

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring EAL WinBAS TENS with Avaya Communication Server 1000E R7.5 and Avaya Aura® Session Manager R6.1 – Issue 1.0

Abstract

These Application Notes describe the configuration steps for provisioning EAL WinBAS TENS application to interoperate with Avaya Communication Server 1000E and Avaya Aura® Session Manager.

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

1. Introduction

These Application Notes describe the configuration steps for provisioning EAL WinBAS TENS application to interoperate with Avaya Communication Server 1000E R7.5 (CS1000E) and Avaya Aura® Session Manager R6.1. EAL WinBAS TENS Application is designed to register with Session Manager as a SIP user. The WinBAS TENS Application behaves as a SIP extension on Session Manager, and is able to make/receive internal/external calls. Although single calls can be made and received, the EAL TENS application is designed to handle alarm roles containing large numbers of calls to be made and received in the shortest time possible.

2. General Test Approach and Test Results

The interoperability compliance testing evaluates the ability of the TENS application to make and receive calls to and from Avaya 1140E UNIStim and SIP deskphones. Users can dial into the TENS application either locally from a Digital or IP deskphone on the CS1000E or over PSTN connection to the CS1000E to hear various announcements.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

2.1. Interoperability Compliance Testing

The interoperability compliance testing focuses on various technical testing scenarios to verify the usage of TENS application with Avaya Communication Server 1000E. In addition, serviceability tests were also performed to assess the reliability and accuracy of the joint solution. The testing focused on the following types of calls:

- **Session Manager Registration** Ensure that TENS device can register correctly as a SIP user endpoint with Session Manager.
- Make internal calls to CS1000E Extensions Ensure that calls can be made to CS1000E extensions from the TENS application. Check that DTMF tones can be detected.
- Receive internal calls from CS1000E extensions Ensure that calls can be made to the TENS application from the CS1000E extensions. Check that DTMF tones can be detected.
- Make external calls to PSTN from TENS Application Ensure that calls can be made from the TENS application to PSTN. Check that DTMF tones can be detected on TENS.
- Receive external calls from PSTN into TENS Application Ensure that calls can be made to the TENS application from the PSTN. Check that DTMF tones can be detected.
- **Failover testing** Verify the behaviour of TENS application under different simulated LAN failure conditions on the Avaya platform.

2.2. Test Results

All Test Cases passed successfully; the following was noted during compliance testing.

• The TENS receives the DTMF and the # did invoke the TENS to send a "bye" but the "bye" is not hanging up the set.

2.3. Support

Support from Avaya is available by visiting the website http://support.avaya.com and a list of product documentation can be found in **Section 10** of these Application Notes. Technical support for the EAL WinBAS TENS product can be obtained as follows.

- EAL (Apeldoorn) B.V.
- The Netherlands
- ***** +31 (0)55 539 49 00
- **=** +31 (0)55 539 49 01
- www.eal.nl
- @ <u>support@eal.nl</u>

3. Reference Configuration

Figure 1 shows the network topology during compliance testing, EAL WinBAS TENS with Avaya Communication Server R7.5 and Avaya Aura® Session Manager R6.1. The TENS application registers with Session Manager as a SIP user. The administration of Session Manager is achieved using System Manager.Calls were made between the WinBAS TENS application and Avaya 3904 Digital, Avaya IP 1140 SIP and UNIStim deskphones.

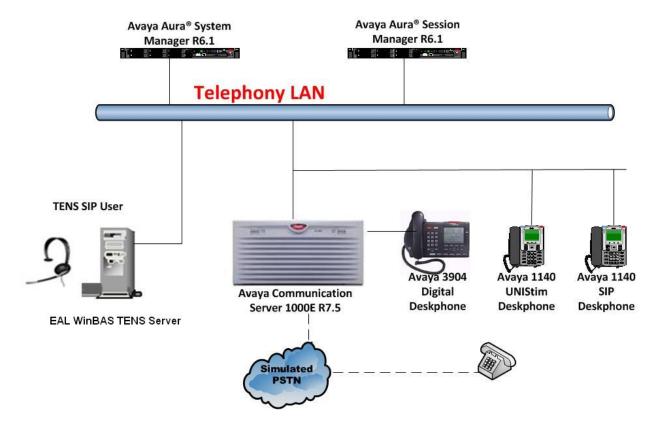


Figure 1: Network Solution of EAL WinBAS TENS with Avaya Communication Server 1000E R7.5 and Avaya Aura® Session Manager R6.1

4. Equipment and Software Validated

The following equipment and software was used for the compliance test.

Equipment/Software	Release/Version
Avaya Communication Server 1000E on CPPM	R7.5 SP1 (See full list of CS1000E patches in Appendix A)
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 M3904 Digital Deskphone	N/A
EAL WINBAS TENS Application	Ver.: 10.09 R003 C024

5. Configure Avaya Communication Server 1000E

It is assumed that a fully functioning CS1000E is in place with the necessary licensing and with SIP trunks in place to Session Manager. See Appendix B for a printout of the SIP route, d-channel, and trunk information. For further information on the configuration of CS1000E please see **Section 10** of these Application Notes. A telnet application such as "Putty" was used to administer the CS1000E. Open the putty application and telnet to the Node IP address of the CS1000E. Login to the Linux application using the appropriate credentials and once logged in type "cslogin" (not shown) to gain access to the PBX command line.

Note: A simulated PSTN connection was added the configuration of which is outside the scope of these Application Notes.

5.1. Configure a Dial Plan for TENS application

A Coordinated Dial Plan is added to place calls across the SIP trunk to the TENS Application. Add a Route List Block (**RLB**) to place calls over the SIP route that is already configured on the system. Note that an **RLB** may already be in place but the following procedure shows the addition of a new RLB. Enter overlay 86 to configure a new RLB by typing **LD 86** at the > prompt. A new Route List Index (**RLI**) is added with an ENTR 0 of that of the SIP route used.

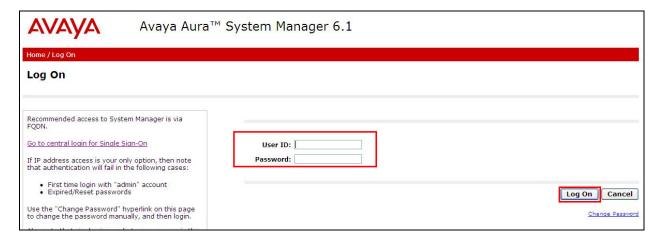
Prompt	Response	Description
>	LD 86	Enter Overlay 86
REQ	new	new/add
CUST	0	Customer number (default is 0)
FEAT	rlb	Route List Block
RLI	20	Route List index Number (any unused number)
ENTR	0	First Entry (0-2
ROUT	20	Route Number (See Appendix B for info on Route 20)
DMI	0	Digit Manipulation Table (default is 0)
Return to	end	

Once the **RLB** is added, the Coordinated Dial Plan (**CDP**) is added in the form of a Distance Steering Code (**DSC**). Note that in the example below, **3300** is the **DSC** as this is the extension number used for the TENS Application during the compliance testing. Enter overlay 87 to add a new **CDP** by typing **LD 87** at the > prompt.

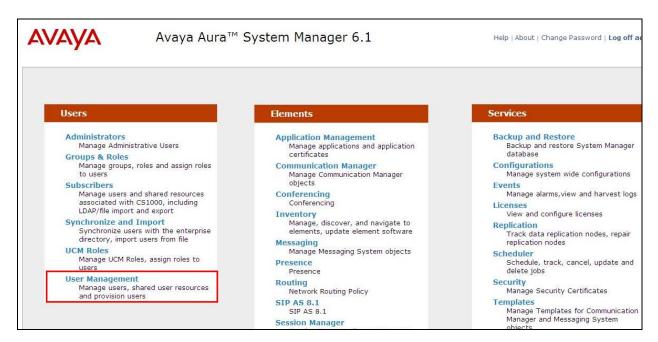
Prompt	Response	Description		
>	LD 87	Enter Overlay 87		
REQ	new	new/add		
CUST	0	Customer number (default is 0)		
FEAT	cdp	Coordinated Dial Plan		
TYPE	dsc	Distance Steering Code		
DSC	3300	Extension number of the TENS Application		
FLEN	4	Ext Length		
DSP	LSC	DSP Type (Least Cost Routing)		
RLI	20	Which RLB to use (Enter the RLB setup above)		
Return to er	nd			

6. Configure Avaya Aura® Session Manager

A TENS user is configured on Session Manager. In order to make changes in Session Manager a web session is established to System Manager. Log into System Manager by opening a web browser and navigating to http://<System Manager IP Address>/SMGR. Enter the appropriate credentials for the **User ID** and **Password** and click on **Log On** highlighted below.



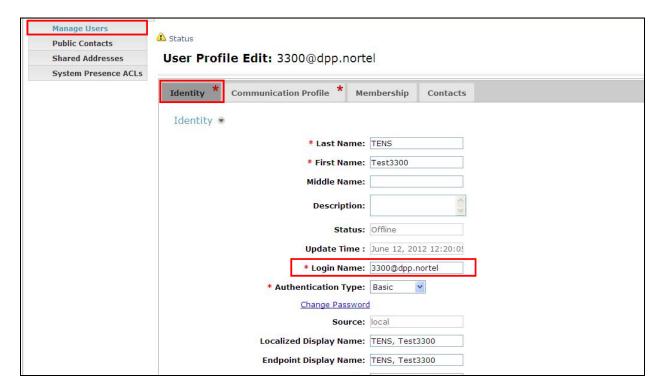
Once logged in click on User Management highlighted below.



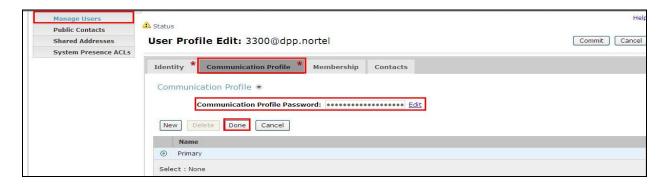
Under User Management, in the left pane, click on Manage Users and select New.



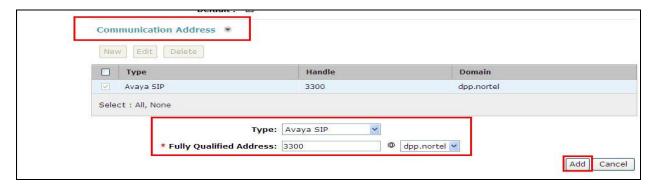
Under the **Identity** tab enter the information as shown below. Note that the **Login Name** is the extension number @ the domain name.



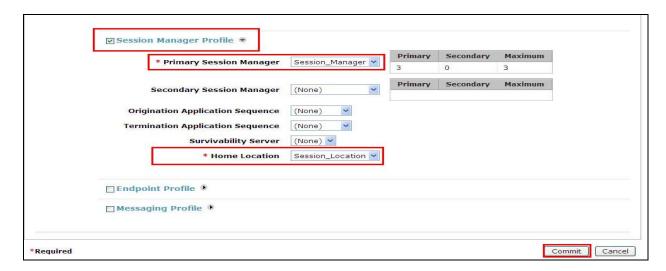
Under the **Communication Profile** tab enter the **Communication Profile Password** and click **Done**. Note that this is the password user to register the TENS Application with Session Manager and will be used again in **Section 7**.



Under the Communication Address ensure that **Avaya SIP** is selected for **Type** and the **Fully Qualified Address** is selected properly as this is the extension number @ domain name.

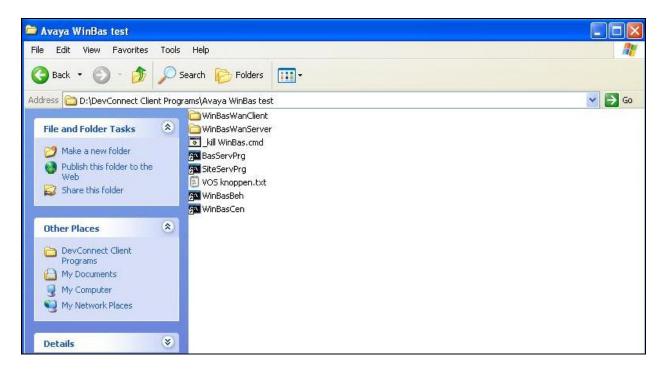


Ensure that **Session Manager Profile** is ticked and fill in the correct information for the **Primary Session Manager** and **Home Location**. All others should be left as default (**None**). Once all the correct information is filled in click on **Commit** to save the new user to Session Manager.



7. Configure EAL WinBAS TENS Application

The EAL WinBAS TENS Application was not installed during compliance testing this was sent as a zipped folder and expanded to reveal the following files. A folder was created on a PC and the following files were added to the folder.



The TENS application must be started in the following order.

- 1. BasServPrg
- 2. SiteServPrg

To configure the TENS application the management interface **WinBasBeh** is started. To make any changes in the user interface the **WinBasCen** is started.

Note: As an operational installation of TENS the above mentioned **BasServPrg** and **SiteServPrg** applications are run as Windows Services. **These applications should not be started** when the services are running because this will **corrupt** the internal database.

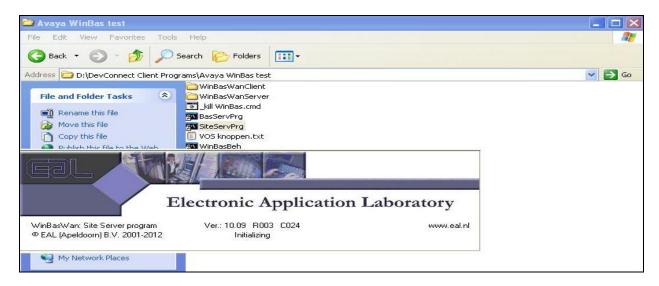
7.1. Launching the EAL WinBAS TENS Application

Note: Skip this section if the TENS Windows Services are running.

Double click on the **BasServPrg** icon. This is started when **the Electronic Application Laboratory** window disappears.

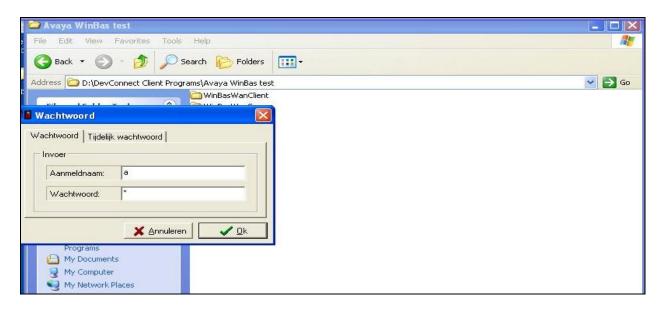


Double click on the **SiteServPrg** icon. This is fully started when **the Electronic Application Laboratory** window disappears. Once both of these have been started the TENS Application is running.

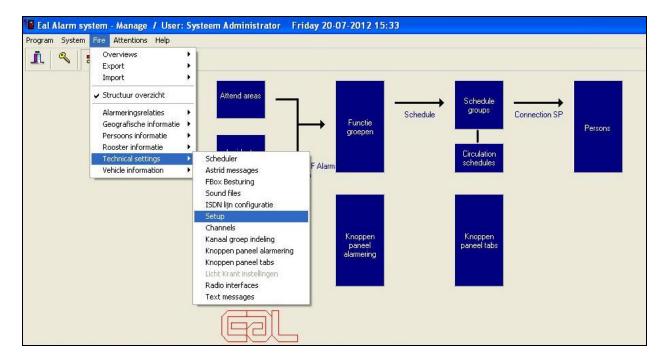


7.2. Configuration of the EAL WinBAS TENS Application

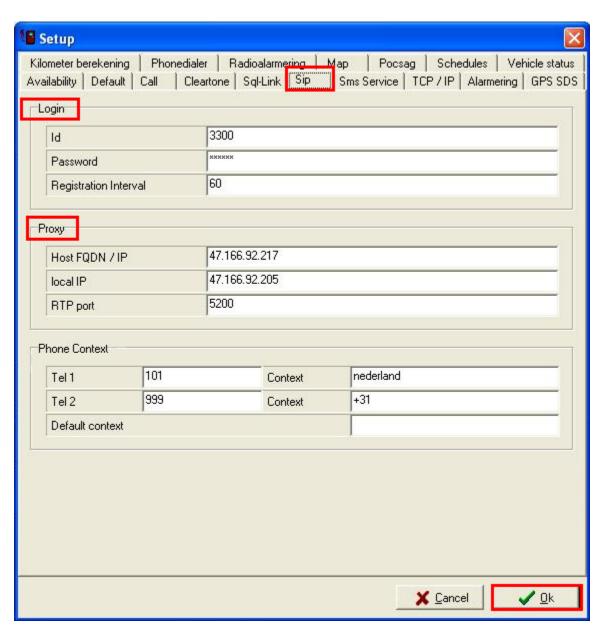
To configure the Application the Management interface **WinBasBeh** is started. Double click on the WinBasBeh icon. This opens the following window. Enter the correct username and password and click **Ok**.



The following window is opened. Click on **Fire** in the top menu and select **Technical settings** and **Setup** as shown below.



Navigate to the SIP tab to see an example of the SIP setup that was used in the compliance testing. Under **Login** the **Id** and **Password** is the information configured in **Section 6** above. Under **Proxy** the Session Managers IP Address is entered for **Host FQDN/IP** and the local PC's/Server IP address is entered for **local IP**. Note the **Phone Context** will be different depending on country the application is installed. In the example below **+31** for the Netherlands is added.



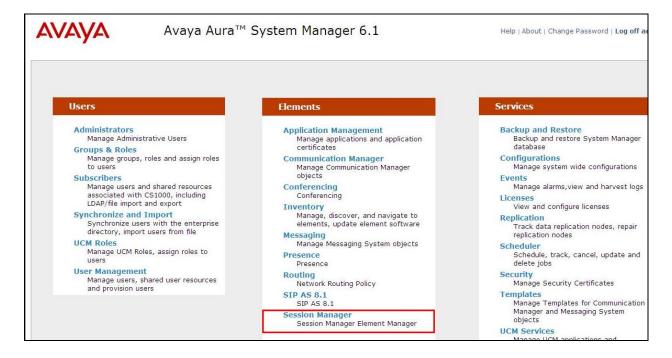
8. Verification Steps

The following steps can be taken to ensure that the connection between the EAL WinBAS TENS application and Session Manager are up. Once the TENS Application is registered as a SIP user calls to and from the application should be possible. There are two simple verification steps that can be carried out to ensure the application is configured and connected properly to the Avaya Solution.

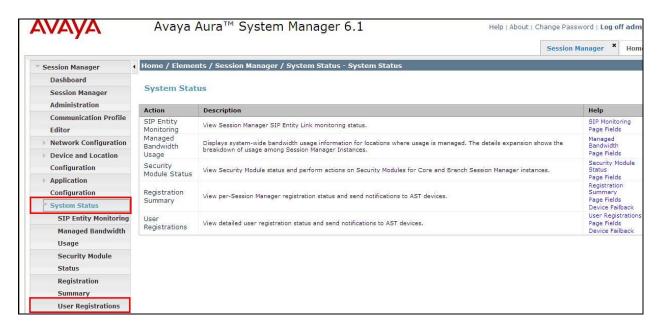
- 1. Verify on Session Manager that TENS application is registered.
- 2. Make a call to the TENS Application and verify that the correct announcement is heard.

8.1. Verify that EAL WinBAS TENS is registered to Avaya Aura® Session Manager

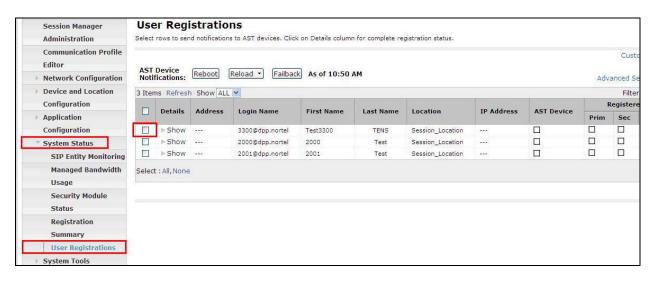
Log into Session Manager as outlined in **Section 6** of these Application Notes, and once logged in double click on **Session Manager** highlighted below.



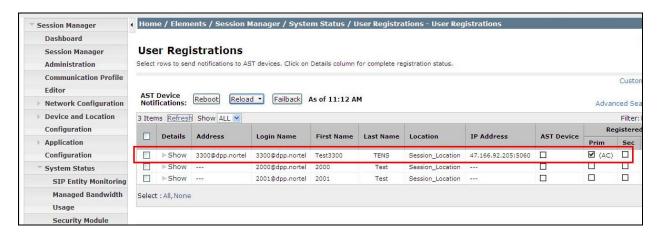
Select System Status in the left window and select User Registrations highlighted below.



The screen below shows that the TENS application is <u>not registered</u>.



Once the TENS application is started and configured properly the **Address** and **IP Address** fields are populated as shown in the following screen showing that the TENS application <u>is</u> registered correctly.



9. Conclusion

These Application Notes describe the configuration steps required for EAL WinBAS TENS application to successfully interoperate with Avaya Communication Server 1000E R7.5 and Avaya Aura® Session Manager R6.1 by registering the TENS application with Session Manager as a SIP user. Please refer to **Section 2.2** for test 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
- [3] Implementing Avaya Aura® Session Manager Document ID 03-603473

Technical documentation is available directly from EAL. Please refer to **Section 2.3** of these Application Notes for information on EAL support.

Appendix A

List of Patches on Avaya Communication Server 1000E R 7.5

VERS	ION 4121					
	ASE 7					
	E 50 Q +					
DepL	ist 1: core	Issue: 01 (created:	2012-03-14	13:55:18 (e	est))	
TNI C	EDITCE DEDC					
	ERVICE PEPS CR #	PATCH REF #	NAME	DATE	FILENAME	SPECINS
	wi00969890	ISS1:10F1	p31664 1		p31664 1.cpl	YES
001	wi00974635	ISS1:10F1	_		p31695 1.cpl	YES
002	wi00958776	ISS1:10F1			p31542 1.cpl	YES
003	wi00925218	ISS1:10F1			p30675 1.cpl	NO
004	wi00881777	ISS1:10F1			p25747 1.cpl	NO
005	wi00862574	iss1:1of1	p30870 1		p30870 1.cpl	NO
006	wi00879322	ISS1:10F1			p30954_1.cpl	NO
007	wi00976209	ISS1:10F1			p31717_1.cpl	YES
800	wi00984178	ISS1:10F1	p31786_1		p31786_1.cpl	NO
009	wi00959284	ISS1:10F1	p31531_1		p31531_1.cpl	NO
010	wi00905660	ISS1:10F1			p27968_1.cpl	NO
011	wi00897082	ISS1:10F1			p31124_1.cpl	NO
012	wi00897096	ISS1:10F1	_		p30676_1.cpl	NO
013 014	wi00855423 wi00896680	ISS1:10F1 ISS1:10F1			p31328_1.cpl p30357 1.cpl	YES
014	wi00937672	ISS1:10F1 ISS1:10F1	p30337_1 p31276 1		p30337_1.cp1 p31276 1.cpl	NO NO
016	wi00957672	ISS1:10F1			p30648 1.cpl	NO
017	wi00939123	ISS1:10F1	_		p31411 1.cpl	NO
018	wi00840590	ISS1:10F1	p30767 1		p30767 1.cpl	NO
019	wi00978007	ISS1:10F1	p31737 1		p31737 1.cpl	NO
020	wi00865477	ISS1:10F1			p30897 1.cpl	YES
021	wi00900668	ISS1:10F1			p30456 1.cpl	NO
022	wi00906163	ISS1:10F1	p31205_1	06/07/2012	p31205_1.cpl	NO
023	wi00949627	ISS1:10F1			p31462_1.cpl	NO
024	wi00875701	ISS1:10F1	p30942_1		p30942_1.cpl	NO
025	wi00937114	ISS1:10F1	p31310_1		p31310_1.cpl	NO
026	wi00858335	ISS1:10F1	p30819_1		p30819_1.cpl	NO
027	wi00869243	ISS1:10F1	p30848_1		p30848_1.cpl	NO
028	wi00896394	ISS1:10F1	p30807_1	06/07/2012	p30807_1.cpl	NO
029	wi00925208 wi00835294	ISS1:10F1 ISS1:10F1	p30986_1 p30565_1	06/07/2012 06/07/2012	p30986_1.cpl p30565 1.cpl	NO NO
030	wi00833294	ISS1:10F1 ISS1:10F1	p30565_1 p31580 1		p30565_1.cpl	NO
031	wi00902211	ISS1:10F1	p31380_1 p31641 1		p31641_1.cpl	NO
032	wi00943337				p31227 1.cpl	NO
034	wi00886321	ISS1:10F1			p31009 1.cpl	NO
035	wi00854130	ISS1:10F1	p30443 1	06/07/2012	p30443 1.cpl	NO
036	wi00873382	ISS1:10F1		06/07/2012	p30832 1.cpl	NO
037	WI00927300	ISS1:10F1	p30999_1	06/07/2012	p30999_1.cpl	NO
038	wi00982243	ISS1:10F1	p31797 <u></u> 1	06/07/2012	p31797_1.cpl	NO
039	wi00898327	ISS1:10F1	p31136_1	06/07/2012	p31136_1.cpl	NO
040	wi00832106	ISS1:10F1	p30550_1	06/07/2012	p30550_1.cpl	NO
041	wi00900096	ISS1:10F1	p31006_1	06/07/2012	p31006_1.cpl	NO
042	wi00959820	ISS1:10F1	p31562_1	06/07/2012	p31562_1.cpl	NO
043	wi00895090	ISS1:10F1	p31105_1	06/07/2012	p31105_1.cpl	NO
044	wi00967509 wi00890475	ISS1:10F1	p31294_1	06/07/2012	p31294_1.cpl	NO
045	wi00890475	p30952	p31048_1	06/07/2012 06/07/2012	p31048_1.cpl	NO NO
046	wi00852365	ISS1:10F1 ISS1:10F1	p30707_1 p31530 1	06/07/2012	p30707_1.cpl p31530 1.cpl	NO NO
04/	WI00931232	1301:101	b21220_1	00/07/2012	h21220_1.cb1	NO

048	wi00887744	ISS2:10F1	p31026 2	06/07/2012	p31026 2.cpl	NO
049	WI00853473	ISS1:10F1	p30625 1	06/07/2012	p30625 1.cpl	NO
050	wi00905600	ISS1:10F1	p31201 1	06/07/2012	p31201 1.cpl	NO
051	WI00889786	ISS1:10F1	p30750 1	06/07/2012	p30750 1.cpl	NO
052	wi00827950	ISS2:10F1	p30730_1 p30471 2	06/07/2012	p30471 2.cpl	NO
	wi00827930					
053		ISS1:10F1	p30731_1	06/07/2012	p30731_1.cpl	YES
054	wi00960809	ISS1:10F1	p31564_1	06/07/2012	p31564_1.cpl	NO
055	wi00898200	ISS1:1of1	p31274_1	06/07/2012	p31274_1.cpl	NO
056	wi00938555	ISS1:10F1	p30881_1	06/07/2012	p30881_1.cpl	YES
057	wi00964006	ISS1:10F1	p31595_1	06/07/2012	p31595_1.cpl	YES
058	wi00865477	ISS1:10F1	p30898_1	06/07/2012	p30898_1.cpl	YES
059	wi00905297	ISS1:10F1	p31195 1	06/07/2012	p31195 1.cpl	NO
060	wi00839255	ISS1:10F1	p30591 1	06/07/2012	p30591 1.cpl	NO
061	wi00960133	ISS2:10F1	p31557 2	06/07/2012	p31557 2.cpl	NO
062	wi00967754	ISS1:10F1	p31653 1	06/07/2012	p31653 1.cpl	YES
063	wi00943172	ISS1:10F1	p31402 1	06/07/2012	p31402 1.cpl	NO
064	wi00313172	ISS1:10F1	p30534 1	06/07/2012	p30534 1.cpl	NO
065	wi00877567	ISS1:10F1	p30766 1	06/07/2012	p30766 1.cpl	NO
066	wi00948274	ISS1:10F1	p31365_1	06/07/2012	p31365_1.cpl	NO
067	wi00841980	ISS1:10F1	p30618_1	06/07/2012	p30618_1.cpl	NO
068	wi00897176	ISS1:10F1	p30418_1	06/07/2012	p30418_1.cpl	NO
069	wi00865477	ISS1:10F1	p30892_1	06/07/2012	p30892_1.cpl	YES
070	wi00931028	ISS1:10F1	p31354_1	06/07/2012	p31354_1.cpl	YES
071	wi00875425	ISS1:10F1	p30943_1	06/07/2012	p30943_1.cpl	NO
072	wi00968531	ISS1:10F1	p31645_1	06/07/2012	p31645_1.cpl	NO
073	wi00895181	ISS1:10F1	p31106 1	06/07/2012	p31106 1.cpl	NO
074	wi00973241	ISS1:10F1	p31715 1	06/07/2012	p31715 1.cpl	NO
075	wi00948931	ISS1:10F1	p31407 1	06/07/2012	p31407 1.cpl	NO
076	wi00968157	ISS1:10F1	p31637 1	06/07/2012	p31637 1.cpl	NO
077	wi00871969	ISS1:10F1	p30768 1	06/07/2012	p30768 1.cpl	NO
078	wi00967510	ISS1:10F1	p31147 1	06/07/2012	p31147 1.cpl	NO
079	wi00891626	ISS1:10F1	p31051 1	06/07/2012	p31051 1.cpl	YES
080	wi00946558	ISS1:10F1	p31358 1	06/07/2012	p31358 1.cpl	NO
081	wi00839821	ISS1:10F1	p30619 1	06/07/2012	p30619 1.cpl	NO
082	WI00839794	ISS1:10F1	p28647 1	06/07/2012	p28647 1.cpl	NO
083	WI00833731	ISS1:10F1	p30627 1	06/07/2012	p30627 1.cpl	NO
084	wi00856991	ISS1:10F1	p17588 1	06/07/2012	p17588 1.cpl	NO
085	wi00842409	ISS1:10F1	p30621 1	06/07/2012	p30621 1.cpl	NO
086	wi00927321	ISS1:10F1	p31286 1	06/07/2012	p31286 1.cpl	YES
087	wi00974272	ISS1:10F1	p31690_1	06/07/2012	p31690_1.cpl	YES
088	wi00880386	ISS1:10F1	p30977_1	06/07/2012	p30977_1.cpl	NO
089	wi00865477	ISS1:10F1	p30896_1	06/07/2012	p30896_1.cpl	YES
090	wi00838073	ISS1:10F1	p30588_1	06/07/2012	p30588_1.cpl	NO
091	wi00965838	ISS1:10F1	p31623_1	06/07/2012	p31623_1.cpl	NO
092	wi00879526	ISS1:10F1	p31007_1	06/07/2012	p31007_1.cpl	NO
093	wi00958682	ISS1:10F1	p31540_1	06/07/2012	p31540_1.cpl	NO
094	wi00969581	ISS1:10F1	p31661_1	06/07/2012	p31661_1.cpl	YES
095	wi00973858	ISS1:10F1	p31691_1	06/07/2012	p31691_1.cpl	NO
096	wi00946282	ISS1:10F1	p31204_1	06/07/2012	p31204_1.cpl	NO
097	wi00863876	ISS1:10F1	p30787_1	06/07/2012	p30787_1.cpl	NO
098	wi00908933	ISS1:10F1	p31239_1	06/07/2012	p31239_1.cpl	NO
099	wi00856702	ISS1:10F1	p30573_1	06/07/2012	p30573_1.cpl	NO
100	wi00975133	ISS1:10F1	p31731 1	06/07/2012	p31731 1.cpl	NO
101	wi00932948	ISS1:10F1	p31077 1	06/07/2012	p31077 1.cpl	NO
102	wi00969208	ISS1:10F1	p31656 1	06/07/2012	p31656 1.cpl	NO
103	WI00836292	ISS1:10F1	p30554 1	06/07/2012	p30554 1.cpl	NO
104	wi00908598	ISS1:10F1	p31235 1	06/07/2012	p31235 1.cpl	NO
105	wi00880836	ISS1:10F1	p30976 1	06/07/2012	p30976 1.cpl	NO
106	WI00854150	ISS1:10F1	p30468 1	06/07/2012	p30468 1.cpl	NO
107	wi00894243	ISS1:10F1	p31087 1	06/07/2012	p31087 1.cpl	NO
107	wi00894243	ISS1:10F1	p31087_1	06/07/2012	p30880 1.cpl	NO
108	wi00877392 wi00871739	ISS1:10F1 ISS1:10F1	p30880_1 p30856 1	06/07/2012	p30880_1.cp1	
109	WIUU0/I/39	1301;1011	h20020_T	00/07/2012	b20020_1.Cb1	NO

110	wi00688381	ISS1:10F1	p30104_1	06/07/2012	p30104_1.cpl	NO
111	wi00955753	ISS1:10F1	p31733 1	06/07/2012	p31733 1.cpl	NO
112	wi00850521	ISS1:10F1	p30709 1	06/07/2012	p30709 1.cpl	YES
113	wi00932204	ISS2:10F1	p31305 2	06/07/2012	p31305 2.cpl	NO
114	wi00906022	ISS1:10F1	p31202 1	06/07/2012	p31202 1.cpl	NO
115	wi00360022	ISS1:10F1	p31202_1 p30789 1	06/07/2012	p30789 1.cpl	NO
116	wi00959457	ISS1:10F1	p31551_1	06/07/2012	p31551_1.cpl	NO
117	wi00852389	ISS1:10F1	p30641_1	06/07/2012	p30641_1.cpl	NO
118	wi00941500	ISS1:10F1	p31394_1	06/07/2012	p31394_1.cpl	NO
119	wi00834382	ISS1:10F1	p30548_1	06/07/2012	p30548_1.cpl	NO
120	wi00883604	ISS1:10F1	p30973_1	06/07/2012	p30973_1.cpl	NO
121	wi00921295	ISS1:10F1	p31265 1	06/07/2012	p31265 1.cpl	NO
122	wi00946876	ISS1:10F1	p31430 1	06/07/2012	p31430 1.cpl	NO
123	wi00909476	ISS1:10F1	p31340 1	06/07/2012	p31340 1.cpl	NO
124	wi00923899	ISS1:10F1	p31270 1	06/07/2012	p31270 1.cpl	NO
125	wi00856410	ISS1:10F1	p30749 1	06/07/2012	p30749 1.cpl	NO
126	wi00859499	ISS1:10F1	p30694 1	06/07/2012	p30694 1.cpl	NO
127	wi00951837	ISS1:10F1	p31485_1	06/07/2012	p31485_1.cpl	NO
128	wi00978883	ISS1:10F1	p31770_1	06/07/2012	p31770_1.cpl	NO
129	wi00950575	ISS1:10F1	p31724_1	06/07/2012	p31724_1.cpl	NO
130	wi00869695	ISS1:10F1	p30654_1	06/07/2012	p30654_1.cpl	NO
131	wi00899584	ISS1:10F1	p30809_1	06/07/2012	p30809_1.cpl	NO
132	wi00891621	ISS1:10F1	p31037_1	06/07/2012	p31037_1.cpl	NO
133	wi00969039	ISS1:10F1	p31643 1	06/07/2012	p31643 1.cpl	NO
134	wi00942734	ISS1:10F1	p31409 1	06/07/2012	p31409 1.cpl	NO
135	wi00865477	ISS1:10F1	p30893 1	06/07/2012	p30893 1.cpl	YES
136	wi00930649	ISS1:10F1	p31570 1	06/07/2012	p31570 1.cpl	NO
137	wi00841273	ISS1:10F1	p30713 1	06/07/2012	p30713 1.cpl	NO
138	wi00826075	ISS1:10F1	p30452 1	06/07/2012	p30452 1.cpl	NO
139	wi00959463	ISS1:10F1	p31528 1	06/07/2012	p31528 1.cpl	NO
140	wi00939403	ISS1:10F1	p31320_1 p31284 1	06/07/2012	p31284 1.cpl	NO
141	wi00929140	ISS1:10F1	p31284_1 p30447 1	06/07/2012	p30447 1.cpl	NO
					p30447_1.cp1 p30481 1.cp1	
142	WI00836334	ISS1:10F1	p30481_1	06/07/2012		NO
143	wi00936714	ISS1:10F1	p31379_1	06/07/2012	p31379_1.cpl	NO
144	wi00903381	ISS1:10F1	p30421_1	06/07/2012	p30421_1.cpl	NO
145	wi00839134	ISS1:10F1	p30698_1	06/07/2012	p30698_1.cpl	YES
146	wi00962557	ISS1:10F1	p31581_1	06/07/2012	p31581_1.cpl	NO
147	wi00853178	ISS1:10F1	p30719 <u></u> 1	06/07/2012	p30719_1.cpl	NO
148	WI00928455	ISS1:10F1	p31297_1	06/07/2012	p31297_1.cpl	NO
149	wi00903437	ISS1:10F1	p31167_1	06/07/2012	p31167_1.cpl	NO
150	wi00884699	ISS1:10F1	p31000_1	06/07/2012	p31000_1.cpl	YES
151	wi00932958	ISS1:10F1	p31115 1	06/07/2012	p31115 1.cpl	NO
152	wi00896420	ISS1:10F1	p30867 1	06/07/2012	p30867 1.cpl	NO
153	wi00865477	ISS1:10F1	p30894 1	06/07/2012	p30894 1.cpl	YES
154	wi00925141	ISS1:10F1	p30802 1	06/07/2012	p30802 1.cpl	NO
155	wi00857362	ISS1:10F1	p30782 1	06/07/2012	p30782 1.cpl	NO
156	wi00956788	ISS1:10F1	p31638 1	06/07/2012	p31638 1.cpl	NO
157	wi00930786	ISS1:10F1	p31030_1 p31062_1	06/07/2012	p31062 1.cpl	YES
158	wi00924886	ISS1:10F1	p31002_1 p30593 1	06/07/2012	p30593 1.cpl	NO
	wi00930864				p31325 1.cpl	
159		ISS1:10F1	p31325_1	06/07/2012		NO
160	wi00968448	ISS1:10F1	p31648_1	06/07/2012	p31648_1.cpl	YES
161	wi00962955	ISS1:10F1	p31585_1	06/07/2012	p31585_1.cpl	NO
162	wi00977393	ISS1:10F1	p31744_1	06/07/2012	p31744_1.cpl	YES
163	wi00868729	ISS1:10F1	p31163_1	06/07/2012	p31163_1.cpl	NO
164	wi00951427	ISS1:10F1	p31478_1	06/07/2012	p31478_1.cpl	NO
165	wi00894443	ISS1:10F1	p31093_1	06/07/2012	p31093_1.cpl	NO
166	wi00956885	ISS1:10F1	p31489_1	06/07/2012	p31489_1.cpl	NO
167	wi00968353	ISS1:10F1	p31412_1	06/07/2012	p31412_1.cpl	NO
168	wi00836182	ISS1:10F1	p30450 1	06/07/2012	p30450 1.cpl	NO
169	wi00961267	ISS1:10F1	p30288 1	06/07/2012	p30288 1.cpl	NO
170	wi00907707	ISS1:10F1	p31228 1	06/07/2012	p31228 1.cpl	NO
171	wi00965285	ISS1:10F1	p31476 1	06/07/2012	p31476 1.cpl	NO
		1001.1011		33, 31, 2012	P011,0_1.0P1	2.0

172	wi00903369	ISS1:10F1	p31165_1	06/07/2012	p31165_1.cpl	NO	
173	wi00936935	ISS1:10F1	p31362_1	06/07/2012	p31362_1.cpl	NO	
174	wi00900766	ISS1:10F1	p31159_1	06/07/2012	p31159_1.cpl	NO	
175	wi00943748	ISS1:10F1	p31516_1	06/07/2012	p31516_1.cpl	NO	
176	wi00882293	ISS1:10F1	p31010_1	06/07/2012	p31010_1.cpl	NO	
177	wi00953900	ISS1:10F1	p31494_1	06/07/2012	p31494_1.cpl	NO	
178	wi00949410	ISS1:10F1	p31248_1	06/07/2012	p31248_1.cpl	NO	
179	wi00975659	ISS1:10F1	p31707_1	06/07/2012	p31707_1.cpl	NO	
180	wi00946477	ISS1:10F1	p31426_1	06/07/2012	p31426_1.cpl	NO	
MDP>	MDP>LAST SUCCESSFUL MDP REFRESH :2012-04-27 13:11:46(Local Time)						
MDP>	MDP>USING DEPLIST ZIP FILE DOWNLOADED :2012-03-27 06:55:16(est)						

Appendix B

SIP Route on Avaya Communication Server 1000E R7.5

```
TYPE: rdb
CUST 0
ROUT 20
TYPE RDB
CUST 00
ROUT 20
DES SIPTRK
TKTP TIE
M911P NO
ESN NO
RPA NO
CNVT NO
SAT NO
RCLS EXT
VTRK YES
ZONE 00001
PCID SIP
CRID YES
NODE 3
DTRK NO
ISDN YES
   MODE ISLD
   DCH 66
   IFC SL1
PNI 00001
   NCNA YES
    NCRD YES
    TRO YES
   FALT NO
   CTYP UKWN
    INAC YES
   ISAR NO
   DAPC NO
MBXR NO
MBXOT NPA
MBXT 0
PTYP ATT
CNDP UKWN
AUTO NO
DNIS NO
DCDR YES
ICOG IAO
SRCH LIN
TRMB YES
STEP
ACOD 8020
TCPP NO
PII NO
AUXP NO
TARG
```

```
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
PAGE 002
     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
    VSS 0
    VGD 6
    EESD 1024
SST 5 0
DTD NO
SCDT NO
2 DT NO
NEDC ORG
FEDC ORG
CPDC NO
DLTN NO
HOLD 02 02 40
SEIZ 02 02
SVFL 02 02
DRNG NO
CDR YES
INC YES
LAST YES
TTA YES
ABAN YES
CDRB YES
QREC YES
OAL YES
AIA YES
OAN
    YES
OPD
    YES
```

```
NDP EXC 0
NATL YES
SSL
CFWR NO
IDOP NO
VRAT NO
MUS YES
MRT 10
PANS YES
RACD NO
MANO NO
FRL 0 0
FRL 1 0
FRL 2 0
FRL 3 0
FRL 4 0
FRL 5 0
FRL 6 0
FRL 7 0
PAGE 003
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 20 20
ATRR NO
TRRL NO
SGRP 0
CCBA NO
ARDN NO
CTBL 0
AACR NO
```

SIP D-channel Avaya Communication Server 1000E R7.5

```
DCH 66
ADAN
 CTYP DCIP
 DES VTRK_DCH
USR ISLD
 ISLM 4000
 SSRC 1800
  OTBF 32
  NASA YES
 IFC SL1
  CNEG 1
 RLS ID 7
 RCAP ND2 MWI
  MBGA NO
  Н323
   OVLR YES
    OVLS YES
```

SIP Trunk on Avaya Communication Server 1000E R7.5

```
TYPE TNB
TN 96 0 3 29
DATE
PAGE
DES
DES SIPTRK
TN 096 0 03 29 VIRTUAL
TYPE IPTI
CDEN 8D
CUST 0
XTRK VTRK
ZONE 00001
TIMP 600
BIMP 600
AUTO BIMP NO
NMUS NO
TRK ANLG
NCOS 0
RTMB 20 30
CHID 60
TGAR 0
STRI/STRO IMM IMM
SUPN YES
AST NO
IAPG 0
CLS UNR DTN CND ECD WTA LPR APN THFD XREP SPCD MSBT
    P10 NTC MID
TKID
AACR NO
```

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