



Avaya Solution & Interoperability Test Lab

Application Notes for configuring Logicall IVR from Maximum Network Solutions with Avaya Communication Server 1000E R7.5 and Avaya Aura® Session Manager R6.2 - Issue 1.0

Abstract

These Application Notes describe the configuration steps necessary for provisioning Maximum Network Solutions Logicall IVR to successfully interoperate with Avaya Communication Server 1000E R7.5 and Avaya Aura® Session Manager R6.2.

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 a compliance-tested configuration of the interoperability of Logicall IVR from Maximum Network Solutions to successfully interoperate with Avaya Communication Server 1000E R7.5 and Avaya Aura® Session Manager R6.2. Maximum Network Solutions Logicall IVR is a voice processing platform capable of supporting both DTMF (touch tone) and natural speech. Maximum Network Solutions Logicall IVR provides a platform on which voice applications and speech self-service applications can be installed enabling the automation of telephone transactions and is available as a pre-configured, out of the box solution.

2. General Test Approach and Test Results

The Maximum Network Solutions Logicall IVR solution (LIVR) sits on Solaris R10 or Linux R6.3 platform installed on a Sun Microsystems server and is administered over a telnet session using a program such as PuTTY or Reflections. Each solution is pre-configured according to the end-users specifications. The configuration regarding connectivity to Avaya Communication Server 1000E (CS1000E) is contained in a configurable ini file called Control.ini. An example of which can be seen in the Appendix of these Application Notes. The test approach was to successfully place calls to the Logicall box over SIP trunks between the Logicall and the CS1000E. Calls from the CS1000E to the Logicall route through Session Manager.

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

During interoperability compliance testing the following types of calls and features of Logicall covered.

- Inbound calls to Logicall IVR from CS1000E 1140E IP and SIP deskphones
- Inbound calls to Logicall IVR front-ended by Avaya Callpilot
- Inbound calls to Logicall IVR using menu to get transferred
- Calls placed into Logicall from PSTN users
- Calls transferred to Logicall from CS1000E 1140E IP and SIP deskphones
- Calls transferred to Logicall from PSTN users
- Calls transferred to Logicall from an Avaya Callpilot menu
- Outbound calls to CS1000E 1140EIP and SIP deskphones from Logicall
- Automatic Speech Recognition (ASR) test on Logicall
- Text to Speech (TTS) test on Logicall

2.2. Test Results

All tests outlined in the Test Plan document passed successfully. Below are listed observations following the compliance test of this solution.

1. No trunks were terminated directly on the Logicall IVR box. All calls to Logicall IVR came through the CS1000E. External trunk calls over QSIG or SIP, terminated on the CS1000E and then were routed across to the Logicall IVR via Session Manager. Note that for the compliance testing these PSTN trunks were simulated by connecting to a second CS1000E PBX.
2. When a caller dials into the Logicall IVR and gets transferred out using “outbound”, “blind” or “transfer” the Calling Line Identification (CLID) being passed to the caller from the Logicall IVR is dynamically set by the Logicall IVR box and in this compliance testing this was set to “2500”.
3. When the transfer was complete or the call was answered from the blind or outbound calls, the CLID info was not updated to the original callers ID and remained as “2500”. This is designed by Logicall to behave this way.
4. The original caller CLID does get updated with the transferred parties’ number. This was an intermittent issue – on most instances there was no issue with CLID updating on blind transfer. This was for both the QSIG and SIP trunk callers.
5. The CLID can be manipulated by changes on the D-Channels. All CLID behaves as expected for internal calls so issues with external CLID may be carrier related or in this case, the way in which the QSIG-SIP trunks are set-up to deal with CLID/Names.

2.3. Support

For more information on Maximum Network Solutions (Maxnet) and product support visit <http://www.maxnet.co.uk>. The following is the contact information for Maxnet:

Maximum Network Solutions
The Old Granary, The Square, Sheffield,
South Yorkshire, S26 5QN
+44 1909 774477
www.maxnet.co.uk

3. Reference Configuration

The configuration in **Figure 1** was used to compliance test Logicall IVR with Avaya Communication Server 1000E using Session Manager and SIP trunks to pass calls from the CS1000E to the Logicall IVR.

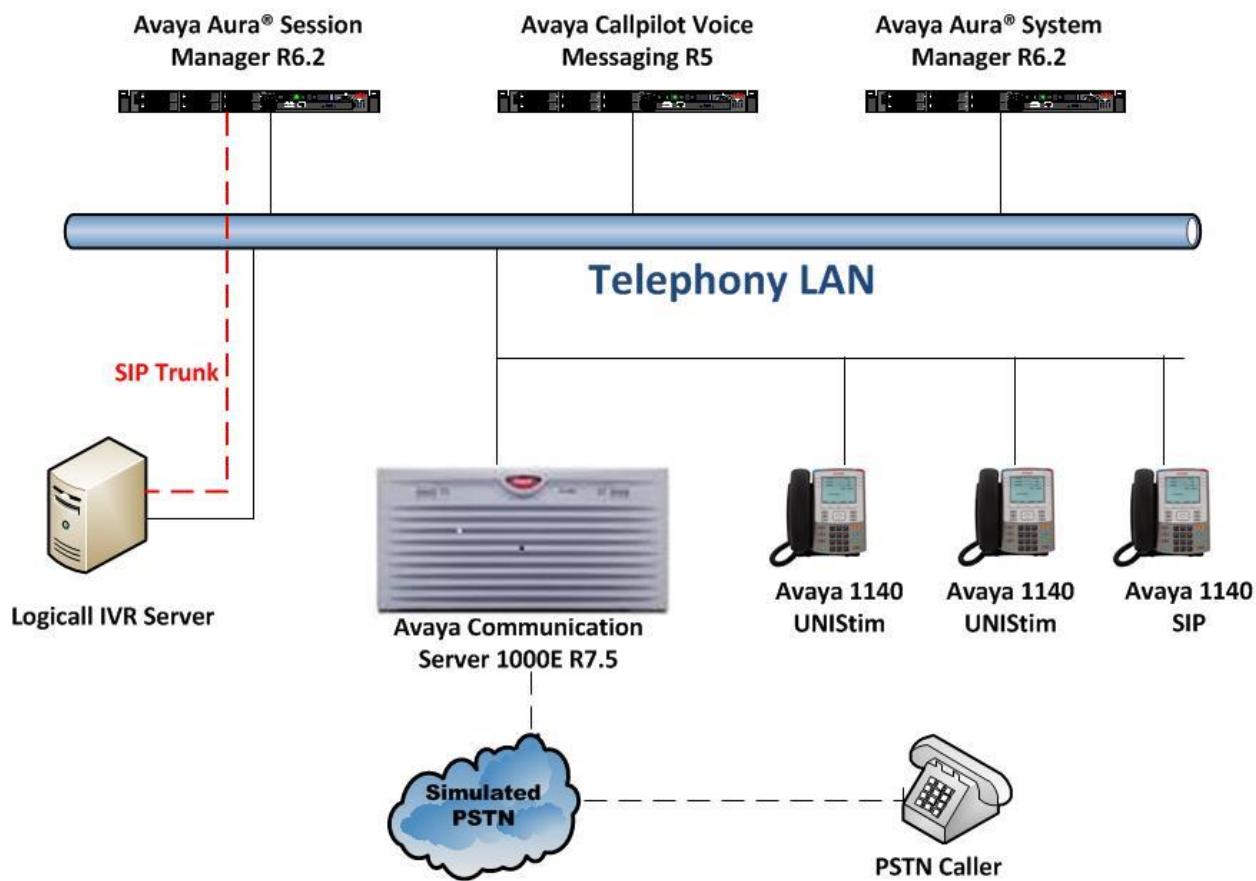


Figure 1: Connection of Maximum Network Solutions Logicall IVR with Avaya Aura® Session Manager R6.2 and Avaya Communication Server 1000E R7.5.

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 (See Appendix A for list of patches)
Avaya Aura® System Manager running on an Avaya S8800 server	R6.2.0 – SP4 Build Number 6.2.0.0.15669-6.2.12.408 SW Update Rev No. 6.2.16.1.1993
Avaya Aura® Session Manager running on an Avaya S8800 server	R6.2 Build Number 6.2.3.0.623006
Avaya 1140 IP Deskphone	UNIStim V0625C8D
Avaya 1140 IP Deskphone	SIP 04.03.12
Avaya 3904 Digital Deskphone	Core V2.4 Flash V9.4
Maximum Networks Logicall IVR Server	LIVR V1.1

5. Configuration of Avaya Communication Server 1000E

The configuration operations illustrated in this section were performed using terminal access to the CS1000E using PuTTY. It is assumed a fully working CS1000E is in place with the necessary licensing. For all other provisioning information, such as administering Avaya CS1000E, refer to product documentation in **Section 11** of these Application Notes.

Note: The configuration of PSTN trunks and routes are 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.

Note: A full printout of the SIP D-Channel, Route and Trunk information used for the compliance testing is included in **Appendix B** of these Application Notes.

5.1. Verify Licences

To ensure the CS1000E is licensed for SIP use **LD 22** and type **SLT** at the **REQ** prompt. Check for **SIP ACCESS PORTS** (in bold below).

Prompt	Response	Description									
>	LD 22	Enter Overlay 22									
REQ	SLT										
 System type is - Communication Server 1000E/CPHM Linux CPHM - Pentium M 1.4 GHz											
 IPMGs Registered: 1 IPMGs Unregistered: 0 IPMGs Configured/unregistered: 0											
TRADITIONAL TELEPHONES	2000	LEFT	1992	USED	8						
DECT USERS	2000	LEFT	2000	USED	0						
IP USERS	4000	LEFT	3978	USED	22						
BASIC IP USERS	2000	LEFT	1998	USED	2						
TEMPORARY IP USERS	2000	LEFT	2000	USED	0						
DECT VISITOR USER	2000	LEFT	2000	USED	0						
ACD AGENTS	2000	LEFT	1995	USED	5						
MOBILE EXTENSIONS	2000	LEFT	2000	USED	0						
TELEPHONY SERVICES	2000	LEFT	2000	USED	0						
CONVERGED MOBILE USERS	2000	LEFT	2000	USED	0						
AVAYA SIP LINES	2000	LEFT	1997	USED	3						
THIRD PARTY SIP LINES	2000	LEFT	1998	USED	2						
PCA	2000	LEFT	2000	USED	0						
ITG ISDN TRUNKS	2000	LEFT	2000	USED	0						
H.323 ACCESS PORTS	2000	LEFT	1990	USED	10						
AST	2000	LEFT	1981	USED	19						
SIP CONVERGED DESKTOPS	2000	LEFT	2000	USED	0						
SIP CTI TR87	2000	LEFT	1992	USED	8						
SIP ACCESS PORTS	2000	LEFT	1970	USED	30						
RAN CON	2000	LEFT	2000	USED	0						
MUS CON	2000	LEFT	2000	USED	0						

5.2. Configuring a SIP Connection on Avaya Communication Server 1000E

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

- Create a D-channel for the SIP trunk
- Create Route Data Block
- Add TIE Trunks

5.2.1. 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 1	Create new D-Channel 1
CTYP	DCIP	Card type is IP D-Channel
USR	ISDL	Integrated Services Digital Line
IFC	SL1	D-Channel interface type

5.2.2. 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 Logicall IVR. Ensure **VTRK** is set to **YES** and **PCID** is **SIP**. Ensure that the other values highlighted are configured correctly. A complete printout of all prompts can be found in **Appendix A** of these Application Notes.

LD 16

Prompt	Response	Description
>	LD 16	Enter Overlay 16
REQ	NEW	Create new
TYPE	RDB	Route Data block
CUST	0	Customer Number as defined in LD15
ROUT	22	Route Number
TKTP	TIE	Route Type
VTRK	YES	Virtual Route
PCID	SIP	Protocol ID for route
NODE	111	Node setup during the installation of the CS1000E
DTRK	NO	Digital Trunk Route
ISDN	YES	Integrated Services Digital Network
MODE	ISDL	mode of operation
IFC	SL1	Interface type
ACOD	8022	Access Code for trunk route

5.2.3. Adding TIE Trunks

Use the **NEW** command in **LD 14** to add (**IPTI**) **TIE** trunks to the new route created in **Section 5.2.2**. 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 10 New Trunks
TYPE	IPTI	IP TIE trunk
TN	100 0 3 0	Loop Shelf Card Unit
CUST	0	Customer Number as defined in LD15
RTMB	22 1	Route number and Member number

5.3. Configure a Coordinated Dialing Plan

In order to setup a Coordinated Dialing Plan (CDP) both a route list index and a CDP are added.

5.3.1. Create a Route List Index

Use the **NEW** command in **LD 86** to create a **RLI**. Enter the route (**ROUT**) that was created in **Section 5.2.2**.

LD 86

Prompt	Response	Description
>LD 86	Enter Overlay 86	
REQ	NEW	Create New
CUST	0	Customer Number as defined in overlay 15
FEAT	RLB	Route list Block
TYPE	RLI	Route list Index
RLI	22	Route list Index number
ENTR	0	First entry for the RLI
ROUT	22	Enter the route number

5.3.2. Create CDP

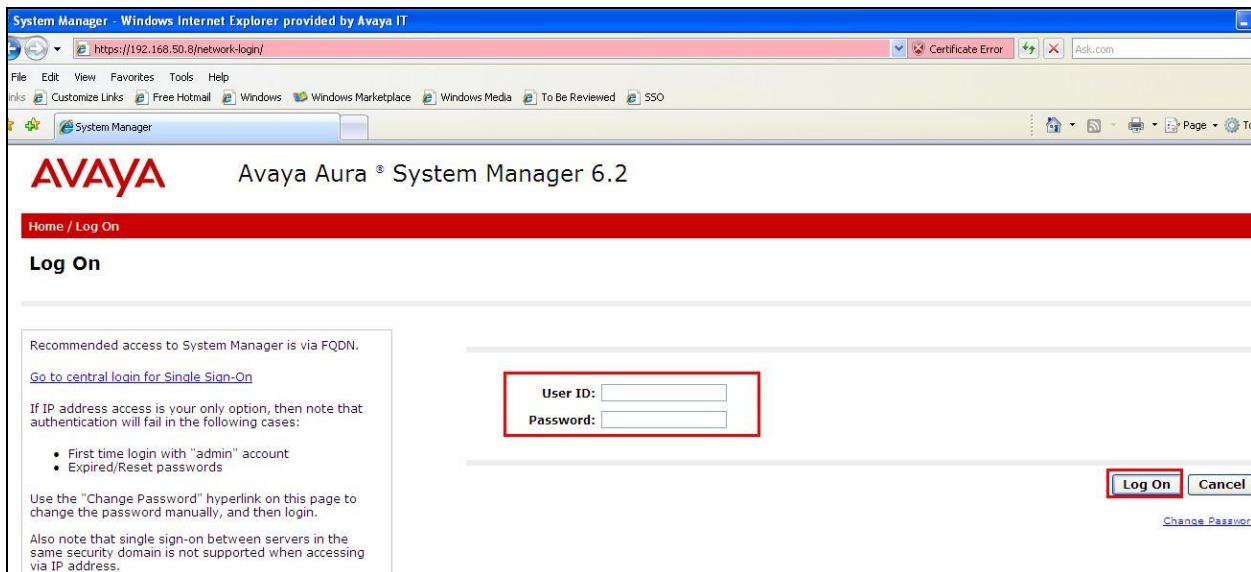
Use the **NEW** command in **LD 87** to create a **CDP** entry for the Trio Enterprise. For each extension, a CDP entry needs to be created. In the example below, the **DSC** is **6000**, **FLEN** is **4** and the **RLI** is **22**. The RLI number used is the one created in **Section 5.3.1**.

LD 87

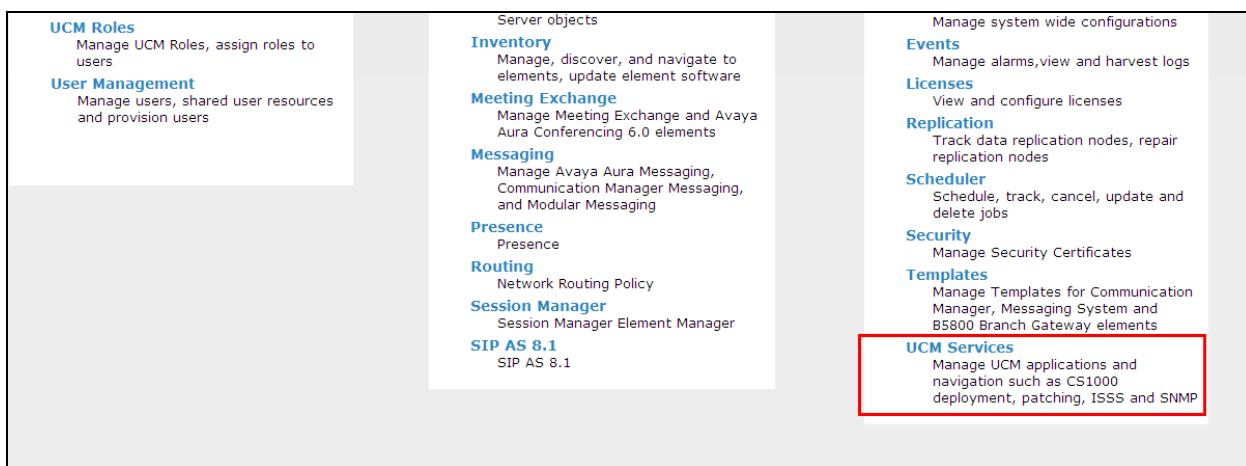
Prompt	Response	Description
>	LD 87	Enter Overlay 87
REQ	NEW	Create new
CUST	0	Customer Number as defined in overlay 15
FEAT	CDP	Coordinated dialing plan
TYPE	DSC	Distance Steering code
DSC	6000	Distant Steering code
FLEN	4	Flexible Length number of digits
RLI	22	Route list index Number

6. Configure Avaya Communication Server 1000E Signalling Server

Access to the CS1000E Signalling Server is achieved by logging into System Manager using a Web Browser by entering **http://<FQDN>/SMGR**, where <FQDN> is the fully qualified domain name of System Manager or **http://<IP Address>/SMGR**. Log in using appropriate credentials.



Once logged in click on **UCM Services** as highlighted.



The following screen appears showing the various **Elements**, select **EM_on_cs1kpg2** (note this name may appear different depending on the system).

Avaya Aura® System Manager 6.2

Host Name: smgrmc62.devcon.avaya Software Version: 02.20_SMGR-SNAPSHOT(6163) User Name admin

Elements

New elements are registered into the security framework, or may be added as simple hyperlinks. Click an element name to launch its manager by entering a search term.

<input type="checkbox"/>	Element Name	Element Type	Release	Address
1	adminSched	scheduleroperation	6.2	
2	onDemand	scheduleroperation	6.2	
3	spmadmin	spmoperation	6.2	
4	smgrmc62.devcon.avaya (primary)	Base OS	7.6	192.168.50.8
5	EM_on_cs1kpg2	CS1000	7.5	192.168.0.10
6	cs1kpg2.devcon.avaya (member)	Linux Base	7.5	192.168.50.90
7	UPM Generic Account Management Service	Subscriber Manager	2.0	

Navigate to **IP Network→Nodes Servers and Media Cards** in the left window and select the Node associated with the CS1000E in the example below this **Node ID** is **200**. Open this node by clicking on **200** highlighted below.

CS1000 Element Manager

Managing: 192.168.0.10 Username: admin
System » IP Network » IP Telephony Nodes

IP Telephony Nodes

Click the Node ID to view or edit its properties.

<input type="checkbox"/>	Node ID	Components	Enabled Applications	ELAN IP	Node/TLAN IPv4	Node/TLAN IPv6	Status
	200	1	SIP Line, LTPS, PD, Gateway (SIPGw, H323Gw)		192.168.50.99		Synchronized

Show: Nodes Component servers and cards IPv6 address

Select **Gateway (SIPGw)** highlighted.

AVAYA CS1000 Element Manager

Managing: 192.168.0.10 Username: admin
System » IP Network » IP Telephony Nodes » Node Details

Node Details (ID: 200 - SIP Line, LTPS, PD, Gateway (SIPGw, H323Gw))

Subnet mask: 255.255.255.0 * Subnet mask: 255.255.255.0 *

Node IPv6 address: []

IP Telephony Node Properties

- Voice Gateway (VGW) and Codecs
- Quality of Service (QoS)
- LAN
- SNTP
- Numbering Zones
- MCDN Alternative Routing Treatment (MALT) Causes

Applications (click to edit configuration)

- SIP Line
- Terminal Proxy Server (TPS)
- Gateway (SIPGw & H323Gw)** (selected)
- Personal Directories (PD)
- Presence Publisher
- IP Media Services

* Required Value. Save Cancel

Associated Signaling Servers & Cards

Server(s) with (hostname-ELAN IP-TLAN IP) not part of the CS1000 or CS1000-HS system where this Call Server belongs: (cs1kpg2-192.168.0.10-192.168.50.90)

Select to add	Add	Remove	Make Leader	Print Refresh		
Hostname	Type	Deployed Applications	ELAN IP	TLAN IPv4	Role	
cs1kpg2	Signaling_Server	NONE	192.168.0.10	192.168.50.90	Leader	

Show: [] IPv6 address

Enter the correct **SIP domain name** note this will be referenced again in **Section 7.2**.

AVAYA CS1000 Element Manager

Managing: 192.168.0.10 Username: admin
System » IP Network » IP Telephony Nodes » Node Details » Virtual Trunk Gateway Configuration

Node ID: 200 - Virtual Trunk Gateway Configuration Details

General | SIP Gateway Settings | SIP Gateway Services | H.323 Gateway Settings

Vtrk gateway application: Enable gateway service on this node

General

Vtrk gateway application: SIPGw and H.323Gw
SIP domain name: devconnect.local (highlighted with a red box)
Local SIP port: 5060 * (1 - 65535)
Gateway endpoint name: CS1KPG2
Gateway password: []
H.323 ID: CS1KPG2
Application node ID: 200 * (0-9999)
Enable failsafe NRS:

Virtual Trunk Network Health Monitor

Monitor IP addresses (listed below):
Information will be captured for the IP addresses listed below.
Monitor IP: [] Add
Monitor addresses: [] Remove

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

Scroll down to **Proxy Or Redirect Server: Proxy Server Route 1** and enter the IP Address of the Session Manager for the **Primary TLAN IP address**. Ensure the **Port** number is set to **5060** and the **Transport protocol** is set to **TCP**, note this will be referenced again in **Section 7.10**. Everything else can be left as default.

AVAYA CS1000 Element Manager

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

Node ID: 200 - Virtual Trunk Gateway Configuration Details

General | SIP Gateway Settings | SIP Gateway Services

Proxy Or Redirect Server:
Proxy Server Route 1:

Primary TLAN IP address: **10.10.40.34**
The IP address can have either IPv4 or IPv6 format based on the value of "TLAN address type".

Port: **5060** (1 - 65535)

Transport protocol: **TCP**

Options: Support registration Primary CDS proxy

Secondary TLAN IP address: **0.0.0.0**
The IP address can have either IPv4 or IPv6 format based on the value of "TLAN address type".

Port: **5060** (1 - 65535)

Transport protocol: **TCP**

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

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

AVAYA

CS1000 Element Manager

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

Node ID: 200 - Virtual Trunk Gateway Configuration Details

General | SIP Gateway Settings | SIP Gateway Services

Proxy Server Route 2:

Primary TLAN IP address: The IP address can have either IPv4 or IPv6 format based on the value of "TLAN address type"

Port: (1 - 65535)

Transport protocol:

Options: Support registration
 Tertiary CDS proxy

CLID Presentation:

Country code (CCC):

Area code: NPA in North America

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

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

Node Details (ID: 200 - SIP Line, LTPS, Gateway (SIPGw))

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

Associated Signaling Servers & Cards

Select to add	Add	Remove	Make Leader	Print Refresh	
Hostname	Type	Deployed Applications	ELAN IP	T LAN IPv4	Role
cs1kpg2	Signaling_Server	SIP Line, LTPS, Gateway (SIP/H323), PD, Presence	192.168.40.101	10.10.40.101	Leader

Select **Transfer Now** as shown below.

Node Saved

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

You will be given an option to select individual servers, or transfer to all.
 You may initiate a transfer manually at a later time.

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

AVAYA CS1000 Element Manager

Managing: 192.168.40.101 Username: admin
System » IP Network » IP Telephony Nodes » Synchronize Configuration Files

Synchronize Configuration Files (Node ID <200>)

Note: Select components to synchronize their configuration files with call server data. This process transfers server INI files to selected components, and requires a restart* of applications on affected server(s) when complete.

Hostname	Type	Applications	Synchronization Status
<input checked="" type="checkbox"/> cs1kpg2	Signaling_Server	SIP Line, LTPS, Gateway (SIP/H323), PD, Presence Publisher, IP Media Services	Sync required

* Application restart is only required for initial system configuration or if changes have been made to general LAN configurations, SNTP settings, SIP and H323 Gateway settings, network connectivity related parameters like ports and IP address, enabling or disabling services, or adding or removing application servers.

The following screen shows the **Sync in progress**.

AVAYA CS1000 Element Manager

Managing: 192.168.40.101 Username: admin
System » IP Network » IP Telephony Nodes » Synchronize Configuration Files

Synchronize Configuration Files (Node ID <200>)

Synchronization in progress. Status will be updated automatically.
(You may also navigate away from this page and return to the IP Telephony Nodes list to verify completion.)

Hostname	Type	Applications	Synchronization Status
<input checked="" type="checkbox"/> cs1kpg2	Signaling_Server	SIP Line, LTPS, Gateway (SIP/H323), PD, Presence Publisher, IP Media Services	Sync in progress

Once the Sync is completed select the **Hostname** again and click on **Restart Applications**. This will complete the Signalling Server configuration for Session Manager routing.

AVAYA

CS1000 Element Manager

Managing: 192.168.40.101 Username: admin
 System » IP Network » IP Telephony Nodes » Synchronize Configuration Files

Synchronize Configuration Files (Node ID <200>)

Note: Select components to synchronize their configuration files with call server data. This process transfers server INI files to selected components, and requires a restart* of applications on affected server(s) when complete.

<input type="checkbox"/>	Hostname	Type	Applications	Synchronization Status
<input checked="" type="checkbox"/>	cs1kpg2	Signaling_Server	SIP Line, LTPS, Gateway (SIP/H323), PD, Presence Publisher, IP Media Services	Sync required

* Application restart is only required for initial system configuration or if changes have been made to general LAN configurations, SNTP settings, SIP and H323 Gateway settings, network connectivity related parameters like ports and IP address, enabling or disabling services, or adding or removing application servers.

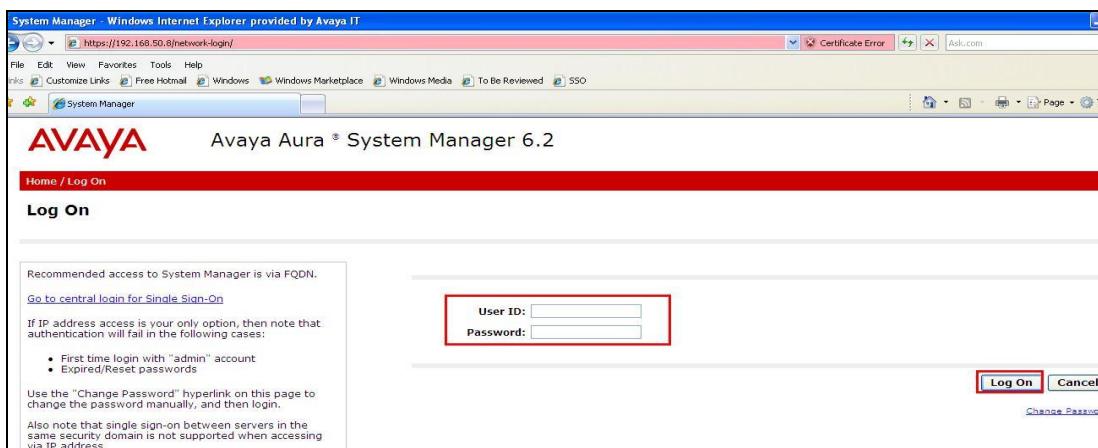
7. Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Session Manager. Session Manager is configured via System Manager. The procedures include the following areas:

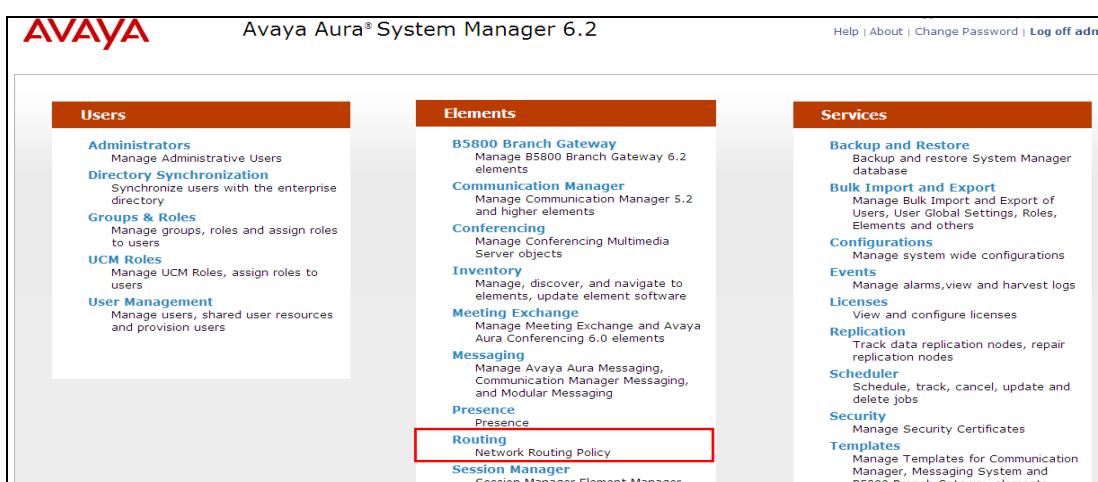
- Log in to Avaya Aura® Session Manager
- Configure SIP Domain
- Configure Location
- Configure SIP Entities
- Configure Routing Policies
- Configure Dial Patterns

7.1. Log in to Avaya Aura® System Manager

Access the System Manager using a Web Browser by entering **http://<FQDN>/SMGR**, where <FQDN> is the fully qualified domain name of System Manager or **http://<IP Address>/SMGR**. Log in using appropriate credentials.



Once logged on click on **Routing** as highlighted.



7.2. Configure SIP Domain

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

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar has a 'Routing' category with 'Domains' selected, indicated by a red box. The main content area is titled 'Home / Elements / Routing / Domains' and contains a 'Domain Management' section. A toolbar at the top of this section includes 'Edit', 'New' (highlighted with a red box), 'Duplicate', 'Delete', and 'More Actions'. Below the toolbar is a table with two items:

	Name	Type	Default	Notes
<input type="checkbox"/>	devcon.avaya	sip	<input type="checkbox"/>	
<input type="checkbox"/>	devconnect.local	sip	<input type="checkbox"/>	

At the bottom of the table, there is a link 'Select : All, None'.

Enter the name of the domain note this was referenced in **Section 6**. The **Type** should be **sip**. Click on **Commit** once done.

The screenshot shows the same interface as above, but now with a new domain being created. The 'Name' field in the table is highlighted with a red box and contains the value 'devconnect.local'. The 'Type' dropdown menu is also highlighted with a red box and shows 'sip'. The 'Commit' button at the bottom right is highlighted with a red box.

7.3. Configure Location

Select **Locations** from the left window and select **New** from the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar has a 'Routing' category with 'Locations' selected, indicated by a red box. The main content area is titled 'Home / Elements / Routing / Locations' and contains a 'Location' section. A toolbar at the top of this section includes 'Edit', 'New' (highlighted with a red box), 'Duplicate', 'Delete', and 'More Actions'. Below the toolbar is a table with one item:

	Name	Notes
<input type="checkbox"/>	DevconLAB	

At the bottom of the table, there is a link 'Select : All, None'.

Enter a suitable name for the location and scroll down to the bottom of the page and enter the IP addresses associated with the location in the case there are two ranges **10.10.40.x** and **192.168.50.x** and click on **Add**. Once completed, click on **Commit** to continue.

Avaya Aura® System Manager 6.2

Last Logged on at January 15, 2014 12:07 PM
Help | About | Change Password | Log off admin

Routing x Home

Location Details

General

* Name: DevconLAB

Notes:

Overall Managed Bandwidth

Managed Bandwidth Units: Kbit/sec

Total Bandwidth:

Multimedia Bandwidth:

Audio Calls Can Take Multimedia Bandwidth:

* Minimum Multimedia Bandwidth: 64 Kbit/Sec

* Default Audio Bandwidth: 80 Kbit/sec

Alarm Threshold

Overall Alarm Threshold: 80 %

Multimedia Alarm Threshold: 80 %

* Latency before Overall Alarm Trigger: 5 Minutes

* Latency before Multimedia Alarm Trigger: 5 Minutes

Location Pattern

Add Remove

2 Items

	IP Address Pattern	Notes
<input type="checkbox"/>	* 10.10.40.*	
<input type="checkbox"/>	* 192.168.50.*	

Select : All, None

Commit Cancel

7.4. Configure Adaptation

To configure a new Adaptation select **Adaptations** from the left window and click on **New** from the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The top navigation bar includes links for Help, About, Change Password, and Log off admin. The main title is "Avaya Aura® System Manager 6.2". On the left, a sidebar menu under "Routing" has "Adaptations" selected and highlighted with a red box. The main content area is titled "Adaptations" and contains buttons for Edit, New, Duplicate, Delete, and More Actions. A table below shows three items: Name, Module name, Egress URI Parameters, and Notes. The "Name" column is currently empty. The "Module name" column shows "DigitConversionAdapter". The "Egress URI Parameters" column shows "fromto=true iodstd=domain". The "Notes" column is empty.

Enter a suitable **Name** and select **DigitConversionAdapter** for the **Module Name**. Select **Name-Value Parameter** as the **Module Parameter Type**. Add the following Parameters:

- Fromto = true
- Iodstd = “domain”
- Iosrcd = “domain”
- Odstd = “Logical, IP Address”
- Osrcc = “Session Manager IP Address”

Click on **Commit** once completed

The screenshot shows the "Adaptation Details" page for a new adaptation named "Logical". The "General" tab is selected. The "Adaptation name" field contains "Logical". The "Module name" dropdown is set to "DigitConversionAdapter". The "Module parameter" field contains "fromto=true iodstd=devconnect.lk". The "Egress URI Parameters" and "Notes" fields are empty. The right side of the screen shows "Commit" and "Cancel" buttons, with "Commit" highlighted by a red box.

7.5. Configure SIP Entity for Logcall IVR

Select **SIP Entities** from the left window and click on **New** in the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar has a tree view with 'Routing' expanded, showing 'Domains', 'Locations', 'Adaptations', and 'SIP Entities' (which is selected and highlighted with a red box). The main content area is titled 'SIP Entities' and shows a table with three rows:

Name	FQDN or IP Address	Type	Notes
AMessaging	192.168.50.60	Modular Messaging	
AMXServer	192.168.50.100	SIP Trunk	
CM63VMPG	10.10.40.31	CM	

At the top of the main content area, there are buttons for 'Edit', 'New' (highlighted with a red box), 'Duplicate', 'Delete', and 'More Actions'. The top right corner shows 'Last Logged on at January 15, 2014 12:07 PM', 'Help | About | Change Password | Log off admin', and tabs for 'Routing' and 'Home'.

Enter a suitable **Name** and ensure that the **Adaptation** that was created in **Section 7.4** is used. Enter the **Location** that was configured in **Section 7.2** and the correct **Time Zone**.

The screenshot shows the 'SIP Entity Details' page for creating a new entity. The left sidebar shows 'SIP Entities' selected (highlighted with a red box). The main form has a 'General' tab selected. A large red box highlights the following fields:

- * Name: Logcall
- * FQDN or IP Address: 10.10.40.50
- Type: SIP Trunk
- Notes: (empty)
- Adaptation: Logcall
- Location: DevconLAB
- Time Zone: Europe/Dublin

Below these fields are other configuration options:

- Override Port & Transport with DNS SRV:
- * SIP Timer B/F (in seconds): 4
- Credential name: (empty)
- Call Detail Recording: egress

The top right corner shows 'Last Logged on at January 15, 2014 12:07 PM', 'Help | About | Change Password | Log off admin', and buttons for 'Commit' (highlighted with a red box) and 'Cancel'.

7.6. Configure Entity Link for Logicalall IVR

Select **Entity Link** from the left window and click on **New** in the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar is titled 'Routing' and includes options like Domains, Locations, Adaptations, SIP Entities, and Entity Links, with 'Entity Links' selected and highlighted by a red box. The main content area is titled 'Entity Links' and shows a list of 14 items. A red box highlights the 'New' button. The table columns are Name, SIP Entity 1, Protocol, Port, SIP Entity 2, Port, Connection Policy, and Notes. The data includes entries for AAMessaging, AMXServer, CM63VMPG, CS1KPG1_TCP, and DS3000, all set to SessionManager as SIP Entity 1 and UDP as Protocol.

Enter a suitable name for the Entity Link and select the correct **SIP Entity** that was created in **Section 7.5** and ensure that **UDP** is used as the **Protocol**. Note the **Port** is **5060** and the **Connection Policy** is set to **Trusted**. Click on **Commit** once this is done.

The screenshot shows the 'Entity Links' creation dialog. The left sidebar is identical to the previous screen. The main area has a title 'Entity Links' and a message '1 Item Refresh'. It shows a table with one item. A red box highlights the 'Name' field containing 'Logicalall_UDP'. Other fields show 'SessionManager' as SIP Entity 1, 'UDP' as Protocol, '5060' as Port, 'Logicalall' as SIP Entity 2, '5060' as Port, 'Trusted' as Connection Policy, and an empty Notes field. Below the table is a note '* Input Required'. At the bottom right are 'Commit' and 'Cancel' buttons, with 'Commit' also highlighted by a red box.

7.7. Configure Routing Policy for Logicall IVR

Select **Routing Policies** from the left window and click on **New** in the main window.

Name	Disabled	Retries	Destination	Notes
AAMessaging	<input type="checkbox"/>	0	AAMessaging	
CM62	<input type="checkbox"/>	0	CommunicationManager	
Presence	<input type="checkbox"/>	0	Presence	
RPMessaging	<input type="checkbox"/>	0	RichardAuraMessaging	

Enter a suitable **Name** and click on **Select** highlighted in order to associate this routing policy with a SIP Entity.

Select the **Logicall** SIP Entity created in **Section 7.5**.

Name	FQDN or IP Address	Type	Notes
AAMessaging	192.168.50.60	Modular Messaging	
AMXServer	192.168.50.100	SIP Trunk	
CM62VMPI	10.10.40.31	CM	
CommunicationManager	192.168.50.13	CM	Communication Manager R6.2
CS1KPG1	10.10.40.111	SIP Trunk	
CS1KPG2	192.168.50.99	SIP Trunk	
DS3000	10.253.144.206	SIP Trunk	
IPOfficePG	192.168.50.30	SIP Trunk	
Logicall	10.10.40.50	SIP Trunk	
Presence	192.168.50.200	SIP Trunk	
RichardAuraMessaging	10.10.16.122	Modular Messaging	
Semafonenorth	192.168.50.195	SIP Trunk	
SessionManager	192.168.50.16	Session Manager	Session Manager

Select **Commit** when done (not shown).

7.8. Configure Dial Pattern for Logicall IVR

In order to route calls to the InnLine IP a dial pattern is created pointing to the SIP Entity. Select **Dial Patterns** from the left window and click on **New** in the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar under 'Routing' has 'Dial Patterns' selected and highlighted with a red box. The main content area is titled 'Dial Patterns' and shows a table with 17 items. The columns are: Pattern, Min, Max, Emergency Call, Emergency Type, Emergency Priority, SIP Domain, and Notes. The data in the table includes:

Pattern	Min	Max	Emergency Call	Emergency Type	Emergency Priority	SIP Domain	Notes
20	4	4	<input type="checkbox"/>			devcon.avaya	
22252015	8	8	<input type="checkbox"/>			devcon.avaya	
2999	4	4	<input type="checkbox"/>			devcon.avaya	
30	4	4	<input type="checkbox"/>			-ALL-	

Enter the number to be routed noting this will be the same number outlined in **Section 5.3.2**. Note the **SIP Domain** is that configured in **Section 7.2**. Click on **Add** to select the SIP Entity.

The screenshot shows the 'Dial Pattern Details' page. The left sidebar under 'Routing' has 'Dial Patterns' selected and highlighted with a red box. The main content area has a 'General' section with fields for 'Pattern' (6000), 'Min' (4), 'Max' (4), 'Emergency Call' (unchecked), 'Emergency Priority' (1), 'Emergency Type' (dropdown menu), and 'SIP Domain' (devconnect.local). The 'SIP Domain' field and its dropdown menu are also highlighted with a red box. Below this is an 'Originating Locations and Routing Policies' section with 'Add' and 'Remove' buttons.

Tick on the **Originating Location** as shown below and select the **Logicall Routing Policy**. Click on **Select**.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar has a 'Routing' category expanded, with 'Dial Patterns' selected and highlighted by a red box. The main content area shows the 'Originating Location and Routing Policy List'. Under 'Originating Location', there is a table with one item, 'DevconLAB', which is also highlighted by a red box. Under 'Routing Policies', there is a table with 14 items, including 'ToLogicall', which is also highlighted by a red box. At the top right, there are 'Select' and 'Cancel' buttons, with 'Select' also highlighted by a red box.

Select **Commit** when done (not shown).

7.9. Configure SIP Entity for Avaya Communication Server 1000E

Select **SIP Entities** from the left window and click on **New** in the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar has a tree view with 'Routing' expanded, showing 'Domains', 'Locations', 'Adaptations', and 'SIP Entities' (which is selected and highlighted with a red box). The main content area is titled 'SIP Entities' and shows a table with three rows:

Name	FQDN or IP Address	Type	Notes
AMessaging	192.168.50.60	Modular Messaging	
AMXServer	192.168.50.100	SIP Trunk	
CM63VMPG	10.10.40.31	CM	

At the top of the main content area, there are buttons for 'Edit', 'New' (highlighted with a red box), 'Duplicate', 'Delete', and 'More Actions'. The top right corner shows 'Last Logged on at January 15, 2014 12:07 PM', 'Help | About | Change Password | Log off admin', and 'Routing' and 'Home' buttons.

Enter a suitable **Name** and ensure the **Location** that was configured in **Section 7.2** and the correct **Time Zone** is entered. Click **Commit**.

The screenshot shows the 'SIP Entity Details' configuration page. The left sidebar is identical to the previous screenshot. The main content area is titled 'SIP Entity Details' under 'General' settings. It contains two main sections with red boxes around them:

- General:** Contains fields for 'Name' (CS1KPG2), 'FQDN or IP Address' (192.168.50.99), 'Type' (SIP Trunk), and 'Notes'.
- Adaptation:** Contains dropdowns for 'Adaptation' (selected), 'Location' (DevconLAB), and 'Time Zone' (Europe/Dublin).

Below these sections are additional configuration options:

- 'Override Port & Transport with DNS SRV': A checkbox.
- 'SIP Timer B/F (in seconds)': A numeric input field set to 4.
- 'Credential name': A text input field.
- 'Call Detail Recording': A dropdown menu set to 'egress'.

7.10. Configure Entity Link for Avaya Communication Server 1000E

Select **Entity Link** from the left window and click on **New** in the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar is titled 'Routing' and includes options like Domains, Locations, Adaptations, SIP Entities, and Entity Links, with 'Entity Links' selected and highlighted by a red box. The main content area is titled 'Entity Links' and shows a table with 14 items. A red box highlights the 'New' button in the toolbar above the table. The table columns are Name, SIP Entity 1, Protocol, Port, SIP Entity 2, Port, Connection Policy, and Notes. The data in the table includes entries for AAMessaging, AMXServer, CM63VMPG, CS1KPG1_TCP, and DS3000.

Select the correct **SIP Entity** that was created in **Section 7.9** for **SIP Entity 2** and ensure that **TCP** is used as the **Protocol**. Note the **Port** is **5060**. This was also given as the **Port** and **Protocol** in **Section 6**. Click on **Commit** once the information is entered.

The screenshot shows the Avaya Aura System Manager 6.2 interface with the 'Entity Links' creation dialog open. The left sidebar is the same as the previous screenshot. The main content area is titled 'Entity Links' and shows a table with 1 item. A red box highlights the 'Name' field containing 'ToCS1KPG2'. Another red box highlights the 'Protocol' dropdown set to 'TCP'. A third red box highlights the 'Port' field set to '5060'. A fourth red box highlights the 'SIP Entity 2' dropdown set to 'CS1KPG2'. The 'Connection Policy' dropdown is set to 'Trusted'. The 'Commit' button at the bottom right is also highlighted with a red box. A note at the bottom left says '* Input Required'.

7.11. Configure Routing Policy for Avaya Communication Server 1000E

Select **Routing Policies** from the left window and click on **New** in the main window.

Name	Disabled	Retries	Destination	Notes
AAMessaging	<input type="checkbox"/>	0	AAMessaging	
CM62	<input type="checkbox"/>	0	CommunicationManager	
Presence	<input type="checkbox"/>	0	Presence	
RPMessaging	<input type="checkbox"/>	0	RichardAuraMessaging	

Enter a suitable **Name** and click on **Select** highlighted in order to associate this routing policy with a SIP Entity.

Select the CS1000E SIP Entity that was created in **Section 7.9**.

Name	FQDN or IP Address	Type	Notes
AAMessaging	192.168.50.60	Modular Messaging	
AMXServer	192.168.50.100	SIP Trunk	
CM62VMPG	10.10.40.31	CM	
CommunicationManager	192.168.50.13	CM	Communication Manager R6.2
CS1KPG1	10.10.40.111	SIP Trunk	
CS1KPG2	192.168.50.99	SIP Trunk	
DS3000	10.253.144.206	SIP Trunk	

Click on **Commit** (not shown).

7.12. Configure Dial Pattern for Avaya Communication Server 1000E

In order to route calls to the CS1000E a dial pattern is created pointing to the SIP Entity. Select **Dial Patterns** from the left window and click on **New** in the main window.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar under 'Routing' has 'Dial Patterns' selected and highlighted with a red box. The main content area is titled 'Dial Patterns' and shows a table with 17 items. The columns are: Pattern, Min, Max, Emergency Call, Emergency Type, Emergency Priority, SIP Domain, and Notes. The data in the table includes:

Pattern	Min	Max	Emergency Call	Emergency Type	Emergency Priority	SIP Domain	Notes
20	4	4	<input type="checkbox"/>			devcon.avaya	
22252015	8	8	<input type="checkbox"/>			devcon.avaya	
2999	4	4	<input type="checkbox"/>			devcon.avaya	
30	4	4	<input type="checkbox"/>			-ALL-	

Enter the number to be routed noting this will be extension numbers of the CS1000E deskphones, in this case **30xx**. Note the **SIP Domain** is that configured in **Section 7.2**. Click on **Add** to select the SIP Entity.

The screenshot shows the 'Dial Pattern Details' page. The left sidebar under 'Routing' has 'Dial Patterns' selected and highlighted with a red box. The main content area has a 'General' section with fields for 'Pattern' (32), 'Min' (4), 'Max' (4), 'Emergency Call' (unchecked), 'Emergency Priority' (1), 'Emergency Type' (unchecked), and 'SIP Domain' (devconnect.local). Below this is an 'Originating Locations and Routing Policies' section with 'Add' and 'Remove' buttons, showing 1 Item and a Refresh button.

Tick on the **Originating Location** as shown below, note this is the location configured in **Section 7.3** and select the CS1000E Routing Policy. Click on **Select** once complete and click on **Commit** on the resulting screen (not shown) to finish.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar under 'Routing' has 'Dial Patterns' highlighted with a red box. The main content area is titled 'Home / Elements / Routing / Dial Patterns'. It displays two tables: 'Originating Location and Routing Policy List' and 'Routing Policies'.

Originating Location:

Name	Notes
DevconLAB	

Routing Policies:

Name	Disabled	Destination	Notes
AAMessaging	<input type="checkbox"/>	AAMessaging	
ToCS1KPG2	<input type="checkbox"/>	CS1KPG2	

Buttons at the top right include 'Select' (highlighted with a red box), 'Cancel', 'Help | About | Change Password', and 'Log off admin'.

8. Configuration of Maximum Network Solutions Logicall IVR

The Logicall IVR is preconfigured to specifications depending on the requirements of each solution. The configuration required to connect to the CS1000E in the Control.ini and MYSIP.cfg files for each application on Logicall server. Once the LIVR responds to the Options messages being sent from Session Manager, the SIP trunk between the LIVR and Session Manager is completed.

All systems are configured, installed and maintained by MNS.

Points to note for MNS personnel:

- Ensure ‘INVITE’ and ‘ACK’ is enabled for SIP RTP re-invites.
- Any CODEC changes made to the SIP elements must also be applied to ASR server.

Both Control.ini and MYSIP.cfg files used in the compliance testing are included in **Appendix C** of these Application Notes.

9. Verification Steps

To verify a successful configuration of Logicall IVR and CS1000E a call is placed from the CS1000E to the Logicall IVR application with the caller getting answered successfully hearing clear and audible speech. A second call is made from the Logicall IVR to an extension on the CS1000E by opening a demo application on Logicall.

9.1. Verify Logicall IVR SIP Entity is up

Log in to System Manager as per **Section 7.1**. From the main menu select Session Manager as shown below.

The screenshot shows the Avaya System Manager main menu divided into three sections: Users, Elements, and Services. The 'Elements' section is highlighted with a dark orange header. Under 'Elements', the 'Session Manager' item is highlighted with a red box. Other visible items include B5800 Branch Gateway, Communication Manager, Conferencing, Inventory, Meeting Exchange, Messaging, Presence, Routing, SIP AS 8.1, and UCM Services. The 'Services' section includes options like Backup and Restore, Bulk Import and Export, Configurations, Events, Licenses, Replication, Scheduler, Security, Templates, and UCM Services.

Navigate to **System Status → SIP Entity Monitoring**.

The screenshot shows the Avaya Aura System Manager 6.2 Session Manager Dashboard. The left sidebar has a 'Session Manager' dropdown with 'SIP Entity Monitoring' highlighted with a red box. The main content area shows the 'Session Manager Instances' table with two entries: 'SessionManager' and 'SM61'. Both entries show 'Core' type, '0/0/0' alarms, 'Tests Pass', 'Up' service state, and 'Accept New Service' entity monitoring status. The table also includes columns for Active Call Count and Registrations.

Select the **Logicall IVR SIP Entity** (not shown). Note that both the **Conn. Status** and **Link Status** show **Up**.

The screenshot shows the Avaya Aura System Manager 6.2 interface. The left sidebar is titled "Session Manager" and includes options like Dashboard, Session Manager Administration, Communication Profile Editor, Network Configuration, Device and Location Configuration, Application Configuration, and System Status (with SIP Entity Monitoring selected). The main content area has a title "SIP Entity, Entity Link Connection Status" and a subtitle "All Entity Links to SIP Entity: Logicall". A table displays connection details for a single entry:

Details	Session Manager Name	SIP Entity Resolved IP	Port	Proto.	Conn. Status	Reason Code	Link Status
Show	SessionManager	10.10.40.50	5060	UDP	Up	200 OK	Up

10. Conclusion

The interoperation of Logicall IVR from Maximum Network Solutions with Avaya Communication Server 1000E R7.5 and Avaya Aura® Session Manager R6.2 was successful for this specific setup in order to place calls from the Logicall IVR to the CS1000E and these are outlined in **Section 2.2**.

11. Additional References

Additional Avaya product documentation is available at <http://support.avaya.com>.

- [1] *Software Input Output Reference – Administration – Avaya Communication Server 1000, R7.5 NN43001-611*
- [2] *Administering Avaya Aura® Session Manager, Release 6.2, 03-603324*

Information on Maximum Network Solutions (Maxnet) and product support visit
<http://www.maxnet.co.uk>

Appendix A

Avaya Communication Server 1000E R7.5 - Linux Patches

Product Release: 7.50.17.00						
In system patches: 2						
PATCH#	NAME	IN_SERVICE	DATE	SPECINS	TYPE	RPM
31	p31484_1	Yes	26/06/13	NO	FRU	cs1000-shared-general-7.50.17-00.i386
51	p33024_1	Yes	13/03/14	NO	FRU	cs1000-cs-7.50.Q.100-00.i386
In System service updates: 32						
PATCH#	IN_SERVICE	DATE	SPECINS	REMOVABLE	NAME	
0	Yes	12/03/14	NO	YES	cs1000-patchWeb-7.50.17.16-15.i386.000	
1	Yes	17/01/13	YES	YES	cs1000-baseWeb-7.50.17.16-2.i386.000	
2	Yes	13/03/14	NO	YES	cs1000-dmWeb-7.50.17.16-7.i386.000	
3	Yes	26/06/13	NO	YES	cs1000-shared-pbx-7.50.17.16-1.i386.000	
4	Yes	26/06/13	NO	YES	cs1000-kcv-7.50.17.16-1.i386.000	
5	Yes	26/06/13	NO	yes	avaya-cs1000-cnd-4.0.20-00.i386.000	
6	Yes	26/06/13	NO	YES	cs1000-ipsec-7.50.17.16-1.i386.000	
7	Yes	26/06/13	NO	YES	ipsec-tools-0.6.5-14.e15.3 avaya 1.i386.000	
8	Yes	26/06/13	NO	YES	spiritAgent-6.1-1.0.0.108.208.i386.000	
12	Yes	26/06/13	NO	YES	cs1000-ncs-7.50.17.16-1.i386.000	
13	Yes	26/06/13	NO	YES	cs1000-EmCentralLogic-7.50.17.16-2.i386.000	
17	Yes	26/06/13	NO	YES	cs1000-csoneksvrmgr-7.50.17.16-1.i386.000	
28	Yes	26/06/13	NO	YES	cs1000-dbcom-7.50.17.16-1.i386.000	
32	Yes	12/03/14	YES	YES	cs1000-linuxbase-7.50.17.16-21.i386.000	
33	Yes	13/03/14	NO	YES	cs1000-pd-7.50.17.16-3.i386.000	
34	Yes	13/03/14	NO	YES	cs1000-ftrpkg-7.50.17.16-13.i386.000	
35	Yes	13/03/14	NO	YES	cs1000-emWebLocal_6-0-7.50.17.16-4.i386.000	
36	Yes	13/03/14	YES	YES	cs1000-mscAnnc-7.50.17.16-17.i386.000	
37	Yes	13/03/14	YES	YES	cs1000-mscAttn-7.50.17.16-7.i386.000	
38	Yes	13/03/14	YES	YES	cs1000-mscConf-7.50.17.16-5.i386.000	
39	Yes	13/03/14	YES	YES	cs1000-mscMusc-7.50.17.16-18.i386.000	
40	Yes	13/03/14	YES	YES	cs1000-mscTone-7.50.17.16-6.i386.000	
41	Yes	13/03/14	YES	YES	cs1000-emWeb_6-0-7.50.17.16-41.i386.000	
42	Yes	13/03/14	NO	YES	cs1000-gk-7.50.17.16-2.i386.000	
43	Yes	13/03/14	NO	YES	cs1000-cs1000WebService_6-0-7.50.17.16-2.i386.000	
44	Yes	13/03/14	NO	YES	cs1000-csmWeb-7.50.17.16-9.i386.000	
45	Yes	13/03/14	NO	YES	cs1000-sps-7.50.17.16-18.i386.000	
46	Yes	13/03/14	yes	yes	tzdata-2013c-2.e15.i386.000	
47	Yes	13/03/14	YES	YES	cs1000-tps-7.50.17.16-33.i386.000	
48	Yes	13/03/14	YES	YES	cs1000-Jboss-Quantum-7.50.17.16-37.i386.000	
49	Yes	13/03/14	YES	YES	cs1000-vtrk-7.50.17.16-228.i386.000	
50	Yes	13/03/14	YES	YES	cs1000-bcc-7.50.17.16-117.i386.000	

Avaya Communication Server 1000E R7.5 - Call Server Patches

IN-SERVICE PEPS						
PAT#	CR #	PATCH REF #	NAME	DATE	FILENAME	SPECINS
000	wi01044828	ISS1:1OF1	p31510_1	13/03/2014	p31510_1.cpl	NO
001	wi00853178	ISS1:1OF1	p30719_1	13/03/2014	p30719_1.cpl	NO
002	wi01044293	ISS1:1OF1	p32250_1	13/03/2014	p32250_1.cpl	NO
003	wi01037022	ISS1:1OF1	p32192_1	13/03/2014	p32192_1.cpl	YES
004	wi00854130	ISS1:1OF1	p30443_1	13/03/2014	p30443_1.cpl	NO
005	wi01006063	ISS1:1OF1	p31957_1	13/03/2014	p31957_1.cpl	NO
006	wi01029486	ISS1:1OF1	p32144_1	13/03/2014	p32144_1.cpl	NO
007	wi01057782	ISS1:1OF1	p32344_1	13/03/2014	p32344_1.cpl	NO
008	wi00896319	ISS1:1OF1	p31070_1	13/03/2014	p31070_1.cpl	NO
009	wi01092839	ISS1:1OF1	p32731_1	13/03/2014	p32731_1.cpl	NO
010	wi01008943	ISS1:1OF1	p31382_1	13/03/2014	p31382_1.cpl	NO
011	wi01030651	ISS1:1OF1	p32159_1	13/03/2014	p32159_1.cpl	NO
012	wi01012423	ISS1:1OF1	p26155_1	13/03/2014	p26155_1.cpl	NO
013	wi01023570	ISS1:1OF1	p32096_1	13/03/2014	p32096_1.cpl	NO
014	wi01050993	ISS1:1OF1	p32289_1	13/03/2014	p32289_1.cpl	NO
015	wi01032447	ISS1:1OF1	p32160_1	13/03/2014	p32160_1.cpl	NO
016	wi00998328	ISS1:1OF1	p31899_1	13/03/2014	p31899_1.cpl	NO
017	wi00854469	ISS1:1OF1	p30701_1	13/03/2014	p30701_1.cpl	NO
018	wi01007604	ISS1:1OF1	p31983_1	13/03/2014	p31983_1.cpl	NO
019	wi01020959	ISS1:1OF1	p32062_1	13/03/2014	p32062_1.cpl	NO
020	wi01007960	ISS1:1OF1	p31965_1	13/03/2014	p31965_1.cpl	NO
021	wi01112938	ISS1:1OF1	p32871_1	13/03/2014	p32871_1.cpl	NO
022	wi01060919	ISS1:1OF1	p32397_1	13/03/2014	p32397_1.cpl	YES
023	wi00949273	ISS1:1OF1	p31411_1	13/03/2014	p31411_1.cpl	NO
024	wi01032794	ISS1:1OF1	p31480_1	13/03/2014	p31480_1.cpl	NO
025	wi01037848	ISS1:1OF1	p32202_1	13/03/2014	p32202_1.cpl	NO
026	wi01066277	ISS1:1OF2	p32435_1	13/03/2014	p32435_1.cpl	NO
027	wi00971980	ISS1:1OF1	p31863_1	13/03/2014	p31863_1.cpl	NO
028	wi01042548	ISS1:1OF1	p32232_1	13/03/2014	p32232_1.cpl	NO
029	wi01034779	ISS1:1OF1	p32174_1	13/03/2014	p32174_1.cpl	NO
030	wi01046277	ISS1:1OF1	p32265_1	13/03/2014	p32265_1.cpl	NO
031	wi01003384	ISS1:1OF1	p31479_1	13/03/2014	p31479_1.cpl	NO
032	wi01039079	ISS1:1OF1	p32210_1	13/03/2014	p32210_1.cpl	NO
033	wi01046059	ISS1:1OF1	p32262_1	13/03/2014	p32262_1.cpl	NO
034	wi01008188	ISS1:1OF1	p32020_1	13/03/2014	p32020_1.cpl	NO
035	wi01037583	ISS1:1OF1	p32201_1	13/03/2014	p32201_1.cpl	NO
036	wi00965603	ISS1:1OF1	p31618_1	13/03/2014	p31618_1.cpl	NO
037	wi00956788	ISS1:1OF1	p31638_1	13/03/2014	p31638_1.cpl	NO
038	wi01001911	ISS1:1OF1	p31920_1	13/03/2014	p31920_1.cpl	NO
039	wi01008316	ISS1:1OF1	p32026_1	13/03/2014	p32026_1.cpl	YES
040	wi01034452	ISS1:1OF1	p31672_1	13/03/2014	p31672_1.cpl	NO
041	wi01077070	ISS1:1OF1	p32534_1	13/03/2014	p32534_1.cpl	NO
042	wi01018064	ISS1:1OF1	p32044_1	13/03/2014	p32044_1.cpl	NO
043	wi01033893	ISS1:1OF1	p32167_1	13/03/2014	p32167_1.cpl	NO
044	wi00976951	ISS1:1OF1	p30112_1	13/03/2014	p30112_1.cpl	NO
045	wi01046101	ISS1:1OF1	p32263_1	13/03/2014	p32263_1.cpl	NO
046	WI00854150	ISS1:1OF1	p30468_1	13/03/2014	p30468_1.cpl	NO
047	wi01030088	ISS1:1OF1	p32148_1	13/03/2014	p32148_1.cpl	YES
048	wi01041007	ISS1:1OF1	p32059_1	13/03/2014	p32059_1.cpl	NO
049	wi00991907	iss1:1of1	p31907_1	13/03/2014	p31907_1.cpl	NO
050	wi01037773	ISS1:1OF1	p31544_1	13/03/2014	p31544_1.cpl	NO

051	wi01044600	ISS1:1OF1	p32255_1	13/03/2014	p32255_1.cpl	YES
052	wi01033197	ISS1:1OF1	p29818_1	13/03/2014	p29818_1.cpl	NO
053	wi01005927	ISS1:1OF1	p31905_1	13/03/2014	p31905_1.cpl	NO
054	wi01119475	ISS1:1OF1	p32922_1	13/03/2014	p32922_1.cpl	NO
055	wi00897250	ISS1:1OF1	p31127_1	13/03/2014	p31127_1.cpl	NO
056	wi01115608	ISS1:1OF1	p32949_1	13/03/2014	p32949_1.cpl	YES
057	wi01014835	ISS1:1OF1	p32015_1	13/03/2014	p32015_1.cpl	NO
058	wi00896394	ISS1:1OF1	p30807_1	13/03/2014	p30807_1.cpl	NO
059	wi00989828	ISS1:1OF1	p31836_1	13/03/2014	p31836_1.cpl	NO
060	wi01039486	ISS1:1OF1	p32209_1	13/03/2014	p32209_1.cpl	YES
061	wi01037975	ISS1:1OF1	p32227_1	13/03/2014	p32227_1.cpl	YES
062	wi01015780	ISS1:1OF1	p32083_1	13/03/2014	p32083_1.cpl	NO
063	wi01016398	ISS1:1OF1	p32019_1	13/03/2014	p32019_1.cpl	NO
064	wi01037234	ISS1:1OF1	p32220_1	13/03/2014	p32220_1.cpl	NO
065	wi01008106	ISS1:1OF1	p31861_1	13/03/2014	p31861_1.cpl	NO
066	wi01001938	ISS1:1OF1	p31921_1	13/03/2014	p31921_1.cpl	YES
067	wi01031571	ISS1:1OF1	p32158_1	13/03/2014	p32158_1.cpl	NO
068	wi00905297	ISS1:1OF1	p31195_1	13/03/2014	p31195_1.cpl	NO
069	wi01041545	ISS1:1OF1	p32236_1	13/03/2014	p32236_1.cpl	YES
070	wi00965009	ISS1:1OF1	p31600_1	13/03/2014	p31600_1.cpl	NO
071	wi01044845	ISS1:1OF1	p31739_1	13/03/2014	p31739_1.cpl	NO
072	wi01034420	ISS1:1OF1	p31584_1	13/03/2014	p31584_1.cpl	NO
073	wi01021598	ISS1:1OF1	p32066_1	13/03/2014	p32066_1.cpl	NO
074	wi01011078	ISS1:1OF1	p31996_1	13/03/2014	p31996_1.cpl	NO
075	wi01020587	ISS1:1OF1	p32097_1	13/03/2014	p32097_1.cpl	NO
076	wi01042285	ISS1:1OF1	p32230_1	13/03/2014	p32230_1.cpl	YES
077	wi01039170	ISS1:1OF1	p32207_1	13/03/2014	p32207_1.cpl	YES
078	wi01075022	ISS1:1OF1	p32519_1	13/03/2014	p32519_1.cpl	NO
079	wi01050057	ISS1:1OF1	p32286_1	13/03/2014	p32286_1.cpl	NO
080	wi00837538	ISS1:1OF1	p30568_1	13/03/2014	p30568_1.cpl	NO
081	wi01034774	ISS1:1OF1	p32173_1	13/03/2014	p32173_1.cpl	NO
082	wi01074096	ISS1:1OF1	p32080_1	13/03/2014	p32080_1.cpl	NO
083	wi01044868	ISS1:1OF1	p32261_1	13/03/2014	p32261_1.cpl	NO
084	wi00999802	ISS1:1OF1	p31577_1	13/03/2014	p31577_1.cpl	NO
085	wi00824257	ISS1:1OF1	p30447_1	13/03/2014	p30447_1.cpl	NO
086	wi01039099	ISS1:1OF1	p32269_1	13/03/2014	p32269_1.cpl	NO
087	wi01016303	ISS1:1OF1	p32031_1	13/03/2014	p32031_1.cpl	NO
088	wi01014478	ISS1:1OF1	p32301_1	13/03/2014	p32301_1.cpl	NO
089	wi01044873	ISS1:1OF1	p31749_1	13/03/2014	p31749_1.cpl	NO
090	wi00981711	ISS1:1OF1	p31766_1	13/03/2014	p31766_1.cpl	NO
091	wi01000796	ISS1:1OF1	p31800_1	13/03/2014	p31800_1.cpl	NO
092	wi00967514	ISS1:1OF1	p31351_1	13/03/2014	p31351_1.cpl	NO
093	wi01012638	ISS1:1OF1	p32008_1	13/03/2014	p32008_1.cpl	NO
094	wi01012229	ISS1:1OF1	p31993_1	13/03/2014	p31993_1.cpl	NO
095	wi01027702	ISS1:1OF1	p32140_1	13/03/2014	p32140_1.cpl	NO
096	wi01020752	ISS1:1OF1	p32108_1	13/03/2014	p32108_1.cpl	NO
097	wi01042755	ISS1:1OF1	p31667_1	13/03/2014	p31667_1.cpl	NO
098	wi01112402	ISS1:1OF1	p32866_1	13/03/2014	p32866_1.cpl	NO
099	wi01003814	ISS1:1OF1	p31940_1	13/03/2014	p31940_1.cpl	NO
100	wi01013144	ISS1:1OF1	p31929_1	13/03/2014	p31929_1.cpl	NO
101	wi01005653	ISS1:1OF1	p31952_1	13/03/2014	p31952_1.cpl	NO
102	wi01033550	ISS1:1OF1	p31565_1	13/03/2014	p31565_1.cpl	NO
103	wi01027609	ISS1:1OF1	p31850_1	13/03/2014	p31850_1.cpl	NO
104	wi00897279	ISS1:1OF1	p31129_1	13/03/2014	p31129_1.cpl	NO
105	wi01040531	ISS1:1OF1	p32218_1	13/03/2014	p32218_1.cpl	NO
106	wi00875425	ISS1:1OF1	p30943_1	13/03/2014	p30943_1.cpl	NO
107	wi01011113	ISS1:1OF1	p32054_1	13/03/2014	p32054_1.cpl	NO
108	wi01003999	ISS1:1OF1	p31946_1	13/03/2014	p31946_1.cpl	YES
109	wi01051786	ISS1:1OF1	p32296_1	13/03/2014	p32296_1.cpl	YES
110	wi00993743	ISS1:1OF1	p31865_1	13/03/2014	p31865_1.cpl	NO
111	wi00967505	ISS1:1OF1	p31491_1	13/03/2014	p31491_1.cpl	NO

112	wi01008505	ISS1:1OF1	p31968_1	13/03/2014	p31968_1.cpl	NO
113	wi01034409	ISS1:1OF1	p29708_1	13/03/2014	p29708_1.cpl	NO
114	wi01031825	ISS1:1OF1	p31882_1	13/03/2014	p31882_1.cpl	NO
115	wi01010472	ISS1:1OF1	p31975_1	13/03/2014	p31975_1.cpl	NO
116	wi01020043	ISS1:1OF1	p32055_1	13/03/2014	p32055_1.cpl	NO
117	wi01001588	ISS1:1OF1	p31976_1	13/03/2014	p31976_1.cpl	NO
118	wi01028650	ISS1:1OF1	p32188_1	13/03/2014	p32188_1.cpl	NO
119	wi01040096	ISS1:1OF1	p32214_1	13/03/2014	p32214_1.cpl	NO
120	wi01022466	ISS1:1OF1	p32205_1	13/03/2014	p32205_1.cpl	NO
121	wi00977002	ISS2:1OF1	p30786_2	13/03/2014	p30786_2.cpl	NO
122	wi01042797	ISS1:1OF1	p32089_1	13/03/2014	p32089_1.cpl	NO
123	wi00949136	ISS1:1OF1	p31441_1	13/03/2014	p31441_1.cpl	NO
124	wi01051024	ISS1:1OF1	p32290_1	13/03/2014	p32290_1.cpl	NO
125	wi00967510	ISS1:1OF1	p31147_1	13/03/2014	p31147_1.cpl	NO
126	wi00854415	ISS1:1OF1	p30593_1	13/03/2014	p30593_1.cpl	NO
127	wi00865477	ISS1:1OF1	p30892_1	13/03/2014	p30892_1.cpl	YES
128	wi01122145	ISS1:1OF1	p32944_1	13/03/2014	p32944_1.cpl	NO
129	wi01052217	ISS1:1OF1	p32297_1	13/03/2014	p32297_1.cpl	NO
130	wi00856991	ISS1:1OF1	p17588_1	13/03/2014	p17588_1.cpl	NO
131	wi00950575	ISS1:1OF1	p31724_1	13/03/2014	p31724_1.cpl	NO
132	wi01081099	ISS1:1OF1	p32590_1	13/03/2014	p32590_1.cpl	NO
133	wi00959284	ISS1:1OF1	p31531_1	13/03/2014	p31531_1.cpl	NO
134	wi00984904	ISS1:1OF1	p31796_1	13/03/2014	p31796_1.cpl	NO
135	WI00853473	ISS1:1OF1	p30625_1	13/03/2014	p30625_1.cpl	NO
136	wi01097005	ISS1:1OF1	p31617_1	13/03/2014	p31617_1.cpl	NO
137	wi01052883	ISS1:1OF1	p32304_1	13/03/2014	p32304_1.cpl	NO
138	wi01056574	ISS1:1OF1	p30571_1	13/03/2014	p30571_1.cpl	NO
139	wi00879526	ISS1:1OF1	p31007_1	13/03/2014	p31007_1.cpl	NO
140	wi00858335	ISS1:1OF1	p30819_1	13/03/2014	p30819_1.cpl	NO
141	wi00927321	ISS1:1OF1	p31286_1	13/03/2014	p31286_1.cpl	YES
142	wi01060240	ISS1:1OF1	p32381_1	13/03/2014	p32381_1.cpl	NO
143	wi00975659	ISS1:1OF1	p31707_1	13/03/2014	p31707_1.cpl	NO
144	wi01115773	ISS1:1OF1	p32894_1	13/03/2014	p32894_1.cpl	NO
145	wi00834382	ISS1:1OF1	p30548_1	13/03/2014	p30548_1.cpl	NO
146	wi01123229	ISS1:1OF1	p32952_1	13/03/2014	p32952_1.cpl	NO
147	wi01112617	ISS1:1OF1	p32869_1	13/03/2014	p32869_1.cpl	YES
148	wi01081427	ISS1:1OF1	p32736_1	13/03/2014	p32736_1.cpl	NO
149	wi01075015	ISS1:1OF1	p32518_1	13/03/2014	p32518_1.cpl	NO
150	wi00897082	ISS1:1OF1	p31124_1	13/03/2014	p31124_1.cpl	NO
151	WI00889786	ISS1:1OF1	p30750_1	13/03/2014	p30750_1.cpl	NO
152	wi00877367	ISS1:1OF1	p30534_1	13/03/2014	p30534_1.cpl	NO
153	WI00836292	ISS1:1OF1	p30554_1	13/03/2014	p30554_1.cpl	NO
154	wi00924886	ISS1:1OF1	p31062_1	13/03/2014	p31062_1.cpl	YES
155	wi01107140	ISS1:1OF1	p32827_1	13/03/2014	p32827_1.cpl	NO
156	wi01055323	ISS1:1OF1	p32322_1	13/03/2014	p32322_1.cpl	NO
157	wi00841980	ISS1:1OF1	p30618_1	13/03/2014	p30618_1.cpl	NO
158	wi00969890	ISS1:1OF1	p31664_1	13/03/2014	p31664_1.cpl	YES
159	wi00937672	ISS1:1OF1	p31276_1	13/03/2014	p31276_1.cpl	NO
160	wi00936935	ISS1:1OF1	p31362_1	13/03/2014	p31362_1.cpl	NO
161	wi01106657	ISS1:1OF1	p32812_1	13/03/2014	p32812_1.cpl	NO
162	wi00865477	ISS1:1OF1	p30894_1	13/03/2014	p30894_1.cpl	YES
163	wi00991523	ISS1:1OF1	p31603_1	13/03/2014	p31603_1.cpl	NO
164	wi01093071	ISS1:1OF1	p32701_1	13/03/2014	p32701_1.cpl	NO
165	wi01070959	ISS1:1OF1	p32475_1	13/03/2014	p32475_1.cpl	NO
166	wi00906350	ISS1:1OF1	p31219_1	13/03/2014	p31219_1.cpl	NO
167	wi01078718	ISS1:1OF1	p32553_1	13/03/2014	p32553_1.cpl	NO
168	wi01065226	ISS1:1OF1	p32461_1	13/03/2014	p32461_1.cpl	NO
169	wi00909476	ISS1:1OF1	p31340_1	13/03/2014	p31340_1.cpl	NO
170	wi01098790	ISS1:1OF1	p32745_1	13/03/2014	p32745_1.cpl	YES
171	wi01093952	ISS1:1OF1	p32640_1	13/03/2014	p32640_1.cpl	NO
172	wi00835294	ISS1:1OF1	p30565_1	13/03/2014	p30565_1.cpl	NO

173	wi01052286	ISS1:1OF1	p32303_1	13/03/2014	p32303_1.cpl	NO
174	wi00839134	ISS1:1OF1	p30698_1	13/03/2014	p30698_1.cpl	YES
175	wi01078513	ISS1:1OF1	p32549_1	13/03/2014	p32549_1.cpl	NO
176	wi01097775	ISS1:1OF1	p32788_1	13/03/2014	p32788_1.cpl	NO
177	wi00869243	ISS1:1OF1	p30848_1	13/03/2014	p30848_1.cpl	NO
178	wi01099871	ISS1:1OF1	p32412_1	13/03/2014	p32412_1.cpl	NO
179	wi00968448	ISS1:1OF1	p31648_1	13/03/2014	p31648_1.cpl	YES
180	wi01123222	ISS1:1OF1	p32975_1	13/03/2014	p32975_1.cpl	NO
181	wi00959463	ISS1:1OF1	p31528_1	13/03/2014	p31528_1.cpl	NO
182	wi00900096	ISS1:1OF1	p31006_1	13/03/2014	p31006_1.cpl	NO
183	wi01094404	iss1:1of1	p32713_1	13/03/2014	p32713_1.cpl	NO
184	wi01129850	ISS1:1OF1	p33008_1	13/03/2014	p33008_1.cpl	NO
185	wi00967509	ISS1:1OF1	p31294_1	13/03/2014	p31294_1.cpl	NO
186	wi01096966	ISS1:1OF1	p32735_1	13/03/2014	p32735_1.cpl	NO
187	WI00927300	ISS1:1OF1	p30999_1	13/03/2014	p30999_1.cpl	NO
188	wi01118658	ISS1:1OF1	p32921_1	13/03/2014	p32921_1.cpl	NO
189	wi01122006	ISS1:1OF1	p32951_1	13/03/2014	p32951_1.cpl	NO
190	wi00880836	ISS1:1OF1	p30976_1	13/03/2014	p30976_1.cpl	NO
191	wi01105033	ISS1:1OF1	p32806_1	13/03/2014	p32806_1.cpl	YES
192	wi00897176	ISS1:1OF1	p30418_1	13/03/2014	p30418_1.cpl	NO
193	wi00968353	ISS1:1OF1	p31412_1	13/03/2014	p31412_1.cpl	NO
194	WI01092792	ISS1:1OF1	p32699_1	13/03/2014	p32699_1.cpl	NO
195	wi01093666	iss1:1of1	p32704_1	13/03/2014	p32704_1.cpl	NO
196	wi00895181	ISS1:1OF1	p31106_1	13/03/2014	p31106_1.cpl	NO
197	wi01132049	ISS1:1OF1	p33023_1	13/03/2014	p33023_1.cpl	NO
198	wi01079788	ISS1:1OF1	p32569_1	13/03/2014	p32569_1.cpl	NO
199	wi00838073	ISS1:1OF1	p30588_1	13/03/2014	p30588_1.cpl	NO
200	wi00862574	iss1:1of1	p30870_1	13/03/2014	p30870_1.cpl	NO
201	wi00930649	ISS1:1OF1	p31570_1	13/03/2014	p31570_1.cpl	NO
202	wi00962211	ISS1:1OF1	p31580_1	13/03/2014	p31580_1.cpl	NO
203	wi00964006	ISS1:1OF1	p31595_1	13/03/2014	p31595_1.cpl	YES
204	wi01089515	ISS1:1OF1	p32665_1	13/03/2014	p32665_1.cpl	YES
205	wi01077638	ISS1:1OF1	p32541_1	13/03/2014	p32541_1.cpl	NO
206	wi00981928	ISS1:1OF1	p31869_1	13/03/2014	p31869_1.cpl	NO
207	wi00969208	ISS1:1OF1	p31656_1	13/03/2014	p31656_1.cpl	NO
208	wi01074191	ISS1:1OF1	p32509_1	13/03/2014	p32509_1.cpl	NO
209	wi00984888	ISS1:1OF1	p31795_1	13/03/2014	p31795_1.cpl	NO
210	wi00932204	ISS2:1OF1	p31305_2	13/03/2014	p31305_2.cpl	NO
211	wi00945997	ISS1:1OF1	p31641_1	13/03/2014	p31641_1.cpl	NO
212	wi01088825	ISS1:1OF1	p32660_1	13/03/2014	p32660_1.cpl	NO
213	wi01060101	ISS1:1OF1	p32380_1	13/03/2014	p32380_1.cpl	NO
214	wi01067346	ISS1:1OF1	p32445_1	13/03/2014	p32445_1.cpl	NO
215	wi01068602	ISS1:1OF1	p32459_1	13/03/2014	p32459_1.cpl	NO
216	wi00863876	ISS1:1OF1	p30787_1	13/03/2014	p30787_1.cpl	NO
217	wi00998121	ISS1:1OF1	p31897_1	13/03/2014	p31897_1.cpl	NO
218	wi01088773	ISS1:1OF1	p32659_1	13/03/2014	p32659_1.cpl	NO
219	wi00906022	ISS1:1OF1	p31202_1	13/03/2014	p31202_1.cpl	NO
220	wi00980476	ISS1:1OF1	p31387_1	13/03/2014	p31387_1.cpl	NO
221	wi01089354	ISS1:1OF1	p32674_1	13/03/2014	p32674_1.cpl	YES
222	wi00836182	ISS1:1OF1	p30450_1	13/03/2014	p30450_1.cpl	NO
223	wi00839821	ISS1:1OF1	p30619_1	13/03/2014	p30619_1.cpl	NO
224	wi00856702	ISS1:1OF1	p30573_1	13/03/2014	p30573_1.cpl	NO
225	wi00871969	ISS1:1OF1	p30768_1	13/03/2014	p30768_1.cpl	NO
226	wi01086735	ISS1:1OF1	p32638_1	13/03/2014	p32638_1.cpl	YES
227	wi01055861	ISS1:1OF1	p32327_1	13/03/2014	p32327_1.cpl	NO
228	wi00967512	ISS1:1OF1	p31384_1	13/03/2014	p31384_1.cpl	NO
229	wi01093338	ISS1:1OF1	p32706_1	13/03/2014	p32706_1.cpl	YES
230	wi01050334	ISS1:1OF1	p32399_1	13/03/2014	p32399_1.cpl	NO
231	wi01099720	ISS1:1OF1	p32742_1	13/03/2014	p32742_1.cpl	YES
232	wi00957235	ISS1:1OF1	p31798_1	13/03/2014	p31798_1.cpl	NO
233	wi00921295	ISS1:1OF1	p31265_1	13/03/2014	p31265_1.cpl	NO

234	wi01118324	ISS1:1OF1	p32916_1	13/03/2014	p32916_1.cpl	NO
235	wi01121495	ISS1:1OF1	p32973_1	13/03/2014	p32973_1.cpl	NO
236	wi00842409	ISS1:1OF1	p30621_1	13/03/2014	p30621_1.cpl	NO
237	wi00943748	ISS1:1OF1	p31516_1	13/03/2014	p31516_1.cpl	NO
238	wi01062831	iss1:1of1	p32404_1	13/03/2014	p32404_1.cpl	NO
239	wi00860279	ISS1:1OF1	p30789_1	13/03/2014	p30789_1.cpl	NO
240	wi01093978	ISS1:1OF1	p32778_1	13/03/2014	p32778_1.cpl	NO
241	wi00960809	ISS1:1OF1	p31564_1	13/03/2014	p31564_1.cpl	NO
242	wi01107629	ISS1:1OF1	p32821_1	13/03/2014	p32821_1.cpl	NO
243	wi00985153	ISS1:1OF1	p31859_1	13/03/2014	p31859_1.cpl	NO
244	wi01094793	ISS1:1OF1	p32716_1	13/03/2014	p32716_1.cpl	NO
245	wi00994044	ISS1:1OF1	p31871_1	13/03/2014	p31871_1.cpl	NO
246	wi00955753	ISS1:1OF1	p31733_1	13/03/2014	p31733_1.cpl	NO
247	wi01062767	ISS1:1OF1	p32400_1	13/03/2014	p32400_1.cpl	NO
248	wi00897096	ISS1:1OF1	p30676_1	13/03/2014	p30676_1.cpl	NO
249	wi00856410	ISS1:1OF1	p30749_1	13/03/2014	p30749_1.cpl	NO
250	wi00840590	ISS1:1OF1	p30767_1	13/03/2014	p30767_1.cpl	NO
251	wi00843623	ISS1:1OF1	p30731_1	13/03/2014	p30731_1.cpl	YES
252	wi01067663	ISS1:1OF1	p32447_1	13/03/2014	p32447_1.cpl	YES
253	wi01079441	ISS1:1OF1	p32564_1	13/03/2014	p32564_1.cpl	NO
254	wi00949410	ISS1:1OF1	p31248_1	13/03/2014	p31248_1.cpl	NO
255	wi00886321	ISS1:1OF1	p31009_1	13/03/2014	p31009_1.cpl	NO
256	wi01094835	iss1:1of1	p32718_1	13/03/2014	p32718_1.cpl	NO
257	wi01068149	ISS1:1OF1	p32454_1	13/03/2014	p32454_1.cpl	NO
258	wi01091939	ISS1:1OF1	p32364_1	13/03/2014	p32364_1.cpl	NO
259	wi01046740	ISS1:1OF1	p32382_1	13/03/2014	p32382_1.cpl	NO
260	wi01069871	ISS1:1OF1	p32467_1	13/03/2014	p32467_1.cpl	NO
261	wi01113711	ISS1:1OF1	p32877_1	13/03/2014	p32877_1.cpl	NO
262	wi00965838	ISS1:1OF1	p31623_1	13/03/2014	p31623_1.cpl	NO
263	wi00996639	ISS1:1OF1	p31886_1	13/03/2014	p31886_1.cpl	NO
264	wi00906163	ISS1:1OF1	p31205_1	13/03/2014	p31205_1.cpl	NO
265	wi01062070	ISS1:1OF1	p32398_1	13/03/2014	p32398_1.cpl	NO
266	wi00930864	ISS1:1OF1	p31325_1	13/03/2014	p31325_1.cpl	NO
267	wi00884699	ISS1:1OF1	p31000_1	13/03/2014	p31000_1.cpl	YES
268	wi00857566	ISS1:1OF1	p30766_1	13/03/2014	p30766_1.cpl	NO
269	wi01114694	ISS1:1OF1	p32885_1	13/03/2014	p32885_1.cpl	NO
270	wi00991892	ISS1:1OF1	p31853_1	13/03/2014	p31853_1.cpl	NO
271	wi00859499	ISS1:1OF1	p30694_1	13/03/2014	p30694_1.cpl	NO
272	wi01071562	ISS1:1OF1	p32484_1	13/03/2014	p32484_1.cpl	NO
273	wi00857362	ISS1:1OF1	p30782_1	13/03/2014	p30782_1.cpl	NO

Appendix B

Avaya Communication Server 1000E D-Channel for SIP Trunks

```
>ld 22
REQ  prt
TYPE adan dch 1
ADAN      DCH 1
CTYP DCIP
DES  SIPL
USR  ISLD
ISLM 4000
SSRC 3700
OTBF 32
NASA NO
IFC  SL1
CNEG 1
RLS  ID  25
RCAP
MBGA NO
H323
OVLR NO
OVLS NO
```

Avaya Communication Server 1000E Route for SIP calls

```
>ld 21
REQ: prt
TYPE: rdb
CUST 0
ROUT 22
TYPE RDB
CUST 00
ROUT 22
DES  SIPTRK
TKTP TIE
M911P NO
ESN  NO
RPA  NO
CNVT NO
SAT  NO
RCLS EXT
VTRK YES
ZONE 00066
PCID SIP
CRID YES
SBWM NO
NODE 111
DTRK NO
ISDN YES
    MODE ISLD
    DCH 1
    IFC  SL1
    PNI  00001
    NCNA YES
    NCRD YES
    TRO  YES
    FALT NO
```

```
CTYP UKWN
INAC NO
ISAR NO
DAPC NO
MBXR NO
MBXOT NPA
MBXT 0
PTYP ATT
CNDP UKWN
AUTO NO
DNIS NO
DCDR NO
ICOG IAO
SRCH LIN
TRMB YES
STEP
ACOD 8022
TCPP NO
PII NO
AUXP NO
TARG
CLEN 1
BILN NO
OABS
INST
IDC NO
DCNO 0 *
NDNO 0
DEXT NO
ANTK
SIGO STD
STYP SDAT
MFC NO
ICIS YES
OGIS YES
PTUT 0
TIMR ICF 1920
OGF 1920
EOD 13952
LCT 256
DSI 34944
NRD 10112
DDL 70
ODT 4096
RGV 640
GTO 896
GTI 896
SFB 3
PRPS 800
NBS 2048
NBL 4096
IENB 5
TFD 0
RTD 12
VSS 0
VGD 6
EESD 1024
SST 5 0
DTD NO
SCDT NO
2 DT NO
```

```
NEDC ORG
FEDC ORG
CPDC NO
DLTN NO
HOLD 02 02 40
SEIZ 02 02
SVFL 02 02
DRNG NO
CDR NO
NATL YES
SSL
CFWR NO
IDOP NO
VRAT NO
MUS NO
PANS YES
MANO NO
FRL 0 0
FRL 1 0
FRL 2 0
FRL 3 0
FRL 4 0
FRL 5 0
FRL 6 0
FRL 7 0
OHQ NO
OHQT 00
CBQ NO
AUTH NO
TDET NO
TTBL 0
ATAN NO
OHTD NO
PLEV 2
OPR NO
ALRM NO
ART 0
PECL NO
DCTI 0
TIDY 8022 22
ATTR NO
TRRL NO
SGRP 0
CCBA NO
ARDN NO
CTBL 0
ANIE 0
CAC_CIS 3
AACR NO
```

Avaya Communication Server 1000E SIP Trunk Channel

```
>ld 20
REQ: prt
TYPE: tn
TYPE TNB
TN 100 0 3 0
DES SIPTRK
TN 100 0 03 00 VIRTUAL
TYPE IPTI
CDEN 8D
CUST 0
XTRK VTRK
ZONE 00066
TIMP 600
BIMP 600
AUTO_BIMP NO
NMUS NO
TRK ANLG
NCOS 0
RTMB 22 1
CHID 11
TGAR 0
STRI/STRO IMM IMM
SUPN YES
AST NO
IAPG 0
CLS UNR DIP CND ECD WTA LPR APN THFD XREP SPCD MSBT
      P10 NTC MID
TKID
AACR NO
DATE 27 AUG 2013
```

Appendix C

Maximum Network Solutions Logicall IVR Control.ini

```
[General]
LogFile=/export/logicall/avaya_test_com/AvayaComTest.log
Speech_Main_Path=/export/logicall/avaya_test_com/wav/main/

[BlindTransfer]
BlindTransferDefault=sip:2600@47.166.92.207:5060

[SupervisedTransfer]
SupervisedTransferOriginator1=5060
SupervisedTransfer1=sip:2600@47.166.92.207:5060

[Testing]
TestNos_Enabled=no
TestCLI=0297949600
TestDNIS=2907

[SpeechResources]
RTPDestIpAddress=47.166.92.15
RTPAltDestIpAddress=N/A
RTPSrcIpAddress=47.166.92.16
RTPSrcPort_ASR=2002
RTPSrcPort_TTS=2100

[CmdRequestListener]
CmdReqListenerPort=30007

* Trace to File - Set to FALSE - Print Screen.
* Debug Notes - Trace_Status - Should be FALSE or TRUE *
* Debug Notes - Trace Level - DEBUG, ERROR, EXTENDED *
[Debug]
TraceToFile=/export/logicall/avaya_test_com/AvayaComTest.log
TraceLevel=EXTENDED
```

Maximum Network Solutions Logicall IVR MYSIP.cfg

```
#-----  
# General Demo Parameters  
#-----  
general.board      = 0    # NMS board number to use with ADI/VCE  
general.slot       = 1    # NMS timeslot to use with ADI/VCE and SIP-NCC  
general.stream     = 0  
general.protocol   = sip0  
general.autoStart  = 0  
general.autoRelease= 0  
general.autoSDP   = 1  
  
#-----  
# SIP Parameters  
#-----  
sip.from           = sip:6000@47.166.92.15:5060  
sip.registrar      =  
sip.contact        =  
#-----  
# SIP-SDP Parameters  
#-----  
  
sip.sdp.connection.networkType = IN  
sip.sdp.connection.addressType = IP4  
sip.sdp.connection.address   = 47.166.92.16  # IP address of CG board as  
                                         # configured in CG cfg file  
sip.sdp.connection.port     = 8004          # UDP port on CG to use  
sip.sdp.origin.userName     = nmssip  
sip.sdp.origin.sessionId    = 01234567890  
sip.sdp.origin.version      = 0987654321  
sip.sdp.origin.networkType  = IN  
sip.sdp.origin.addressType  = IP4  
sip.sdp.origin.address     = 47.166.92.16  # IP address of CG board  
sip.auth.user            =  
sip.auth.password         =  
  
#-----  
# MSPP Parameters -- Use Fusion, not HMP  
#-----  
mspp.hmp            = 0    # Do not use HMP => use Fusion since  
                           # nomedia (next parameter) is false.  
mspp.nomedia        = 0    # There is media used in the application  
mspp.slot           = 30   # NMS Time slot used by CG based Fusion  
                           # for DSO endpoint. MUST be different from  
                           # timeslot specified by 'general.slot'  
#-----  
# Voice Play Parameters  
#-----  
voice.play.file      = play.vox  
voice.play.type      = 2    # 0 means VCE_FILETYPE_VOX  
voice.play.encoding  = 10   # 2 means NMS_24  
#-----  
# Voice Record Parameters  
#-----  
voice.record.file    = record.vox  
voice.record.type    = 0  
voice.record.encoding= 2    # 2 means NMS_24, consistent with shipped  
                           # fusion configuration file
```

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