

#### Avaya Solution & Interoperability Test Lab

Application Notes for configuring Fonolo In-Call Rescue with Avaya Communication Server 1000 and Avaya Aura® Session Manager using SIP Trunks – Issue 1.0

#### **Abstract**

These Application Notes describe the configuration steps required for Fonolo In-Call Rescue application to interoperate with Avaya Communication Server 1000 and Avaya Aura® Session Manager using SIP trunks.

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

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

## 1. Introduction

These Application Notes describe the configuration steps required for Fonolo In-Call Rescue (ICR) to interoperate with Avaya Communication Server 1000 (Communication Server 1000) via Avaya Aura® Session Manager (Session Manager) using SIP trunks. ICR provides functionality to replace hold-time with a call-back and during this compliance tesing was hosted on the cloud by Fonolo. The solution communicates via SIP/RTP. The ICR functionality was compliance tested utilizing SIP trunks to Session Manager. The configuration allowed Communication Server 1000 to use SIP trunking for calls to and from the ICR application. The ICR is a call center solution where instead of a caller staying in the queue when agents are all busy, can request to get a call back when an agent becomes available.

When a caller encounters a scenario where no agents are available in a call center environment and Communication Server 1000 is part of that environment, the caller is presented with options by the call center to either continue waiting in the queue or receive a call back from the call center. If the caller chose the latter, then the call center directs the caller to ICR via Session Manager SIP trunks where ICR then provides a message to the caller to leave a call back number, so that ICR can call back the caller when an agent becomes available. Once ICR receives the confirmed call back number from the caller, ICR uses SIP trunks with Session Manager to call back into the call center and wait in the queue until an agent becomes available. When an agent becomes available, ICR informs the agent that there is a call waiting and if the agent would like to get connected to the caller. If the agent accepts to connect to the caller, ICR then calls the caller via SIP trunks to Communication Server 1000 and connects the caller with the available agent. When ICR makes an outbound call to the caller and agent via Session Manager, it makes two SIP INVITE requests. One to the available agent and one to the caller and then mixes the audio within the ICR server.

For security purposes public and lab IP addresses have been altered in this document.

# 2. General Test Approach and Test Results

The interoperability compliance testing focused on verifying inbound and outbound calls flows between Communication Server 1000 and ICR. The feature test cases were performed manually. Calls were placed manually from users on the PSTN to a call center Control Directory Number (CDN). During compliance testing Avaya Aura® Contact Center (Contact Center) was used to eumulate a call center. Assumption was made during compliance testing in the Contact Center script to direct callers to ICR when no agents are available. When caller connected with ICR, ICR read the call back number of the caller or asked caller to input a new call back number. ICR recognized the Dual Tone Multi Frequency (DTMF) input provided by the caller confirming the call back number. For compliance testing purposes, agents were made available after the above call between caller and ICR is completed. ICR then called into the call center CDN and connected with an available agent. ICR provided a recording informing the agent of a call in waiting and if the agent wants to get connected to the PSTN caller. Agent accepted the call by using DTMF input. ICR then made the second outbound call to the PSTN caller via Communicaton Server 1000 and if the PSTN caller answered the call they then get connected with the agent.

The serviceability test cases were performed manually by disconnecting and reconnecting the SIP trunk connection to ICR.

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.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in these DevConnect Application Notes included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Notes, the interface between Avaya systems and Fonolo did not include use of any specific encryption features as requested by Fonolo.

This test was conducted in a lab environment simulating a basic customer enterprise network environment. The testing focused on the standards-based interface between the Avaya solution and the third-party solution. The results of testing are therefore considered to be applicable to either a premise-based deployment or to a hosted or cloud deployment where some elements of the third-party solution may reside beyond the boundaries of the enterprise network, or at a different physical location from the Avaya components.

Readers should be aware that network behaviors (e.g. jitter, packet loss, delay, speed, etc.) can vary significantly from one location to another and may affect the reliability or performance of the overall solution. Different network elements (e.g. session border controllers, soft switches, firewalls, NAT appliances, etc.) can also affect how the solution performs.

If a customer is considering implementation of this solution in a cloud environment, the customer should evaluate and discuss the network characteristics with their cloud service provider and network organizations and evaluate if the solution is viable to be deployed in the cloud.

The network characteristics required to support this solution are outside the scope of these Application Notes. Readers should consult the appropriate Avaya and third-party documentation for the product network requirements. Avaya makes no guarantee that this solution will work in all potential deployment configurations.

# 2.1. Interoperability Compliance Testing

The ICR application is hosted in a cloud environment by Fonolo. SIP trunks were used to connect the ICR application with Communication Server 1000 via Session Manager. The following features and functionality were covered during compliance testing:

- Establishment of SIP trunks connectivity between ICR and Session Manager including session refresh.
- Testing of G.711MU codec.
- Incoming calls to a CDN of Contact Center via Communication Server 1000 can be redirected to the ICR application via the SIP trunks based on Contact Center scripting. Outgoing calls from ICR to the CDN via Communication Server 1000 when callers decide on Call back. During this compliance testing Contact Center was used to simulate a call center environment and is not the scope of these Application Notes.
- The ICR application can make outbound call to the caller via Communication Server 1000 who had selected the call back option and merge the call between the caller and available agents. The outbound call is made from Communication Server 1000 via Session Manager and using SIP INVITE.
- DTMF transmission to ensure that options selected by the caller and agent is accepted correctly by ICR.

Serviceability testing focused on verifying the ability of ICR to recover from adverse conditions, such as the SIP trunks going down (disable command) and reboot of Session Manager.

## 2.2. Test Results

All test cases were executed and passed with the following exceptions/observations:

- ICR only supports G.711u codec.
- ICR only supports RFC2833 for DTMF transmission.

# 2.3. Support

Technical support on Fonolo ICR can be obtained through the following:

• **Phone:** 1-855-366-2500 (USA Toll-free)

• Web: <a href="https://fonolo.com/contact/">https://fonolo.com/contact/</a>

• Email: <a href="mailto:support@fonolo.com">support@fonolo.com</a>

# 3. Reference Configuration

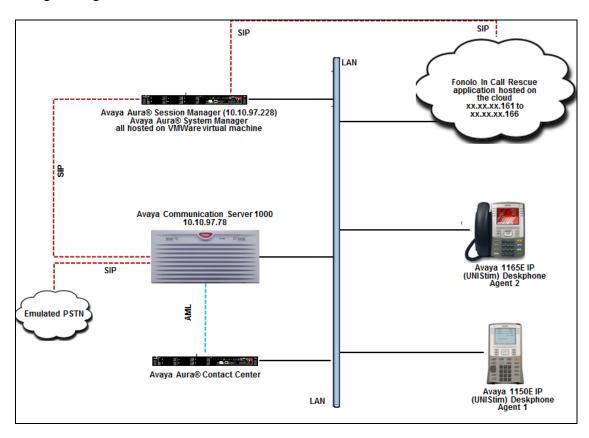
A simulated enterprise site consisting of Communication Server 1000, Session Manager and System Manager were used during compliance testing. As shown in **Figure 1**, SIP trunks were used to connect Fonolo ICR with Communication Server 1000 via Session Manager. Communication Server 1000 is connected to an emulated PSTN using SIP trunks. A skillset queue is configured on Communication Server 1000 with two agents belonging to this queue. The configuration allowed the enterprise site to use SIP trunking for calls to and from ICR via the Session Manager.

During compliance testing inbound calls to Fonolo were sent to two of Fonolo's specific servers and outbound calls from Fonolo came from four of Fonolo's other servers. This architecture was implemented by Fonolo due to some PBX vendors cannot support inbound and outbound calls on the same SIP trunk. Due to this design intent of Fonolo, inbound and outbound calls to and from Fonolo were handled by different servers. All these servers were hosted on the cloud by Fonolo.

The following values were configured during compliance testing:

CDN: 54900Skillset: 1

• Agent Login ID: 1005, 1006



**Figure 1: Reference Configuration** 

# 4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Communication Server 1000	7.65.16 SP9
Avaya Aura® System Manager running on virtual server	8.0.0.0.931077
Avaya Aura® Session Manager running on virtual server	8.0.0.0.800035
Avaya Aura® Contact Center	7.0.3.0 (FP3)
Avaya IP Deskphones:	
1150E (UNIStim)	0627C94
1165E (UNIStim)	0626C94
Fonolo In-Call Rescue hosted on a cloud	Version 3.2

# 5. Configure Avaya Communication Server 1000

The configuration operations illustrated in this section were performed using terminal access to the Communication Server 1000 over an "SSH" session using "PuTTY". The information provided in this section describes the configuration of the Communication Server 1000 for this solution. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 11**.

#### Note:

- During compliance test, route number (ROUT) and route list index (RLI) is 6 to Session Manager, this information is needed in Section 5.2 to configure route to ICR dialing plan of 30xxx. A full printout of the D-Channel, Route and Trunk information for the SIP Signalling Gateway used for the compliance testing is included in the Appendix B of these Application Notes.
- Not all prompts need a response. The prompts outlined below are mandatory for a basic configuration. Accept the default responses for all other prompts by pressing the return key.

## 5.1. Verify Licences

To ensure that Communication Server 1000 is licensed for SIP Trunks, use **LD 22** and type **SLT** at the **REQ** prompt. Check for **SIP ACCESS PORTS** as shown below.

```
>1d 22
PT2000
REQ slt
System type is - Communication Server 1000E/CPPM Linux
CPPM - Pentium M 1.4 GHz
IPMGs Registered:
IPMGs Unregistered:
IPMGs Configured/unregistered: 0
TRADITIONAL TELEPHONES 32767 LEFT 32767
DECT USERS 32767 LEFT 32767
                                                                 0
                                                      USED
                                                      USED
                                                                 Ω
IP USERS
                          32767 LEFT 32682 USED
                                                                85
BASIC IP USERS 32767 LEFT 32682 USED

32767 LEFT 32764 USED
                                                                3
TEMPORARY IP USERS
                         32767 LEFT 32765 USED
DECT VISITOR USER 10000 LEFT 10000 USED
ACD AGENTS 32767 LEFT 32739 USED 28
MOBILE EXTENSIONS 32767 LEFT 32761 USED 6
TELEPHONY SERVICES 32767 LEFT 32767 USED 0
CONVERGED MOBILE USERS 32767 LEFT 32767
AVAYA SIP LINES 32767 LEFT 32755
THIRD PARTY SIP LINES 32767 LEFT 32740
                                                      USED
                                                                 0
                                                      USED
                                                                12
                                                      USED
PCA 32767 LEFT 32764
ITG ISDN TRUNKS 32767 LEFT 32767
H.323 ACCESS PORTS 32767 LEFT 32767
AST 32767 LEFT 32717
                                                      USED
                                                      USED
                                                                 0
                                                      USED
                                                                0
                                                      USED
                                                                50
SIP CONVERGED DESKTOPS 32767 LEFT 32767
                                                      USED
                                                                0
SIP CTI TR87 32767 LEFT 32733
                                                      USED
                                                                34
SIP ACCESS PORTS 32767 LEFT 32703
                                                    USED
```

## 5.2. Configure Coordinated Dialing Plan

This section shows steps on how to create Coordinated Dialing Plan (CDP) to route the call from Communication Server 1000 to ICR via Session Manager.

Use the **NEW** command in **LD 87** to create a **CDP** entry for ICR. In the example below, the **DSC** is "30", **FLEN** is "5" and the **RLI** is "6".

```
>1d 87
REQ new
CUST 0
FEAT cdp
TYPE dsc
             → Distant Steering Code to dial ICR
DSC 30
             → Length of the Distant Steering Code
FLEN 5
DSP LSC
RRPA NO
RLI 6
             → Route List Index
CCBA NO
NPA
NXX
```

# 5.3. Saving Avaya Communication Server 1000 Configuration

Type **LD 43** at the > prompt to save any newly configured parameters like CDP as mentioned in the above section, upon entering the overlay type **edd** at the "." prompt as shown below.

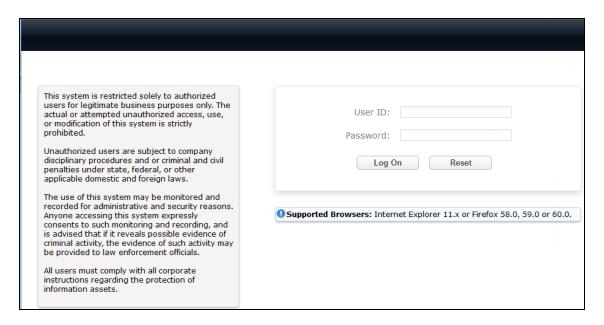
```
ld 43
EDD000

.edd
```

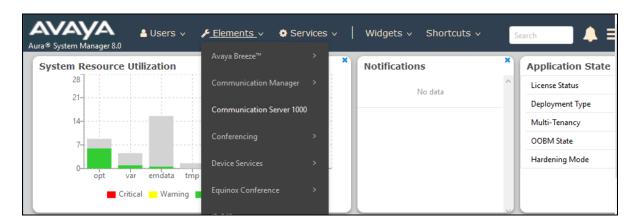
# 5.4. Configure Avaya Communication Server 1000 SIP Signaling Gateway

The SIP Signalling Gateway is an application installed on the Avaya Communication Server 1000 Signalling Server. In this example this Signalling Server is a co-resident installation with the Avaya Communication Server 1000 Call Server.

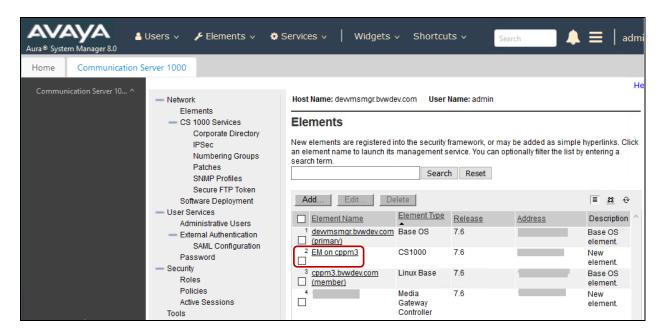
The SIP Signalling Gateway is configured at the Communication Server 1000 IP Telephony Node. Changes on the Communication Server 1000 Node are performed using Element Manager which is accessible through the System Manager. To make changes in Element Manager, access the System Manager web interface by using the URL "https://ip-address" in an Internet browser window, where "ip-address" is the IP address of System Manager. Log in using the appropriate credentials in the screen shown below.



From the main screen of System Manager shown below, navigate to **Elements > Communication Server 1000**.



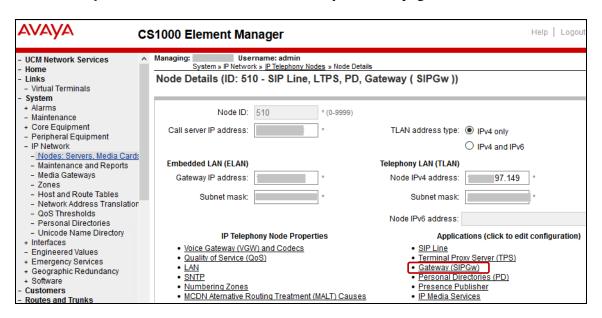
Once Communication Server 1000 is selected the following screen appears, click on the Element Manager link, in this case it is **EM on cppm3**.



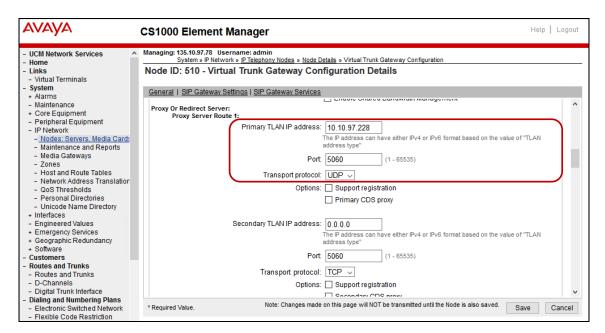
Click on **IP Network** → **Nodes: Servers, Media Cards** in the left window. Click on the **Node ID** displayed in the right window, during compliance test Node **510** is configured to connect to Session Manager. Note the IP address of this node as it used while configuring Communication Server 1000 as SIP Entity endpoint on Session Manager in **Section 7.5.2**.



The **Node Details** page is launched when the **Node ID 510** is clicked as shown below. Click on the link **Gateway (SIPGw)** to launch the SIP Gateway Services page.



From the **SIP Gateway Services** page, scroll down to enter the IP address of the Session Manager in the **Primary TLAN IP address** field. Enter **Port** as "5060" and select the **Transport protocol** as "UDP", this port and transport protocol will be used when configuring Communication Server 1000 SIP entity in Session Manager in **Section 7.5.2**. Click on **Save** once finished.



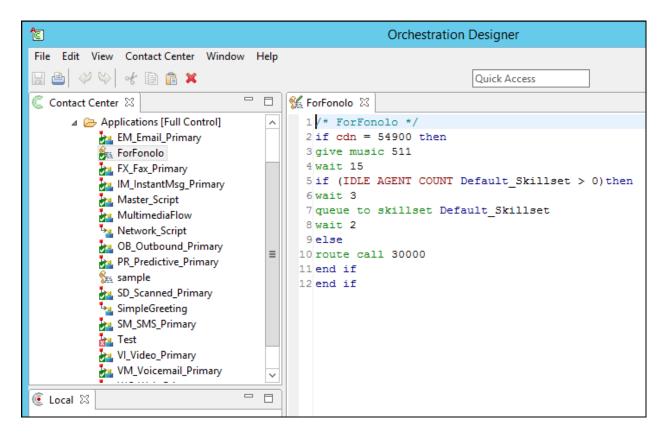
**Save** and **Transmit** (not shown) these Node properties to complete the SIPGw configuration. Once the components are synchronized the Signaling Gateway will require a restart.

# 6. Configure Avaya Aura® Contact Center

The administration of the routing and basic connectivity between Communication Server 1000 and Contact Center or the setting up of Skillset, CDN, Scripts, Agents for a contact center type environment are not the focus of these Application Notes; however, some details are provided only for informational purposes and completeness.

This section provides a sample script that was used during the compliance testing. When a call is directed to this script, caller is connected to ICR if there are no agents available in the Skillset.

From Contact Center Select Launchpad, navigate to Scripting → Orchestration Designer → Launch Orchestration Designer (not shown) to open the Orchestration Designer window as shown below. A basic script is configured in the example below. When a call reaches the CDN 54900 that was configured during compliance testing and if agents are not available, then the call is routed to 30000 which is the distant steering code that was configured in Section 5.2 to reach ICR.



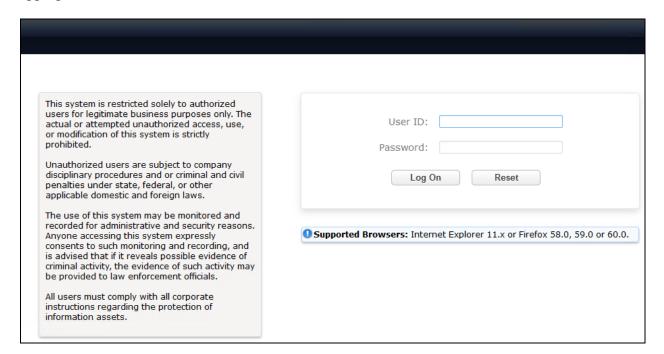
# 7. Configure Avaya Aura® Session Manager

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

- Launch System Manager
- Administer Domain
- Administer Locations
- Administer Adaptation
- Administer SIP Entities
- Administer Routing Policies
- Administer Dial Patterns

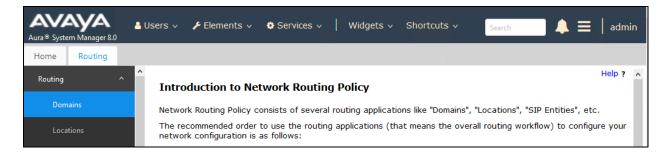
#### 7.1. Launch System Manager

Access the System Manager web interface by using the URL "https://ip-address" in an Internet browser window, where "ip-address" is the IP address of System Manager. Log in using the appropriate credentials.

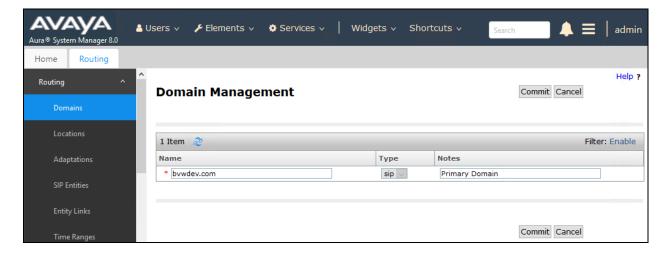


#### 7.2. Administer Domain

In the subsequent screen (not shown), select **Elements**  $\rightarrow$  **Routing** to display the **Introduction** to **Network Routing Policy** screen below. Select **Routing**  $\rightarrow$  **Domains** from the left pane and click **New** in the subsequent screen (not shown) to add a new domain.



The **Domain Management** screen is displayed. In the **Name** field enter the domain name, select "sip" from the **Type** drop down menu and provide any optional **Notes**.



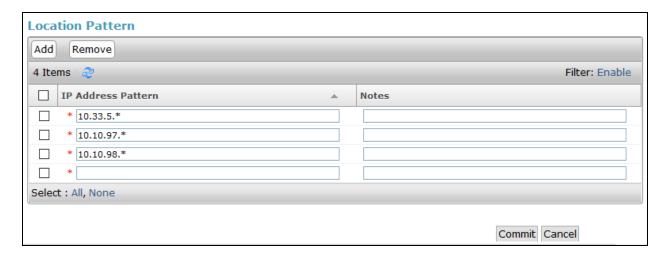
#### 7.3. Administer Locations

Select **Routing**  $\rightarrow$  **Locations** from the left pane and click **New** in the subsequent screen (not shown) to add a new location for ICR.

The **Location Details** screen is displayed. In the **General** sub-section, enter a descriptive **Name** and optional **Notes**. Retain the default values in the remaining fields.



Scroll down to the **Location Pattern** sub-section, click **Add** and enter the IP address of all devices involved in the compliance testing in **IP Address Pattern**, as shown below. Retain the default values in the remaining fields.



## 7.4. Administer Adaptation

During compliance test, to make the call from and to Communication Server 1000 via Session Manager, an Adaptation to remove the phone-context in the SIP Message body from Communication Server 1000 was used.

Below are the steps that were used during compliance testing to create the needed Adaptation. Select **Adaptations** on the left panel menu and then click on the **New** button in the main window (not shown).

Enter the following for the Communication Server 1000 Adaptation.

Adaptation Name: An informative name.
 Module Name: Select CS1000Adapter.

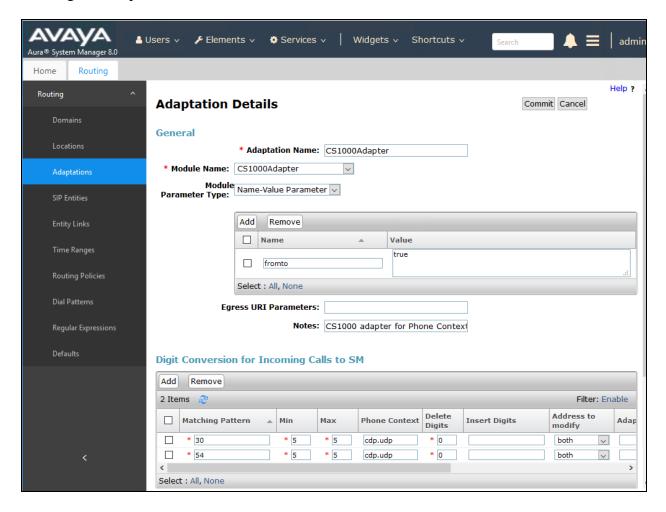
• Module Parameter Type: Select Name-Value Parameter.

Click **Add** to add a new row for the following values as shown below table:

Name	Value
fromto	true

In the **Digit Conversion for Incoming Calls to SM**, add the **Matching Pattern**, which corresponds to the dialing plan used during this compliance testing along with the **Min** and **Max** length of the numbers being dialed and the **Phone Context**. During compliance testing, "30xxx" was the dialing plan for ICR and "54xxx" was the dialing plan for Communication Server 1000 with the min and max length of "5" and "cdp.udp" being the phone context. See dialing plan details in **Section 7.7**.

Once the correct information is entered click the **Commit** button. Below is the screenshot showing the Adaptation created for Communication Server 1000.



#### 7.5. Administer SIP Entities

Add seven new SIP entities, six for ICR and one for the new SIP trunks with Communication Server 1000.

#### 7.5.1. SIP Entity for Fonolo ICR

Select **Routing**  $\rightarrow$  **SIP Entities** from the left pane and click **New** in the subsequent screen (not shown) to add a new SIP entity for ICR.

The **SIP Entity Details** screen is displayed. Enter the following values for the specified fields and retain the default values for the remaining fields.

• Name: A descriptive name.

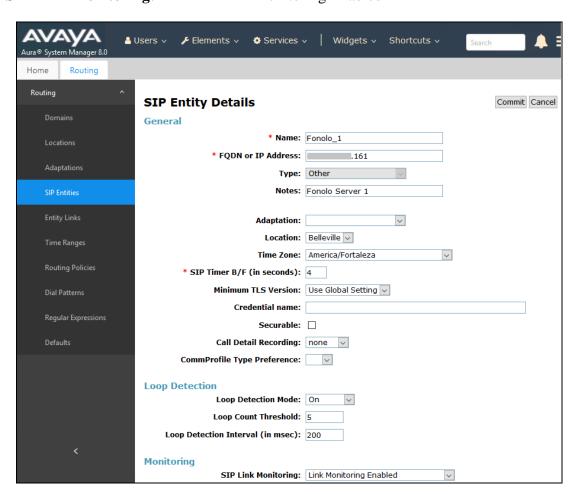
• FQDN or IP Address: The IP address of ICR SIP Server.

• **Type:** "Other".

• **Notes:** Any desired notes.

• **Location:** Select the ICR location name from **Section 7.3**.

Time Zone: Select the applicable time zone.
SIP Link Monitoring: Select "Link Monitoring Enabled".



Scroll down to the **Entity Links** sub-section and click **Add** to add an entity link. Enter the following values for the specified fields and retain the default values for the remaining fields.

• Name: A descriptive name.

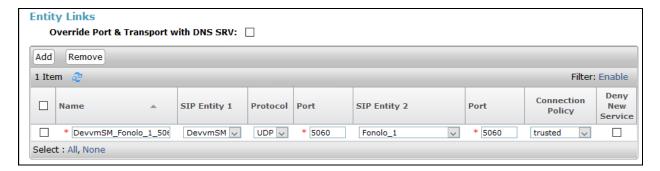
• **SIP Entity 1:** The Session Manager entity name, in this case "DevvmSM".

Protocol: "UDP". Port: "5060".

• **SIP Entity 2:** The ICR entity name from this section.

Port: "5060".Connection Policy: "trusted".

Note that only UDP protocol was tested.



Repeat the above to configure a total of six SIP entities for ICR, since during the compliance testing two were used for outgoing calls from Communication Server 1000 to ICR and four were used for incoming calls from ICR to Communication Server 1000.

#### 7.5.2. SIP Entity for Communication Server 1000

Select **Routing**  $\rightarrow$  **SIP Entities** from the left pane and click **New** in the subsequent screen (not shown) to add a new SIP entity for Communication Server 1000. Note that this SIP entity is used for integration with ICR.

The **SIP Entity Details** screen is displayed. Enter the following values for the specified fields and retain the default values for the remaining fields.

• Name: A descriptive name.

• FQDN or IP Address: The IP address of an existing Communication Server 1000 node

IP.

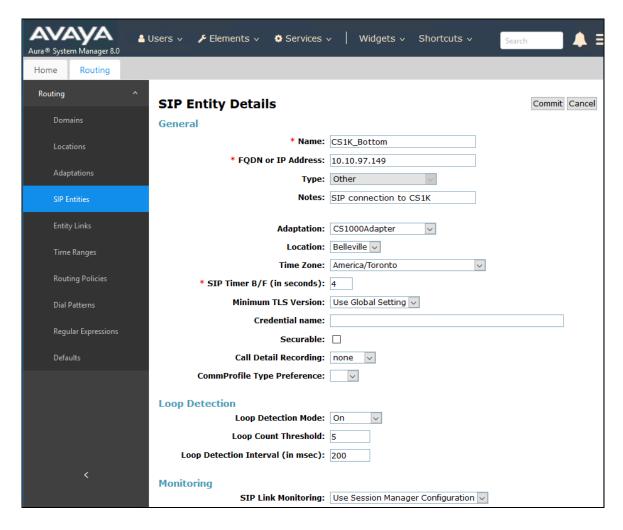
• **Type:** "Other".

• **Notes:** Any desired notes.

• Adaptation: Select the adaptation configured in Section 7.4.

• **Location:** Select the applicable location for Communication Server 1000.

• **Time Zone:** Select the applicable time zone.

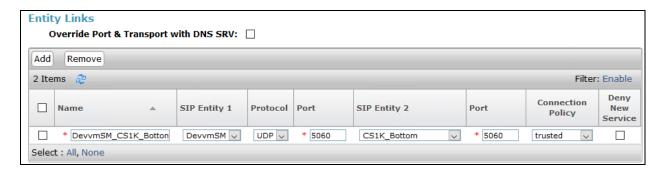


Scroll down to the **Entity Links** sub-section and click **Add** to add an entity link. Enter the following values for the specified fields and retain the default values for the remaining fields.

• Name: A descriptive name.

SIP Entity 1: The Session Manager entity name, in this case "DevvmSM".
Protocol: The signaling group transport (UDP) method from Section 5.4.
Port: The signaling group listen port (5060) number from Section 5.4.
SIP Entity 2: The Communication Server 1000 entity name from this section.
Port: The signaling group listen port (5060) number from Section 5.4.

• Connection Policy: "trusted".



#### 7.6. Administer Routing Policies

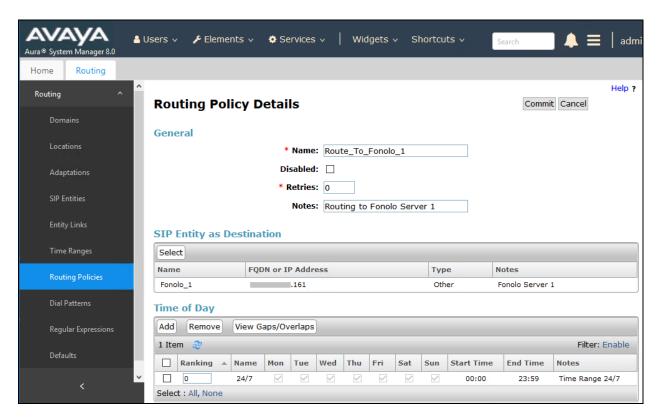
Add two new routing policies, one for ICR and one for the new SIP trunks with Communication Server 1000.

### 7.6.1. Routing Policy for Fonolo ICR

Select **Routing**  $\rightarrow$  **Routing Policies** from the left pane and click **New** in the subsequent screen (not shown) to add a new routing policy for ICR.

The **Routing Policy Details** screen is displayed. In the **General** sub-section, enter a descriptive **Name**, and retain the default values in the remaining fields.

In the **SIP Entity as Destination** sub-section, click **Select** and select the ICR entity name from **Section 7.5.1**. In the **Time of Day** sub-section, enter "0" for **Ranking**. Ranking option is only configured for the two outgoing routing policies of ICR so that calls can be load balanced. The screen below shows the result of the selection.

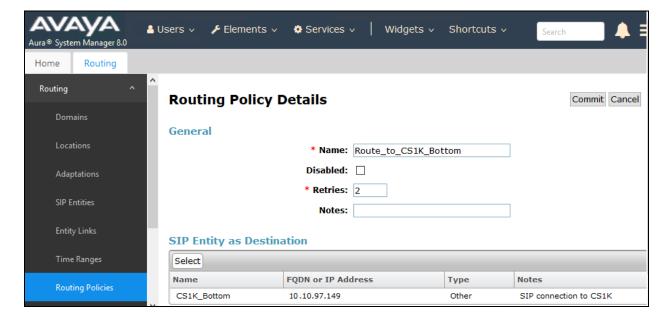


#### 7.6.2. Routing Policy for Communication Server 1000

Select **Routing**  $\rightarrow$  **Routing Policies** from the left pane and click **New** in the subsequent screen (not shown) to add a new routing policy for Communication Server 1000.

The **Routing Policy Details** screen is displayed. In the **General** sub-section, enter a descriptive **Name**, and retain the default values in the remaining fields.

In the **SIP Entity as Destination** sub-section, click **Select** and select the Communication Server 1000 entity name from **Section 7.5.2**. The screen below shows the result of the selection.



#### 7.7. Administer Dial Patterns

Add a new dial pattern for ICR and Communication Server 1000.

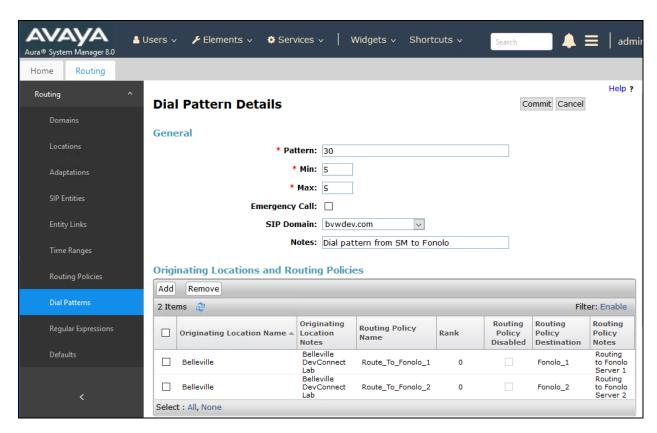
#### 7.7.1. Dial Pattern for Fonolo ICR

Select **Routing**  $\rightarrow$  **Dial Patterns** from the left pane and click **New** in the subsequent screen (not shown) to add a new dial pattern to reach ICR. The **Dial Pattern Details** screen is displayed. In the **General** sub-section, enter the following values for the specified fields, and retain the default values for the remaining fields.

Pattern: A dial pattern to match, in this case "30".
Min: The minimum number of digits to match.
Max: The maximum number of digits to match.

• **SIP Domain:** The signaling group domain name from **Section 7.2**.

In the **Originating Locations and Routing Policies** sub-section, click **Add** and create an entry for reaching ICR. In the compliance testing, the entry allowed for call originations from all Communication Server 1000 endpoints in locations "Belleville". The ICR routing policy from **Section 7.6.1** was selected as shown below. Note that two routing policies are selected since during this compliance testing, two outgoing routing policies were configured for calls made from Communication Server 1000 to ICR.



#### 7.7.2. Dial Pattern for Communication Server 1000

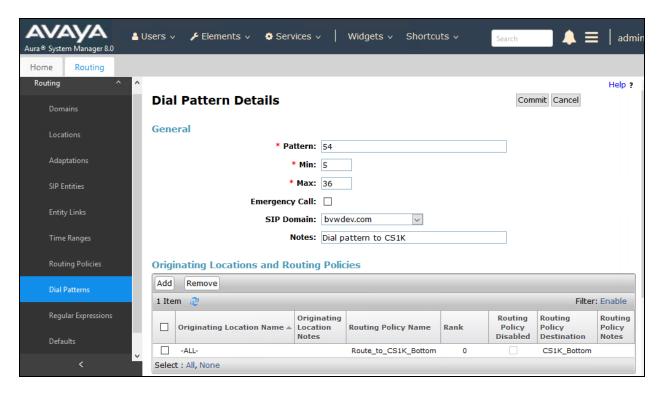
Select **Routing** → **Dial Patterns** from the left pane and click **New** in the subsequent screen (not shown) to add a new dial pattern to reach Communication Server 1000. The **Dial Pattern Details** screen is displayed. In the **General** sub-section, enter the following values for the specified fields, and retain the default values for the remaining fields.

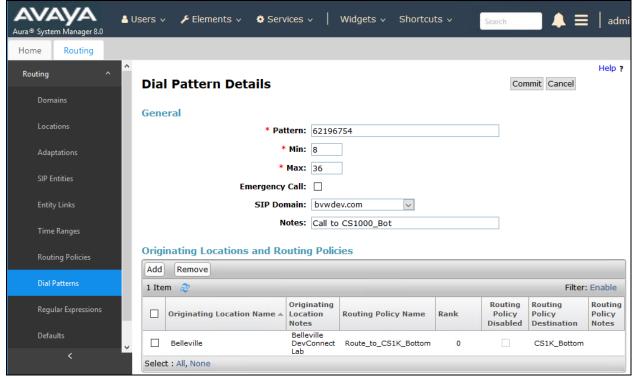
• Pattern: A dial pattern to match, in this case "54" and "62196754".

Min: The minimum number of digits to match.
Max: The maximum number of digits to match.

• **SIP Domain:** The signaling group domain name from **Section 7.2**.

In the **Originating Locations and Routing Policies** sub-section, click **Add** and create an entry for reaching Communication Server 1000. In the compliance testing, the entry allowed for call originations from all ICR endpoints in locations "-ALL-" or "Belleville". The Communication Server 1000 routing policy from **Section 7.6.2** was selected as shown below.





# 8. Configure Fonolo In-Call Rescue

This section provides a "snapshot" of ICR configuration used during compliance testing. ICR is typically configured for customers by Fonolo. The screen shots and partial configuration shown below, supplied by Fonolo, are provided only for reference. These represent only an example of the configuration GUI of ICR, available through the Fonolo Customer Portal at <a href="https://portal.fonolo.com/">https://portal.fonolo.com/</a>. Other configurations are possible. Contact Fonolo for details on how to configure ICR. The configuration operations described in this section can be summarized as follows:

- Add a New SIP Trunk Group
- Adding the Agent Call-Back Endpoint
- Adding a New Call-Back Profile

#### 8.1. Add a New SIP Trunk Group

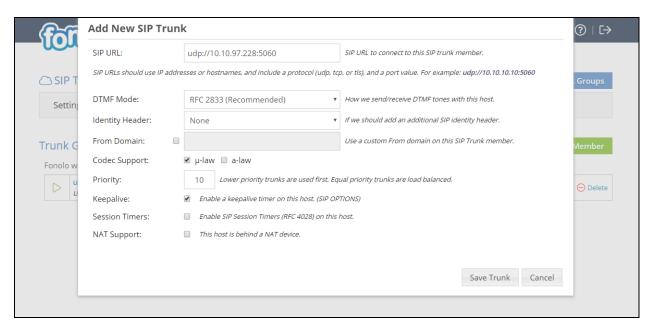
Navigate to **Telco** → **SIP Trunks** and click the **Add New SIP Trunk Group** button (not shown) at the top of the page. Define a new label to identify this SIP trunk group. During compliance testing **Avaya SM- CS1000** was used as the label. Then select **Add New SIP Trunk** (not shown).

Under the **Members** tab in this new SIP trunk group, click the **Add New Member** button (not shown), and the **Add New SIP Trunk** dialog will appear as shown below.

#### Under Add New SIP Trunk:

- **SIP URL**: The IP address of Session Manager formatted as a fully qualified URL, defining the protocol and SIP port.
- **DTMF Mode**: The mode to use for sending DTMF tones. Default is RFC 2833.
- **Identity Header**: Whether to include an identity header (either Remote-Party-ID or P-Asserted-Identity). Default is none.
- Codec Support: The list of audio codecs to use. Default is  $\mu$ -law.
- **Priority**: A numeric value that can be used to determine failover or load balance groups when more than one SIP trunk group member is defined. Members with lower priority values are used first; members with an equal priority values are load balanced.
- **Keepalive**: This instructs the Fonolo platform to perform regular keep-alive using SIP OPTIONS requests, based on the number of seconds defined. Default is disabled.
- **Session Timers**: If Fonolo should enable SIP Session Timers (RFC 4028). Default is disabled.
- NAT Support: If the SIP trunk group member specified is located behind a NAT (Network Address Translation) device. Fonolo can compensate for the un-reachable RTP data specified in the SDP body of the INVITE request, using symmetric RTP.

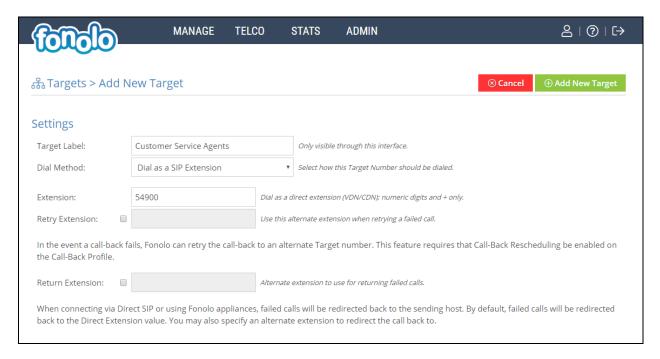
Add the IP address of Session Manager, formatted as a fully qualified URL, defining the protocol and SIP port, then click the **Save Trunk** button. During compliance testing, the protocol **UDP** and port **5060** is used for the SIP service with Session Manager, and the default values for the remaining SIP trunk group member settings.



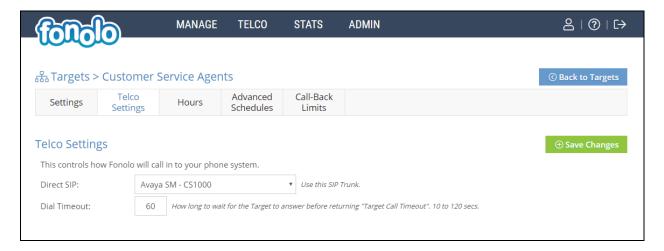
## 8.2. Adding the Agent Call-Back Endpoint

Navigate to Manage → Targets and click the Add New Target button (not shown). Define a new label to identify this new Target. During compliance testing Customer Service Agents was used as the Target Label. Select the Dial as SIP Extension option (shown below) for Dial Method and enter the CDN to reach the pertinent skillset via Session Manager in the Extension field.

During compliance testing, CDN 54900 was pre-configured on Communication Server 1000 which was accessible via Session Manager. Then click on the **Add New Target** button to save this Target.



From the **Telco Settings** section of the newly added Target, select the SIP trunk to use for this Target, from the **Direct SIP** drop down menu shown below. Select the **Avaya SM** – **CS1000** SIP trunk, added in **Section 8.1**, and then click the **Save Changes** button.



## 8.3. Adding a New Call-Back Profile

Navigate to **Manage** → **Call-Back Profiles** and click on the **Add New Profile** button (not shown), and configure the new profile:

• **Profile Label:** A label to identify this new profile.

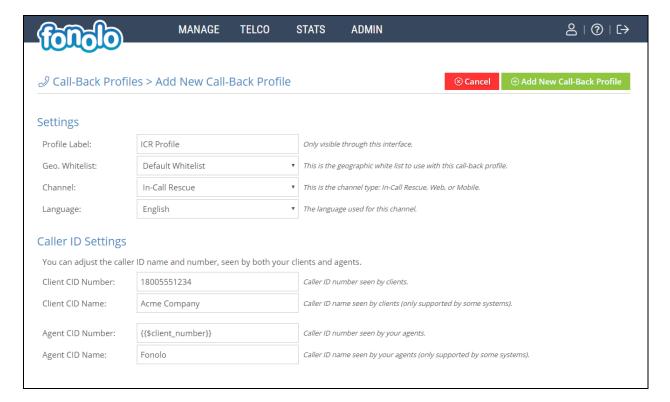
• Geo Whitelist: A geographic whitelist to use for this new profile.

• Channel: Select "In-Call Rescue".

• **Language:** Select the appropriate language for this skill set queue.

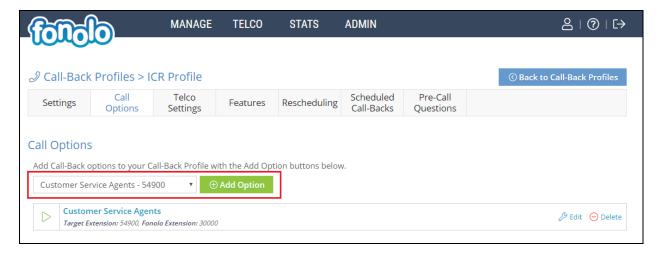
Client CID Number: The Caller-ID number the customer will see.
 Client CID Name: The Caller-ID name the customer will see.
 Agent CID Number: The Caller-ID number the agent will see.
 Agent CID Name: The Caller-ID name the agent will see.

Click the **Add New Call-Back Profile** button to add this new profile.

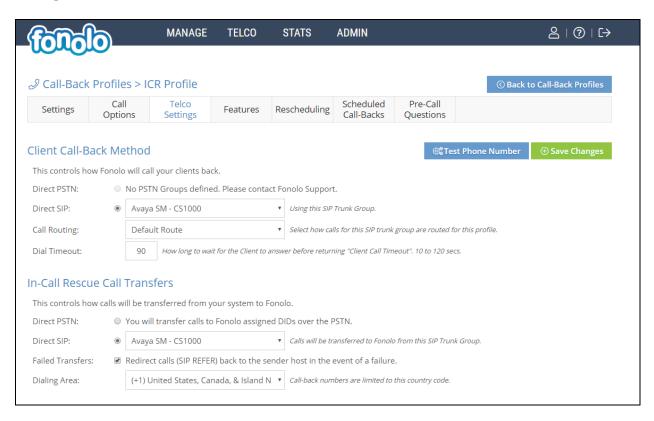


From the **Call Options** section of the new **Call-Back Profile**, select the Target added in **Section 8.2** (from the drop-down menu highlighted below), and click the **Add Option** link to add the CDN value to the section on the left, as shown below, then click the **Save Changes** (not shown) button.

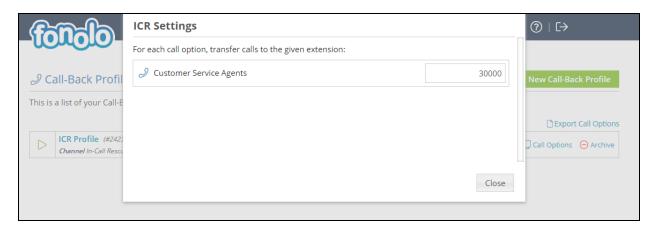
This associates the Target CDN with this new **Call-Back Profile**. Multiple call options can be associated with a single **Call-Back Profile**, one for each skill call-backs are being offered on.



From the **Telco Settings** section of the new **Call-Back Profile**, select the **Avaya SM – CS1000** SIP trunk group created in **Section 8.1** as the **Direct SIP** value under both the **Client Call-Back Method** and the **In-Call Rescue Call Transfers** section, as shown below, then click the **Save Changes** button.



Navigate to Manage → Call-Back Profiles and click on the Call Options link on the newly created Call-Back Profile (not shown). The ICR Settings dialog will appear (shown below) and include the inbound extensions to use for CDN. These are the extensions to transfer calls to, on the ICR system, when a call opts-in for a call-back. During compliance testing, the extension 30000 is configured on the Fonolo system.



# 9. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Communication Server 1000, Session Manager and Fonolo ICR.

## 9.1. Verify Avaya Communication Server 1000

On Communication Server, verify the status of the SIP route by using **LD 32** and typing "stat vtrm [cust no] [route no]", in this case which is **stat vtrm 0 6**, where "0" is the customer number and "6" is the SIP route configured (refer to **Appendix B**).

Verify the status of the local SIP trunk group by using the "trac [customer no] [ACOD of route]" command in **LD 80**. In this case **trac 0 8006**, where "0" is the customer number and "8006" is the ACOD for route 6 configued (refer to **Appendix B**). Verify that the trunks are in **IDLE** state as shown below.

```
>ld 80
.trac 0 8006

ROUT 6 IPTI NTRK 64

5 100 0 03 04 V PHYSICAL TN 000 0 00 00 IDLE

4 100 0 03 03 V PHYSICAL TN 000 0 00 00 IDLE

3 100 0 03 02 V PHYSICAL TN 000 0 00 00 IDLE

2 100 0 03 01 V PHYSICAL TN 000 0 00 00 IDLE

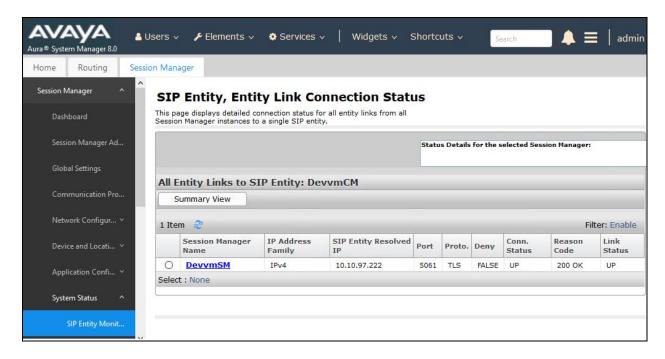
1 100 0 03 00 V PHYSICAL TN 000 0 00 00 IDLE
```

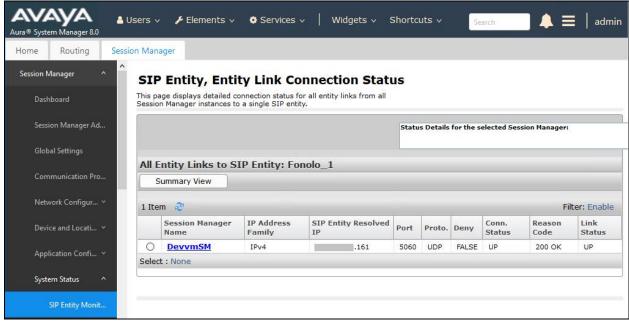
The following tests were also performed to verify proper configuration of ICR with Communication Server 1000.

- PSTN caller can select the call back option and get redirected to ICR via Communication Server 1000/Session Manager.
- PSTN caller can hear the ICR menu and make the required choices.
- ICR can recognize the choices made by the PSTN user.
- ICR can call the CDN and wait for an available agent.
- ICR can call out to the PSTN caller and connect them to an available agent.

## 9.2. Verify Avaya Aura® Session Manager

Navigate to Elements  $\rightarrow$  Session Manager  $\rightarrow$  System Status  $\rightarrow$  SIP Entity Monitoring and select the Communication Server 1000 SIP Entity. Verify the Link Status is Up. Repeat the same procedure selecting the ICR SIP Entity and verify the Link Status is Up.





## 9.3. Verify Fonolo In-Call Rescue

In the Fonolo web portal, verify the link status of the SIP trunk group to the Session Manager, by navigating to **Telco** → **SIP Trunks** (not shown). Each SIP trunk group member will have a response time value, indicating the network latency (in milliseconds) between the Fonolo network, and the Session Manager. A positive **Response Time** value indicates a positive link status.



Additional information is available through the **Stats**  $\rightarrow$  **Graphs** section of the Fonolo web portal (not shown).

## 10. Conclusion

These Application Notes describe the configuration steps required for Fonolo In Call Rescue to successfully interoperate with Avaya Communication Server 1000 and Avaya Aura® Session Manager. All feature and serviceability test cases were completed and passed with the exceptions/observations noted in **Section 2.2**.

## 11. Additional References

This section references the product documentation relevant to these Application Notes.

Product documentation for Avaya products may be found at <a href="http://support.avaya.com">http://support.avaya.com</a>.

- 1. Communication Server 1000E Installation and Commissioning, Release 7.6, NN43041-310.
- 2. Element Manager System Reference Administration Avaya Communication Server 1000, Release 7.6, NN43001-632.
- 3. Avaya Communication Server 1000 Co-resident Call Server and Signaling Server Fundamentals Release 7.6, NN43001-509.
- 4. Avaya Communication Server 1000 Software Input Output Reference Administration Release 7.6, NN43001-611.
- 5. Deploying Avaya Aura® System Manager in Virtual Appliance, 8.0. Issue 2. September 2018.
- 6. Administering Avaya Aura® System Manager for Release 8.0, Release 8.0. Issue 3. September 2018.

Fonolo provides their documentation upon delivery of their products/services.

# Appendix A

## **Avaya Communication Server 1000 R7.6 - Linux Patches**

	Release: 7					
-	em patches:					
PATCH#	NAME	IN_SERVICE	DATE	SPECINS	TYPE	RPM
17	p33125_1	Yes	19/02/16	NO	FRU	cs1000-0S-1.00.00.00-00.noarch
18	p33274_1	Yes	19/02/16	YES	FRU	initscripts-8.45.25-1.el5.i386
19	p33384_1	Yes	19/02/16	NO	FRU	cs1000-OS-1.00.00.00-00.noarch
21	p33493_1	Yes	19/02/16	NO	FRU	cs1000-OS-1.00.00.00-00.noarch
23	p33557_1	Yes	19/02/16	YES	FRU	cs1000-OS-1.00.00.00-00.noarch
47	p33774_1	Yes	04/07/17	YES	FRU	cs1000-OS-1.00.00.00-00.noarch
48	p31484_1	Yes	19/02/16	NO	FRU	cs1000-shared-general-7.65.16-00.i386
67	p33584_1	Yes	06/07/16	YES	FRU	cs1000-OS-1.00.00.00-00.noarch
68	p33673_1	Yes	06/07/16	NO	FRU	net-snmp-5.3.2.2-5.el5.i386
-		updates: 46				
PATCH#	IN_SERVICE		SPECINS	REMOVABL		
0	Yes	04/07/17	YES	YES		1000-bcc-7.65.16.23-19.i386.000
1	Yes	05/07/16	YES	YES	cs.	1000-patchWeb-7.65.16.23-2.i386.000
2	Yes	19/02/16	NO	YES	cs:	1000-snmp-7.65.16.21-00.i686.000
3	Yes	19/02/16	YES	YES	cs:	1000-ipsec-7.65.16.22-1.i386.000
4	Yes	19/02/16	YES	YES	cs.	1000-csoneksvrmgr-7.65.16.22-5.i386.000
5	Yes	19/02/16	YES	YES	cs.	1000-baseWeb-7.65.16.22-4.i386.000
7	Yes	19/02/16	NO	YES		sh-3.2-33.el5 11.4.i386.000
8	Yes	19/02/16	NO	YES	lil	$0 \times m12 - 2.6.26 - \overline{2}.1.25.e15 11.i386.000$
9	Yes	19/02/16	NO	YES		oxm12-python-2.6.26-
2.1.25.	el5 11.i386	.000				
10	Yes	19/02/16	NO	YES	fre	eetype-2.2.1-32.el5 9.1.i386.000
11	Yes	19/02/16	NO	YES	csi	1000-cppmUtil-7.65.16.23-4.i686.000
14	Yes	04/07/17	YES	YES		1000-linuxbase-7.65.16.23-35.i386.000
15	Yes	04/07/17	NO	YES		1000-Jboss-Quantum-7.65.16.23-12.i386.000
16	Yes	05/07/16	YES	YES		1000-dmWeb-7.65.16.23-5.i386.000
20	Yes	04/07/17	NO	YES		1000-cs1000WebService 6-0-7.65.16.23-
6.i386.		<i>,,</i>				
22	Yes	04/07/17	YES	YES	CS.	1000-dbcom-7.65.16.23-1.i386.000
25	Yes	19/02/16	NO	YES		1000-shared-carrdtct-7.65.16.21-
01.i386		13/02/10	110	120	00.	iooo sharea carracce 7.00.10.21
26	Yes	04/07/17	YES	YES	CS.	1000-emWeb 6-0-7.65.16.23-8.i386.000
28	Yes	19/02/16	NO	YES		1000-shared-omm-7.65.16.21-2.i386.000
29	Yes	19/02/16	YES	YES		1000-emWebLocal 6-0-7.65.16.22-1.i386.000
30	Yes	04/07/17	YES	YES		1000-mscAttn-7.65.16.23-15.i386.000
31	Yes	04/07/17	YES	YES		1000-oam-logging-7.65.16.23-1.i386.000
32	Yes	04/07/17	NO	YES		1000-pd-7.65.16.23-1.i386.000
33	Yes	04/07/17	YES	YES		1000-shared-pbx-7.65.16.23-3.i386.000
34	Yes	04/07/17	YES	YES		1000-shared-pbx-7.03.10.23-3.1380.000 1000-tps-7.65.16.23-21.1386.000
35		04/07/17	YES	YES		1000-tps-7.65.16.23-21.1386.000 1000-vtrk-7.65.16.23-123.i386.000
36	Yes	04/07/17	YES			k-1.6.0 151-fcs.i586.000
	Yes			YES		
37 38	Yes	19/02/16 19/02/16	NO	YES		1000-gk-7.65.16.22-1.i386.000
	Yes		YES	YES		1000-shared-xmsg-7.65.16.22-1.i386.000
39 40	Yes	19/02/16	NO	YES		1000-sps-7.65.16.23-1.i386.000
	Yes	19/02/16	YES	YES		1000-cs-7.65.P.100-03.i386.000
41	Yes	04/07/17	YES	YES		rnel-2.6.18-419.el5.i686.000
42	Yes	04/07/17	YES	YES		enssl-0.9.8e-40.el5_11.i386.000
43	Yes	04/07/17	NO	YES		ss_harden-7.65.16.23-2.i386.000
44	Yes	19/02/16	YES	YES		1000-ftrpkg-7.65.16.23-1.i386.000
45	Yes	04/07/17	NO	YES		ap-7.65.16.23-1.i386.000
46	Yes	04/07/17	NO	yes		data-2016g-2.el5.i386.000
50	Yes	06/07/16	NO	YES	CS.	1000-shared-tpselect-7.65.16.23-
1.i386.		06/65/116				1000 77 1 7 65 16 00 0 1006 000
51	Yes	06/07/16	YES	YES		1000-csmWeb-7.65.16.23-2.i386.000
53	Yes	06/07/16	YES	YES		1000-csv-7.65.16.23-4.i386.000
56	Yes	06/07/16	YES	YES		1000-mscAnnc-7.65.16.23-1.i386.000
57	Yes	06/07/16	YES	YES		1000-mscConf-7.65.16.23-1.i386.000
58	Yes	06/07/16	YES	YES		1000-mscMusc-7.65.16.23-1.i386.000
59	Yes	06/07/16	YES	YES		1000-mscTone-7.65.16.23-1.i386.000
61	Yes	06/07/16	YES	YES		aya-cs1000-cnd-4.0.48-1.el5.i386.000
62	Yes	06/07/16	NO	YES	li	ossh2-1.4.2-2.el5_7.1.i386.000

#### Avaya Communication Server 1000 R7.6 - Call Server Patches

```
VERSTON 4121
RELEASE 7
ISSUE 65 P +
DepList 1: core Issue: 01 (created: 2017-06-30 10:51:38 (est))
IN-SERVICE PEPS
PAT# CR #
                           PATCH REF #
                                               NAME
                                                             DATE
                                                                             FILENAME
                                                                                                SPECINS
0000 wi01185642 ISS1:10F1
0001 wi01171467 ISS1:10F1
0002 wi01080753 ISS1:10F1
0003 wi01101969 ISS1:10F1
                                               p33342 1 21/09/2018 p33342 1.cpl
                           ISS1:10F1
                                               p33270 1 21/09/2018 p33270 1.cpl
                                              p32518_1 21/09/2018 p32518_1.cpl
p32726_1 21/09/2018 p32726_1.cpl
                                                                                                NO
                                                                                                NO
                                              p32988_1 21/09/2018 p32988_1.cpl
                         ISS1:10F1
0004 wi01127527
                                                                                                YES
                                             p32734_1 21/09/2018 p32734_1.cpl
p33269_1 21/09/2018 p33269_1.cpl
p32136_1 21/09/2018 p32136_1.cpl
0005 wi01096910
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                                                                                                NO
                           ISS1:10F1
0006 wi01156086
                                                                                                NO
                         ISS1:10F1
0007 wi01025156
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0008 wi01146705
                        ISS1:10F1
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                                                                                                NO
                                             p33191_1 21/09/2018 p33191_1.cpl
p32796_1 21/09/2018 p32796_1.cpl
p32658 1 21/09/2018 p32658 1.cpl
                          ISS1:10F1
ISS1:10F1
0009 wi01138136
                                                                                                NO
0010 wi01099810
                                                                                                NΟ
                         ISS1:10F1
0011 wi01085855
                                                                                                NO
                                            p33229_1 21/09/2018 p33229_1.cpl
p32877_1 21/09/2018 p32877_1.cpl
p32379_1 21/09/2018 p32379_1.cpl
0012 wi01163826
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                                                                                                NO
                          ISS1:10F1
ISS1:10F1
0013 wi01113712
                                                                                                NO
0014 wi01060826
                                                                                                NO
0015 wi01199608
                         ISS1:10F1
                                              p33414 1 21/09/2018 p33414 1.cpl
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p32954_1 21/09/2018 p32954_1.cpl
p33541_1 21/09/2018 p33541_1.cpl
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0018 CS1000-6964 ISS1:10F1
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p33621_1 21/09/2018 p33621_1.cpl
p32951_1 21/09/2018 p32951_1.cpl
0019 wi01120406
                         ISS1:10F1
                                                                                                NO
0020 cs1000-7160 ISS1:10F1
                                                                                                NO
0021 wi01129098
0022 wi01110593
                                                                                                NΟ
                         ISS1:10F1
                                              p32849_1 21/09/2018 p32849_1.cpl
                                                                                                NO
                                             p32883_1 21/09/2018 p32883_1.cpl
p33783_1 21/09/2018 p33783_1.cpl
p33508_1 21/09/2018 p33508_1.cpl
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ISS1:10F1
0023 wi01077639
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0024 CS1000-7607
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0025 CS1000-6789 ISS1:10F1
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p33045_1 21/09/2018 p33045_1.cpl
0026 wi01156999 ISS1:10F1
0027 wi01167427 ISS1:10F1
0028 wi01123389 ISS1:10F1
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                          ISS1:10F1
ISS1:10F1
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                                                                                                NO
                                              p33481_1 21/09/2018 p33481_1.cpl
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0032 wi01114695
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0034 wi01132902
                                                                                                NO
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0036 wi01076948
0030 wi01215810
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0038 wi01094832
                                                                                                NO
                         ISS1:10F1
0039 wi01127138
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p33555_1 21/09/2018 p33555_1.cpl
p32848_1 21/09/2018 p32848_1.cpl
0040 wi01095255
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0040 wrotosca
0041 cs1000-6998
                          ISS1:10F1
ISS1:10F1
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0042 wi01094727
0043 wi01090535
                                                                                                NΟ
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                         ISS1:10F1
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p33794_1 21/09/2018 p33794_1.cpl
p32503_1 21/09/2018 p32503_1.cpl
                         ISS1:10F1
ISS1:10F1
0044 wi01151898
                                                                                                NΟ
0045 CS1000-7624
                                                                                                NO
                         ISS1:10F1
0046 wi01062607
                     ISS1:10F1
ISS1:10F1
0047 wi01147983
                                             p33141_1 21/09/2018 p33141_1.cpl
                                                                                                NO
                                          ISS1:10F1
ISS1:10F1
0048 wi01151870
                                                                                                YES
0049 wi01190506
                                                                                                NO
0050 CS1000-7406 ISS1:10F1
                                              p33023_1 21/09/2018 p33023_1.cpl
p32383_1 21/09/2018 p32383_1.cpl
0051 wi01132222 ISS1:10F1 0052 wi01070585 ISS1:10F1
                                                                                                NO
                                               p32383_1 21/09/2018 p32383_1.cpl
p33172_1 21/09/2018 p33172_1.cpl
                                                                                                NO
                         ISS1:10F1
0053 wi01153844
                                                                                                NΟ
                         ISS1:10F1
0054 wi01142792
                                              p33099 1 21/09/2018 p33099 1.cpl
                                                                                                NO
                           ISS1:10F1
ISS1:10F1
                                              p32534 1
                                                             21/09/2018 p32534_1.cpl
0055 WI01077073
                                                                                                NO
                                               p33332 1 21/09/2018 p33332 1.cpl
0056 wi01186846
                                                                                                NΟ
                                              p33231 1 21/09/2018 p33231 1.cpl
0057 wi01159931
                           ISS1:10F1
                                                                                                YES
                           ISS1:10F1
0058 wi01053597
                                              p32304_1 21/09/2018 p32304_1.cpl
                                                                                                NΟ
                                           p33780_1 21/09/2018 p33780_1.cpl
0059 CS1000-7590 ISS1:10F1
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0063 wi01165881	ISS1:10F1	p33239 1	21/09/2018	p33239 1.cpl	NO
0064 wi01149384	ISS1:10F1	p33147_1	21/09/2018	p33147_1.cpl	NO
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0067 wi01146766	ISS1:10F1	p33131 1	21/09/2018	p33131 1.cpl	NO
0068 wi01150083	ISS1:10F1	p33152 1	21/09/2018	p33152 1.cpl	NO
0069 wi01163048	ISS1:10F1	p33223_1	21/09/2018	p33223_1.cpl	YES
0070 wi01189247	ISS1:10F1	p33382_1	21/09/2018	p33382_1.cpl	YES
0071 wi01070279	ISS1:10F1	p32262 1	21/09/2018	p32262 1.cpl	NO
0072 wi01075353	ISS1:10F1	p32613 1	21/09/2018	p32613 1.cpl	NO
0073 wi01108828	ISS1:10F1	p32831 1	21/09/2018	p32831 1.cpl	NO
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0079 wi01021522	ISS1:10F1	p32863_1	21/09/2018	p32863_1.cpl	NO
0080 wi01191767	ISS1:10F1	p33368_1	21/09/2018	p33368_1.cpl	NO
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0106 wi01133106	ISS1:10F1	p33032_1	21/09/2018	p33032_1.cpl	NO
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Discription						
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0237 wi01201986	ISS1:10F1	p33433 1	21/09/2018	p33433 1.cpl	NO
0238 wi01175294	ISS1:10F1	p33290 1	21/09/2018	p33290 1.cpl	NO
0239 wi01104867	ISS1:10F1	p32828 1	21/09/2018	p32828 1.cpl	NO
0240 wi01201045	ISS1:10F1	p33424 1	21/09/2018	p33424 1.cpl	YES
0241 wi01082456	ISS1:10F1	p32596_1	21/09/2018	p32596_1.cpl	NO
0242 wi01133960	ISS1:10F1	p33034_1	21/09/2018	p33034_1.cpl	NO
0243 wi01035976	ISS1:10F1	p32173 1	21/09/2018	p32173 1.cpl	NO
0244 wi01008182	ISS1:10F1	p33277 1	21/09/2018	p33277 1.cpl	NO
0245 wi01166065	ISS1:10F1	p33241 1	21/09/2018	p33241 1.cpl	NO
0246 wi01098433	ISS1:10F1	p32736_1	21/09/2018	p32736_1.cpl	NO
0247 wi01088797	ISS1:10F1	p32844_1	21/09/2018	p32844_1.cpl	NO
0248 wi01102475	ISS1:10F1	p32782 1	21/09/2018	p32782 1.cpl	YES
0249 CS1000-7326	ISS1:10F1	p33699 1	21/09/2018	p33699 1.cpl	NO
0250 wi01134354	ISS1:10F1	p33031 1	21/09/2018	p33031 1.cpl	NO
0251 wi01056633		p32322 1		p32322 1.cpl	NO
	ISS1:10F1		21/09/2018		
0252 CS1000-6794	ISS1:10F1	p33539_1	21/09/2018	p33539_1.cpl	NO
0253 wi01106658	ISS1:10F1	p32812_1	21/09/2018	p32812_1.cpl	NO
0254 wi01068011	ISS1:10F1	p33182 1	21/09/2018	p33182 1.cpl	NO
0255 wi01118928	ISS1:10F1	p32922 1	21/09/2018	p32922 1.cpl	NO
0256 wi01097598		p32727_1	21/09/2018	p32727_1.cp1	
	ISS1:10F1				NO
0257 wi01187059	ISS1:10F1	p33346_1	21/09/2018	p33346_1.cpl	NO
0258 CS1000-7339	ISS1:10F1	p33708_1	21/09/2018	p33708_1.cpl	NO
0259 wi01181197	ISS1:10F1	p33317 1	21/09/2018	p33317 1.cpl	NO
0260 wi01043367	ISS1:10F1	p32232 1	21/09/2018	p32232 1.cpl	NO
0261 wi01146804	ISS1:10F1	p33132 1	21/09/2018	p33132 1.cpl	NO
0262 wi01088775	ISS1:10F1	p32659_1	21/09/2018	p32659_1.cpl	NO
0263 wi01034961	ISS1:10F1	p32144_1	21/09/2018	p32144_1.cpl	NO
0264 CS1000-6791	ISS1:10F1	p33501 1	21/09/2018	p33501 1.cpl	YES
0265 wi01093118	ISS1:10F1	p32496 1	21/09/2018	p32496 1.cpl	NO
0266 wi01068922	ISS1:10F1	p32454 1	21/09/2018	p32454 1.cpl	NO
0267 wi01214452	ISS1:10F1	p33488_1	21/09/2018	p33488_1.cpl	NO
0268 cs1000-6845	ISS1:10F1	p33509_1	21/09/2018	p33509_1.cpl	NO
0269 wi01132883	ISS1:10F1	p33030_1	21/09/2018	p33030_1.cpl	NO
				_	

0270 wi01060241	ISS1:10F1	p32381 1	21/09/2018	p32381 1.cpl	NO
0271 wi01070756	ISS1:10F1	p32444 1	21/09/2018	p32444 1.cpl	NO
0272 wi01065118	ISS1:10F1	p32397 1		p32397 1.cpl	NO
0273 wi01069441	ISS1:10F1	p32097_1			NO
		_			
0274 WI01108562	ISS1:10F1	p32832_1	21/09/2018		NO
0275 wi01212017	ISS1:10F1	p33482_1	21/09/2018	p33482_1.cpl	YES
0276 CS1000-7461	ISS1:10F1	p33736 1	21/09/2018	p33736 1.cpl	NO
0277 CS1000-6752	ISS1:10F1	p33540 1	21/09/2018	p33540 1.cpl	NO
0278 wi01075540	ISS1:10F1	p32492 1	21/09/2018		NO
0279 wi01075340					NO
	ISS1:10F1	p32731_1			
0280 wi01133985	ISS1:10F1	p33049_1		p33049_1.cpl	NO
0281 wi01173768	ISS1:10F1	p33288_1	21/09/2018	p33288_1.cpl	NO
0282 CS1000-7293	ISS1:10F1	p33679 1	21/09/2018	p33679 1.cpl	NO
0283 wi01053314	ISS1:10F1	p32555 1	21/09/2018	p32555 1.cpl	NO
0284 wi01099606	iss1:1of1	p32713 1			NO
0285 wi01041453		p32587 1			NO
	ISS1:10F1	_			
0286 wi01094305	ISS1:10F1	p32640_1			NO
0287 wi01060382	iss1:1of1	p32623_1	21/09/2018	p32623_1.cpl	YES
0288 wi01142100	ISS1:10F1	p33090 1	21/09/2018	p33090 1.cpl	NO
0289 wi01165870	ISS1:10F1	p33238 1		p33238 1.cpl	NO
0290 wi01135146	ISS1:10F1	p33033 1			NO
0291 wi01178476	ISS1:10F1	p33305_1			NO
0292 CS1000-7549	ISS1:10F1	p33767_1	21/09/2018	p33767_1.cpl	YES
0293 wi01124074	ISS1:10F1	p32989 1	21/09/2018	p32989 1.cpl	NO
0294 wi01203516	ISS1:10F1	p33438 1			NO
0295 wi01153896	ISS1:10F1	p33185_1			NO
0296 CS1000-7337	ISS1:10F1	p33696_1		p33696_1.cpl	NO
0297 wi01147091	ISS1:10F1	p33137_1			NO
0298 wi01111194	ISS1:10F1	p32821 1	21/09/2018	p32821 1.cpl	NO
0299 wi01124477	ISS1:10F1	p32963 1	21/09/2018	p32963 1.cpl	NO
0300 wi01088055	ISS1:10F1	p32607 1			NO
0301 wi01134799	ISS1:10F1	p33069 1			NO
0302 wi01099292	ISS1:10F1	p32886_1			NO
0303 wi01144609	ISS1:10F1	p33119_1	21/09/2018	p33119_1.cpl	NO
0304 wi01096967	ISS1:10F1	p32735 1	21/09/2018	p32735 1.cpl	NO
0305 wi01100508	ISS1:10F1	p32761 1	21/09/2018	p32761 1.cpl	NO
0306 wi01132599	ISS1:10F1	p33025 1		p33025 1.cpl	NO
0307 cs1000-7223					
	ISS1:10F1	p33647_1	21/09/2018	p33647_1.cpl	YES
0308 wi01141625	ISS1:10F1	p33324_1		p33324_1.cpl	NO
0309 wi01127874	ISS1:10F1	p25747_1	21/09/2018	p25747_1.cpl	NO
0310 wi00897254	ISS1:10F1	p31127 1	21/09/2018	p31127 1.cpl	NO
0311 wi01130815	ISS1:10F1	p33017 1	21/09/2018	p33017 1.cpl	NO
0312 wi01071379	ISS1:10F1	p32522 1			NO
0313 wi01064599	iss1:1of1	p32580_1	21/09/2018	p32580_1.cpl	NO
0314 wi01185441	ISS1:10F1	p33341_1	21/09/2018	p33341_1.cpl	NO
0315 wi01154485	ISS1:10F1	p33194 1	21/09/2018	p33194 1.cpl	NO
0316 wi01146289	ISS1:10F1	p33146 1	21/09/2018	p33146 1.cpl	NO
0317 wi01053195	ISS1:10F1	p32297 1	21/09/2018	p32297 1.cpl	NO
0317 W101033133	ISS1:10F1			p33526 1.cpl	NO
0319 wi01053920	ISS1:10F1	p32303_1		p32303_1.cpl	NO
0320 wi01058378	ISS1:10F1	p32344_1		p32344_1.cpl	NO
0321 wi01193201	ISS1:10F1	p33381_1	21/09/2018	p33381_1.cpl	YES
0322 CS1000-7248	ISS1:10F1	p32811 1	21/09/2018	p32811 1.cpl	NO
0323 CS1000-7637	ISS1:10F1	p33791 1	21/09/2018	p33791 1.cpl	YES
0324 CS1000-7366	ISS1:10F1	p33702 1		p33702 1.cpl	NO
0325 CS1000-7143	ISS1:10F1	p33614_1	21/09/2018	p33614_1.cpl	NO
0326 CS1000-7231	ISS1:10F1	p33652_1	21/09/2018	p33652_1.cpl	NO
0327 CS1000-7154	ISS1:10F1	p33619_1	21/09/2018	p33619_1.cpl	NO
0328 CS1000-7448	ISS1:10F1	p33729 1	21/09/2018	p33729 1.cpl	NO
0329 CS1000-6980	ISS1:10F1	p33586 1	21/09/2018	p33586 1.cpl	NO
0330 CS1000-7106	ISS1:10F1	p33598 1	21/09/2018	p33598 1.cpl	NO
0331 CS1000-7052	ISS1:10F1	p33573_1	21/09/2018	p33573_1.cpl	NO
0332 CS1000-7313	ISS1:10F1	p33692_1	21/09/2018	p33692_1.cpl	NO
0333 CS1000-7253	ISS1:10F1	p33662_1	21/09/2018	p33662_1.cpl	NO
0334 CS1000-7101	ISS1:10F1	p33641 1	21/09/2018	p33641 1.cpl	NO
0335 CS1000-7267	ISS1:10F1	p33669 1	21/09/2018	p33669 1.cpl	NO
0336 cs1000-7580		p33776 1	21/09/2018	p33776 1.cpl	NO
	ISS1:10F1	_			
0337 CS1000-7171	ISS1:10F1	p33626_1	21/09/2018	p33626_1.cpl	NO
0338 cs1000-7162	ISS1:10F1	p33625_1	21/09/2018	p33625_1.cpl	NO
0339 CS1000-7086	ISS1:10F1	p33587_1	21/09/2018	p33587_1.cpl	NO
				<del>-</del>	

0340 CS1000-7286	ISS1:10F1	p33686 1	21/09/2018	p33686 1.cpl	NO			
0341 CS1000 7200	ISS1:10F1	p33596 1	21/09/2018	p33596 1.cpl	NO			
0341 CS1000 7103	ISS1:10F1	p33590_1	21/09/2018	p33597 1.cpl	NO			
0343 CS1000-0340	ISS1:10F1	p33793 1	21/09/2018	p33793 1.cpl	NO			
0344 CS1000-7408								
	ISS1:10F1	p33648_1	21/09/2018	p33648_1.cpl	NO			
0345 CS1000-7015	ISS1:10F1	p33606_1	21/09/2018	p33606_1.cpl	NO			
0346 cs1000-7217	ISS1:10F1	p33643_1	21/09/2018	p33643_1.cpl	NO			
0347 CS1000-7003	ISS1:10F1		21/09/2018	p33561_1.cpl	NO			
0348 CS1000-7489	ISS1:10F1	p33747_1	21/09/2018	p33747_1.cpl	NO			
0349 CS1000-7296	ISS1:10F1	p33681_1	21/09/2018	p33681_1.cpl	NO			
0350 CS1000-7062	ISS1:10F1	± · · · · —	21/09/2018	p33579_1.cpl	NO			
0351 CS1000-7140	ISS1:10F1		21/09/2018	p33624_1.cpl	NO			
0352 CS1000-6712	ISS1:10F1	p33752_1	21/09/2018	p33752_1.cpl	NO			
0353 cs1000-7029	ISS1:10F1	p33563 1	21/09/2018	p33563 1.cpl	NO			
0354 CS1000-7202	ISS1:10F1	p33646 1	21/09/2018	p33646 1.cpl	NO			
0355 CS1000-7323	ISS1:10F1	p33688 1	21/09/2018	p33688 1.cpl	NO			
0356 CS1000-7514	ISS1:10F1	p33764 1	21/09/2018	p33764 1.cpl	YES			
0357 CS1000-7587	ISS1:10F1	p33779 1	21/09/2018	p33779 1.cpl	NO			
0358 CS1000-7236	ISS1:10F1	p33753 1	21/09/2018	p33753 1.cpl	NO			
0359 CS1000-7472	ISS1:10F1	p33778 1	21/09/2018	p33778 1.cpl	NO			
0360 CS1000-7534	ISS1:10F1	p33759 1	21/09/2018	p33759 1.cpl	NO			
0361 CS1000-7462	ISS1:10F1		21/09/2018	p33737 1.cpl	NO			
0362 CS1000-7423	ISS1:10F1		21/09/2018	p33720 1.cpl	NO			
0363 CS1000-7340	ISS1:10F1	p33694 1	21/09/2018	p33694 1.cpl	NO			
0364 CS1000-7469	ISS1:10F1			p33739 1.cpl	NO			
0365 CS1000-7564	ISS1:10F1				NO			
0366 CS1000-7500	ISS1:10F1		21/09/2018	p33754 1.cpl	YES			
					110			
MDP>LAST SUCCESSFUL MDP REFRESH :2017-07-04 15:18:22(Local Time) MDP>USING DEPLIST ZIP FILE DOWNLOADED :2017-06-30 15:52:25(est)								
WINES OF THE TOWN TOWN TOWN TOWN TOWN TOWN TO								

## Appendix B

### Avaya Communication Server 1000 Route for SIP Signalling Gateway

```
ld 21
PT1000
REQ: prt
TYPE: rdb
CUST 0
ROUT 6
TYPE RDB
CUST 00
ROUT 6
DES SIP_N510
TKTP TIE
M911P NO
ESN NO
RPA NO
CNVT NO
SAT NO
RCLS EXT
VTRK YES
ZONE 00002
PCID SIP
CRID NO
SBWM NO
NODE 510
DTRK NO
ISDN YES
   MODE ISLD
   DCH 5
   IFC SL1
PNI 00001
   NCNA YES
   NCRD YES
    TRO YES
   FALT NO
   CTYP UKWN
   INAC YES
    ISAR NO
   DAPC NO
MBXR NO
MBXOT NPA
MBXT 0
PTYP ATT
CNDP UKWN
AUTO NO
DNIS NO
DCDR NO
ICOG IAO
SRCH LIN
TRMB YES
STEP
ACOD 8006
TCPP NO
PII NO
AUXP NO
TARG 01
CLEN 1
BILN NO
OABS
INST
IDC YES
DCNO 0
NDNO 0 *
DEXT NO
```

```
DNAM NO
ANTK
SIGO STD
STYP SDAT
MFC NO
ICIS YES
OGIS YES
PAGE 002
PTUT 0
TIMR ICF 512
OGF 512
     EOD 13952
     DSI 34944
NRD 10112
DDL 70
ODT 4096
RGV 640
GTO 896
     GTI 896
     SFB 3
NBS 2048
     NBL 4096
      IENB 5
      TFD 0
      VSS 0
      VGD 6
      EESD 1024
SST 5 0
DTD NO
SCDT NO
2 DT NO
NEDC ORG
FEDC ORG
CPDC NO
DLTN NO
HOLD 02 02 40
SEIZ 02 02
SVFL 02 02
DRNG NO
CDR NO
NATL YES
SSL
CFWR NO
IDOP NO
VRAT NO
MUS NO
PANS YES
RACD NO
MANO NO
FRL 0 0
FRL 1 0
FRL 2 0
FRL 3 0
FRL 4 0
FRL 5 0
FRL 6 0
FRL 7 0
OHQ NO OHQT 00
CBQ NO
AUTH NO
TDET NO
TTBL 0
ATAN NO
OHTD NO
PLEV 2
```

```
OPR NO
ALRM NO
ART 0

PAGE 003

PECL NO
DCTI 0

TIDY 8006 6

ATRR NO
TRRL NO
SGRP 0
CCBA NO
ARDN NO
CTBL 0

AACR NO
```

## Avaya Communication Server 1000 D-Channel for SIP Signalling Gateway

```
>1d 22
PT2000
REQ prt
TYPE adan dch 5
ADAN DCH 5
 CTYP DCIP
 DES Vtrk_SIP_SIPL USR ISLD
  ISLM 4000
  SSRC 3700
  OTBF 32
  NASA YES
  IFC SL1
  CNEG 1
  RLS ID 7
  RCAP ND2 TAT
  MBGA NO
  H323
    OVLR NO
   OVLS NO
```

## Avaya Communication Server 1000 Trunk Channel for SIP Signalling Gateway

```
>1d 20
PT0000
REQ: prt
TYPE TNB
TN 100 0 3 0
DES SIP_N510
TN 100 0 03 00 VIRTUAL
TYPE IPTI
CDEN 8D
CUST 0
XTRK VTRK
ZONE 00002
LDOP BOP
TIMP 600
BIMP 600
AUTO_BIMP NO
NMUS NO
TRK ANLG
NCOS 0
RTMB 6 1
CHID 65
TGAR 1
STRI/STRO IMM IMM
SUPN YES
AST NO
IAPG 0
CLS UNR DTN CND ECD WTA LPR APN THFD XREP SPCD MSBT
    P10 NTC MID
TKID
AACR NO
```

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