

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Avaya Communication Server 1000E R7.5, Avaya Aura® Session Manager R6.2, Avaya Session Border Controller for Enterprise R4.0.5 to support Ventelo SIP Trunk Service – Issue 1.0

Abstract

These Application Notes describes the steps to configure Session Initiation Protocol (SIP) Trunking between Ventelo SIP Trunk Service and an Avaya SIP enabled Enterprise solution. The Avaya solution consists of Avaya Aura[®] Session Manager, Avaya Session Border Controller for Enterprise and Avaya Communication Server 1000E.

Ventelo is a member of the DevConnect SIP Service Provider program. 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 steps to configure Session Initiation Protocol (SIP) trunking between Ventelo SIP Trunk Service and an Avaya SIP enabled enterprise solution. The Avaya solution consists of Avaya Communication Server 1000E (CS1000E) and Avaya Aura Session Manager connected to Ventelo SIP Trunk Service via an Avaya Session Border Controller for Enterprise (Avaya SBCE). Customers using this Avaya SIP-enabled Enterprise Solution with Ventelo SIP Trunk Service are able to place and receive PSTN calls via SIP protocol over a dedicated internet connection. This converged network solution is an alternative to traditional PSTN trunks. This approach normally results in lower cost for the enterprise.

2. General Test Approach and Test Results

The general test approach was to configure a simulated enterprise site using an Avaya SIP telephony solution consisting of CS1000E, Session Manager and Avaya SBCE. The enterprise site was configured to use the SIP Trunk to Ventelo SIP Trunk Service. This configuration (shown in **Figure 1**) was used to exercise the features and functionality listed in **Section 2.1.**

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 test included the following:

- Incoming PSTN calls were made to Unistim, SIP, Digital and Analog telephones at the enterprise
- Incoming calls to the enterprise site from the PSTN routed to the DDI numbers assigned by Ventelo
- Outgoing calls from the enterprise to the PSTN were made from Unistim, SIP, Digital and Analog telephones
- Outgoing calls from the enterprise site completed via Ventelo to PSTN destinations
- Calls using the G.711A codec supported by Ventelo
- DTMF transmission using RFC 2833 with successful Voice Mail/Vector navigation for inbound and outbound calls
- User features such as hold and resume, transfer, conference, call forwarding, etc
- Caller ID Presentation and Caller ID Restriction
- Call coverage and call forwarding for endpoints at the enterprise site
- Mobile-X call features
- Off-net call forwarding and mobility (extension to mobile)

2.2. Test Results

Interoperability testing of the sample configuration was completed with successful results for the Ventelo SIP Trunk service with the following observations:

- In order to complete a blind transfer successfully, plugin 501 needs to be enabled on the CS1000E. With the installation of plugin 501 on the CS1000E, the blind transfer will be allowed and the call will be completed. The limitation of this plugin is that no ringback is provided to the originator of the call for the duration that the destination set is ringing. In addition to plugin 501, it is required that VTRK SU version "cs1000-vtrk-7.50.17.16-15.i386.000.ntl" or higher be used on all SSG signaling servers to ensure proper operation of the blind transfer feature. The use of plugin 501 does not restrict the use of the SIP UPDATE method of blind transfer to other parties that do happen to support the UPATE method, but rather extend support to those parties that do not
- T.38 fax transmission is not supported
- All unwanted MIME was stripped on outbound calls using the Adaptation Module in Session Manager
- No inbound toll free numbers were tested as none were available from the Service Provider
- No Emergency Services numbers were tested as test calls to these numbers should be prearranged with the Operator

2.3. Support

For technical support on Ventelo products, please contact the Ventelo support team.

- http://www.ventelo.no/bedrift/kundeservice/e-post-til-kundeservice.html
- Phone: 04500 or +47 38 76 96 00

3. Reference Configuration

Figure 1 illustrates the test configuration. The test configuration shows an enterprise site connected to the Ventelo SIP Trunks Service. Located at the enterprise site are CS1000E, Session Manager and the Avaya SBCE. Endpoints are Avaya 1140 series IP telephones, Avaya 1200 series (not shown in **Figure 1**) IP telephones (with Unistim and SIP firmware), Avaya IP Softphones (SMC3456, 2050 and Avaya one-X® Communicator), Avaya Digital telephone, Analog telephone and fax machine. For security purposes, any public IP addresses or PSTN routable phone numbers used in the compliance test are not shown in these Application Notes.

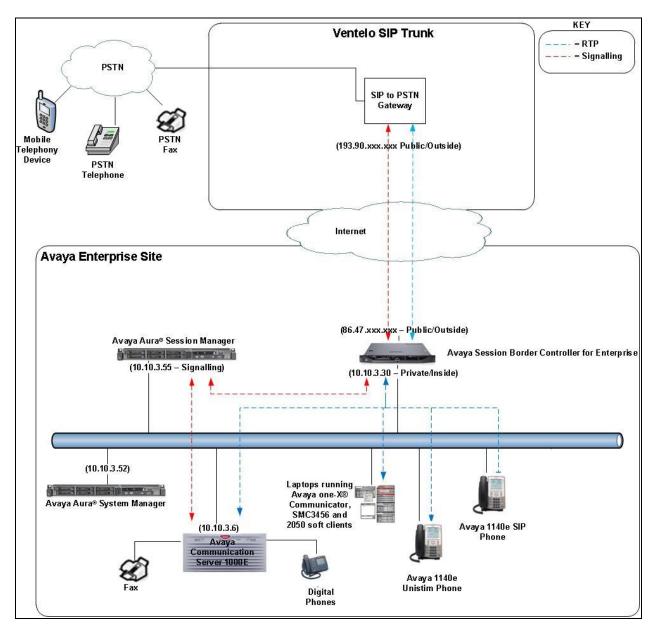


Figure 1: Test Setup Ventelo SIP Trunk Service to Avaya Enterprise

4. Equipment and Software Validated

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

Equipment/Software	Release/Version	
Avaya Aura® Session Manager running on	R6.2 Build: 6.2.2.0.622005	
Avaya S8800 server		
Avaya Aura® System Manager running on	R6.2 Load: 6.2.0.0.15669 Service Pack 2	
Avaya S8800 server		
Avaya Communication Server 1000E running	R7.5, Version 7.50.17	
on CP+PM server as co-resident	Service Update: 7.50_16Jul12	
configuration	Deplist: X21 07.50Q	
Avaya Session Border Controller for	Build: 4.0.5.Q19	
Enterprise on Dell R210 V2 server		
Avaya Communication Server 1000E Media	CSP Version: MGCC CD02	
Gateway	MSP Version: MGCM AB01	
	APP Version: MGCA BA07	
	FPGA Version: MGCF AA18	
	BOOT Version: MGCB BA15	
	DSP1 Version: DSP1 AB04	
Avaya 1140e and 1230 Unistim Telephones	FW: 0625C8A	
Avaya 1140e and 1230 SIP Telephones	FW: 04.01.13.00.bin	
Avaya SMC 3456	Version 2.6 build 53715	
Avaya one-X® Communicator	Version cs6.1.0.10	
Avaya Analogue Telephone	N/A	
Avaya M3904 Digital Telephone	N/A	
Ventelo SIP Trunk Service	Genband S3 release 7.1	
	Genband A2 release 7.0	

5. Configure Avaya Communication Server 1000E

This section describes the steps required to configure CS1000E for SIP Trunking and also the necessary configuration for terminals (analog, SIP and IP phones). SIP trunks are established between CS1000E and Session Manager. These SIP trunks carry SIP Signaling associated with Ventelo SIP Trunk Service. For incoming calls, the Session Manager receives SIP messages from the Avaya SBCE; through which Ventelo's SIP Trunk Service directs incoming SIP messages to CS1000E (see **Figure 1**). Once a SIP message arrives at CS1000E, further incoming call treatment, such as incoming digit translations and class of service restrictions may be performed. All outgoing calls to the PSTN are processed within CS1000E and may be first subject to outbound features such as route selection, digit manipulation and class of service restrictions. Once CS1000E selects a SIP trunk, the SIP signaling is routed to the Session Manager. The Session Manager directs the outbound SIP messages to the Avaya SBCE and on to Ventelo's network. Specific CS1000E configuration was performed using Element Manager and

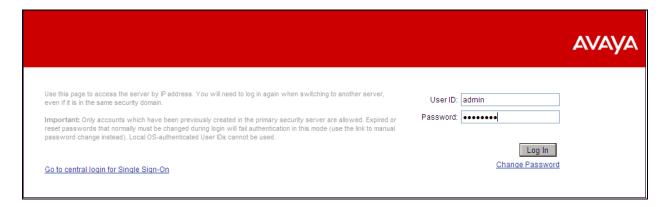
the system terminal interface. The general installation of the CS1000E, System Manager and Session Manager is presumed to have been previously completed and is not discussed here.

5.1. Log in to the Avaya Communication Server 1000E

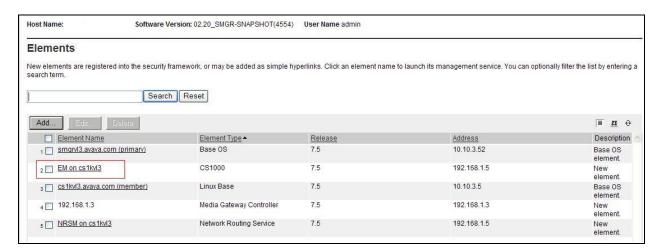
Configuration on the CS1000E will be performed by using both SSH Putty session and Avaya Unified Communications Management GUI.

Log in using SSH to the ELAN IP address of the Call Server using a user with correct privileges. Once logged in type **csconsole**, this will take the user into the vxworks shell of the call server. Next type **login**, the user will then be asked to login with correct credentials. Once logged in the user can then progress to load any overlay.

Log in using the web based Avaya Unified Communications Management GUI. The Avaya Unified Communications Management GUI may be launched directly via <a href="http://<ipaddress">http://<ipaddress> where the relevant <ipaddress> is the TLAN ip address of the CS1000E. The following screen shows the login screen. Login with the appropriate credentials.



The Avaya Unified Communications Management **Elements** page will be used for configuration. Click on the Element Name corresponding to CS1000E in the Element Type column. In the abridged screen below, the user would click on the Element Name **EM on cs1kvl3**.



5.2. Confirm System Features

The keycode installed on the Call Server controls the maximum values for these attributes. If a required feature is not enabled or there is insufficient capacity, contact an authorized Avaya sales representative to add additional capacity. Use the CS1000E system terminal and manually load overlay 22 to print the System Limits (the required command is **SLT**), and verify that the number of **SIP Access Ports** reported by the system is sufficient for the combination of trunks to Ventelo's network, and any other SIP trunks needed. See the following screenshot for a typical System Limits printout. The value of **SIP ACCESS PORTS** defines the maximum number of SIP trunks for the CS1000E.

```
System type is - Communication Server 1000E/CPPM Linux
CPPM - Pentium M 1.4 GHz
IPMGs Registered:
                              1
                              0
IPMGs Unregistered:
IPMGs Configured/unregistered: 0
TRADITIONAL TELEPHONES 32767 LEFT 32766
                                           USED
                                                    1
DECT USERS 32767 LEFT 32767
                                           USED
IP USERS
                     32767 LEFT 32744
                                         USED
                                                   23
BASIC IP USERS 32767 LEFT 32766 USED
TEMPORARY IP USERS
                    32767 LEFT 32767
                                          USED
                                                    0
DECT VISITOR USER
                    10000 LEFT 10000
                                         USED
                                                   Ω
                                           USED
ACD AGENTS
                     32767 LEFT 32752
                                                   15
MOBILE EXTENSIONS 32767 LEFT 32767
TELEPHONY SERVICES 32767 LEFT 32767
                                           USED
                                                   0
                                           USED
                                                    0
                             LEFT 32767
CONVERGED MOBILE USERS 32767
                                           USED
NORTEL SIP LINES
                     32767
                              LEFT 32765
                                           USED
THIRD PARTY SIP LINES 32767
                              LEFT 32761
                                           USED
                                                    6
SIP CONVERGED DESKTOPS 32767
                              LEFT 32767
                                           USED
                                                    0
                              LEFT 32767
SIP CTI TR87
                     32767
                                           USED
                                                    0
SIP ACCESS PORTS
                              LEFT 1970
                                                    30
                      2000
                                           USED
```

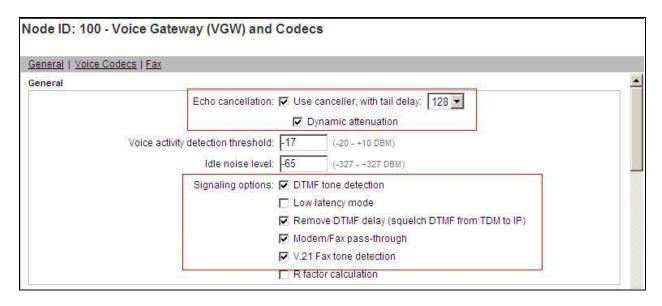
Load **overlay 21**, and confirm the customer is setup to use **ISDN** trunks (see below).

```
REQ: prt
TYPE: net
TYPE NET_DATA
CUST 0

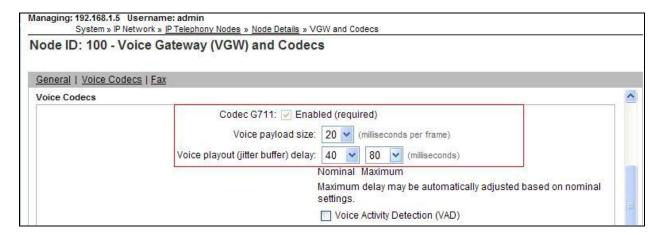
TYPE NET_DATA
CUST 00
OPT RTD
AC1 INTL NPA SPN NXX LOC
AC2
FNP YES
ISDN YES
```

5.3. Configure Codec's for Voice and FAX Operation

Ventelo's SIP Trunk service supports G.711A and modem pass-through Fax transmissions. Using the CS1000E element manager sidebar, navigate to the **IP Network** → **IP Telephony Nodes** → **Node Details** → **Voice Gateway** (VGW) and **Codecs** property page and configure the CS1000E General codec settings as in the next screenshot.

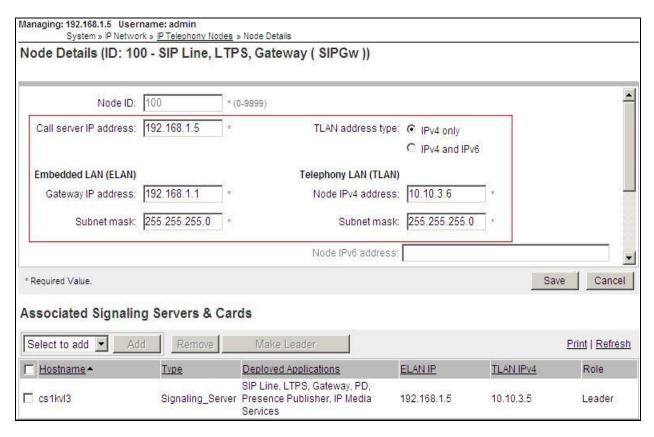


Next, scroll down and configure the **Codec G.711**. The relevant settings are highlighted in the following screenshot.



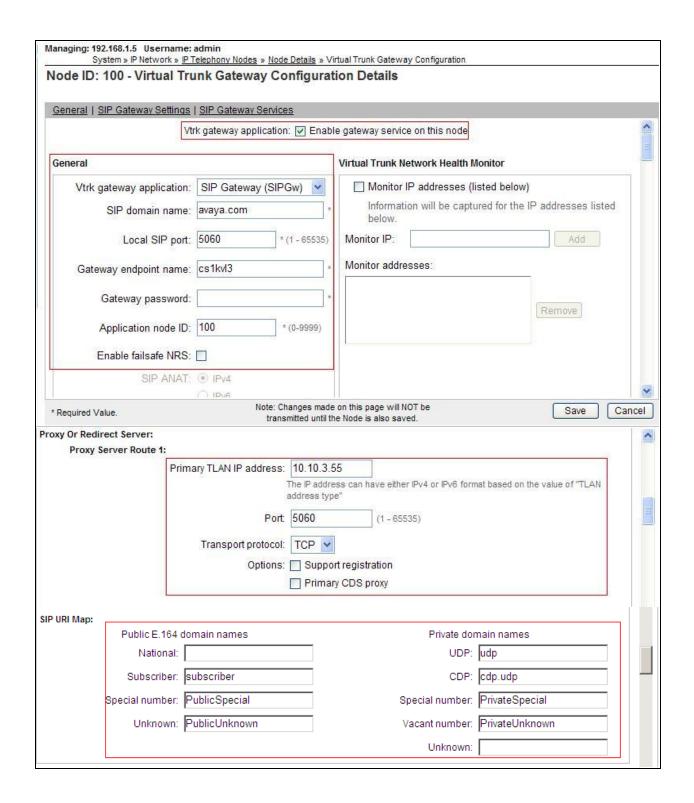
5.4. Virtual Trunk Gateway Configuration

Use CS1000E Element Manager to configure the system node properties. Navigate to the **System** → **IP Networks** → **IP Telephony Nodes** → **Node Details** and verify the highlighted section is completed with the correct IP addresses and subnet masks of the Node. At this stage the call server has an IP address and so too does the signalling server. The TLAN Node IP is the IP address that the IP phones use to register. This is also where the SIP trunk connection is made to the Session Manager. When an entity link is added in Session Manager for the CS1000E, it is the Node IP that is used (please see **Section 6.5** – Define SIP Entities for more details).



The next two screenshots show the SIP Virtual Trunk Gateway configuration, navigate to System \rightarrow IP Networks \rightarrow IP Telephony Nodes \rightarrow Node Details \rightarrow Gateway (SIPGw) and fill in the highlighted areas with the relevant settings.

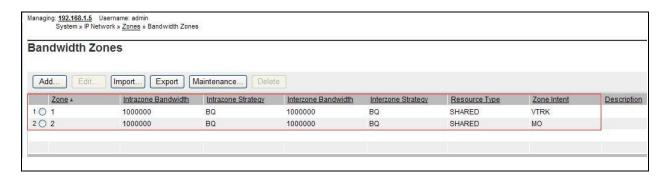
- Vtrk gate way application: Enable the Vtrk gateway application on the node, check the box to enable
- Vtrk gate way application: Listed in the General section, this provides the option to select Gateway applications. The three supported modes are SIP Gateway (SIPGw), H.323Gw, and SIPGw and H.323Gw.
- **SIP domain name:** The SIP Domain Name is the SIP Service Domain. The SIP Domain Name configured in the Signaling Server properties must match the Service Domain name configured in the Session Manager.
- Local SIP port: The Local SIP Port is the port to which the gateway listens. The default value is **5060**.
- Gateway endpoint name: This field cannot be left blank so a value is needed here. This field is used when a Network Routing Server is used for registration of the endpoint. In this network a Session Manager is used so any value can be put in here as it will not be used.
- **Application node ID:** This is a unique value that can be alphanumeric and is for the new Node that is being created, in this case **100**.
- **Proxy or Redirect Server:** Primary TLAN IP address is the Security Module IP address of the Session Manager. The **Transport protocol** used for **SIP**, in this case is **TCP**.
- SIP URI Map: Public National and Private Unknown are left blank. All other fields in the SIP URI Map are left with default values.



5.5. Configure Bandwidth Zones

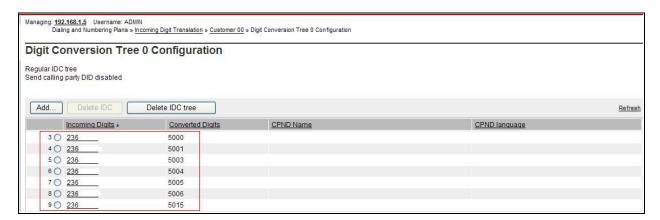
Bandwidth Zones are used for alternate call routing between IP stations and for Bandwidth Management. SIP trunks require a unique zone, not shared with other resources and best practice dictates that IP telephones and Media Gateways are placed in separate zones. In the sample configuration SIP trunks use zone 01 and IP Telephones use zone 02, system defaults were used for each zone other than the parameter configured for **Zone Intent**. For SIP Trunks (zone 01), **VTRK** is configured for **Zone Intent**. For IP, SIP Telephones (zone 02), **MO** is configured for **Zone Intent**.

Use Element Manager to define bandwidth zones as in the following highlighted example. Use Element Manager and navigate to **System → IP Network → Zones → Bandwidth Zones** and add new zones as required.



5.6. Configure Incoming Digit Conversion Table

A limited number of Direct Dial Inwards (DDI) numbers were available. The IDC table was configured to translate incoming PSTN numbers to four digit local telephone extension numbers. The digits of the actual PSTN DDI number are obscured for security reasons. The following screenshot shows the incoming PSTN numbers converted to local extension numbers. These were altered during testing to map to various SIP, Analog, Digital or Unistim telephones depending on the particular test case being executed.



5.7. Configure SIP Trunks

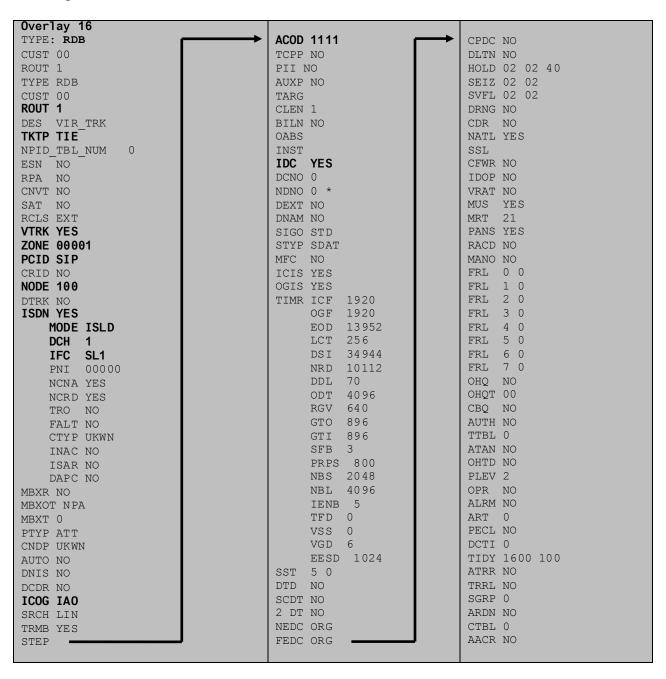
CS1000E virtual trunks will be used for all inbound and outbound PSTN calls to Ventelo's SIP Trunk Service. Six separate steps are required to configure CS1000E virtual trunks.

- Configure a D-Channel Handler (**DCH**); configure using the CS1000E system terminal and overlay 17
- Configure a SIP trunk Route Data Block (**RDB**); configure using the CS1000E system terminal and overlay 16
- Configure SIP trunk members; configure using the CS1000E system terminal and overlay 14
- Configure a Digit Manipulation Data Block (**DGT**), configure using the CS1000E system terminal and overlay 86
- Configure a Route List Block (**RLB**); configure using the CS1000E system terminal and overlay 86
- Configure Co-ordinated Dialling Plan(s) (CDP); configure using the CS1000E system terminal and overlay 87

The following is an example DCH configuration for SIP trunks. Load **Overlay 17** at the CS1000E system terminal and enter the following values. The highlighted entries are required for correct SIP trunk operation. Exit overlay 17 when completed.

```
Overlay 17
ADAN
         DCH 1
 CTYP DCIP
 DES VIR TRK
 USR ISLD
 ISLM 4000
 SSRC 3700
 OTBF 32
 NASA YES
 IFC SL1
 CNEG 1
 RLS ID 4
 RCAP ND2
 MBGA NO
   OVLR NO
   OVLS NO
```

Next, configure the SIP trunk Route Data Block (RDB) using the CS1000E system terminal and overlay 16. Load **Overlay 16**, enter **RDB** at the prompt, press return and commence configuration. The value for **DCH** is the same as previously entered in overlay 17. The value for **NODE** should match the node value in **Section 5.4**. The value for **ZONE** should match that used in **Section 5.5** for **SIP_VTRK**. The remaining highlighted values are important for correct SIP trunk operation.



Next, configure virtual trunk members using the CS1000E system terminal and **Overlay 14**. Configure sufficient trunk members to carry both incoming and outgoing PSTN calls. The following example shows a single SIP trunk member configuration. Load **Overlay 14** at the system terminal and type **new X**, where X is the required number of trunks. Continue entering data until the overlay exits. The **RTMB** value is a combination of the **ROUT** value entered in the previous step and the first trunk member (usually 1). The remaining highlighted values are important for correct SIP trunk operation.

```
Overlay 14
TN 100 0 0 0
DATE
PAGE
DES VIR TRK
TN 100 0 00 00 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 1 1
CHID 1
TGAR 1
STRI/STRO IMM IMM
SUPN YES
AST NO
IAPG 0
CLS UNR DIP CND ECD WTA LPR APN THFD XREP SPCD MSBT
    P10 NTC
TKID
AACR NO
```

Next, configure a Digit Manipulation data block (DGT) in overlay 86. Load **Overlay 86** at the system terminal and type **new**. The following example shows the values used. The value for **DMI** is the same as when inputting the **DMI** value during configuration of the Route List Block.

```
Overlay 86

CUST 0

FEAT dgt

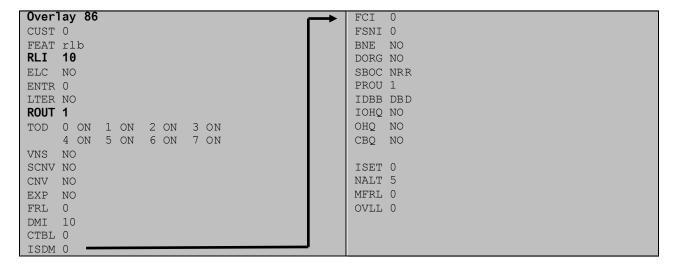
DMI 10

DEL 0

ISPN NO

CTYP NPA
```

Configure a Route List Block (RLB) in overlay 86. Load **Overlay 86** at the system terminal and type **new**. The following example shows the values used. The value for **ROUT** is the same as previously entered in overlay 16. The **RLI** value is unique to each RLB.



Next, configure Co-ordinated Dialing Plan(s) (CDP) which users will dial to reach PSTN numbers. Use the CS1000E system terminal and **Overlay 87**. The following are some example CDP entries used. The highlighted **RLI** value previously configured in overlay 86 is used as the Route List Index (**RLI**), this is the default PSTN route to the SIP Trunk service.

TSC 00353	TSC 18	TSC 800	TSC 08
FLEN 0	FLEN O	FLEN O	FLEN 0
RRPA NO	RRPA NO	RRPA NO	RRPA NO
RLI 10	RLI 10	RLI 10	RLI 10
CCBA NO	CCBA NO	CCBA NO	CCBA NO

5.8. Configure Analog, Digital and IP Telephones

A variety of telephone types were used during the testing, the following is the configuration for the Avaya 1140e Unistim IP telephone. Load **Overlay 20** at the system terminal and enter the following values. A unique four digit number is entered for the **KEY 00** and **KEY 01** value. The value for **CFG_ZONE** is the same value used in **Section 5.5** for **VIRTUALSETS**.

```
Overlay 20 IP Telephone configuration
DES 1140
TN 100 0 01 0 VIRTUAL
TYPE 1140
CDEN 8D
CTYP XDLC
CUST 0
NUID
NHTN
CFG_ZONE 00002
CUR ZONE 00002
ERL 0
ECL 0
FDN 0
TGAR 0
LDN NO
NCOS 0
SGRP 0
RNPG 1
SCI 0
SSU
LNRS 16
XLST
SCPW
SFLT NO
CAC_MFC 0
CLS UNR FBA WTA LPR PUA MTD FNA HTA TDD HFA CRPD
    MWA LMPN RMMD SMWD AAD IMD XHD IRD NID OLD VCE DRG1
     POD SLKD CCSD SWD LNA CNDA
     CFTD SFD MRD DDV CNID CDCA MSID DAPA BFED RCBD
    ICDA CDMD LLCN MCTD CLBD AUTR
    GPUD DPUD DNDA CFXA ARHD FITD CLTD ASCD
     CPFA CPTA ABDD CFHD FICD NAID BUZZ AGRD MOAD
     UDI RCC HBTA AHD IPND DDGA NAMA MIND PRSD NRWD NRCD NROD
     DRDD EXRO
     USMD USRD ULAD CCBD RTDD RBDD RBHD PGND OCBD FLXD FTTC DNDY DNO3 MCBN
     FDSD NOVD VOLA VOUD CDMR PRED RECA MCDD T87D SBMD KEM3 MSNV FRA PKCH MUTA MWTD
---continued on next page----
```

```
---continued from previous page----
DVLD CROD CROD
CPND LANG ENG
RCO 0
HUNT 0
LHK 0
PLEV 02
PUID
DANI NO
AST 00
IAPG 1
AACS NO
ITNA NO
DGRP
MLWU LANG 0
MLNG ENG
DNDR 0
KEY 00 MCR 5000 0
                       MARP
        CPND
          CPND LANG ROMAN
            NAME IP1140
            XPLN 10
            DISPLAY FMT FIRST, LAST
     01 MCR 5000 0
        CPND
          CPND LANG ROMAN
            NAME IP1140
            XPLN 10
            DISPLAY FMT FIRST, LAST
     02
     03 BSY
     04 DSP
     05
     06
     07
     08
     09
     10
     11
     12
     13
     14
     15
     16
     17 TRN
     18 AO6
     19 CFW 16
     20 RGA
     21 PRK
     22 RNP
     23
     24 PRS
     25 CHG
     26 CPN
```

Digital telephones are configured using the **Overlay 20**, the following is a sample **3904** digital set configuration. Again, a unique number is entered for the **KEY 00** and **KEY 01** value.

```
Overlay 20 - Digital Set configuration
TYPE: 3904
DES 3904
TN 04 0 02 00 VIRTUAL
TYPE 3904
CDEN 8D
CTYP XDLC
CUST 0
MRT
ERL
FDN 0
TGAR 0
LDN NO
NCOS 0
SGRP 0
RNPG 1
SCI 0
LNRS 16
XLST
SCPW
SFLT NO
CAC MFC 0
CLS UNR FBD WTA LPR PUA MTD FND HTD TDD HFA GRLD CRPA STSD
     MWA LMPN RMMD SMWD AAD IMD XHD IRD NID OLD VCE DRG1
     POD SLKD CCSD SWD LNA CNDA
     CFTD SFD MRD DDV CNID CDCA MSID DAPA BFED RCBD
     ICDA CDMA LLCN MCTD CLBD AUTU
     GPUD DPUD DNDA CFXA ARHD FITD CNTD CLTD ASCD
     CPFA CPTA ABDA CFHD FICD NAID BUZZ AGRD MOAD
     UDI RCC HBTD AHA IPND DDGA NAMA MIND PRSD NRWD NRCD NROD
     USMD USRD ULAD CCBD RTDD RBDD RBHD PGND OCBD FLXD FTTC DNDY DNO3 MCBN
     FDSD NOVD CDMR PRED RECA MCDD T87D SBMD PKCH CROD CROD
CPND LANG ENG
RCO 0
HUNT
PLEV 02
PUID
DANI NO
SPID NONE
AST
IAPG 1
AACS
ACQ
ASID
SFNB
SFRB
USFB
CALB
FCTB
ITNA NO
DGRP
PRI 01
MLWU LANG 0
---continued on next page----
```

```
---continued from previous page----
MLNG ENG
DNDR 0
KEY 00 MCR 5008 0
       CPND
         CPND LANG ROMAN
           NAME Digital Set
           XPLN 10
          DISPLAY_FMT FIRST, LAST
     01 MCR 5008 0
       CPND
         CPND_LANG ROMAN
           NAME Digital Set
           XPLN 10
           DISPLAY_FMT FIRST, LAST
     02
     03
     04
     05
     06
     07
     08
     09
    10
    11
    12
    13
    14
    15
    16
    17 TRN
    18 AO6
    19 CFW 16
    20 RGA
    21 PRK
    22 RNP
    23
    24 PRS
    25 CHG
    26 CPN
     27 CLT
     28 RLT
     29
     30
     31
```

Analog telephones are also configured using **Overlay 20**, the following example shows an analog port configured for Plain Ordinary Telephone Service (POTS) and also configured to allow pass through fax transmission. A unique value is entered for **DN**, this is the extension number. **DTN** is required if the telephone uses DTMF dialing. Values **FAXD** and **MPTA** configure the port for pass through fax transmissions.

```
Overlay 20 - Analog Telephone Configuration
DES 500
TN 04 0 03 00
TYPE 500
CDEN 4D
CUST 0
MRT
ERL 00000
WRLS NO
DN 5015
AST NO
IAPG 0
HUNT
TGAR 0
LDN NO
NCOS 0
SGRP 0
RNPG 0
XLST
SCI 0
SCPW
SFLT NO
CAC MFC 0
CLS UNR DTN FBD XFD WTA THFD FND HTD ONS
     LPR XRD AGRD CWD SWD MWD RMMD SMWD LPD XHD SLKD CCSD LND TVD
     CFTD SFD MRD C6D CNID CLBD AUTU
     ICDD CDMD LLCN EHTD MCTD
     GPUD DPUD CFXD ARHD OVDD AGTD CLTD LDTD ASCD SDND
    MBXD CPFA CPTA UDI RCC HBTD IRGD DDGA NAMA MIND
    NRWD NRCD NROD SPKD CRD PRSD MCRD
     EXRO SHL SMSD ABDD CFHD DNDY DNO3
     CWND USMD USRD CCBD BNRD OCBD RTDD RBDD RBHD FAXD CNUD CNAD PGND FTTC
    FDSD NOVD CDMR PRED MCDD T87D SBMD PKCH MPTA
PLEV 02
PUID
AACS NO
MLWU LANG 0
FTR DCFW 4
```

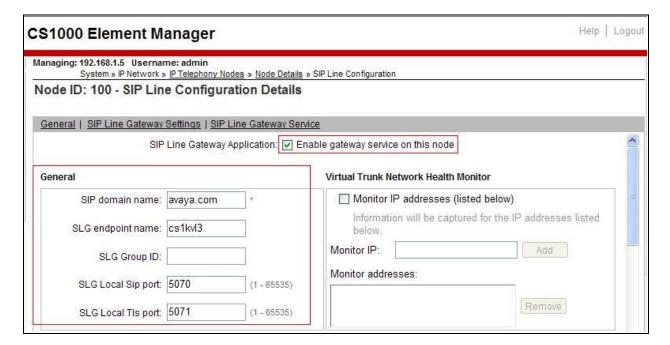
5.9. Configure the SIP Line Gateway Service

SIP terminal operation requires the Communication Server node to be configured as a SIP Line Gateway (SLG) before SIP telephones can be configured. Prior to configuring the SIP Line node properties, the SIP Line service must be enabled in the customer data block. Use the CS1000E system terminal and **Overlay 15** to activate SIP Line services, as in the following example where **SIPL_ON** is set to **YES**.



If a numerical value is entered against the **UAPR** setting, this number will be pre appended to all SIP Line configurations, and is used internally in the SIP Line server to track SIP terminals. Use Element Manager and navigate to the **IP Network** \rightarrow **IP Telephony Nodes** \rightarrow **Node Details** \rightarrow **SIP Line Configuration** page. See the following screenshot for highlighted critical parameters.

- **SIP Line Gateway Application:** Enable the SIP line service on the node, check the box to enable
- **SIP Domain Name:** The value must match that configured in **Section 6.2**
- **SLG endpoint name:** The endpoint name is the same endpoint name as the SIP Line Gateway and will be used for SIP gateway registration
- SLG Local Sip port: Default value is 5070
- SLG Local TLS port: Default value is 5071



5.10. Configure SIP Line Telephones

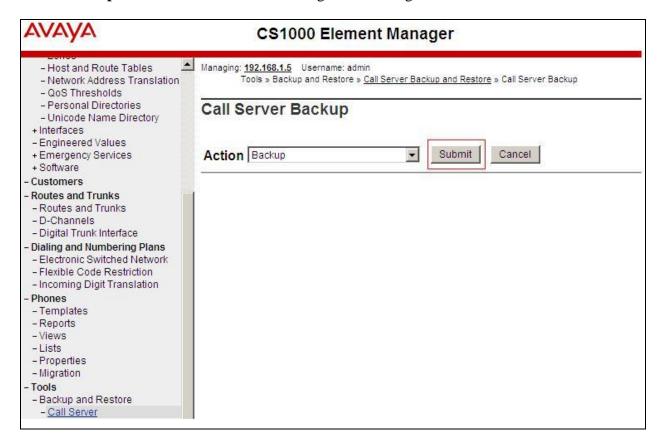
When SIP Line service configuration is completed, use the CS1000E system terminal and **Overlay 20** to add a Universal Extension (UEXT). See the following example of a SIP Line extension. The value for **UXTY** must be **SIPL**. This example is for an Avaya SIP telephone, so the value for **SIPN** is 1. The **SIPU** value is the username, **SCPW** is the logon password and these values are required to register the SIP telephone to the SLG. The value for **CFG_ZONE** is the value set for **SIPLINEZONE** in **Section 5.5**. A unique telephone number is entered for value **KEY 00**. The value for **KEY 01** is comprised of the **UAPR** (set in **Section 5.8**) value and the telephone number used in **KEY 00**.

```
Overlay 20 - SIP Telephone Configuration
DES SIPD
    100 0 01 10 VIRTUAL
TYPE UEXT
CDEN 8D
CTYP XDLC
CUST 0
UXTY SIPL
MCCL YES
SIPN 1
SIP3 0
FMCL 0
TLSV 0
SIPU 5003
NDID 100
SUPR NO
SUBR DFLT MWI RGA CWI MSB
UXID
NUID 100
NHTN 100 0 01 10
CFG_ZONE 00002
CUR ZONE 00002
ERL 0
ECL 0
VSIT NO
FDN
TGAR 0
LDN NO
NCOS 0
SGRP 0
RNPG 0
SCI 0
SSU
XLST
SCPW 1234
SFLT NO
CAC MFC 0
CLS UNR FBD WTA LPR MTD FNA HTA TDD HFD CRPD
    MWD LMPN RMMD SMWD AAD IMD XHD IRD NID OLD VCE DRG1
    POD SLKD CCSD SWD LND CNDA
    CFTD SFD MRD DDV CNID CDCA MSID DAPA BFED RCBD
    ICDD CDMD LLCN MCTD CLBD AUTU
     GPUD DPUD DNDA CFXA ARHD FITD CLTD ASCD
    CPFA CPTA ABDD CFHD FICD NAID BUZZ AGRD MOAD
---continued on next page---
```

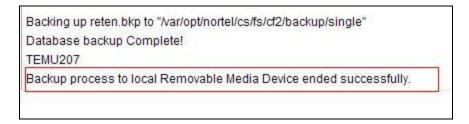
```
---continued from previous page---
     UDI RCC HBTD AHA IPND DDGA NAMA MIND PRSD NRWD NRCD NROD
     DRDD EXR0
     USMD USRD ULAD CCBD RTDD RBDD RBHD PGND OCBD FLXD FTTC DNDY DNO3 MCBN
    FDSD NOVD VOLA VOUD CDMR PRED RECD MCDD T87D SBMD ELMD MSNV FRA PKCH MWTD DVLD
CROD CROD
CPND_LANG ENG
RCO 0
HUNT
LHK 0
PLEV 02
PUID
DANI NO
AST
IAPG 0 *
AACS NO
ITNA NO
DGRP
MLWU LANG 0
MLNG ENG
DNDR 0
KEY 00 SCR 5003 0
                     MARP
        CPND
          CPND LANG ROMAN
            NAME Sigma 1140
            XPLN 11
            DISPLAY FMT FIRST, LAST*
     01 HOT U 115003 MARP 0
     02
     03
     04
     05
     06
     07
     08
     09
     10
     11
     12
     13
     14
     15
     16
     17 TRN
     18 AO6
     19 CFW 16
     20 RGA
     21 PRK
     22 RNP
     23
     24 PRS
     25 CHG
     26 CPN
     27
     28
     29
     30
     31
```

5.11. Save Configuration

Expand Tools \rightarrow Backup and Restore on the left navigation panel and select Call Server. Select Backup and click Submit to save configuration changes as shown below.



Backup process will take several minutes to complete. Scroll to the bottom of the page to verify the backup process completed successfully as shown below.



Configuration of CS1000E is complete.

6. Configure Avaya Aura® Session Manager

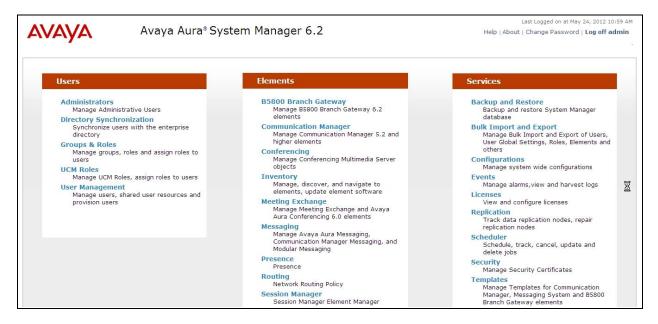
This section provides the procedures for configuring Session Manager. The procedures include adding the following items:

- SIP domain
- Logical/physical Location that can be occupied by SIP Entities
- SIP Entities corresponding to CS1000E, Avaya SBCE and Session Manager
- Entity Links, which define the SIP trunk parameters used by Session Manager when routing calls to/from SIP Entities
- Routing Policies, which control call routing between the SIP Entities
- Dial Patterns, which govern to which SIP Entity a call is routed
- Session Manager Instance, corresponding to the Session Manager server to be administered in System Manager

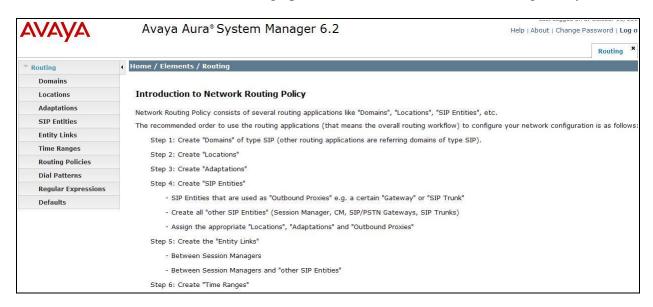
It may not be necessary to create all the items above when creating a connection to the service provider since some of these items would have already been defined as part of the initial Session Manager installation. This includes items such as certain SIP domains, locations, SIP entities, and Session Manager itself. However, each item should be reviewed to verify the configuration.

6.1. Avaya Aura® System Manager Login and Navigation

Session Manager configuration is accomplished by accessing the browser-based GUI of System Manager, using the URL https://<ip-address>/SMGR, where <ip-address> is the IP address of System Manager. Log in with the appropriate credentials and click on **Log On** (not shown). The screen shown below is then displayed.



Most of the configuration items are performed in the Routing Element. Click on **Routing** in the Elements column shown above to bring up the Introduction to Network Routing Policy screen.

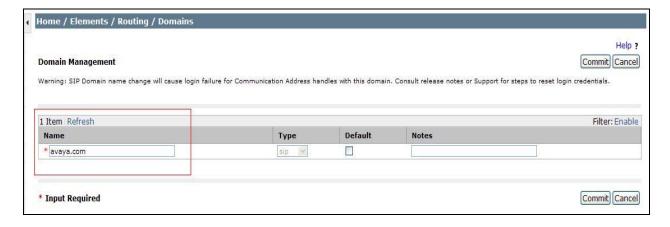


6.2. **Define SIP Domain**

Create a SIP domain for each domain for which Session Manager will need to be aware in order to route calls. Expand **Elements** \rightarrow **Routing** and select **Domains** from the left navigation menu, click **New** (not shown). Enter the following values and use default values for remaining fields.

- Name Enter the Domain Name specified for the SIP Gateway in Section 5.4. In the sample configuration, avaya.com was used
- Type Verify SIP is selected
- Notes Add a brief description [Optional]

Click **Commit** to save. The screen below shows the SIP Domain defined for the sample configuration.



6.3. Define Location for Avaya Communication Server 1000E

Locations can be used to identify logical and/or physical locations where SIP Entities reside for purposes of bandwidth management and call admission control. To add a location, navigate to **Routing** \rightarrow **Locations** in the left-hand navigation pane and click the **New** button in the right pane (not shown). In the **General** section, enter the following values. Use default values for all remaining fields:

• Name: Enter a descriptive name for the location

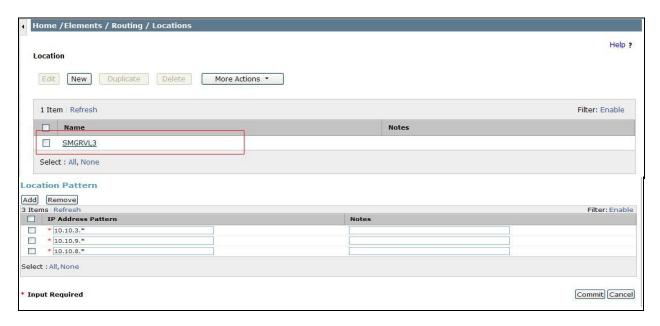
• **Notes:** Add a brief description (optional)

The Location Pattern is used to identify call routing based on IP address. Session Manager matches the IP address against the patterns defined in this section. If a call is from a SIP Entity that does not match the IP address pattern then Session Manager uses the location administered for the SIP Entity.

In the Location Pattern section, click Add and enter the following values.

- **IP Address Pattern** Enter the logical pattern used to identify the location. For the sample configuration, **10.10.3.*** was used
- **Notes** Add a brief description [Optional]

Click **Commit** to save. The screenshot below shows the Location **SMGRVL3** defined for the compliance testing.



6.4. Configure Adaptation Module

To enable calls to be routed to stations on CS1000E, the Session Manager should be configured to modify the called party number to meet network requirements. Adaptations can be used to modify the called and calling party numbers to meet the requirements of the SIP trunk service. The called party number present in the SIP INVITE Request URI is modified by the **Digit**Conversion in the Adaptation. Additionally, the called and calling party numbers can also be modified using **Digit Conversion** when **fromto=true** is entered in the **Module Parameters**. Expand **Elements** \rightarrow **Routing** and select **Adaptations** from the left navigational menu. Click **New** (not shown). In the **General** section, enter the following values and use default values for remaining fields.

• Adaptation Name Enter an identifier for the Adaptation Module

• Module Name Select DigitConversonAdaptor from drop-down menu

• Module parameter MIME =no→Strips MIME message bodies on egress from

Session Manager

fromto=true → Modifies from and to headers of a message



6.5. Define SIP Entities

A SIP Entity must be added for Session Manager and for each SIP server connected to it, which includes CS1000E and the Avaya SBCE. Navigate to **Routing** → **SIP Entities** in the left-hand navigation pane and click on the **New** button in the right pane (not shown).

In the General section, enter the following values. Use default values for all remaining fields:

• Name: Enter a descriptive name

• FQDN or IP Address: Enter the FQDN or IP address of the SIP Entity that is used for

SIP signaling

• Type: Enter Session Manager for Session Manager, Other for

CS1000E and Gate way for Avaya SBCE

• Adaptation: This field is only present if **Type** is not set to **Session**

Manager. If applicable, select the Adaptation Name that will

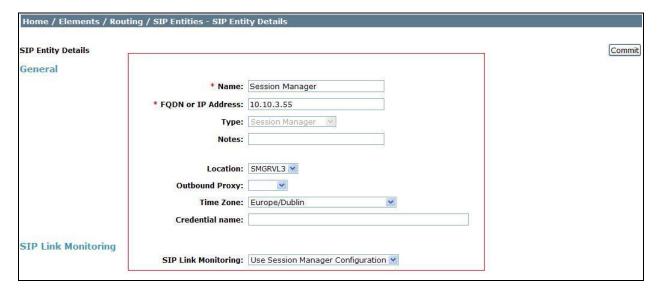
be applied to this entity

Location: Select one of the locations defined previously
 Time Zone: Select the time zone for the location above

In the **SIP Link Monitoring** section:

• SIP Link Monitoring Select Use Session Manager Configuration

The following screen shows the addition of Session Manager. The IP address of the Session Manager signaling interface is entered for **FQDN or IP Address**.



To define the ports used by Session Manager, scroll down to the **Port** section of the **SIP Entity Details** screen. This section is only present for **Session Manager** SIP entities. This section defines a default set of ports that Session Manager will use to listen for SIP requests, typically from registered SIP endpoints. Session Manager can also listen on additional ports defined elsewhere such as the ports specified in the SIP Entity Link definition in **Section 6.6**.

In the **Port** section, click **Add** and enter the following values. Use default values for all remaining fields:

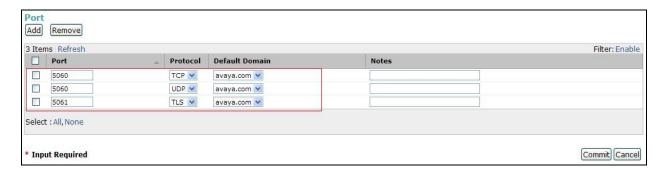
• **Port**: Port number on which Session Manager can listen for requests

• **Protocol:** Transport protocol to be used to send SIP requests

• **Default Domain:** The domain used for the enterprise

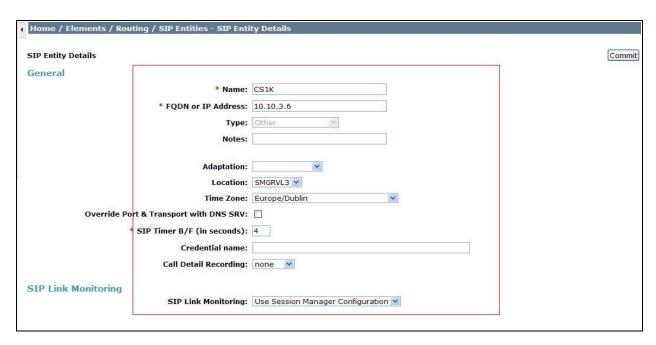
Defaults can be used for the remaining fields. Click Commit to save.

For the compliance test, three **Port** entries were added. Although TLS was added for SIP clients and is recommended for security reasons, only the TCP and UDP ports were used by Session Manger in the reference configuration for the purpose of added visibility for traces taken during testing.

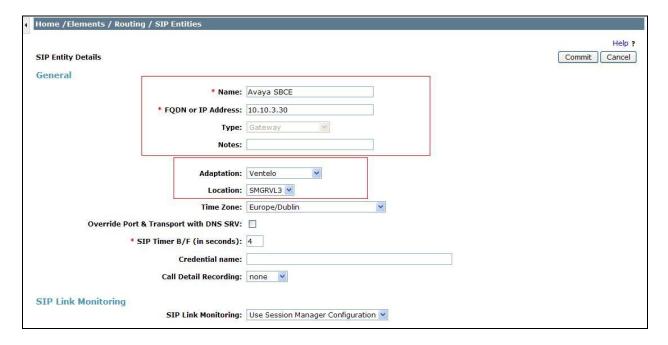


In order for Session Manager to send SIP service provider traffic on a separate entity link to CS1000E and Avaya SBCE, a new SIP entity is created separate from the one created at Session Manager installation for use with all other SIP traffic.

The following screen shows the addition of the CS1000E SIP Entity. The **FQDN or IP Address** field is set to the TLAN Node IP address defined in **Section 5.4**.



The following screen shows the addition of the Avaya SBCE SIP Entity. The **FQDN or IP Address** field is set to the IP address of the Avaya SBCE's private network interface.



6.6. **Define Entity Links**

A SIP trunk between Session Manager and a telephony system is described as an Entity Link. Two Entity Links were created; one to the CS1000E for use only by service provider traffic and one to the Avaya SBCE. To add an Entity Link, navigate to **Routing** → **Entity Links** in the left-hand navigation pane and click on the **New** button in the right pane (not shown). Fill in the following fields in the new row that is displayed:

• Name: Enter a descriptive name

SIP Entity 1: Select the SIP Entity for Session Manager
 Protocol: Select the transport protocol used for this link

• **Port:** Port number on which Session Manager will receive SIP requests

from the far-end. Default listen port is **5060**

• **SIP Entity 2:** Select the name of the other system. Select the CS1000E or Avaya

SBCE defined in **Section 6.5**

• Port: Port number on which the other system receives SIP requests from the

Session Manager. Default listen port is **5060**

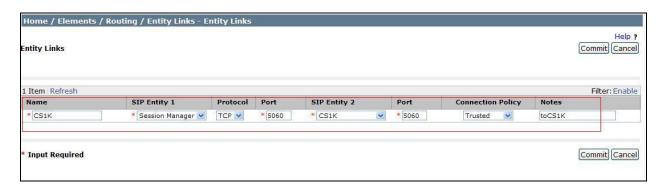
• **Trusted:** Select Trusted from the drop-down menu. **Note**: If this box is not

checked, calls from the associated SIP Entity specified in **Section 6.5**

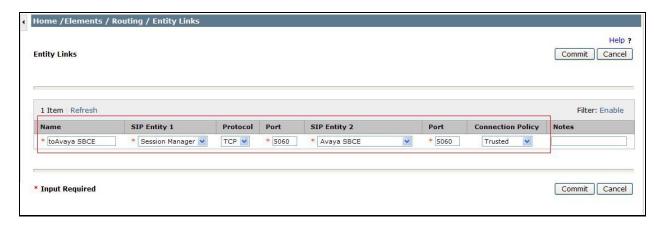
will be challenged or denied

Click **Commit** to save. The following screens illustrate the Entity Links to the CS1000E and the Avaya SBCE.

Entity Link to CS1000E.



Entity Link to Avaya SBCE.



6.7. Define Routing Policies

Routing policies describe the conditions under which calls will be routed to the CS1000E from either a SIP endpoint registered to Session Manager or from another telephony system. It also describes the routing policies for which calls will be routed to the Avaya SBCE and therefore to Ventelo's SIP network. To add a routing policy, Expand **Elements** \rightarrow **Routing** and select **Routing Policies.** Click **New** (not shown). In the **General** section, enter the following values.

• Name Enter an identifier to define the routing policy

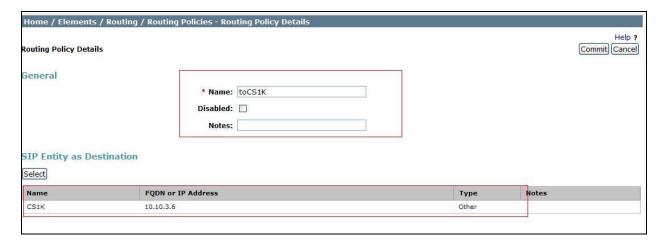
• **Disabled** Leave unchecked

• **Notes** Enter a brief description [Optional]

In the **SIP Entity as Destination** section, click **Select.** The **SIP Entity List** page opens (not shown). For the routing policy to the CS1000E, select the SIP Entity associated with CS1000E defined in **Section 6.5** and click **Select.** The selected SIP Entity displays on the **Routing Policy Details** page. Use default values for remaining fields. Click **Commit** to save Routing Policy definition.

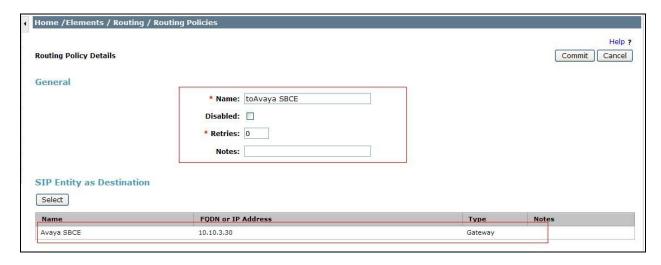
Note: The routing policy defined in this section is an example and was used in the sample configuration. Other routing policies may be appropriate for different customer networks.

The following screenshot shows the Routing Policy for CS1000E.



For the routing policy to the Avaya SBCE – Ventelo's SIP Trunk, select the SIP Entity associated with Avaya SBCE defined in **Section 6.5** and click **Select**. The selected SIP Entity displays on the **Routing Policy Details** page. Use default values for remaining fields. Click **Commit** to save Routing Policy definition.

The following screenshot shows the Routing Policy for the Avaya SBCE – Ventelo's SIP Trunk.



6.8. Define Dial Patterns

Dial Patterns are needed to route calls through Session Manager. For the compliance test, dial patterns were needed to route calls from the CS1000E to Ventelo and vice versa. Dial Patterns define which route policy will be selected for a particular call based on the dialed digits, destination domain and originating location. To add a dial pattern, navigate to **Routing** \rightarrow **Dial Patterns** in the left-hand navigation pane and click on the **New** button in the right pane (not shown). Fill in the following, as shown in the screens below. In the **General** section, enter the following values. Use default values for all remaining fields:

• Pattern: Enter a dial string that will be matched against the Request-URI of

the call

Min: Enter a minimum length used in the match criteria
 Max: Enter a maximum length used in the match criteria
 SIP Domain: Enter the destination domain used in the match criteria

• **Notes:** Add a brief description (optional)

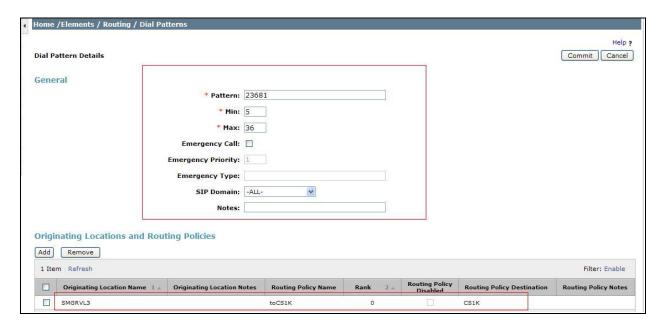
In the **Originating Locations and Routing Policies** section, click **Add**. From the **Originating Locations and Routing Policy List** that appears (not shown), select the appropriate originating location for use in the match criteria.

Originating Locations Select –SMGRVL3

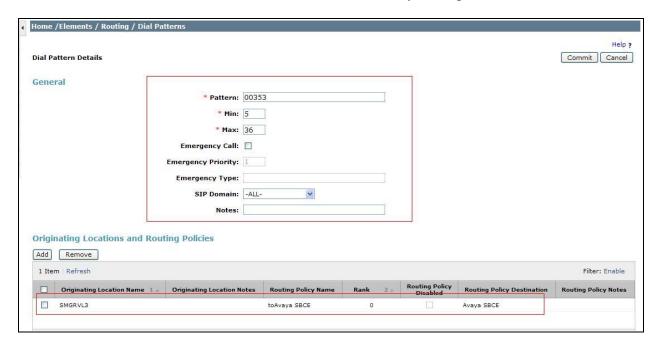
• Routing Policies Select the required Routing Policy defined in Section 6.7

Two examples of dial patterns used for the compliance test are shown below. This Session Manager is shared between two test environments.

The first example shows that minimum 5 digit dialed numbers that begin with 23681 originating from SMGRVL3 uses route policy to CS1K. This will allow DID numbers assigned to the enterprise from Ventelo SIP Trunk Service to route to CS1000E.



The second example shows that a minimum 5 digit dialed number that begins with 00353 originating from SMGRVL3 uses route policy toAvaya SBCE. This will allow outbound calls to route from the CS1000E to PSTN test numbers in the Avaya enterprise lab.



7. Configure Avaya Session Border Controller for Enterprise

This section describes the configuration of the Avaya Session Border Controller for Enterprise. The Avaya SBCE is administered using the UC-Sec Control Center.

7.1. Access Avaya Session Border Controller for Enterprise

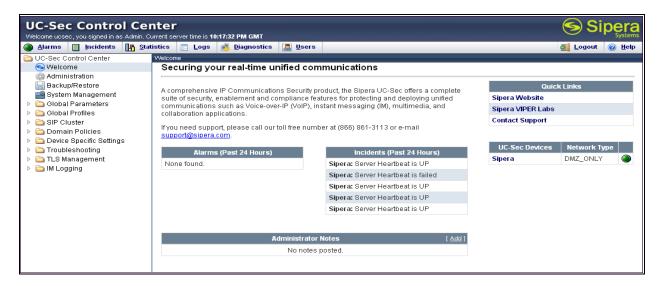
Access the Avaya SBCE using a web browser by entering the URL https://<ip-address>, where <ip-address> is the management IP address configured at installation. Select the UC-Sec Control Center.



Log in with the appropriate credentials. Click Sign In.



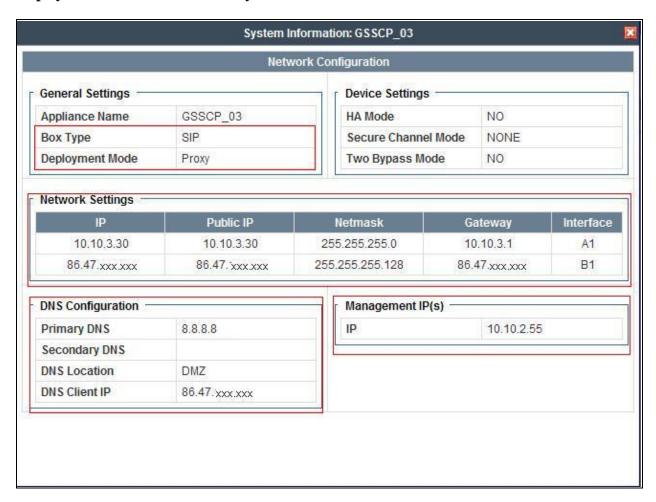
The main page of the UC-Sec Control Center will appear.



To view system information that was configured during installation, navigate to UC-Sec Control Center → System Management. A list of installed devices is shown in the right pane. In the case of the sample configuration, a single device named Avaya SBCE is shown. To view the configuration of this device, click the monitor icon (the third icon from the right).



The **System Information** screen shows the **Network Settings, DNS Configuration** and **Management IP** information provided during installation. The **Box Type** was set to **SIP** and the **Deployment Mode** was set to **Proxy**. Default values were used for all other fields.



7.2. Global Profiles

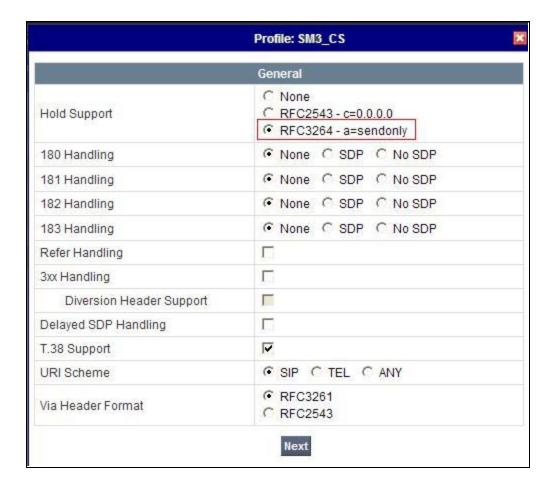
When selected, Global Profiles allows for configuration of parameters across all UC-Sec appliances.

7.2.1. Server Interworking - Avaya Side

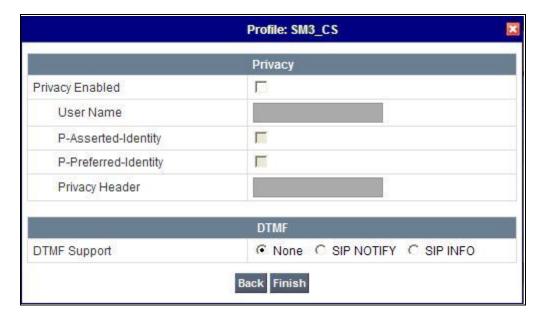
Server Internetworking configures and manages various SIP call server specific capabilities such as call hold and T.38. Navigate to **Global Profiles Server Interworking** and click on **Add Profile** (Not Shown).

- Enter profile name such as **SM3_CS** and click **Next** (Not Shown)
- Check Hold Support= RFC3264 a=sendonly
- Check **T.38 Support** (not required but checked to avoid restriction on Avaya SBCE)
- All other options on the **General** Tab can be left at default

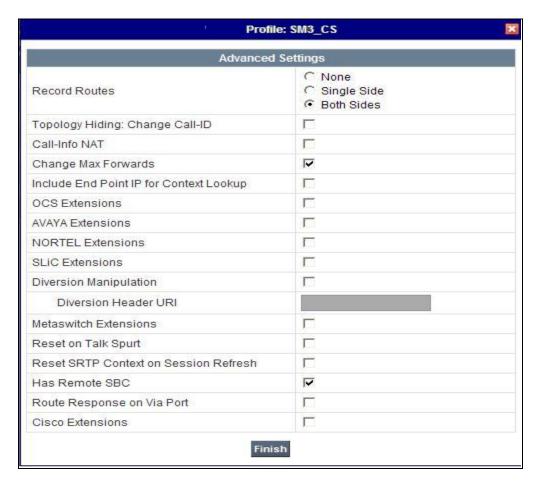
Click **Next** to continue.



Default values can be used for the next window that appears. Click **Finish**.



Default values can be used for the Advanced Settings window. Click Finish.



7.2.2. Server Interworking – Ventelo Side

Server Internetworking configures and manages various SIP call server specific capabilities such as call hold and T.38. Navigate to **Global Profiles Server Interworking** and click on **Add Profile** (Not Shown).

- Enter profile name such as **SP_Trunk** and click **Next** (Not Shown).
- Check Hold Support= RFC3264 a=sendonly
- Check **T.38 Support** (not required but checked to avoid restriction on Avaya SBCE)
- All other options on the **General** Tab can be left at default

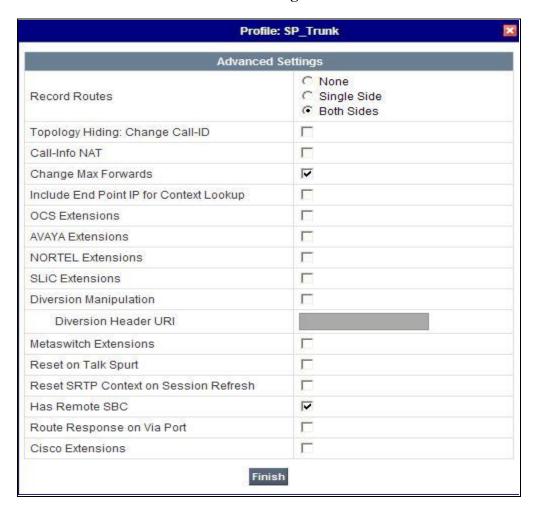
Click **Next** to continue.



Default values can be used for the next window that appears. Click **Finish**.



Default values can be used for the **Advanced Settings** window. Click **Finish**.



7.2.3. **Routing**

Routing profiles define a specific set of packet routing criteria that are used in conjunction with other types of domain policies to identify a particular call flow and thereby ascertain which security features will be applied to those packets. Parameters defined by Routing Profiles include packet transport settings, name server addresses and resolution methods, next hop routing information, and packet transport types.

In the new window that appears, enter the following values. Use default values for all remaining fields:

• **URI Group:** Select "*" from the drop down box

• Next Hop Server 1: Enter the Domain Name or IP address of the

Primary Next Hop server

• Next Hop Server 2: (Optional) Enter the Domain Name or IP address of

the secondary Next Hop server

• Routing Priority Based on

Next Hop Server: Checked

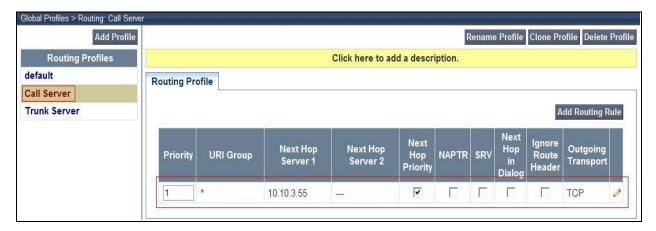
• Use Next Hop for

In-Dialog Messages: Select only if there is no secondary Next Hopserver
 Outgoing Transport: Choose the protocol used for transporting outgoing

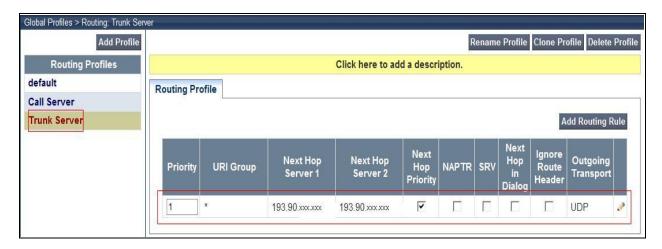
signaling packets

Click Finish.

The following screen shows the Routing Profile to Session Manager. The **Next Hop Server 1** IP address must match the IP address of the Session Manager Security Module in **Section 6.9**. The Outgoing Transport and port number must match the Avaya SBCE Entity Link created on Session Manager in **Section 6.6**.



The following screen shows the Routing Profile to Ventelo.



7.2.4. **Server - Configuration**

The **Server Configuration** screen contains four tabs: **General**, **Authentication**, **Heartbeat**, and **Advanced**. Together, these tabs configure and manage various SIP call server specific parameters such as TCP and UDP port assignments, IP Server type, heartbeat signaling parameters and some advanced options.

7.2.4.1 Server - Configuration - Avaya Side

To add a Server Configuration Profile for Session Manger navigate to UC-Sec Control Center

Global Profiles

Server Configuration and click on Add Profile (not shown). In the new window that appears, enter the following values. Use default values for all remaining fields:

• Server Type: Select Call Server from the drop-down box

• IP Addresses /

Supported FQDNs: Enter the IP address of the Session Manager signaling

interface. This should match the IP address of the Session

Manager Security Module in Section 6.5

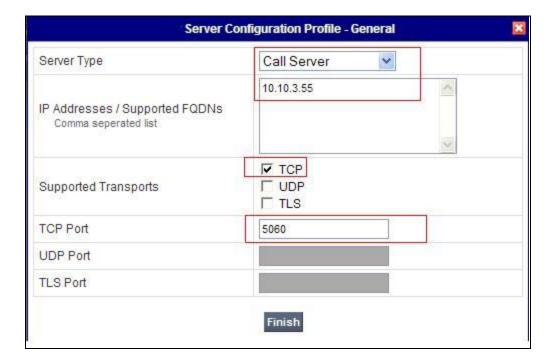
• Supported Transports: Select the transport protocol used to create the Avaya

SBCE Entity Link on Session Manager in Section 6.6

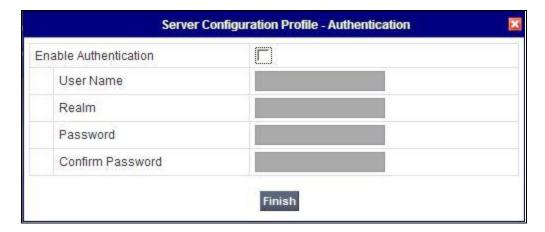
• TCP Port: Port number on which to send SIP requests to Session

Manager. This should match the port number used in the Avaya SBCE Entity Link on Session Manager in **Section 6.6**

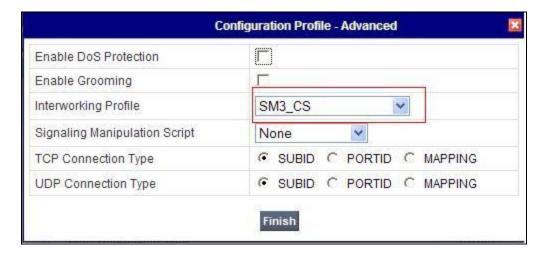
Click **Finish** to continue.



In the new window that appears, verify **Enable Authentication** is unchecked as Session Manager does not require authentication. Click **Finish.**



In the new window that appears, select the **Interworking Profile** created for the enterprise in **Section 7.2.1**. Use default values for all remaining fields. Click **Finish** to save the configuration.



7.2.4.2 Server Configuration - Ventelo

To add a Server Configuration Profile for Session Manger navigate to UC-Sec Control Center

Global Profiles

Server Configuration and click on Add Profile (not shown). In the new window that appears, enter the following values. Use default values for all remaining fields:

• Server Type: Select Trunk Server from the drop-down box

• IP Addresses /

Supported FQDNs: Enter the IP address(es) of the SIP proxy(ies) of the service

provider. This will associate the inbound SIP messages from

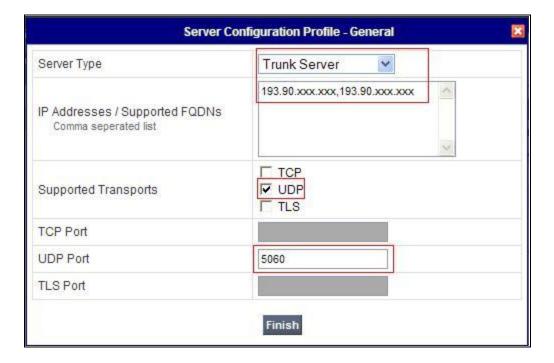
Ventelo to this Sever Configuration

• Supported Transports: Select the transport protocol to be used for SIP traffic

between Avaya SBCE and Ventelo

• **UDP Port:** Enter the port number that Ventelo uses to send SIP traffic

Click Finish to continue.



In the new window that appears, verify **Enable Authentication** is unchecked as Ventelo does not require authentication. Click **Finish**.



In the new window that appears, select the **Interworking Profile** created for Ventelo in **Section 7.2.2**. Use default values for all remaining fields. Click **Finish** to save the configuration.



7.2.5. Topology Hiding – Avaya Side

The **Topology Hiding** screen manages how various source, destination and routing information in SIP and SDP message headers are substituted or changed to maintain the integrity of the network. It hides the topology of the enterprise network from external networks. Navigate to **Global Profiles Topology Hiding** (not shown).

- Click **default** profile and select **Clone Profile** (not shown)
- Enter Profile Name : SM3_CS
- Under the **Header** field for **To, From** and **Request Line**, select **IP/Domain** under **Criteria** and **Overwrite** under **Replace Action**. For **Override Value** type **avaya.com**
- Click **Finish** (not shown)

The screen below is a result of the details configured above.



7.2.6. Topology Hiding – Ventelo Side

The **Topology Hiding** screen manages how various source, destination and routing information in SIP and SDP message headers are substituted or changed to maintain the integrity of the network. It hides the topology of the enterprise network from external networks. Navigate to **Global Profiles Topology Hiding** (not shown).

- Click **default** profile and select **Clone Profile** (not shown)
- Enter Profile Name : **SP Trunk**
- For the Header To, From and Request Line select IP/Domain under Criteria and Next Hop under Replace Action
- Click **Finish** (not shown)

The screen below is a result of the details configured above.



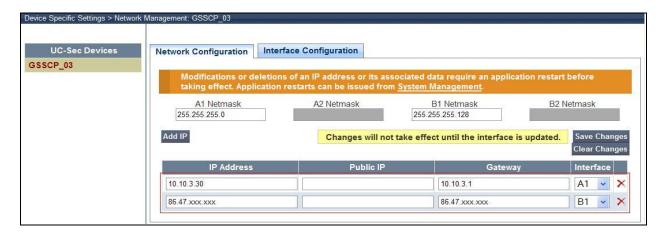
7.3. Device Specific Settings

The Device Specific Settings feature allows aggregation of system information to be viewed, and various device-specific parameters to be managed to determine how a particular device will function when deployed in the network.

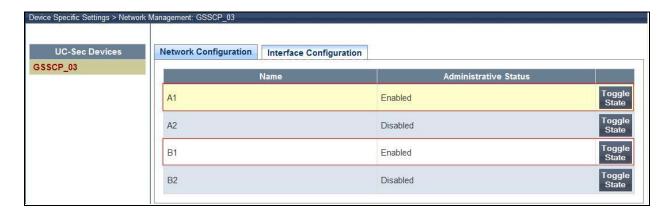
7.3.1. **Network Management**

The Network Management screen is where the network interface settings are configured and enabled. During the installation process of the Avaya SBCE, certain network-specific information is defined such as device IP address(es), public IP address(es), netmask, gateway, etc. to interface the device to the network. It is this information that populates the various Network Management tab displays, which can be edited as needed to optimize device performance and network efficiency.

Navigate to UC-Sec Control Center \rightarrow Device Specific Settings \rightarrow Network Management and verify the IP addresses assigned to the interfaces and that the interfaces are enabled. The following screen shows the private interface is assigned to A1 and the external interface is assigned to B1.



Select the **Interface Configuration** Tab and use the **Toggle State** button to enable or disable the network interfaces.



7.3.2. **Media Interface**

The Media Interface screen allows the IP address and ports to be set for transporting Media over the SIP trunk. The Avaya SBCE listens for SIP media on the defined ports.

To create a new Media Interface, navigate to UC-Sec Control Center → Device Specific

Settings → Media Interface and click Add Media Interface

• Select Add Media Interface

Name: Int_Media

• Media IP: 10.10.3.30 (Internal address for calls toward CS1000E)

• Port Range: 35000-40000

Click Finish

• Select Add Media Interface

• Name: Ext_Media

• Media IP: 86.47.xxx.xxx (External address for calls toward Ventelo)

• Port Range: 35000-40000

• Click Finish

The following screen shows the Media Interfaces created in the sample configuration for the inside and outside IP interfaces. After the Media Interfaces are created, an application restart is necessary before the changes will take effect.



7.3.3. Signalling Interface

The Signalling Interface screen allows the IP Address and ports to be set for transporting signaling messages over the SIP trunk. The Avaya SBCE listens for SIP requests on the defined ports. Create a Signaling Interface for both the inside and outside IP interfaces. To create a new Signaling Interface, navigate to UC-Sec Control Center → Device Specific Settings → Signaling Interface and click Add Signaling Interface

• Name: Int_Sig

• **Signaling IP**: **10.10.3.30** (Internal address for calls toward CS1000E)

TCP Port: 5060
 UDP Port: 5060
 Click Finish

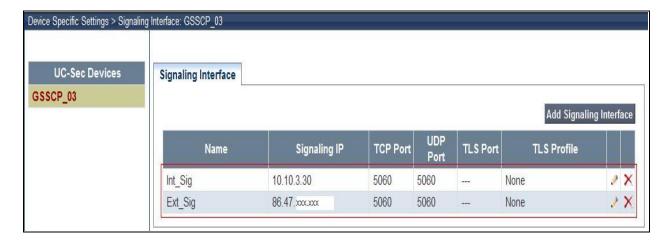
• Select Add Signaling Interface

Name: Ext_Sig

• **Signaling IP: 86.47.xxx.xxx** (External address for calls toward Ventelo)

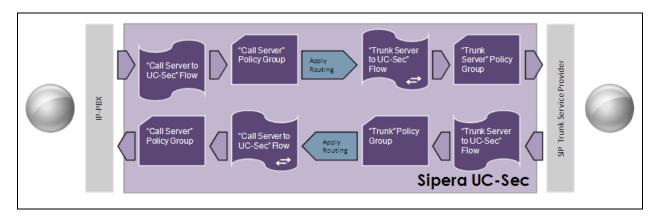
TCP Port: 5060UDP Port: 5060Click Finish

The following screen shows the signaling interfaces created in the sample configuration for the inside and outside IP interfaces.



7.3.4. End Point Flows

When a packet is received by UC-Sec, the content of the packet (IP addresses, URIs, etc.) is used to determine which flow it matches. Once the flow is determined, the flow points to a policy which contains several rules concerning processing, privileges, authentication, routing, etc. Once routing is applied and the destination endpoint is determined, the policies for this destination endpoint are applied. The context is maintained, so as to be applied to future packets in the same flow. The following screen illustrates the flow through the Avaya SBCE to secure a SIP Trunk call.



To create a Server Flow, navigate to UC-Sec Control Center \rightarrow Device Specific Settings \rightarrow End Point Flows. Select the Server Flows tab and click Add Flow (not shown).

• Flow Name: Enter a descriptive name

• **Server Configuration:** Select a Server Configuration created in **Section 7.2.4** to

assign to the Flow

• **Received Interface:** Select the Signaling Interface the Server Configuration is

allowed to receive SIP messages from

• **Signaling Interface:** Select the Signaling Interface used to communicate with

the Server Configuration

• Media Interface: Select the Media Interface used to communicate with the

Server Configuration.

• End Point Policy Group: Select the policy assigned to the Server Configuration

• Routing Profile: Select the profile the Server Configuration will use to route

SIP messages to

• **Topology Hiding Profile:** Select the profile to apply toward the Server Configuration

Click **Finish** to save and exit.

The following screen shows the Sever Flow for Session Manager.



The following screen shows the Sever Flow for Ventelo.



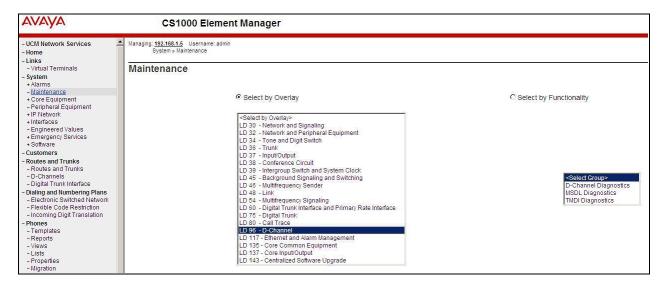
8. Ventelo SIP Service Provider Configuration

The setup for the use of Ventelo is by using the SIP trunk with an authenticated service. The configuration of Ventelo's authentication service to support the SIP trunk service is outside of the scope for these Application Notes and will not be covered. To obtain further information on Ventelo's equipment and system configuration please contact an authorized Ventelo representative.

9. Verification

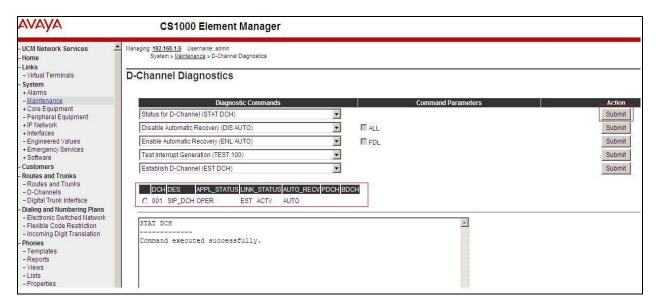
9.1. Verify Avaya Communication Server 1000E Operational Status

Expand **System** on the left navigation panel and select **Maintenance**. Select **LD 96 - D-Channel** from the **Select by Overlay** table and then **D-Channel Diagnostics** function from the table on the right-hand side as shown below.



Select **Status for D-Channel (STAT DCH)** command and click **Submit** to verify status of the virtual D-Channel as shown below. Verify the status of the following fields.

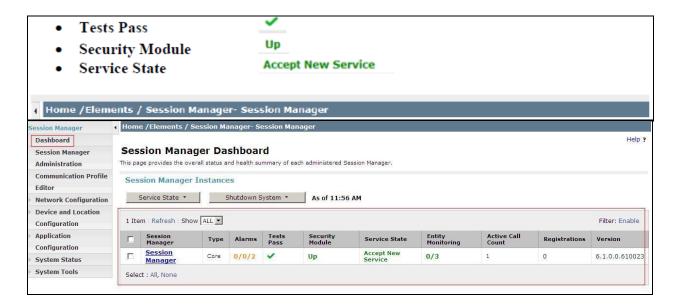
- APPL_STATUS Verify status is OPER
- LINK_STATUS Verify status is EST ACTV



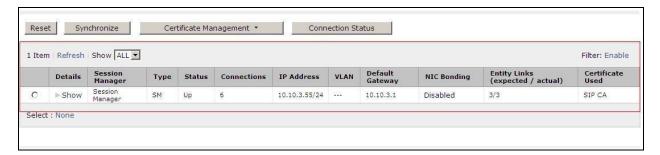
9.2. Verify Avaya Aura® Session Manager Operational Status

9.2.1. Verify Avaya Aura® Session Manager is Operational

Navigate to **Elements** → **Session Manager** → **Dashboard** (not shown) to verify the overall system status for Session Manager. Specifically, verify the status of the following fields as shown below.

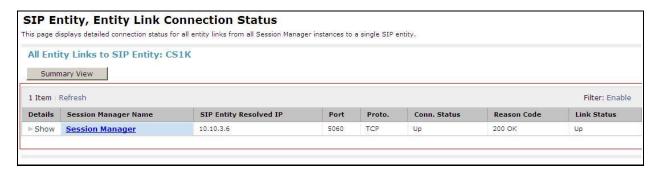


Navigate to Elements \rightarrow Session Manager \rightarrow System Status \rightarrow Security Module Status (not shown) to view more detailed status information on the status of Security Module for the specific Session Manager. Verify the Status column displays Up as shown below.



9.2.2. **Verify SIP Entity Link Status**

Navigate to Elements → Session Manager → System Status → SIP Entity Monitoring (not shown) to view more detailed status information for one of the SIP Entity Links. Select the SIP Entity for CS1000E from the All Monitored SIP Entities table (not shown) to open the SIP Entity, Entity Link Connection Status page. In the All Entity Links to SIP Entity: CS1K table, verify the Conn. Status for the link is Up as shown below.



Verify the status of the SIP link is **Up** between the Session Manager and the Avaya SBCE by going through the same process as outlined above but selecting the SIP Entity for the Avaya SBCE in the **All Monitored SIP Entities: Avaya SBCE** table.



9.2.3. Verify Avaya Aura® Session Manager Instance

The creation of a Session Manager Instance provides the linkage between System Manager and Session Manager. This was most likely done as part of the initial Session Manager installation. To add a Session Manager, navigate to **Elements** → **Session Manager** → **Session Manager** Administration in the left-hand navigation pane and click on the **new** button in the right pane (not shown). If the Session Manager instance already exists, click **View** (not shown) to view the configuration. Enter/verify the data as described below and shown in the following screen:

In the **General** section, enter the following values:

• SIP Entity Name: Select the SIP Entity created for Session

Manager

• **Description**: Add a brief description (optional)

• Management Access Point Host Name/IP: Enter the IP address of the Session Manager

management interface

The following screen shows the Session Manager values used for the compliance test.



In the **Security Module** section, enter the following values:

• SIP Entity IP Address: Should be filled in automatically based on the SIP Entity

Name. Otherwise, enter IP address of the Session Manager

signaling interface

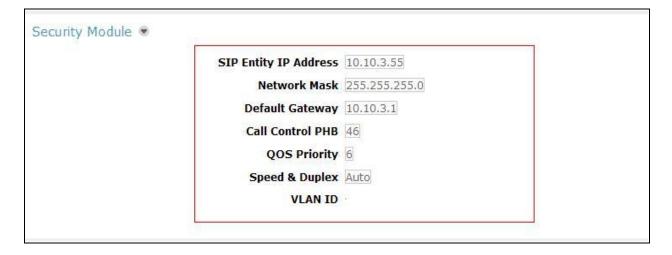
• Network Mask: Enter the network mask corresponding to the IP address of

Session Manager

• **Default Gate way**: Enter the IP address of the default gateway for Session

Manager

Use default values for the remaining fields. Click **Save** (not shown) to add this Session Manager. The following screen shows the Session Manager values used for the compliance test.



10. Conclusion

These Application Notes describe the configuration necessary to connect the Avaya CS1000E, Avaya Aura® Session Manager and Avaya Session Border Controller for Enterprise to Ventelo SIP Service. Interoperability testing of the sample configuration was completed with successful results for the Ventelo SIP Trunk service with observations which are detailed in **Section 2.2**.

11. Additional References

This section references the documentation relevant to these Application Notes. Additional Avaya product documentation is available at http://support.avaya.com.

- [1] Avaya Aura® Session Manager Overview, Doc ID 03-603323, available at http://support.avaya.com
- [2] Installing and Configuring Avaya Aura® Session Manager, available at http://support.avaya.com.
- [3] Avaya Aura® Session Manager Case Studies, available at http://support.avaya.com
- [4] *Maintaining and Troubleshooting Avaya Aura*® *Session Manager*, Doc ID 03-603325, available at http://support.avaya.com
- [5] Administering Avaya Aura® Session Manager, Doc ID 03-603324, available at http://support.avaya.com
- [6] *IP Peer Networking Installation and Commissioning*, Release 7.5, Document Number NN43001-313, available at http://support.avaya.com
- [7] Network Routing Service Fundamentals, Release 7.5, Document Number NN43001-130, Issue 03.02, available at http://support.avaya.com
- [8] Co-resident Call Server and Signaling Server Fundamentals, Avaya Communication Server 1000E Release 7.5, Document Number NN43001-509, available at http://support.avaya.com
- [9] Signaling Server and IP Line Fundamentals, Avaya Communication Server 1000E Release 7.5, Document Number NN43001-125, available at http://support.avaya.com
- [10] E-SBC (Avaya Session Border Controller for Enterprise) Administration Guide, November 2011
- [11] RFC 3261 SIP: Session Initiation Protocol, http://www.ietf.org/

Appendix A – Avaya Communication Server 1000E Software

```
Avaya Communication Server 1000E call server patches and plug ins
TID: 46379
VERSTON 4121
System type is - Communication Server 1000E/CPPM Linux
CPPM - Pentium M 1.4 GHz
IPMGs Registered:
IPMGs Unregistered:
IPMGs Configured/unregistered: 0
RELEASE 7
ISSUE 50 Q +
IDLE SET DISPLAY NORTEL
DepList 1: core Issue: 01 (created: 2012-05-16 12:51:18 (est))
MDP>LAST SUCCESSFUL MDP REFRESH :2012-06-06 15:58:07(Local Time)
MDP>USING DEPLIST ZIP FILE DOWNLOADED :2012-06-06 11:11:47 (est)
SYSTEM HAS NO USER SELECTED PEPS IN-SERVICE
LOADWARE VERSION: PSWV 100+
INSTALLED LOADWARE PEPS : 3
                                    NAME DATE FILENAME
MGCCCD02 24/04/2012 MGCCCD02.LW
DSP1AB04 24/04/2012 DSP1AB04.LW
MGCBBA15 24/04/2010
   PAT# CR #
0.0
                                                    24/04/2012 MGCBBA15.LW
ENABLED PLUGINS : 1
PLUGIN
         STATUS
                     PRS/CR NUM
                                   MPLR NUM
                                                 DESCRIPTION
501
         ENABLED
                     002138637
                                   MPT-R30070
                                                 Enables blind transfer to a SIP endpoint even
if SIP UPDATE is not supported by the far end
```

```
Avaya Communication Server 1000E call server deplists
VERSION 4121
RELEASE 7
DepList 1: core Issue: 01 (created: 2012-07-16 17:52:47 (est)) ALTERED
IN-SERVICE PEPS
                         PATCH REF # NAME DATE FILENAME
ISS1:10F1 p31051_1 11/10/2012 p31051_1.cp1
ISS1:10F1 p31485_1 11/10/2012 p31485_1.cp1
                                                              DATE
PAT# CR #
                                                                                                    SPECINS
000 wi00891626
                                                                                                    YES
001 wi00951837
                                                                                                   NO
                          ISS1:10F1
                                                p31426_1 11/10/2012 p31426_1.cpl
002 wi00946477
                                             p31426_1 11/10/2012 p31426_1.cp1
p31205_1 11/10/2012 p31205_1.cp1
p31580_1 11/10/2012 p31580_1.cp1
p30880_1 11/10/2012 p30880_1.cp1
p30698_1 11/10/2012 p30698_1.cp1
p31795_1 11/10/2012 p31795_1.cp1
p31163_1 11/10/2012 p31163_1.cp1
p31009_1 11/10/2012 p31009_1.cp1
003 wi00906163
                          ISS1:10F1
ISS1:10F1
ISS1:10F1
                                                                                                    NO
004 wi00962211
                                                                                                    NO
005 wi00877592
                                                                                                    NO
006 wi00839134
                          ISS1:10F1
                                                                                                    YES
007 wi00984888
008 wi00868729
                           ISS1:10F1
ISS1:10F1
                                                                                                    NO
                                                                                                    NO
                           ISS1:10F1
009 wi00886321
                                                                                                    NO
010 wi00946282
                                               p31204 1 11/10/2012 p31204 1.cpl
p30618 1 11/10/2012 p30618 1.cpl
                          ISS1:10F1
ISS1:10F1
ISS1:10F1
                                                                                                    NO
011 wi00841980
                                                 p31648 1 11/10/2012 p31648 1.cpl
012 wi00968448
                                                                                                    YES
013 wi00977002
                          ISS2:10F1
                                                p30786 2 11/10/2012 p30786 2.cpl
                                                                                                    NO
                                             p30731_1 11/10/2012 p30731_1.cpl
p31542_1 11/10/2012 p31542_1.cpl
                           ISS1:10F1
ISS1:10F1
014 wi00843623
                                                                                                    YES
015 wi00958776
                                                                                                    YES
                                                 p30893 1 11/10/2012 p30893 1.cpl
017 wi00865477
                          ISS1:10F1
```

1019 1010879626 TSSI : 10PT							
	018	wi00879526	ISS1:10F1	p31007 1	11/10/2012	p31007 1.cpl	NO
	019	wi00894243	ISS1:10F1	p31087 1		p31087 1.cpl	NO
022 wi00856991 TSSI:IOFI p17588 11/10/2012 p17588 1.cpl NO			-				
024 w10088381 TSS1:10FI p30106] 11/10/2012 p30106] NO 024 w10085473 ISS1:10FI p30625] 11/10/2012 p30625]. npl NO 025 w100853473 ISS1:10FI p30625] 11/10/2012 p30625]. npl NO 026 w10085423 TSS1:10FI p31625] 11/10/2012 p31402]. npl NO 028 w10085473 ISS1:10FI p31685] 11/10/2012 p31402]. npl NO 028 w10085477 ISS1:10FI p31685] 11/10/2012 p31402]. npl NO 028 w10085477 ISS1:10FI p30685] 11/10/2012 p30796]. npl NS 028 w10085477 ISS1:10FI p30685] 11/10/2012 p30796]. npl NS 028 w10085477 ISS1:10FI p30685] 11/10/2012 p30796]. npl NS 028 w10085477 ISS1:10FI p30856] 11/10/2012 p30796]. npl NS 028 w100854179 ISS1:10FI p30856] 11/10/2012 p30796]. npl NS 028 w10087479 ISS1:10FI p30856] 11/10/2012 p30796]. npl NS 028 w100874196 ISS1:10FI p30443] 11/10/2012 p30796]. npl NS 028 w100874196 ISS1:10FI p30443] 11/10/2012 p30796]. npl NS 028 w100874196 ISS1:10FI p30443] 11/10/2012 p30796]. npl NS 028 w10087424 ISS1:10FI p30443] 11/10/2012 p30796]. npl NS 028 w100874967 ISS1:10FI p31785] 11/10/2012 p30443]. npl NS 028 w10087499 ISS1:10FI p3182] 11/10/2012 p3182]. npl NS 028 w10087499 ISS1:10FI p3182] 11/10/2012 p3182]. npl NS 028 w10087499 ISS1:10FI p31866] 11/10/2012 p3182]. npl NS 028 w10087499 ISS1:10FI p30649] 11/10/2012 p30694]. npl NS 028 w10087499 ISS1:10FI p30649] 11/10/2012 p30694]. npl NS 028 w10087499 ISS1:10FI p30696] 11/10/2012 p30694]. npl NS 028 w10087499 ISS1:10FI p30696] 11/10/2012 p30696]. npl NS 028 w10087529 ISS1:10FI p30696] 11/10/2012 p30696]. npl NS 028 w10087529 ISS1:10FI p30696] 11/10/2012 p30696]. npl NS 028 w10087529 ISS1:10FI p30696] 11/10/2012 p							
028 w100851777							
026 026 026 026 027 027 028	023	wi00688381	ISS1:10F1	p30104_1	11/10/2012	p30104_1.cpl	NO
027 wi009542372 ISSI:10FI p31020 11/10/2012 p31328 1.0pl NO	024	wi00881777	ISS1:10F1	p25747 1	11/10/2012	p25747 1.cpl	NO
027 wi009542372 ISSI:10FI p31020 11/10/2012 p31328 1.0pl NO	0.25	WT00853473	ISS1:10F1	p30625 1	11/10/2012	p30625 1.cpl	NO
028 x100855477 ISSI:IOPI p31602_1 11/10/2012 p31698_1.qpl YES 029 x100850521 ISSI:IOPI p30709_1 11/10/2012 p30709_1.qpl YES 030 x100850521 ISSI:IOPI p30709_1 11/10/2012 p30709_1.qpl YES 031 x100871739 ISSI:IOPI p3136_1 11/10/2012 p30709_1.qpl NO 032 x100890327 ISSI:IOPI p3136_1 11/10/2012 p30856_1.qpl NO 033 x10089421 ISSI:IOPI p3086_1 11/10/2012 p3086_1.qpl NO 033 x100893921 ISSI:IOPI p3086_1 11/10/2012 p3066_1.qpl NO 033 x100893921 ISSI:IOPI p3086_1 11/10/2012 p30616_1.qpl NO 033 x1008913 BSI:IOPI p3086_1 11/10/2012 p30616_1.qpl NO 033 x1008913 BSI:IOPI p3086_1 11/10/2012 p3086_1.qpl NO 033 x1008913 BSI:IOPI p31830_1 11/10/2012 p31830_1.qpl NO 034 x1008913 BSI:IOPI p31830_1 11/10/2012 p31830_1.qpl NO 037 x100946876 ISSI:IOPI p31830_1 11/10/2012 p31830_1.qpl NO 038 x10089990 ISSI:IOPI p31876_1 11/10/2012 p31830_1.qpl NO 039 x10089990 ISSI:IOPI p31876_1 11/10/2012 p31876_1.qpl NO 040 x100875425 ISSI:IOPI p31876_1 11/10/2012 p30876_1.qpl NO 040 x100875425 ISSI:IOPI p30986_1 11/10/2012 p30876_1.qpl NO 040 x10085434 ISSI:IOPI p30686_1 11/10/2012 p30876_1.qpl NO 040 x100857425 ISSI:IOPI p30686_1 11/10/2012 p30876_1.qpl NO 040 x100875425 ISSI:IOPI p30686_1 11/10/2012 p3086_1.qpl NO 040 x100875425 ISSI:IOPI p30686_1 11/10/2012 p3086_1.qpl NO 040 x100875425 ISSI:IOPI p30866_1 11/10/2012 p3086_1.qpl NO 040 x100875425 ISSI:IOPI p30866_1 11/10/2012 p3086_1.qpl NO 040 x100875425 ISSI:IOPI p3086_1 11/10/2012 p3086_1.qpl NO 040 x10087579 ISSI:IOPI p3086_1 11/10/2012 p3086_1.qpl NO 040 x100866477 ISSI:IOPI p3086_1 11/10/2012 p3086_1.qpl NO 040 x100866477 ISSI:IO							
028							
				_			
030 w100989327 ISSI:IOPI p3136 1 11/10/2012 p3136 1.cml NO 031 w100871739 ISSI:IOPI p30856 1 11/10/2012 p30856 1.cml NO 033 w10083921 ISSI:IOPI p31786 1 11/10/2012 p31786 1.cml NO 033 w100854330 ISSI:IOPI p30619 1 11/10/2012 p30619 1.cml NO 035 w1008791690 ISSI:IOPI p30443 1 11/10/2012 p30619 1.cml NO 035 w1008791690 ISSI:IOPI p30443 1 11/10/2012 p30768 1.cml NO 036 w100973241 ISSI:IOPI p31785 1 11/10/2012 p31785 1.cml NO 038 w1008843 ISSI:IOSI p31785 1 11/10/2012 p31785 1.cml NO 038 w101008843 ISSI:IOSI p31812 1 11/10/2012 p31813 1.cml NO 038 w101008843 ISSI:IOSI p3182 1 11/10/2012 p3182 1.cml NO 038 w101008843 ISSI:IOSI p3182 1 11/10/2012 p3182 1.cml NO 038 w101008843 ISSI:IOSI p31876 1 11/10/2012 p3182 1.cml NO 040 w100937673 ISSI:IOSI p31876 1 11/10/2012 p31876 1.cml NO 040 w100937673 ISSI:IOSI p31876 1 11/10/2012 p31876 1.cml NO 040 w100937673 ISSI:IOSI p31876 1 11/10/2012 p31876 1.cml NO 040 w100937673 ISSI:IOSI p31876 1 11/10/2012 p31876 1.cml NO 040 w100937673 ISSI:IOSI p31876 1 11/10/2012 p31876 1.cml NO 040 w100937508 ISSI:IOSI p30896 1 11/10/2012 p30846 1.cml NO 040 w100937508 ISSI:IOSI p30896 1 11/10/2012 p31876 1.cml NO 040 w100967509 ISSI:IOSI p31876 1 11/10/2012 p31876 1.cml NO 040 w100967509 ISSI:IOSI p31876 1 11/10/2012 p31876 1.cml NO 040 w100967509 ISSI:IOSI p31876 1 11/10/2012 p31876 1.cml NO 040 w100967509 ISSI:IOSI p31876 1 11/10/2012 p31871 1.cml NO 040 w100967509 ISSI:IOSI p31876 1 11/10/2012 p31871 1.cml NO 040 w100967509 ISSI:IOSI p31876 1 11/10/2012 p31873 1.cml NO 040 w100967509 ISSI:IOSI p31876 1 11/10/2012 p31873 1.cml NO 040 w100967509 ISSI:IOSI p31876 1 11/10/2012 p31873 1.cml NO 040 w100975209 ISSI:IOSI p31876 1 11/10/2012 p31873 1.cml NO 040 w10097520 ISSI:IOSI p31876 1 11/10/2012 p31873 1.cml NO 040 w10097520 ISSI:IOSI p31876 1 11/10/2012 p31876 1.cml NO 040 w10097520 ISSI:IOSI p31876 1 11/10/2012 p31876 1.cml NO 040 w10097521 ISSI:IOSI p31861 1.cml NO 040 w10097521 ISSI:IOSI p31866 1 11/10/2012 p31876 1.cml NO 040 w10097524 ISSI:IOSI p31866 1 11/10/2012 p31876 1.cml NO 040 w1							
032 w100981718	029	wi00850521	ISS1:10F1	p30709_1	11/10/2012	p30709_1.cpl	YES
033 w100984178	030	wi00898327	ISS1:10F1	p31136 1	11/10/2012	p31136 1.cpl	NO
033 w100984178	031	wi00871739	ISS1:10F1	p30856 1	11/10/2012	p30856 1.cpl	NO
033 wi00839821							
034 w100854130							
036 wi00973241 SS1:10F1 p30768] 1 11/10/2012 p31765] 1.cpl NO				-		-	
036 wi00973241 ISSI:10F1 p31715 11/10/2012 p31715 p1 NO							
037 wi00946876							
038 wi01008943 TSSI:IOFI						-	
038 wi01008943 TSSI:IOFI	037	wi00946876	ISS1:10F1	p31430 1	11/10/2012	p31430 1.cpl	NO
039 wi00969990	038	wi01008943	ISS1:10F1		11/10/2012		NO
040 wi00937672 ISS1:10F1							
041 wi00875425							
042 wi00862574 issl:lofl							
043 wi00859499							
044 wi00925208				-		-	
045 wi00965285 ISSI:10F1 p31476 11/10/2012 p31476 1.cpl NO	043	wi00859499	ISS1:10F1		11/10/2012	p30694 1.cpl	NO
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047				-			
048							
049							
050 wi00865477 ISS1:10F1 p30894 11/10/2012 p30894 1.cpl NO							
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191 wi00984652 ISS1:10F1 p31792_1 11/10/2012 p31792_1.cpl NO 192 wi00967514 ISS1:10F1 p31351_1 11/10/2012 p31351_1.cpl NO 193 wi00978818 ISS1:10F1 p31919_1 11/10/2012 p31919_1.cpl NO 194 WI00980321 ISS1:10F1 p31912_1 11/10/2012 p31912_1.cpl YES 195 wi00999802 ISS1:10F1 p31577_1 11/10/2012 p31577_1.cpl NO 196 wi01008316 ISS1:10F1 p32026_1 11/10/2012 p32026_1.cpl YES 197 wi001003384 ISS1:10F1 p31479_1 11/10/2012 p31479_1.cpl NO 198 wi01003999 ISS1:10F1 p31946_1 11/10/2012 p31946_1.cpl YES 199 wi01011078 ISS1:10F1 p31946_1 11/10/2012 p31946_1.cpl NO 200 wi01016398 ISS1:10F1 p31996_1 11/10/2012 p31996_1.cpl NO 201 wi00973270 ISS1:10F1 p31751_1 11/10/2012 p31751_1.cpl NO 202 wi00981711 ISS1:10F1 p31766_1 11/10/2012 p31766_1.cpl NO 203 wi00977978 ISS1:10F1 p31889_1 11/10/2012 p31889_1.cpl NO 204 wi00992974 ISS1:10F1 p31889_1 11/10/2012 p31889_1.cpl NO	
192 wi00967514 ISS1:10F1 p31351_1 11/10/2012 p31351_1.cpl NO 193 wi00978818 ISS1:10F1 p31919_1 11/10/2012 p31919_1.cpl NO 194 WI00980321 ISS1:10F1 p31912_1 11/10/2012 p31912_1.cpl YES 195 wi00999802 ISS1:10F1 p31577_1 11/10/2012 p31577_1.cpl NO 196 wi01008316 ISS1:10F1 p32026_1 11/10/2012 p32026_1.cpl YES 197 wi01003384 ISS1:10F1 p31479_1 11/10/2012 p31479_1.cpl NO 198 wi01003999 ISS1:10F1 p31946_1 11/10/2012 p31946_1.cpl YES 199 wi01011078 ISS1:10F1 p31996_1 11/10/2012 p31946_1.cpl NO 200 wi01016398 ISS1:10F1 p31996_1 11/10/2012 p31996_1.cpl NO 201 wi00973270 ISS1:10F1 p31751_1 11/10/2012 p31751_1.cpl NO 202 wi00981711 ISS1:10F1 p31766_1 11/10/2012 p31766_1.cpl NO 203 wi00977978 ISS1:10F1 p31831_1 11/10/2012 p31831_1.cpl NO 204 wi00992974 ISS1:10F1 p31889_1 11/10/2012 p31889_1.cpl NO	
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199 wi01011078	
199 wi01011078 ISS1:10F1 p31996_1 11/10/2012 p31996_1.cpl NO 200 wi01016398 ISS1:10F1 p32019_1 11/10/2012 p32019_1.cpl NO 201 wi00973270 ISS1:10F1 p31751_1 11/10/2012 p31751_1.cpl NO 202 wi00981711 ISS1:10F1 p31766_1 11/10/2012 p31766_1.cpl NO 203 wi00977978 ISS1:10F1 p31831_1 11/10/2012 p31831_1.cpl NO 204 wi00992974 ISS1:10F1 p31889_1 11/10/2012 p31889_1.cpl NO	
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203 wi00977978 ISS1:10F1 p31831_1 11/10/2012 p31831_1.cpl NO 204 wi00992974 ISS1:10F1 p31889_1 11/10/2012 p31889_1.cpl NO	
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205 wi00980476 ISS1:10F1 p31387 1 11/10/2012 p31387 1.cpl NO	
206 wi01008106 ISS1:10F1 p31861 1 11/10/2012 p31861 1.cpl NO	
207 wi00906350 ISS1:10F1 p31219 1 11/10/2012 p31219 1.cpl NO	
208 wi01006063 ISS1:10F1 p31957_1 11/10/2012 p31957_1.cpl NO	
209 wi00971980 ISS1:10F1 p31863_1 11/10/2012 p31863_1.cpl NO	
210 wi01020959 ISS1:10F1 p32062_1 11/10/2012 p32062_1.cpl NO	
211 wi01011537 ISS1:10F1 p32024 1 11/10/2012 p32024 1.cpl NO	
212 wi01008505 ISS1:10F1 p31968 1 11/10/2012 p31968 1.cpl NO	
213 wi01014835 ISS1:10F1 p32015 1 11/10/2012 p32015 1.cpl NO	
214 wi00983007 ISS1:10F1 p31778 1 11/10/2012 p32778 1.cpl YES	
215 wi00987424 ISS1:10F1 p31815_1 11/10/2012 p31815_1.cpl NO	
216 wi00997559 ISS1:10F1 p31898_1 11/10/2012 p31898_1.cpl NO	
217 wi01012638 ISS1:10F1 p32008_1 11/10/2012 p32008_1.cpl NO	
218 wi00985153 ISS1:10F1 p31859 1 11/10/2012 p31859 1.cpl NO	
219 wi00979591 ISS1:10F1 p31746 1 11/10/2012 p31746 1.cpl NO	
220 wi00978892 ISS1:10F1 p31894 1 11/10/2012 p31894 1.cpl NO	
222 wi00994044 ISS1:10F1 p31871 1 11/10/2012 p31871 1.cpl NO	
223 wi00991892 ISS1:10F1 p31853_1 11/10/2012 p31853_1.cpl NO	
224 wi00974856 ISS1:10F1 p31823 1 11/10/2012 p31823 1.cpl NO	
225 wi00993377 ISS1:10F1 p31860 1 11/10/2012 p31860 1.cpl NO	
226 wi00982566 ISS1:10F1 p31774 1 11/10/2012 p31774 1.cpl NO	
227 wi00993743 ISS1:10F1 p31865_1 11/10/2012 p31865_1.cpl NO	
228 wi00944019 ISS1:10F1 p31874 1 11/10/2012 p31874 1.cpl NO	
229 wi00998328 ISS1:10F1 p31899_1 11/10/2012 p31899_1.cpl NO	

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230 wi01008188
                     ISS1:10F1
                                   p32020 1 11/10/2012 p32020 1.cpl
                                 p31809_1 11/10/2012 p31809_1.cpl
231 wi00987089
                     ISS1:10F1
                                                                            NO
                                    p31748 1
                                     p31748_1 11/10/2012 p31748_1.cpl
p31967_1 11/10/2012 p31967_1.cpl
    wi00979414
                     ISS1:10F1
233 wi01006811
                     TSS1:10F1
                                                                            YES
                   p31274
234 wi01012289
                                     p31999 1 11/10/2012 p31999 1.cpl
                                                                            NO
                                    p31750_1 11/10/2012 p31750_1.cpl
p31870_1 11/10/2012 p31870_1.cpl
235 wi00971209
                     ISS1:10F1
                                                                            NO
236 wi00997316
                     ISS1:10F1
                                                                            NO
                                    p31825 1 11/10/2012 p31825 1.cpl
                    ISS1:10F1
237 wi00990993
                     ISS1:10F1
238 wi00977436
                                    p31834_1 11/10/2012 p31834_1.cpl
p31921_1 11/10/2012 p31921_1.cpl
                                                                            NO
                                     p31921_1 11/10/2012 p31921_1.cpl
p26155_1 11/10/2012 p26155_1.cpl
239 wi01001938
                     ISS1:10F1
                                                                            YES
240 wi01012423
                     ISS1:10F1
                                                                            NO
                    ISS1:10F1
241 wi01010472
                                    p31975 1 11/10/2012 p31975 1.cpl
                                    p31800_1 11/10/2012 p31800_1.cpl
p31869_1 11/10/2012 p31869_1.cpl
242 wi01000796
243 wi00981928
                     ISS1:10F1
ISS1:10F1
                                                                            NΟ
                                                                            NO
                                     p31878 1 11/10/2012 p31878 1.cpl
244 wi00992921
                     ISS1:10F1
                                                                            NO
245 wi01001588
                     ISS1:10F1
                                     p31976 1 11/10/2012 p31976 1.cpl
                                                                            NO
246 wi00976951 ISS1:10F1 p30112_1 11/10/2012 p30112_1.cp1 MDP>LAST SUCCESSFUL MDP REFRESH :2012-10-02 13:46:39(Local Time)
MDP>USING DEPLIST ZIP FILE DOWNLOADED :2012-08-20 11:29:05 (est)
            Avaya Communication Server 1000E signaling server service updates
Product Release: 7.50.17.00
In system patches: 1
PATCH# NAME
                   IN SERVICE
                                DATE
                                           SPECINS TYPE
        p27159 1
                                13/04/12 NO
                                                    FRU
                                                           cs1000-pi-control-1.00.00.00-00.noarch
                   Yes
In System service updates: 31
PATCH# IN SERVICE DATE
                                SPECINS
                                           REMOVABLE NAME
                                           YES
                                NO
0
        Yes
                     09/10/12
                                                       cs1000-vtrk-7.50.17.16-105.i386.000
1
        Yes
                     02/10/12
                                NO
                                           YES
                                                       cs1000-patchWeb-7.50.17.16-9.i386.000
3
                     20/01/12
                                           YES
                                                      cs1000-dbcom-7.50.17-02.i386.000
        Yes
5
                                           YES
                     20/01/12
                                                      cs1000-shared-pbx-7.50.17.16-1.i386.000
        Yes
                                NO
6
        Yes
                     20/01/12
                                NO
                                           YES
                                                       cs1000-kcv-7.50.17.16-1.i386.000
                                                      cs1000-nrsmWebService-7.50.17.16-1.i386.000
7
                     20/01/12
                                NO
                                          YES
        Yes
                                          YES
8
        Yes
                     02/10/12
                                NO
                                                      cs1000-linuxbase-7.50.17.16-11.i386.000
9
        Yes
                     02/10/12
                                YES
                                           YES
                                                       cs1000-baseWeb-7.50.17.16-2.i386.000
                                          YES
                                                      cs1000-ipsec-7.50.17.16-1.i386.000
                     20/01/12
1.0
        Yes
                                NO
                     02/10/12
                                                     avaya-cs1000-cnd-4.0.20-00.i386.000
11
        Yes
                                NO
                                           yes
12
        Yes
                     02/10/12
                                NO
                                           YES
                                                      cs1000-pd-7.50.17.16-1.i386.000
                     02/10/12
                                           YES
                                                       cs1000-ncs-7.50.17.16-1.i386.000
13
        Yes
                                NO
                     20/01/12
                                           YES
                                                       ipsec-tools-0.6.5-14.el5.3 avaya 1.i386.000
14
        Yes
                                NO
15
        Yes
                     20/01/12
                                NO
                                          YES
                                                      spiritAgent -6.1-1.0.0.108.208.i386.000
17
        Yes
                     02/10/12
                                NO
                                           YES
                                                      cs1000-EmCentralLogic-7.50.17.16-2.i386.000
                                          YES
                     02/10/12
                                                       cs1000-tps-7.50.17.16-21.i386.000
18
        Yes
                                NO
19
        Yes
                     02/10/12
                                          YES
                                                      cs1000-ftrpkg-7.50.17.16-10.i386.000
                     02/10/12
                                                       cs1000-cs1000WebService_6-0-7.50.17.16-
2.0
                                          YES
        Yes
                               NO
1.i386.000
                                NO
21
                     02/10/12
                                           YES
                                                      cs1000-mscMusc-7.50.17.16-11.i386.000
        Yes
                                          YES
22
        Yes
                     02/10/12
                                NO
                                                      cs1000-mscAnnc-7.50.17.16-10.i386.000
24
        Yes
                     27/03/12
                                           YES
                                                       cs1000-mscTone-7.50.17.16-1.i386.000
                                                       cs1000-csoneksvrmgr-7.50.17.16-1.i386.000
                     02/10/12
                                          YES
2.7
        Yes
                                NO
30
        Yes
                     27/03/12
                                NO
                                           YES
                                                      cs1000-sps-7.50.17.16-4.i386.000
                                          YES
                     02/10/12
                                                      cs1000-nrsm-7.50.17.16-4.i386.000
35
        Yes
                                YES
36
        Yes
                     02/10/12
                                NO
                                           YES
                                                       cs1000-csmWeb-7.50.17.16-6.i386.000
                     02/10/12
                                                       cs1000-mscConf-7.50.17.16-1.i386.000
37
                                           YES
                                NO
        Yes
38
                     02/10/12
                                          YES
                                                      cs1000-emWeb 6-0-7.50.17.16-34.i386.000
        Yes
                               NO
39
                     02/10/12
                                NO
                                           YES
                                                       cs1000-dmWeb-7.50.17.16-5.i386.000
        Yes
40
        Yes
                     02/10/12
                                NO
                                           YES
                                                       cs1000-Jboss-Quantum-7.50.17.16-30.i386.000
41
        Yes
                     02/10/12
                                NO
                                           YES
                                                       cs1000-bcc-7.50.17.16-75.i386.000
                     02/10/12
                                           YES
                                                       cs1000-emWebLocal 6-0-7.50.17.16-3.i386.000
42
        Yes
                                NO
                    Avaya Communication Server 1000E system software
```

Base Applications

base

Product Release: 7.50.17.00

[patched]

7.50.17

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NTAFS
                                                        7.50.17
                                                      7.50.17
7.50.17
7.50.17
7.50.17
n/a
7.50.17
      cs1000-Auth
     Jboss-Quantum
                                                                                       [patched]
     lhmonitor
                                                                                      [patched]
     baseAppUtils
dfoTools
                                                                                      [patched]
     dfoTools
                                                           7.50.17
                                                            7.50.17
7.50.17
     nnnm
     cppmUtil
                                                            7.50.17
     oam-logging
                                                                                    [patched]
                                                          n/a
                                                                                      [patched]
     baseWeb n/a
ipsec n/a
Snmp-Daemon-TrapLib 7.50.17
ISECSH 7.50.17
                                                                                    [patched]
                                                                                      [patched]
                                                                                      [patched]
     patchWeb n/a [patched] EmCentralLogic n/a [patched]
Application configuration: CS+SS+NRS+EM
Packages:
CS+SS+NRS+EM
Configuration version: 7.50.17-00
                                                  7.50.17
7.50.17
     CS
     dbcom
                                                                                      [patched]
     cslogin
                                                            7.50.17
     sigServerShare
                                                          7.50.17 [patched]
7.50.17
7.50.17.16 [patched]
     csv
      tps

    vtrk
    7.50.17.16
    [patched]

    pd
    7.50.17.16
    [patched]

    sps
    7.50.17.16
    [patched]

    ncs
    7.50.17.16
    [patched]

    gk
    7.50.17
    [patched]

    nrsmWebService
    7.50.17
    [patched]

    managedElementWebService
    7.50.17
    [patched]

    emWeb_6-0
    7.50.17
    [patched]

    cmWeb_0cal_6-0
    7.50.17
    [patched]

    cmWeb_0cal_6-0
    7.50.17
    [patched]

                                                            7.50.17.16 [patched]
     vtrk
   EmConfig
emWeb_6-0 7.50.17 [patched]
emWeb_bocal_6-0 7.50.17 [patched]
csmWeb 7.50.17 [patched]
bcc 7.50.17 [patched]
ftrpkg 7.50.17 [patched]
cs1000WebService_6-0 7.50.17 [patched]
mscAnnc 7.50.17 [patched]
mscAttn 7.50.17.16 [patched]
mscAttn 7.50.17.16 [patched]
7.50.17.16 [patched]
     mscTone
                                                              7.50.17.16 [patched
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