wi01185642     ISS1:1OF1      p33342_1  19/04/2016  p33342_1.cpl   NO
0121 wi01193201     ISS1:1OF1      p33381_1  19/04/2016  p33381_1.cpl   YES
0122 cs1000-6998    ISS1:1OF1      p33555_1  19/04/2016  p33555_1.cpl   NO
0123 CS1000-6791    ISS1:1OF1      p33501_1  19/04/2016  p33501_1.cpl   YES
0124 wi01191767     ISS1:1OF1      p33368_1  19/04/2016  p33368_1.cpl   NO
0125 wi01144354     ISS1:1OF1      p33117_1  19/04/2016  p33117_1.cpl   NO
0126 wi01121374     ISS1:1OF1      p31107_1  19/04/2016  p31107_1.cpl   NO
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0129 wi01100508     ISS1:1OF1      p32761_1  19/04/2016  p32761_1.cpl   NO
0130 wi01189516     ISS1:1OF1      p33373_1  19/04/2016  p33373_1.cpl   NO
0131 wi01101969     ISS1:1OF1      p32726_1  19/04/2016  p32726_1.cpl   NO
0132 wi01102296     ISS1:1OF1      p32780_1  19/04/2016  p32780_1.cpl   NO
0133 wi01136640     ISS1:1OF1      p33052_1  19/04/2016  p33052_1.cpl   NO
0134 wi01097598     ISS1:1OF1      p32797_1  19/04/2016  p32797_1.cpl   NO
0135 wi01132215     ISS1:1OF1      p33084_1  19/04/2016  p33084_1.cpl   NO
0136 wi01094832     iss1:1of1      p32718_1  19/04/2016  p32718_1.cpl   NO
0137 wi01197246     ISS1:1OF1      p33400_1  19/04/2016  p33400_1.cpl   NO
0138 CS1000-6872    ISS1:1OF1      p33520_1  19/04/2016  p33520_1.cpl   NO
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0140 wi01060826     ISS1:1OF1      p32379_1  19/04/2016  p32379_1.cpl   NO
0141 wi01077639     ISS1:1OF1      p32883_1  19/04/2016  p32883_1.cpl   NO
0142 wi01085855     ISS1:1OF1      p32658_1  19/04/2016  p32658_1.cpl   NO
0143 wi01053195     ISS1:1OF1      p32297_1  19/04/2016  p32297_1.cpl   NO
0144 wi01174116     ISS1:1OF1      p33287_1  19/04/2016  p33287_1.cpl   NO
0145 wi01095255     ISS1:1OF1      p33027_1  19/04/2016  p33027_1.cpl   NO
0146 wi01203516     ISS1:1OF1      p33438_1  19/04/2016  p33438_1.cpl   NO
0147 wi01094727     ISS1:1OF1      p32848_1  19/04/2016  p32848_1.cpl   NO
0148 wi01151898     ISS1:1OF1      p33175_1  19/04/2016  p33175_1.cpl   NO
0149 wi01173798     ISS1:1OF1      p33285_1  19/04/2016  p33285_1.cpl   NO
0150 wi01080753     ISS1:1OF1      p32518_1  19/04/2016  p32518_1.cpl   NO
0151 wi01125238     ISS1:1OF1      p32971_1  19/04/2016  p32971_1.cpl   NO
0152 wi01110593     ISS1:1OF1      p32849_1  19/04/2016  p32849_1.cpl   NO
0153 wi01119100     ISS1:1OF1      p32925_1  19/04/2016  p32925_1.cpl   NO
0154 CS1000-6978    ISS1:1OF1      p33551_1  19/04/2016  p33551_1.cpl   YES
0155 wi01156999     ISS1:1OF1      p33180_1  19/04/2016  p33180_1.cpl   NO
0156 wi01141625     ISS1:1OF1      p33324_1  19/04/2016  p33324_1.cpl   NO
0157 wi01102093     ISS1:1OF1      p32760_1  19/04/2016  p32760_1.cpl   NO
0158 wi01132883     ISS1:1OF1      p33030_1  19/04/2016  p33030_1.cpl   NO
0159 wi01070279     ISS1:1OF1      p32262_1  19/04/2016  p32262_1.cpl   NO
0160 wi01102475     ISS1:1OF1      p32782_1  19/04/2016  p32782_1.cpl   YES
0161 cs1000-6924    ISS1:1OF1      p33523_1  19/04/2016  p33523_1.cpl   NO
0162 wi01181423     ISS1:1OF1      p33318_1  19/04/2016  p33318_1.cpl   NO
0163 wi01150083     ISS1:1OF1      p33152_1  19/04/2016  p33152_1.cpl   NO
0164 wi01181854     ISS1:1OF1      p33323_1  19/04/2016  p33323_1.cpl   NO
0165 wi00897254     ISS1:1OF1      p31127_1  19/04/2016  p31127_1.cpl   NO
0166 wi01083036     ISS1:1OF1      p32571_1  19/04/2016  p32571_1.cpl   NO
0167 wi01070468     iss1:1of1      p32418_1  19/04/2016  p32418_1.cpl   NO
0168 wi01181197     ISS1:1OF1      p33317_1  19/04/2016  p33317_1.cpl   NO
0169 wi01063864     ISS1:1OF1      p32410_1  19/04/2016  p32410_1.cpl   YES
0170 wi01075355     ISS1:1OF1      p32594_1  19/04/2016  p32594_1.cpl   NO
0171 wi01127447     ISS1:1OF1      p32990_1  19/04/2016  p32990_1.cpl   NO
0172 wi01133106     ISS1:1OF1      p33032_1  19/04/2016  p33032_1.cpl   NO
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0175	wi01167427	ISS1:1OF1	p33264_1	19/04/2016	p33264_1.cpl	NO
0176	wi01075540	ISS1:1OF1	p32492_1	19/04/2016	p32492_1.cpl	NO
0177	wi01072027	ISS1:1OF1	p32689_1	19/04/2016	p32689_1.cpl	NO
0178	wi01114038	ISS1:1OF1	p32869_1	19/04/2016	p32869_1.cpl	NO
0179	CS1000-6933	ISS1:1OF1	p33529_1	19/04/2016	p33529_1.cpl	NO
0180	wi01212527	ISS1:1OF1	p33481_1	19/04/2016	p33481_1.cpl	YES
0181	wi01181578	ISS1:1OF1	p33321_1	19/04/2016	p33321_1.cpl	NO
0182	wi01092300	ISS1:1OF1	p32692_1	19/04/2016	p32692_1.cpl	NO
0183	wi01063263	ISS1:1OF1	p32573_1	19/04/2016	p32573_1.cpl	NO
0184	wi01102091	ISS1:1OF1	p32744_1	19/04/2016	p32744_1.cpl	YES
0185	wi01104473	ISS1:1OF1	p32818_1	19/04/2016	p32818_1.cpl	NO
0186	wi01053950	ISS1:1OF1	p32654_1	19/04/2016	p32654_1.cpl	YES
0187	wi01139981	ISS1:1OF1	p33083_1	19/04/2016	p33083_1.cpl	NO
0188	wi01058378	ISS1:1OF1	p32344_1	19/04/2016	p32344_1.cpl	NO
0189	wi01070580	ISS1:1OF1	p32380_1	19/04/2016	p32380_1.cpl	NO
0190	wi01187059	ISS1:1OF1	p33346_1	19/04/2016	p33346_1.cpl	NO
0191	wi01043367	ISS1:1OF1	p32232_1	19/04/2016	p32232_1.cpl	NO
0192	wi01145002	ISS1:1OF1	p33186_1	19/04/2016	p33186_1.cpl	NO
0193	wi01175294	ISS1:1OF1	p33290_1	19/04/2016	p33290_1.cpl	NO
0194	wi01041453	ISS1:1OF1	p32587_1	19/04/2016	p32587_1.cpl	NO
0195	wi01185441	ISS1:1OF1	p33341_1	19/04/2016	p33341_1.cpl	NO
0196	wi01130815	ISS1:1OF1	p33017_1	19/04/2016	p33017_1.cpl	NO
0197	wi01214452	ISS1:1OF1	p33488_1	19/04/2016	p33488_1.cpl	NO
0198	wi01089807	ISS1:1OF1	p32957_1	19/04/2016	p32957_1.cpl	NO
0199	CS1000-6873	ISS1:1OF1	p33524_1	19/04/2016	p33524_1.cpl	NO
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0203	wi01208580	ISS1:1OF1	p33461_1	19/04/2016	p33461_1.cpl	NO
0204	wi01083896	ISS1:1OF1	p32937_1	19/04/2016	p32937_1.cpl	NO
0205	wi01210497	ISS1:1OF1	p33468_1	19/04/2016	p33468_1.cpl	YES
0206	wi01178476	ISS1:1OF1	p33305_1	19/04/2016	p33305_1.cpl	NO
0207	wi01039280	ISS1:1OF1	p32423_1	19/04/2016	p32423_1.cpl	NO
0208	wi01081510	ISS1:1OF1	p32582_1	19/04/2016	p32582_1.cpl	NO
0209	wi01088797	ISS1:1OF1	p32844_1	19/04/2016	p32844_1.cpl	NO
0210	wi01098905	ISS1:1OF1	p32556_1	19/04/2016	p32556_1.cpl	NO
0211	wi01146766	ISS1:1OF1	p33131_1	19/04/2016	p33131_1.cpl	NO
0212	wi00937672	ISS1:1OF1	p31276_1	19/04/2016	p31276_1.cpl	NO
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0216	wi01112655	ISS1:1OF1	p32870_1	19/04/2016	p32870_1.cpl	NO
0217	wi01195807	ISS1:1OF1	p33470_1	19/04/2016	p33470_1.cpl	NO
0218	wi01201045	ISS1:1OF1	p33424_1	19/04/2016	p33424_1.cpl	YES

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0222 wi01127138     ISS1:1OF1     p33304_1  19/04/2016  p33304_1.cpl   NO
0223 wi01070756     ISS1:1OF1     p32444_1  19/04/2016  p32444_1.cpl   NO
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0225 wi01056633     ISS1:1OF1     p32322_1  19/04/2016  p32322_1.cpl   NO
0226 wi01060241     ISS1:1OF1     p32381_1  19/04/2016  p32381_1.cpl   NO
0227 wi01134952     ISS1:1OF1     p33039_1  19/04/2016  p33039_1.cpl   NO
0228 wi01132902     ISS1:1OF1     p33028_1  19/04/2016  p33028_1.cpl   NO
0229 wi01201986     ISS1:1OF1     p33433_1  19/04/2016  p33433_1.cpl   NO
0230 wi01071379     ISS1:1OF1     p32522_1  19/04/2016  p32522_1.cpl   NO
0231 cs1000-6845    ISS1:1OF1     p33509_1  19/04/2016  p33509_1.cpl   NO
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0233 WI11032038     ISS1:1OF1     p33022_1  19/04/2016  p33022_1.cpl   NO
0234 wi01089355     ISS1:1OF1     p32674_1  19/04/2016  p32674_1.cpl   YES
0235 wi01134354     ISS1:1OF1     p33031_1  19/04/2016  p33031_1.cpl   NO
0236 CS1000-6946    ISS1:1OF1     p33543_1  19/04/2016  p33543_1.cpl   NO
0237 wi01096910     ISS1:1OF1     p32734_1  19/04/2016  p32734_1.cpl   NO
0238 wi01076948     ISS1:1OF1     p32526_1  19/04/2016  p32526_1.cpl   YES
0239 wi01093118     ISS1:1OF1     p32496_1  19/04/2016  p32496_1.cpl   NO
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0241 wi01198794     ISS1:1OF1     p33408_1  19/04/2016  p33408_1.cpl   NO
0242 wi01160967     ISS1:1OF1     p33213_1  19/04/2016  p33213_1.cpl   NO
0243 wi01104867     ISS1:1OF1     p32828_1  19/04/2016  p32828_1.cpl   NO
0244 wi01154485     ISS1:1OF1     p33194_1  19/04/2016  p33194_1.cpl   NO
0245 wi01146705     ISS1:1OF1     p33129_1  19/04/2016  p33129_1.cpl   NO
0246 wi01096712     ISS1:1OF1     p32708_1  19/04/2016  p32708_1.cpl   NO
0247 wi01061481     ISS1:1OF1     p32382_1  19/04/2016  p32382_1.cpl   NO
0248 wi01070465     iss1:1of1     p32562_1  19/04/2016  p32562_1.cpl   NO
0249 wi01201395     ISS1:1OF1     p33426_1  19/04/2016  p33426_1.cpl   NO
0250 wi01187443     ISS1:1OF1     p33359_1  19/04/2016  p33359_1.cpl   NO
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0253 wi01135146     ISS1:1OF1     p33033_1  19/04/2016  p33033_1.cpl   NO
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0259 wi01115894     ISS1:1OF1     p32910_1  19/04/2016  p32910_1.cpl   NO
0260 wi01129028     ISS1:1OF1     p33016_1  19/04/2016  p33016_1.cpl   NO
0261 wi01096967     ISS1:1OF1     p32735_1  19/04/2016  p32735_1.cpl   NO
0262 wi01177690     ISS1:1OF1     p33320_1  19/04/2016  p33320_1.cpl   YES
0263 wi01060611     ISS1:1OF1     p32809_1  19/04/2016  p32809_1.cpl   NO
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0265 wi01182523     ISS1:1OF1      p33327_1  19/04/2016  p33327_1.cpl   NO
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0268 wi01124074     ISS1:1OF1      p32989_1  19/04/2016  p32989_1.cpl   NO
0269 wi01034961     ISS1:1OF1      p32144_1  19/04/2016  p32144_1.cpl   NO
0270 wi01127874     ISS1:1OF1      p25747_1  19/04/2016  p25747_1.cpl   NO
0271 wi01062607     ISS1:1OF1      p32503_1  19/04/2016  p32503_1.cpl   NO
0272 CS1000-6910    ISS1:1OF1      p33528_1  19/04/2016  p33528_1.cpl   NO
0273 wi01060382     iss1:1of1      p32623_1  19/04/2016  p32623_1.cpl   YES
0274 wi01215563     ISS1:1OF1      p33412_1  19/04/2016  p33412_1.cpl   NO
0275 wi01181456     ISS1:1OF1      p33319_1  19/04/2016  p33319_1.cpl   NO
0276 wi01075359     ISS1:1OF1      p32671_1  19/04/2016  p32671_1.cpl   NO
0277 wi01120406     ISS1:1OF1      p32956_1  19/04/2016  p32956_1.cpl   NO
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0279 wi01213334     ISS1:1OF1      p33485_1  19/04/2016  p33485_1.cpl   NO
0280 wi01070473     ISS1:1OF1      p32413_1  19/04/2016  p32413_1.cpl   NO
0281 wi01114695     ISS1:1OF1      p32885_1  19/04/2016  p32885_1.cpl   NO
0282 wi01129098     ISS1:1OF1      p32951_1  19/04/2016  p32951_1.cpl   NO
0283 wi01134799     ISS1:1OF1      p33069_1  19/04/2016  p33069_1.cpl   NO
0284 wi01163048     ISS1:1OF1      p33223_1  19/04/2016  p33223_1.cpl   YES
0285 wi01096718     ISS1:1OF1      p33138_1  19/04/2016  p33138_1.cpl   YES
0286 wi01119312     ISS1:1OF1      p32919_1  19/04/2016  p32919_1.cpl   NO
0287 wi01166065     ISS1:1OF1      p33241_1  19/04/2016  p33241_1.cpl   NO
0288 wi01130836     ISS1:1OF1      p33008_1  19/04/2016  p33008_1.cpl   YES
0289 wi01109345     ISS1:1OF1      p32830_1  19/04/2016  p32830_1.cpl   NO
0290 wi01104410     ISS1:1OF1      p32801_1  19/04/2016  p32801_1.cpl   NO
0291 wi01183783     ISS1:1OF1      p33333_1  19/04/2016  p33333_1.cpl   NO
0292 wi01064599     iss1:1of1      p32580_1  19/04/2016  p32580_1.cpl   NO
0293 wi01124477     ISS1:1OF1      p32963_1  19/04/2016  p32963_1.cpl   NO
0294 wi01072062     ISS1:1OF1      p32776_1  19/04/2016  p32776_1.cpl   NO
0295 wi01118320     ISS1:1OF1      p32753_1  19/04/2016  p32753_1.cpl   NO
0296 wi01126454     ISS1:1OF1      p32973_1  19/04/2016  p32973_1.cpl   NO
0297 wi01154253     ISS1:1OF1      p33206_1  19/04/2016  p33206_1.cpl   NO
0298 wi01146543     ISS1:1OF1      p33097_1  19/04/2016  p33097_1.cpl   NO
0299 wi01021522     ISS1:1OF1      p32863_1  19/04/2016  p32863_1.cpl   NO
0300 CS1000-6786    ISS1:1OF1      p33497_1  19/04/2016  p33497_1.cpl   NO
0301 wi01108828     ISS1:1OF1      p32831_1  19/04/2016  p32831_1.cpl   NO
0302 wi01150771     ISS1:1OF1      p33210_1  19/04/2016  p33210_1.cpl   NO
0303 wi01022598     ISS1:1OF1      p32066_1  19/04/2016  p32066_1.cpl   NO
0304 wi01146289     ISS1:1OF1      p33146_1  19/04/2016  p33146_1.cpl   NO
0305 wi01184272     ISS1:1OF1      p33336_1  19/04/2016  p33336_1.cpl   NO
0306 CS1000-6752    ISS1:1OF1      p33540_1  19/04/2016  p33540_1.cpl   NO
0307 wi01082456     ISS1:1OF1      p32596_1  19/04/2016  p32596_1.cpl   NO
0308 wi01177614     ISS1:1OF1      p33303_1  19/04/2016  p33303_1.cpl   NO
0309 wi01163521     ISS1:1OF1      p33226_1  19/04/2016  p33226_1.cpl   NO
0310 wi01071296     ISS1:1OF1      p32836_1  19/04/2016  p32836_1.cpl   NO
```

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0311 wi01118928      ISS1:1OF1      p32922_1  19/04/2016  p32922_1.cpl   NO
0312 wi01068669      ISS1:1OF1      p32333_1  19/04/2016  p32333_1.cpl   NO
0313 wi01137003      ISS1:1OF1      p33053_1  19/04/2016  p33053_1.cpl   NO
0314 wi01165870      ISS1:1OF1      p33238_1  19/04/2016  p33238_1.cpl   NO
0315 wi01136194      ISS:1OF1       p33051_1  19/04/2016  p33051_1.cpl   NO
0316 wi01068751      ISS1:1OF1      p32445_1  19/04/2016  p32445_1.cpl   NO
0317 wi01075353      ISS1:1OF1      p32613_1  19/04/2016  p32613_1.cpl   NO
0318 wi01208515      ISS1:1OF1      p33455_1  19/04/2016  p33455_1.cpl   NO
0319 wi01165461      ISS1:1OF1      p33237_1  19/04/2016  p33237_1.cpl   NO
0320 wi01132222      ISS1:1OF1      p33023_1  19/04/2016  p33023_1.cpl   NO
0321 WI0110261       ISS1:1OF1      p32758_1  19/04/2016  p32758_1.cpl   NO
MDP>LAST SUCCESSFUL MDP REFRESH :2016-03-06 17:34:06(Local Time)
MDP>USING DEPLIST ZIP FILE DOWNLOADED :2016-03-02 11:03:12(est)


Linux Patches

Product Release: 7.65.16.00
In system patches: 8
PATCH#  NAME       IN_SERVICE   DATE      SPECINS  TYPE   RPM
42      p31484_1   Yes          07/03/16  NO       FRU    cs1000-shared-general-7.65.16-00.i386
43      p33125_1   Yes          07/03/16  NO       FRU    cs1000-OS-1.00.00.00-00.noarch
44      p33274_1   Yes          07/03/16  YES      FRU    initscripts-8.45.25-1.el5.i386
45      p33384_1   Yes          07/03/16  NO       FRU    cs1000-OS-1.00.00.00-00.noarch
46      p33456_1   Yes          07/03/16  YES      FRU    cs1000-OS-1.00.00.00-00.noarch
47      p33493_1   Yes          07/03/16  NO       FRU    cs1000-OS-1.00.00.00-00.noarch
48      p33554_1   Yes          07/03/16  YES      FRU    cs1000-OS-1.00.00.00-00.noarch
49      p33557_1   Yes          07/03/16  YES      FRU    cs1000-OS-1.00.00.00-00.noarch

In System service updates: 42

PATCH#  IN_SERVICE   DATE      SPECINS   REMOVABLE   NAME
0       Yes          06/03/16  YES       YES         cs1000-patchWeb-7.65.16.23-1.i386.000
1       Yes          04/03/16  NO        YES         cs1000-Jboss-Quantum-7.65.16.23-5.i386.000
2       Yes          07/03/16  NO        YES         cs1000-pd-7.65.16.21-00.i386.000
3       Yes          04/03/16  YES       YES         cs1000-dmWeb-7.65.16.23-4.i386.000
4       Yes          06/03/16  YES       YES         cs1000-linuxbase-7.65.16.23-21.i386.000
5       Yes          07/03/16  NO        YES         cs1000-shared-carrdtct-7.65.16.21-01.i386.000
6       Yes          07/03/16  NO        YES         cs1000-shared-tpselect-7.65.16.21-01.i386.000
7       Yes          07/03/16  NO        yes         cs1000-dbcom-7.65.16.21-00.i386.000
8       Yes          07/03/16  NO        YES         cs1000-snmp-7.65.16.21-00.i686.000
9       Yes          07/03/16  NO        YES         cs1000-shared-omm-7.65.16.21-2.i386.000
10      Yes          07/03/16  YES       YES         cs1000-emWebLocal_6-0-7.65.16.22-1.i386.000
11      Yes          07/03/16  YES       YES         cs1000-ipsec-7.65.16.22-1.i386.000
12      Yes          07/03/16  YES       YES         cs1000-csmWeb-7.65.16.22-2.i386.000
13      Yes          07/03/16  YES       YES         cs1000-csoneksvrmgr-7.65.16.22-5.i386.000
14      Yes          07/03/16  YES       YES         cs1000-baseWeb-7.65.16.22-4.i386.000
15      Yes          07/03/16  YES       YES         cs1000-oam-logging-7.65.16.22-4.i386.000
16      Yes          07/03/16  YES       YES         cs1000-csv-7.65.16.22-2.i386.000
17      Yes          07/03/16  YES       YES         cs1000-nrsm-7.65.16.22-3.i386.000
18      Yes          07/03/16  YES       YES         cs1000-mscTone-7.65.16.22-2.i386.000
```

```
19    Yes     07/03/16  YES    YES     cs1000-mscMusc-7.65.16.22-4.i386.000
20    Yes     07/03/16  YES    YES     cs1000-mscConf-7.65.16.22-2.i386.000
21    Yes     07/03/16  YES    YES     cs1000-mscAnnc-7.65.16.22-2.i386.000
22    Yes     07/03/16  YES    YES     cs1000-mscAttn-7.65.16.22-2.i386.000
23    Yes     07/03/16  NO     YES     cs1000-gk-7.65.16.22-1.i386.000
24    Yes     07/03/16  YES    YES     cs1000-shared-xmsg-7.65.16.22-1.i386.000
25    Yes     07/03/16  NO     YES     cs1000-sps-7.65.16.23-1.i386.000
26    Yes     07/03/16  YES    YES     cs1000-cs-7.65.P.100-03.i386.000
27    Yes     07/03/16  NO     YES     bash-3.2-33.el5_11.4.i386.000
28    Yes     07/03/16  YES    YES     cs1000-shared-pbx-7.65.16.23-1.i386.000
29    Yes     07/03/16  YES    YES     cs1000-emWeb_6-0-7.65.16.23-3.i386.000
30    Yes     07/03/16  NO     YES     libxml2-2.6.26-2.1.25.el5_11.i386.000
31    Yes     07/03/16  NO     YES     libxml2-python-2.6.26-2.1.25.el5_11.i386.000
32    Yes     07/03/16  NO     YES     freetype-2.2.1-32.el5_9.1.i386.000
33    Yes     07/03/16  NO     YES     cs1000-cs1000WebService_6-0-7.65.16.23-1.i386.000
34    Yes     07/03/16  YES    YES     cs1000-ftrpkg-7.65.16.23-1.i386.000
35    Yes     07/03/16  NO     YES     cs1000-cppmUtil-7.65.16.23-4.i686.000
36    Yes     07/03/16  NO     YES     tzdata-2015a-1.el5.i386.000
37    Yes     07/03/16  YES    YES     cs1000-tps-7.65.16.23-15.i386.000
38    Yes     07/03/16  YES    YES     kernel-2.6.18-406.el5.i686.000
39    Yes     07/03/16  YES    YES     jdk-1.6.0_101-fcs.i586.000
40    Yes     07/03/16  YES    YES     cs1000-vtrk-7.65.16.23-76.i386.000
41    Yes     07/03/16  YES    YES     cs1000-bcc-7.65.16.23-10.i386.000
spstat
There is no SP in loaded status.
The last applied SP: SP_7.6_7_1.zip
It is a STANDARD SP.
Has been applied by user admin2 on Mon Mar  7 10:06:22 2016.
spins command completed with no errors detected.
```

CS1000 Patches installed on DPNSS PBX

```
VERSION 4121
RELEASE 7
ISSUE 65 P +
DepList 1: core Issue: 01 (created: 2013-06-14 03:54:33 (est))

IN-SERVICE PEPS
PAT# CR #          PATCH REF #    NAME      DATE       FILENAME      SPECIS
000  wi01057403    ISS1:1OF1      p32591_1  19/04/2016  p32591_1.cpl   NO
001  wi01091447    ISS1:1OF1      p32675_1  19/04/2016  p32675_1.cpl   NO
002  wi01063263    ISS1:1OF1      p32573_1  19/04/2016  p32573_1.cpl   NO
003  wi01070474    iss1:1of1      p32407_1  19/04/2016  p32407_1.cpl   NO
004  wi00996734    ISS1:1OF1      p32550_1  19/04/2016  p32550_1.cpl   NO
005  wi01060382    iss1:1of1      p32623_1  19/04/2016  p32623_1.cpl   YES
006  wi01052968    ISS1:1OF1      p32540_1  19/04/2016  p32540_1.cpl   NO
007  wi00884716    ISS1:1OF1      p32517_1  19/04/2016  p32517_1.cpl   NO
008  wi01055480    ISS1:1OF1      p32712_1  19/04/2016  p32712_1.cpl   NO
009  wi01065842    ISS1:1OF1      p32478_1  19/04/2016  p32478_1.cpl   NO
010  wi01075352    ISS1:1OF1      p32603_1  19/04/2016  p32603_1.cpl   NO
011  wi01067822    ISS1:1OF1      p32466_1  19/04/2016  p32466_1.cpl   YES
012  wi01075359    ISS1:1OF1      p32671_1  19/04/2016  p32671_1.cpl   NO
013  wi01075355    ISS1:1OF1      p32594_1  19/04/2016  p32594_1.cpl   NO
014  wi01083584    ISS1:1OF1      p32619_1  19/04/2016  p32619_1.cpl   NO
015  wi01063864    ISS1:1OF1      p32410_1  19/04/2016  p32410_1.cpl   YES
016  wi01068042    ISS1:1OF1      p32669_1  19/04/2016  p32669_1.cpl   NO
017  wi01088775    ISS1:1OF1      p32659_1  19/04/2016  p32659_1.cpl   NO
018  wi01065922    ISS1:1OF1      p32516_1  19/04/2016  p32516_1.cpl   NO
019  wi01034961    ISS1:1OF1      p32144_1  19/04/2016  p32144_1.cpl   NO
020  wi01088585    ISS1:1OF1      p32656_1  19/04/2016  p32656_1.cpl   NO
021  wi01070473    ISS1:1OF1      p32413_1  19/04/2016  p32413_1.cpl   NO
022  wi00897254    ISS1:1OF1      p31127_1  19/04/2016  p31127_1.cpl   NO
023  wi01073100    ISS1:1OF1      p32599_1  19/04/2016  p32599_1.cpl   NO
024  wi01060826    ISS1:1OF1      p32379_1  19/04/2016  p32379_1.cpl   NO
025  wi01070468    iss1:1of1      p32418_1  19/04/2016  p32418_1.cpl   NO
026  wi01053597    ISS1:1OF1      p32304_1  19/04/2016  p32304_1.cpl   NO
027  wi01085855    ISS1:1OF1      p32658_1  19/04/2016  p32658_1.cpl   NO
028  wi01061484    ISS1:1OF1      p32576_1  19/04/2016  p32576_1.cpl   NO
029  wi01047890    ISS1:1OF1      p32697_1  19/04/2016  p32697_1.cpl   NO
030  wi01066991    ISS1:1OF1      p32449_1  19/04/2016  p32449_1.cpl   NO
031  wi01070465    iss1:1of1      p32562_1  19/04/2016  p32562_1.cpl   NO
032  wi01022599    ISS1:1OF1      p32080_1  19/04/2016  p32080_1.cpl   NO
033  wi01075353    ISS1:1OF1      p32613_1  19/04/2016  p32613_1.cpl   NO
034  wi01052428    ISS1:1OF1      p32606_1  19/04/2016  p32606_1.cpl   NO
035  wi01089519    ISS1:1OF1      p32665_1  19/04/2016  p32665_1.cpl   NO
036  wi01032756    ISS1:1OF1      p32673_1  19/04/2016  p32673_1.cpl   NO
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037	wi01072027	ISS1:1OF1	p32689_1	19/04/2016	p32689_1.cpl	NO
038	wi01056633	ISS1:1OF1	p32322_1	19/04/2016	p32322_1.cpl	NO
039	wi01071379	ISS1:1OF1	p32522_1	19/04/2016	p32522_1.cpl	NO
040	wi01070580	ISS1:1OF1	p32380_1	19/04/2016	p32380_1.cpl	NO
041	wi01069441	ISS1:1OF1	p32097_1	19/04/2016	p32097_1.cpl	NO
042	wi01035980	ISS1:1OF1	p32558_1	19/04/2016	p32558_1.cpl	NO
043	wi01078723	ISS1:1OF1	p32532_1	19/04/2016	p32532_1.cpl	NO
044	wi01068851	ISS1:1OF1	p32439_1	19/04/2016	p32439_1.cpl	NO
045	wi01059388	iss1:1of1	p32628_1	19/04/2016	p32628_1.cpl	NO
046	wi01060341	ISS1:1OF1	p32578_1	19/04/2016	p32578_1.cpl	NO
047	wi01070471	ISS1:1OF1	p32415_1	19/04/2016	p32415_1.cpl	NO
048	wi01061483	ISS1:1OF1	p32359_1	19/04/2016	p32359_1.cpl	NO
049	wi01045058	ISS1:1OF1	p32214_1	19/04/2016	p32214_1.cpl	NO
050	wi01048457	ISS1:1OF1	p32581_1	19/04/2016	p32581_1.cpl	NO
051	wi01055300	ISS1:1OF1	p32543_1	19/04/2016	p32543_1.cpl	NO
052	wi01053314	ISS1:1OF1	p32555_1	19/04/2016	p32555_1.cpl	NO
053	wi01094305	ISS1:1OF1	p32640_1	19/04/2016	p32640_1.cpl	NO
054	wi01064599	iss1:1of1	p32580_1	19/04/2016	p32580_1.cpl	NO
055	wi01080753	ISS1:1OF1	p32518_1	19/04/2016	p32518_1.cpl	NO
056	wi01072023	ISS1:1OF1	p32130_1	19/04/2016	p32130_1.cpl	YES
057	WI01077073	ISS1:1OF1	p32534_1	19/04/2016	p32534_1.cpl	NO
058	wi01062607	ISS1:1OF1	p32503_1	19/04/2016	p32503_1.cpl	NO
059	wi01041453	ISS1:1OF1	p32587_1	19/04/2016	p32587_1.cpl	NO
060	wi01087528	ISS1:1OF1	p32700_1	19/04/2016	p32700_1.cpl	NO
061	wi01034307	ISS1:1OF1	p32615_1	19/04/2016	p32615_1.cpl	NO
062	wi01025156	ISS1:1OF1	p32136_1	19/04/2016	p32136_1.cpl	NO
063	wi01061481	ISS1:1OF1	p32382_1	19/04/2016	p32382_1.cpl	NO
064	WI0110261	ISS1:1OF1	p32758_1	19/04/2016	p32758_1.cpl	NO
065	wi01043367	ISS1:1OF1	p32232_1	19/04/2016	p32232_1.cpl	NO
066	wi01072032	ISS1:1OF1	p32448_1	19/04/2016	p32448_1.cpl	NO
067	wi01039280	ISS1:1OF1	p32423_1	19/04/2016	p32423_1.cpl	NO
068	wi01070756	ISS1:1OF1	p32444_1	19/04/2016	p32444_1.cpl	NO
069	wi01035976	ISS1:1OF1	p32173_1	19/04/2016	p32173_1.cpl	NO
070	wi01056067	ISS1:1OF1	p32457_1	19/04/2016	p32457_1.cpl	NO
071	wi01053920	ISS1:1OF1	p32303_1	19/04/2016	p32303_1.cpl	NO
072	wi00933195	ISS1:1OF1	p32491_1	19/04/2016	p32491_1.cpl	NO
073	wi01060241	ISS1:1OF1	p32381_1	19/04/2016	p32381_1.cpl	NO
074	wi01058359	ISS1:1OF1	p32331_1	19/04/2016	p32331_1.cpl	NO
075	wi01065118	ISS1:1OF1	p32397_1	19/04/2016	p32397_1.cpl	NO
076	wi01082456	ISS1:1OF1	p32596_1	19/04/2016	p32596_1.cpl	NO
077	wi01092300	ISS1:1OF1	p32692_1	19/04/2016	p32692_1.cpl	NO
078	wi01053195	ISS1:1OF1	p32297_1	19/04/2016	p32297_1.cpl	NO
079	wi01074003	ISS1:1OF1	p32421_1	19/04/2016	p32421_1.cpl	NO
080	wi01065125	ISS1:1OF1	p32416_1	19/04/2016	p32416_1.cpl	NO
081	wi01068669	ISS1:1OF1	p32333_1	19/04/2016	p32333_1.cpl	NO
082	wi01087543	ISS1:1OF1	p32662_1	19/04/2016	p32662_1.cpl	NO

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083  wi01058621      ISS1:1OF1       p32339_1  19/04/2016  p32339_1.cpl   NO
084  wi01075360      iss1:1of1       p32602_1  19/04/2016  p32602_1.cpl   NO
MDP>LAST SUCCESSFUL MDP REFRESH :2013-08-28 14:15:41(Local Time)
MDP>USING DEPLIST ZIP FILE DOWNLOADED :2013-08-27 09:21:58(est)
```

Please e-mail any questions or comments pertaining to these Application Notes along with the full title name and filename, located in the lower right corner, directly to the Avaya DevConnect Program at *devconnect@avaya.com*.