

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Trio Enterprise R3.2 with Avaya Communication Server 1000E R7.5 and Avaya Aura® Session Manager R6.1 using a SIP connection – Issue 1.0

Abstract

These Application Notes describe how to configure an Avaya Communication Server 1000E R7.5 to interface with Trio Enterprise R3.2, which is operating as an attendant answering position. Trio Enterprise is a software application installed on a Windows server that interfaces with Avaya Communication Server 1000E using a SIP connection via Avaya Aura® Session Manager R6.1 and provides users with the call functions of an attendant console without having to install a hardware attendant position.

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 compliance tested configuration for Avaya Communication Server 1000E R7.5 with Trio Enterprise R3.2. Trio Enterprise is a client/server based application running on Microsoft Windows operating systems. Trio Enterprise provides users with an attendant answering position for Avaya Communication Server 1000E that does not need attendant telephony hardware e.g., Avaya 2250 attendant console. Trio Enterprise connects to the Avaya Communication Server 1000E using a SIP connection via Avaya Aura® Session Manager R6.1. Calls are made over trunks to PSTN destinations as well as internal Avaya Communication Server 1000E users. Trio Enterprise can perform the usual range of attendant call functions, i.e., centralized answering position; extend PSTN calls to users, place PSTN calls on behalf of internal users, perform internal telephone directory lookups.

Note: The Trio Enterprise server places a call to the attendant's deskphone, for compliance testing an Avaya 1140Ewas used. When the attendant is called the Trio Enterprise server calls the 1140E and bridges the call.

2. General Test Approach and Test Results

The general test approach was to configure a simulated enterprise voice network using a Communication Server 1000E (CS1000E). The Trio Enterprise server uses a SIP connection to the CS1000E call server via Session Manager. See **Figure 1** for a network diagram. A basic Distance Steering Code configuration (DSC) was configured on the CS1000E to route all calls to the Trio attendant position.

During tests, calls are placed to a number associated with the Trio attendant position. The CS1000E routes all calls destined for the Trio Enterprise server over the SIP connection. The Trio Enterprise server then automatically places a call to the telephone the attendant is using for answering purposes. When the attendant answers the call, the Trio server bridges the two calls. When the attendant extends the call to another phone, Trio Enterprise server performs a SIP path replacement and the caller and the called user are now directly connected. It is possible to have multiple Trio attendant positions on a CS1000E system.

A variety of Avaya telephones were installed and configured on the CS1000E. The Trio attendant client provides a view of contacts, schedules, and communication tasks and was installed on the same server as the Trio Server, but can be installed on a separate platform if required.

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 compatibility tests included the following.

- Attendant answers direct call
- Supervised and unsupervised transfer with answer
- Directing calls to busy extensions
- Call queuing and retrieval
- Loop detection for busy and unanswered extensions

2.2. Test Results

Tests were performed to insure full interoperability between the Trio Enterprise and the CS1000E. The tests were all functional in nature and performance testing was not included. All the test cases passed successfully.

2.3. Support

For technical support on Trio products, please use the following web link. http://www.trio.com/web/Support.aspx

3. Reference Configuration

Figure 1 shows the network topology during compliance testing. Trio Enterprise is connected to the CS1000E using a SIP connection via Session Manager. The Trio Enterprise Server is configured as a SIP Endpoint. System Manager is used to configure Session Manager.

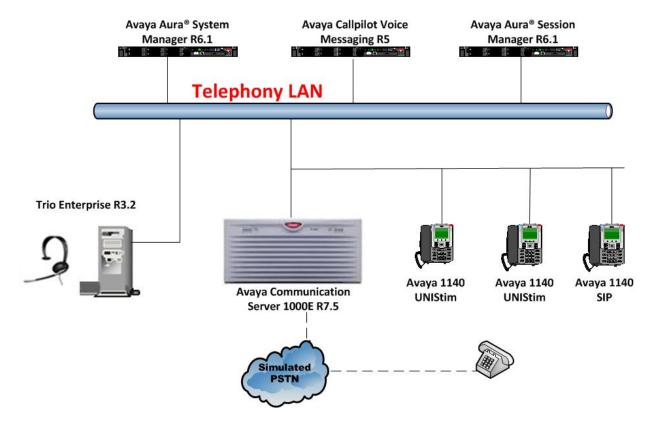


Figure 1: Configuration for Avaya Communication Server 1000E, Avaya Aura® Session Manager and Trio Enterprise R3.2

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Communication Server 1000E on CPPM	R7.5 SP1 (See Appendix A for the installed dependency list used during compliance testing)
Avaya Aura® System Manager running on Avaya S8800 Server	R6.1 SP4
Avaya Aura® Session Manager running on Avaya S8800 Server	R6.1 SP4
Avaya 1140 UNIStim Deskphone	UNIStim V0625C8D
Avaya 1140 SIP Deskphone	SIP V04.00.04.00
Avaya Call Pilot running on Avaya Callpilot 600r Server	Version 5.00.41 Patch Line-up:CP50041SU08S CP500508G09C
Trio Enterprise Running on Desktop PC (Minimum Specification Pentium IV, 3 GHz, 1 GB Ram, 1 USB Hand/Headset	Version 3.2

5. Configure Avaya Communication Server 1000E

The configuration operations illustrated in this section were performed using terminal access to the CS1000E over a telnet session. The information provided in this section describes the configuration of the CS1000E for this solution. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 10**.

Note: The configuration of the PRI interface to the PSTN is outside the scope of these Application Notes.

Note: Not all prompts need an answer. The prompts outlined below are mandatory for a basic configuration. Accept the default responses for all other prompts by pressing the return key.

5.1. Configuring Avaya Communication Server 1000E

To configure the SIP connection there are a number of steps.

- Configure Network Attendant Service (NAS) and Night (NIT) Data
- Create a D-channel for the SIP trunk
- Create Route Data Block
- Adding TIE Trunks

5.1.1. Configure NAS and NIT Data

The CS1000E is configured with attendant groups where the NAS and NIT functions route the calls between the nodes and out to Trio Enterprise. Use the **NEW** command in **LD 86** to configure **NAS**.

LD 86

Prompt	Response	Description
>	LD 86	Enter Overlay 86
REQ	NEW	New Data
CUST	0	Customer Number
FEAT	NAS	Network Attendant Service
TBL	0	NAS routing Table 0

Use the NEW command in LD 15 to configure NIT DATA.

LD 15

Prompt	Response	Description
>	LD 15	Enter Overlay 15
REQ	NEW	Change
TYPE	NIT	Night Service
CUST	0	Customer Number
NIT1	5000	Night number

5.1.2. Create a D-Channel

Use the **CHG** command in **LD 17** to create a D-channel for the SIP connection. In the example below, D-Channel 66 (i.e. **DCH 66**) was created. At the **CTYP** prompt, enter **DCIP**. This signifies the SIP D-Channel.

LD 17

Prompt	Response	Description
>	LD 17	Enter Overlay 17
REQ	CHG	Change
TYPE	ADAN	Change the Action Device and Number
ADAN	NEW	Create New Action Device and Number
TYPE	DCH 66	Create new D-Channel 66
CTYP	DCIP	Card type is IP D-Channel
USR	ISDL	Integrated Services Digital Line
IFC	SL1	D-Channel interface type

5.1.3. Create Route Data Block

Use the **NEW** command in **LD 16** to create a Route Data Block. The route created is a **TIE** route in order to connect to the Trio system.

LD 16

ED 10		
Prompt	Response	Description
>	LD 16	Enter Overlay 16
REQ	NEW	Create new
TYPE	RDB	Route Data block
CUST	0	Customer Number as defined in LD15
ROUT	20	Route Number
TKTP	TIE	Route Type
VTRK	YES	Virtual Route
PCID	SIP	Protocol ID for route
DTRK	NO	Digital Trunk Route
ISDN	YES	Integrated Services Digital Network
MODE	ISDL	mode of operation
IFC	SL1	Interface type
ACOD	8020	Access Code for trunk route

5.1.4. Adding TIE Trunks

Use the **NEW** command in **LD 14** to add (**IPTI**) **TIE** trunks to the new route created in **Section 5.1.3.** If adding multiple trunks for each route, use **NEW XX**, where XX is the number of trunks. In the example below **10** trunks were added.

LD 14

Prompt	Response	Description
>	LD 14	Enter Overlay 14
REQ	NEW 10	Create New
TYPE	IPTI	IP TIE trunk
TN	096 0 3 1	Loop Shelf Card Unit
CUST	0	Customer Number as defined in LD15
RTMB	20 1	Route number and Member number

5.2. Configure a Coordinated Dialing Plan

There are a number of ways to setup a dialing plan to call the Trio Enterprise. For the compliance testing a Coordinated Dialing Plan (CDP) was used.

5.2.1. Create a Route List Index

In order to create a CDP, a Route List Index (RLI) in overlay 86 is required. Use the **NEW** command in **LD 86** to create a **RLI**.

Note: Enter the route (**ROUT**) that was created in **Section 5.1.3**.

LD 86

Prompt	Response	Description
>LD 86	Enter Overlay 86	
REQ	NEW	Create New
CUST	0	Customer Number as defined in LD15
FEAT	RLB	Route list Block
TYPE	RLI	Route list Index
RLI	36	Route list Index number
ENTR	0	First entry for the RLI
ROUT	20	Enter the route number

5.2.2. Create CDP

Use the **NEW** command in **LD 87** to create a **CDP** entry for the Trio Enterprise. For each extension, a CDP entry needs to be created. In the example below, the **DSC** is **4000**, **FLEN** is **4** and the **RLI** is **36**.

Note: The RLI number used is the one created in Section 5.2.1.

LD 87

Prompt	Response	Description
>	LD 87	Enter Overlay 87
REQ	NEW	Create new
CUST	0	Customer Number as defined in LD15
FEAT	CDP	Coordinated dialing plan
TYPE	DSC	Distance Steering code
DSC	4000	Distant Steering code
FLEN	4	Flexible Length number of digits
RLI	36	Route list index Number

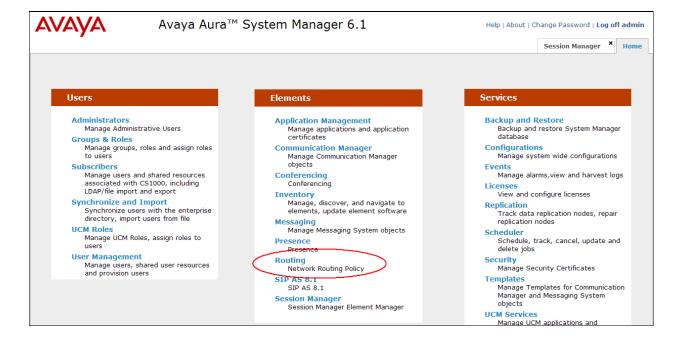
Creating a SIP Endpoint on the Avaya Aura® Session Manager for Trio Enterprise

To create the Trio Enterprise Server as a SIP Endpoint on the Session Manager, the following must be configured.

- SIP Entity
- Entity Link
- Route Policy
- Dail Pattern

Note: To get more information for any input field you can press the **Help** link at anytime.

Configuration of Session Manager is achieved by accessing the browser-based GUI of System Manager, using the URL http://<fqdn>/SMGR or http://<ip-address>/SMGR, where "<fqdn> is the fully qualified domain name of System Manager or the <ipaddress> is the IP address of System Manager. Log in with the appropriate credentials. Once logged in select the Routing link under the Elements column.



6.1. Adding Trio Enterprise SIP Entity

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

Under General:

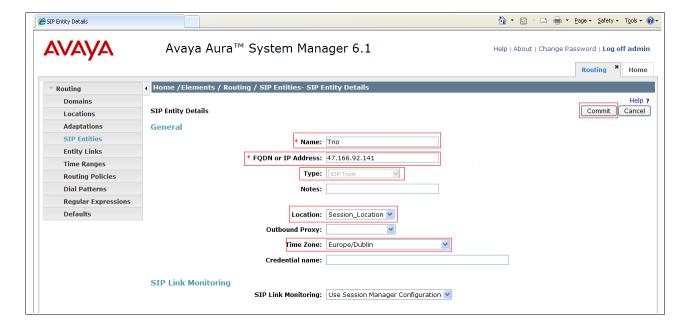
• Name An informative name (e.g., Trio)

• FQDN or IP Address IP address of the signaling interface on the Trio Enterprise

TypeLocationSIP Trunk for TrioSession Location

• Time Zone Time zone for this location Europe/Dublin

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



6.2. Adding Communication Server 1000E SIP Entity

A SIP Entity must be added for CS1000E. To add a SIP Entity, select **SIP Entities** on the left panel menu and then click on the **New** button (not shown).

Notes: A SIP Entity was already configured for the CS1000E and was called **cores3**.

Enter the following for the Trio SIP Entity:

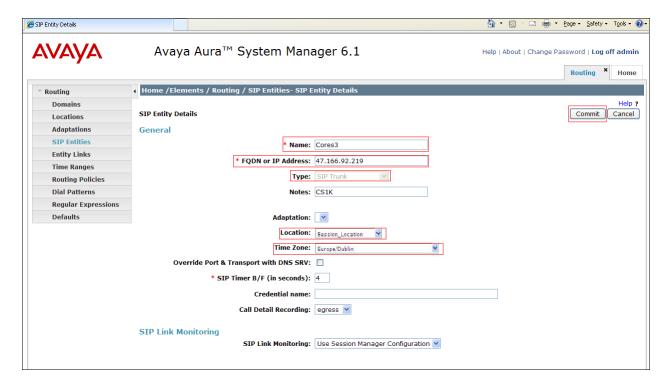
Under General:

Name An informative name (e.g., Cores3)
 FQDN or IP Address Node IP address of the CS1000E

TypeLocationSIP Trunk for Cores3Session Location

• Time Zone Time zone for this location Europe/Dublin

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



6.3. Create an Entity Link to Trio Enterprise

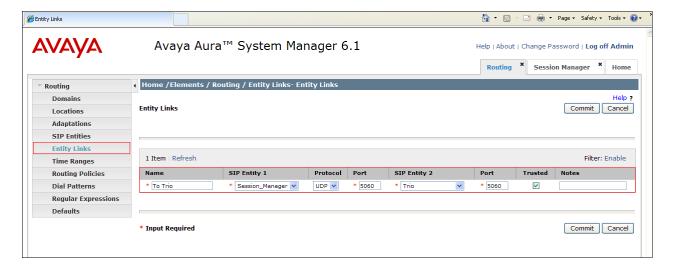
A SIP trunk between a Session Manager and the Trio Enterprise is required.

Notes: An Entity Link was already configured between Session Manager and the CS1000E and is called **to cores3**.

To add an Entity Link, select **Entity Links** on the left panel menu and click on the **New** button (not shown). Fill in the following fields in the new row that is displayed.

- Name An informative name, e.g. To Trio
- SIP Entity 1 Select Session Manager from the SIP Entity 1 dropdown box
- **Protocol** Select **UDP** from the Protocol
- **Port** Enter **5060** as the Port
- SIP Entity 2 Select Trio from the SIP Entity 2 dropdown box
- **Port** Enter **5060** as the Port
- **Trusted** Check the **Trusted** check box

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

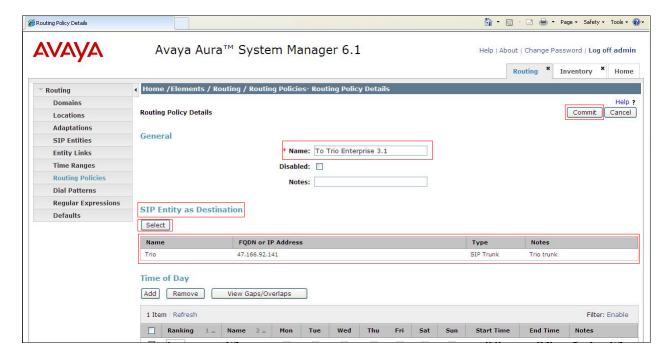


6.4. Configure Routing Policy for Trio Enterprise

Create routing policies to direct calls to Trio Enterprise. To add a routing policy, select **Routing Policies** on the left panel menu and then click on the **New** button (not shown). Under **General** enter the following:

• Name Enter an informative name, (e.g., To Trio Enterprise 3.1)

Under **SIP Entity as Destination**, click **Select**, and then check the **Trio** radio button (not shown). Click on the **Select** button to confirm the chosen options and then be returned to the **Routing Policies Details** screen and click the **Commit** button to save. The following screen shows the **Routing Policy Details** for calls to Trio.



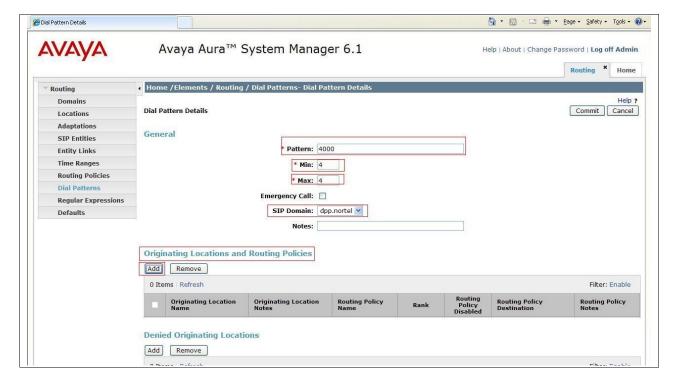
6.5. Create Trio Enterprise Dial Pattern

A dial pattern must be defined that will direct calls to the Trio Enterprise. During testing 4 numbers were used 4000, 4001, 4002, and 5030, the Domain name was **dpp.nortel**. To configure the Trio Enterprise Pattern select **Dial Patterns** on the left panel menu and then click on the **New** button (not shown).

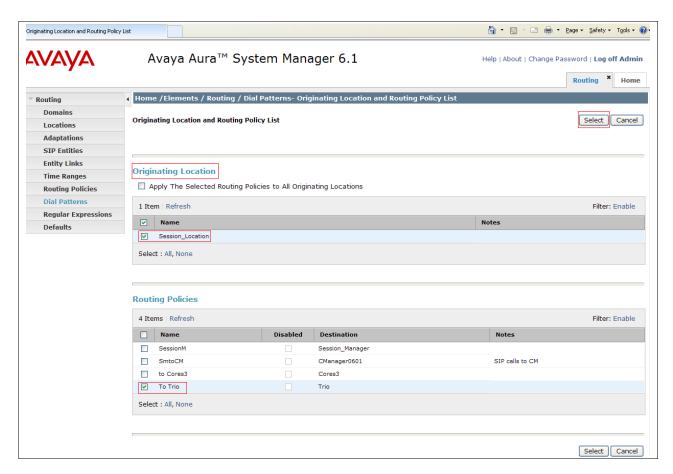
Under General carry out the following for each number.

- Pattern Dialed number or prefix 4000
- Min Minimum length of dialed number 4
 Max Maximum length of dialed number 4
- SIP Domain Selection of dpp.nortel was used in the compliance testing

Continue to Originating Locations and Routing Policy List.



Select **Add** (not shown). Under **Originating Location** check **Session_Location** check box, and under **Routing Policies** check **ToTrio** check box. Click on the **Select** button to confirm the chosen options and then be returned to the Dial Pattern screen (shown previously). Click the **Commit** button to save.

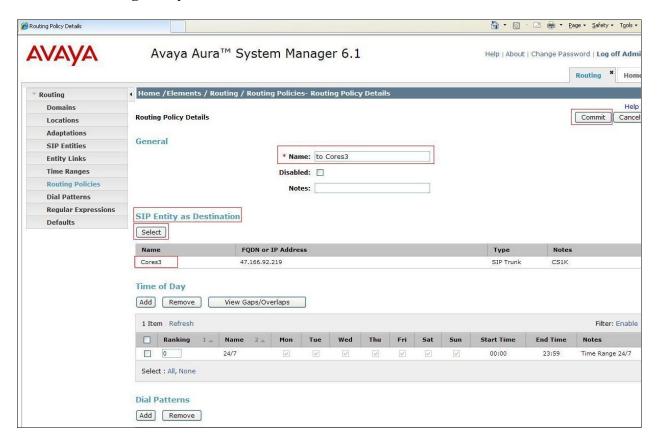


6.6. Configure Routing Policies for Communication Server 1000E

Create routing policies to direct calls to CS1000E. To add a routing policy, select **Routing Policies** on the left panel menu and then click on the **New** button (not shown). Under **General** enter the following:

• Name Enter an informative name, (e.g. to Cores3)

Under **SIP Entity as Destination**, click **Select**, and then check the **cores3** radio button (not shown). Click on the **Select** button to confirm the chosen options and then be returned to the **Routing Policies Details** screen and click the **Commit** button to save. The following screen shows the **Routing Policy Details** for calls to CS1000E.



6.7. Create Avaya Communication Server 1000E Dial Pattern

A dial pattern is defined that directs calls to the CS1000E. All numbers beginning with 5 and are 4 digits in length (for example 5180) are routed to the CS1000E. Select **Dial Patterns** on the left panel menu and then click on the **New** button (not shown).

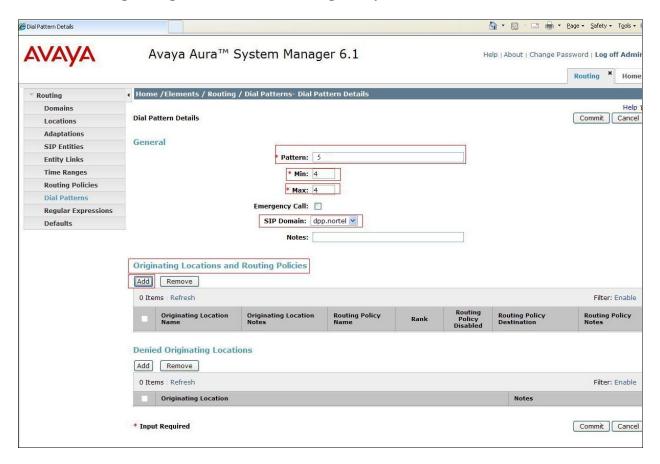
Under General carry out the following for each number.

• Pattern Dialed number or prefix 5

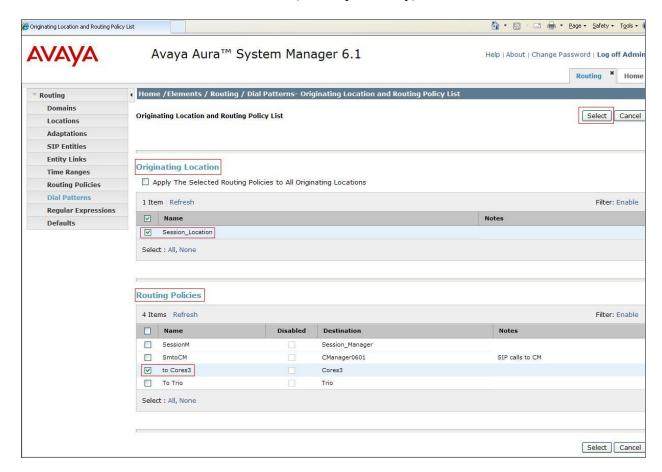
Min Minimum length of dialed number 4
Max Maximum length of dialed number 4

• SIP Domain Select dpp.nortel

Continue to Originating Locations and Routing Policy List.



Select **Add** (not shown). Under **Originating Location**, check **Session Location** check box and under **Routing Policies** select **to Cores3.** Click **Select** button to confirm the chosen options and then be returned to the Dial Pattern screen (shown previously). Click the **Commit** button to save.



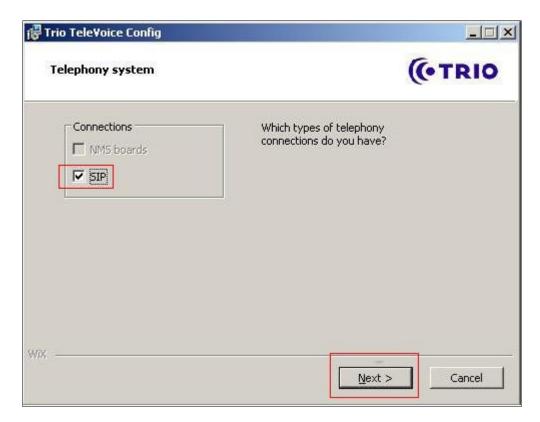
7. Configure TRIO Enterprise Server

Trio Enterprise connects to the CS1000E through Session Manager. Trio Enterprise is added to Session Manager as a SIP endpoint and calls are routed to the Trio Enterprise server according to the dial Plan setup in **Sections 5.2 and 6.5**. This section shows how to configure Trio Enterprise to successfully connect to the CS1000E using SIP trunks. The installation of the Trio Enterprise software is assumed to be completed and the Trio services are up and running. The steps to configure SIP Trunks are as follows.

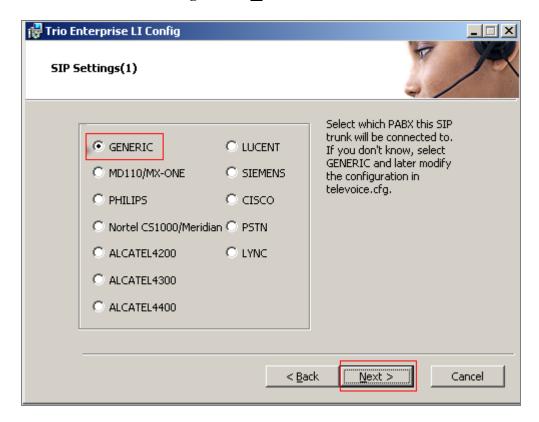
7.1. Configure Trio Enterprise to use SIP Trunks

Access Windows services, select **Start** \rightarrow **Run**, then type **services.msc** into the command line and press return (not shown). When the services window opens, locate the **Trio Televoice** service right click and select **stop** to stop the service (not shown). Launch the Trio configuration application. Select **Start** \rightarrow **Programs** \rightarrow **Trio Enterprise** \rightarrow **Line Interface** and click on the **Config** entry (not shown). The configuration application starts up and presents the screenshot below.

• Ensure the **SIP** entry in the **Connections** area is checked.



Select **GENERIC** under **SIP Settings**. Click **Next** to continue.



On the next SIP settings page, enter the following SIP settings.

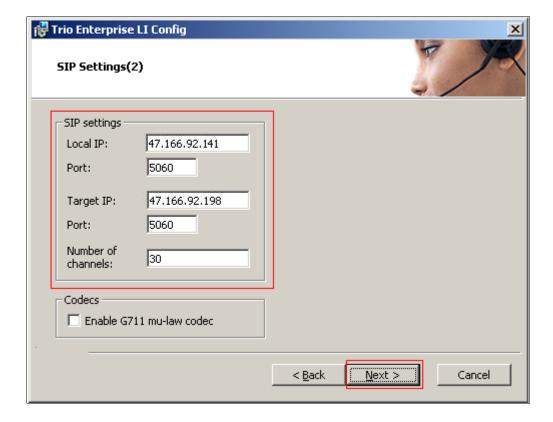
• Local IP Enter the local IP address of the Trio Enterprise server

• Port Enter the SIP Port 5060

• Target IP Enter the IP address of the Session Manager

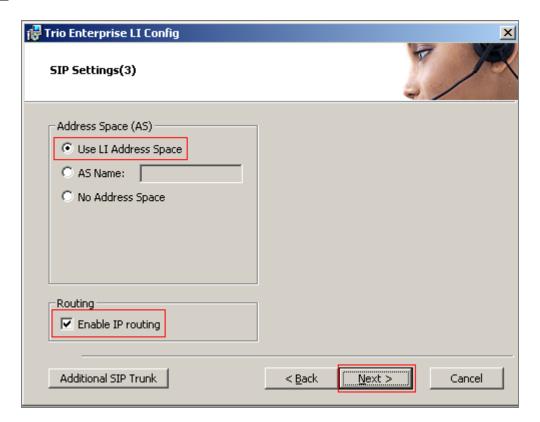
• Port Enter the SIP Port 5060

• Number of channels Enter 30 as the number of channels



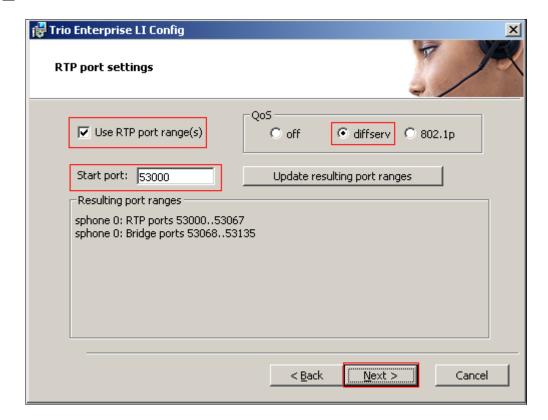
On the next SIP settings page, enter the following SIP settings.

- Select Use LI Address Space
- Check Enable IP routing



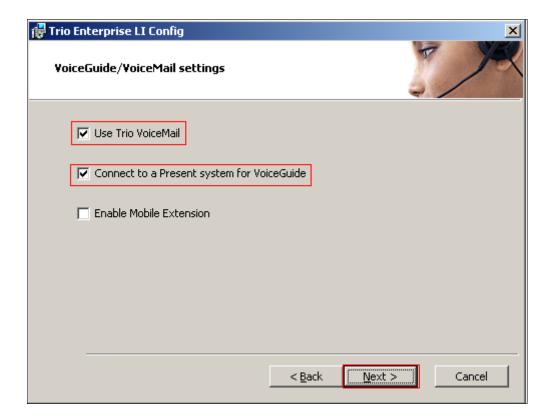
On the **RPT port settings** page, enter the following settings.

- Check the Use RPT port range(s)
- Select diffserv
- Start port, enter 53000

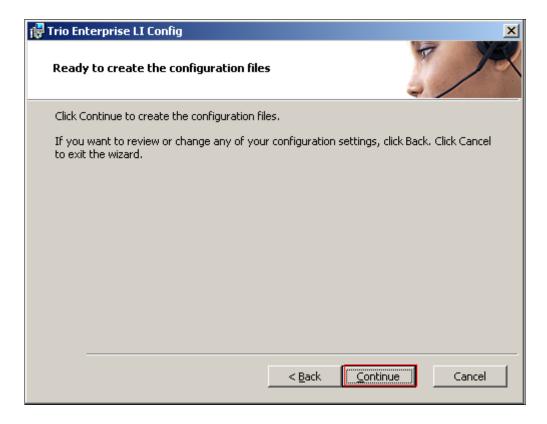


On the VoiceGuide/VoiceMail settings page, enter the following settings.

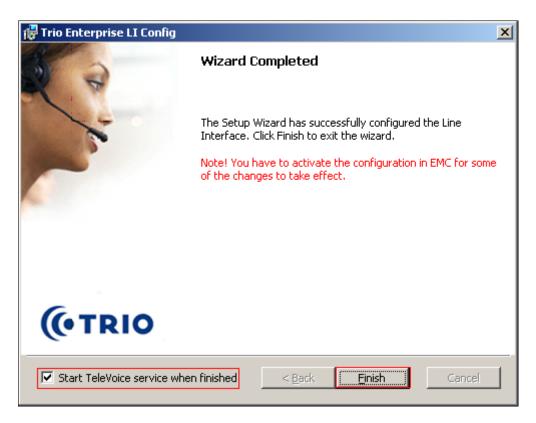
- Check Use Trio VoiceMail
- Check Connect to a Present system for VoiceGuide



On the Ready to create the configuration files page click on Continue button.



On the **Wizard Completed** page check **Start TeleVoice service when finished**, followed by the **Finish** button.



7.2. InteractionStudio Configuration

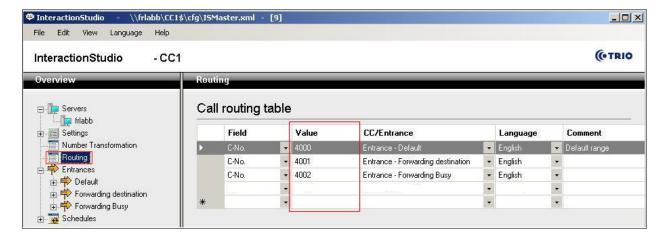
The InteractionStudio is used to configure many features for Trio Enterprise. For compliance testing, the following were configured.

- Configure Call Routing table
- Configure Attendant Service
- Configure Loop Detection via DTMF for Busy signal
- Configure Loop Detection via DTMF for No Answer signal

7.2.1. Configure Call Routing table

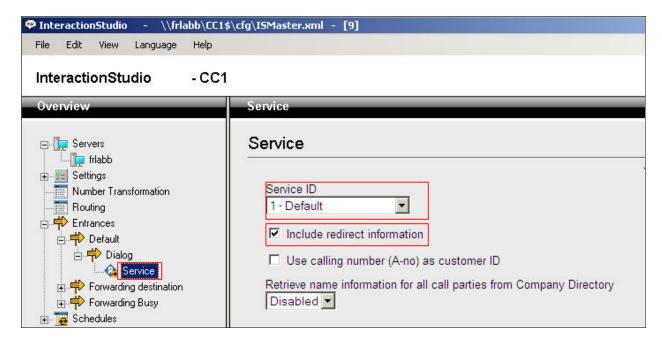
On the Trio Enterprise server, double click on the **InteractionStudio** executable file (not shown). When the InteractionStudio window opens, navigate to **Routing**. A **Call routing table** will open. In the example below:

- Extension 4000 is the main queue number
- Extension 4001 is the number that calls go to when Call forward No Answer is activated
- Extension 4002 is the number that calls go to when Call forward Busy is activated



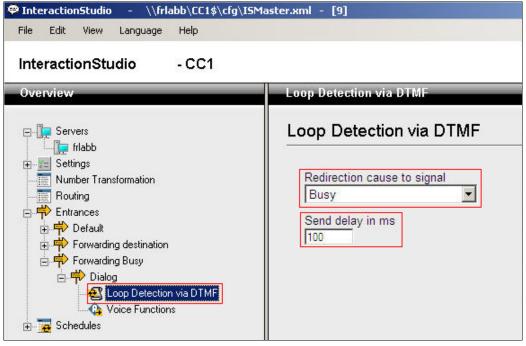
7.2.2. Configure Attendant Service

Navigate to Entrances → Default → Dialog → Service. Choose Default from the Service ID drop down box, and check the Include redirect information check box.



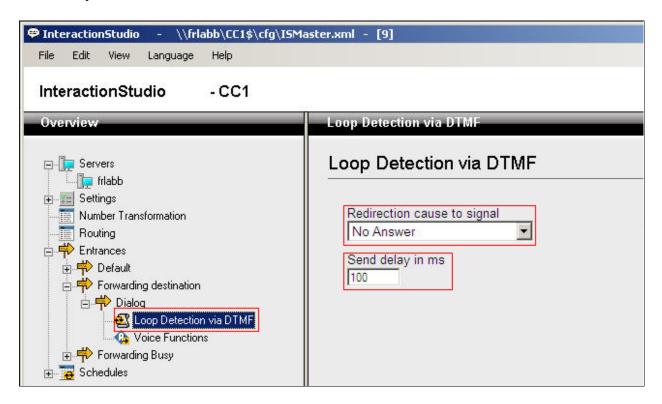
7.2.3. Configure Loop Detection via DTMF for Busy signal

Navigate to Entrances \rightarrow Forwarding Busy \rightarrow Dialog \rightarrow Loop Detection via DTMF. Choose Busy from the Redirection cause to signal drop down box, and enter 100 in the Send delay in ms box.



7.2.4. Configure Loop Detection via DTMF for No Answer signal

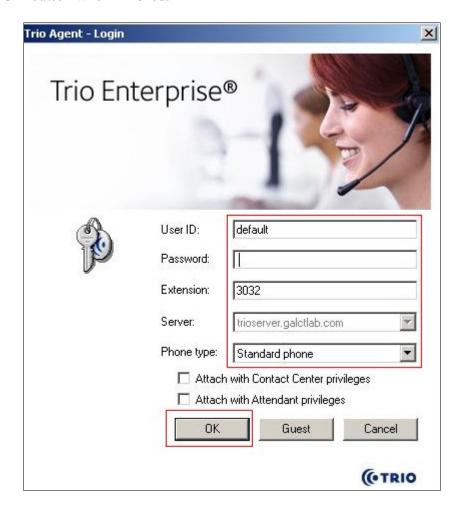
Navigate to Entrances → Forwarding destination → Dialog → Loop Detection via DTMF. Choose No Answer from the Redirection cause to signal drop down box, and enter 100 in the Send delay in ms box.



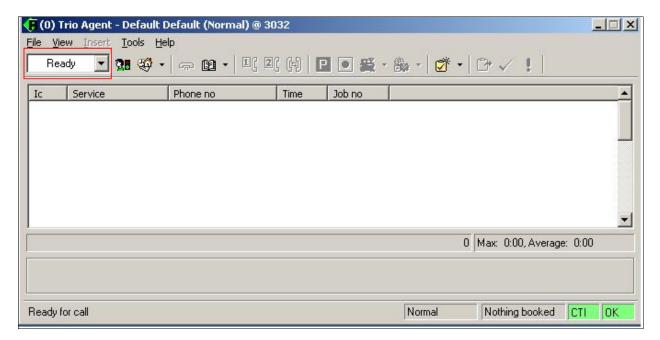
7.3. Configuring Trio Attendant

Trio Attendant is a separate application to Trio Enterprise server and can run concurrently on the same platform. The attendant uses a regular CS1000E telephone to make and receive calls, which are directed to the phone by Trio Enterprise server. The steps to configure Trio Attendant are to click on Start → Programs → Trio Enterprise → Contact Centre → Agent Client (not shown).

The window below opens. Enter a valid **User ID** and **Password**. For **Extension**, select the CS1000E telephone number that will be used as the agent's audio device (number **3032** in this example). Ensure the correct Trio Enterprise server is selected if there is more than one on the network (default is the current Trio server). Confirm **Phone type** is set to **Standard phone**. Click on the **OK** button when finished.



The Trio Agent window appears. Select **Ready** from the drop down box (confirm the traffic light goes green in the small icon to the right of the drop down box).



8. Verification Steps

This section provides the tests that can be performed to verify correct configuration of CS1000E and Session Manager with TRIO Enterprise.

8.1. Status of D-Channel on Avaya Communication Server 1000E

Check the status of the D-channel setup in **Section 5.1.2** by running the command **STAT DCH** in overlay 96 as shown below. The example below shows that D-Channel **66** is operational and established.

LD 96

Prompt	Response	Description
>	LD 96	Enter Overlay 96
	STAT DCH	Check status of all D-Channels
DCH 066	OPER EST	DES :to_Trio

8.2. Status of D-Channel on Trio Enterprise

To confirm a successful Trio Enterprise connection with the CS1000E, click on **Start** → **Programs** → **Trio Enterprise** → **Line Interface** and then select the **Telestatus** entry. A new window opens, showing the SIP trunk channel status as a series of green squares with the first and seventeenth squares greyed out (these are the D-Channel and resync timeslots). Confirm the trunks are all in the idle state (unfilled green squares).



9. Conclusion

These Application Notes describe the configuration steps required for Trio Enterprise R3.2 to successfully interoperate with Avaya Communication Server 1000E R7.5 and Avaya Aura® Session Manager R6.1 using SIP trunks. Trio Enterprise passed all compliance testing successfully; please see **Section 2.2** of these Application Notes for results and observations.

10. Additional References

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

- [1] Software Input Reference Administration Avaya Communication Server 1000, Release 7.5; Document No. NN43001-611 05.02, Dec 2010
- [2] Administering Avaya Aura® Session Manager, Doc # 03603324, Issue 1 Release 6.1

All information on the product installation and configuration TRIO Enterprise Server can be found at http://www.trio.com

Appendix A Installed CS1000E Dependency List

```
VERSION 4121
RELEASE 7
ISSUE 50 Q +
DepList 1: core Issue: 01 (created: 2011-03-15 10:26:33 (est))
IN-SERVICE PEPS
                    PATCH REF # NAME
                                                             FILENAME
                                                                             SPECINS
PAT# CR #
                                                DATE
                    ISS1:10F1
000 wi00688505
                                    p30595 1 14/06/2011 p30595 1.cpl
001 wi00835294
                   ISS1:10F1
                                    p30565_1 14/06/2011 p30565_1.cpl
                                                                             NO
                   ISS1:10F1
002 wi00832106
                                    p30550_1 14/06/2011 p30550_1.cpl
                   ISS1:10F1
ISS1:10F1
ISS1:10F1
                                                                             NO
003 wi00837618
                                    p30594_1 14/06/2011 p30594_1.cpl
                                                                             NO
004 wi00852365
                                    p30707_1 14/06/2011 p30707_1.cpl
                                                                             NO
                                    p30731_1 14/06/2011 p30731_1.cpl
005 wi00843623
                                                                             YES
                    ISS1:10F1
006 wi00839255
                                    p30591_1
                                                14/06/2011 p30591_1.cpl
                                                                             NO
                                    p30560_2 14/06/2011 p30591_1.cpl
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