

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring Avaya IP Office 500v2 with Soft-ex Optimiser/RingMaster 5.6b to collect SMDR -Issue 1.0

Abstract

These Application Notes describe the configuration steps necessary for provisioning Soft-ex's product Optimiser/RingMaster to successfully interoperate with Avaya IP Office 500v2

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

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

1. Introduction

Optimiser/RingMaster from Soft-ex is a telephone call accounting system that collects Station Message Detail Records (SMDR) information from the Avaya IP Office 500v2 and produces management reports. RingMaster was the original product supplied by Soft-ex to process SMDR and Optimiser is an additional product/service built onto RingMaster which is an alerting system for calls that meet specific requirements; for instance calls that may indicate telephone fraud.

2. General Test Approach and Test Results

The compatibility testing is concerned with verifying that the addition of Soft-ex's Optimiser/RingMaster does not interfere with the operation of the IP Office. SMDR information is transferred via TCP/IP stream, so RingMaster is listening on a port awaiting SMDR output. RingMaster also operates in multisite environments, where SMDR data from more than one site is collected and forwarded to a central site. In these cases, the data is collected by buffering devices supplied by Soft-ex and transferred by a variety of methods such as via TCP/IP, FTP or email. Essentially, each PBX the interface has the same characteristics; one way data flow from the PBX. During compliance testing, SMDR was output to a Scannex IP Buffer where it was collected by RingMaster. See **Figure 1** for a network diagram. The interoperability compliance test included feature functionality and defence tests.

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.

Note: In some Soft-ex literature the Optimiser/RingMaster product is referred to as Call Management Software or just Optimiser to avoid confusion the product name in this document will be referred to as Optimiser/RingMaster.

2.1. Interoperability Compliance Testing

The principle objective of Interoperability Compliance testing is to provide assurance to the potential customers that the tested products operate as specified and can interoperate in an environment similar to the one that will be encountered at a customer's premises. The interoperability compliance testing includes the following connection types.

- Real-Time TCP/IP connection listening on a port awaiting SMDR data from IP Office.
- Real-Time TCP/IP connection using an IP Buffer which is listening on a port awaiting SMDR data from IP Office.

Tests were performed to insure full interoperability of IP Office 500v2 with Soft-ex Optimiser/ RingMaster 5.6b. Performance and load testing is outside the scope of the compliance testing.

2.2. Test Results

All the test cases passed successfully.

2.3. Support

Information on Soft-ex and product support can be obtained through the following:

 Phone:
 +353 1 241 6600

 Fax:
 +353 1 295 6290

 E-mail:
 sales@soft-ex.net

 Web:
 http://www.soft-ex.net

3. Reference Configuration

Figure 1 illustrates the network topology used during compliance testing. The Avaya solution consists of a Communication Manager, System Manager, Session Manager and a G430 Gateway. The IP Office is configured to output SMDR over a TCP/IP port. A Node is configured on the IP Office to point to the Scannex IP buffer. SMDR are sent in customized format, stored in the buffer and retrieved by RingMaster. A variety of Avaya Deskphones were used to generate intraswitch calls (calls between phones on the same system), and outbound/inbound calls to/from the PSTN. The Session and System Manager are shown in the diagram as they are required for the SIP telephones.



Note: RingMaster can also connect directly to IP Office using a direct TCP/IP connection.

Figure 1: Avaya IP Office and Soft-ex Reference Configuration

4. Equipment and Software Validated

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

Avaya Equipment/Software	Release/ Version
Avaya IP Office 500v2	R10.0
	Version 10.0.0.0 Build 550
Avaya 16xx Series IP Deskphones H.323	1.390A
Avaya Communicator for Windows	2.1.3.0
Avaya Digital 2420	NA
Soft-ex Equipment/Software	Release/Version
Optimiser/RingMaster running on a PC	R5.6b
Windows 7	
Scannex IP Buffer	Revision 2.92.295

5. Avaya IP Office Configuration

Configuration and verification operations on the Avaya IP Office illustrated in this section were all performed using Avaya IP Office Manager. The information provided in this section describes the configuration of the Avaya IP Office for this solution. It is implied a working system is already in place. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 10**. The configuration operations described in this section can be summarized as follows:

- Launch Avaya IP Office Manager
- SMDR Configuration
- Save Configuration

5.1. Launch Avaya IP Office Manager

From the Avaya IP Office Manager PC, go to **Start** \rightarrow **Programs** \rightarrow **IP Office** \rightarrow **Manager** to launch the Manager application. Log in to Avaya IP Office using the appropriate credentials to receive its configuration (not shown). In the IP Offices window expand the Configuration Tree and double-click **System**. During compliance testing the System was called **DevconIPO1635SE**.



5.2. SMDR configuration

Select the **SMDR** tab and enter the following information:

- **Output** Select **SMDR Only** from the drop box
- IP Address Enter the IP Address of the Scannex IP Buffer
- TCP Port Enter 9000
- **Records to buffer** Can be left as the default
- Call Splitting for Diverts Check the box

Click the **OK** button to save (not shown).

File Edit View Tools Help			
IPOSE1635 - System	 IPOSE1635 	- 🗄 🏩 📼 - 🔜 🖪 🔜 🛕 🛹 🐸 📧	
Configuration	System	E IPOSE1635	
BOOTP (4) Operator (3) Solution User(32) Solution Directory(0) Comp(7) Directory(0) Comp(7) Comp(7) Directory(0) Comp(7) Comp(Name	System LAN1 LAN2 DNS Voicemail Telephony Directory Services System Events SMTF Output SMDR Only SMDR Station Message Detail Recorder Communications IP Address 10 · 10 · 16 · 139 TCP Port 9000 Demode to 0.500 Station Station	> SMDR
■ ■ IPOSE1635 ■ ■ System (1)		Call Splitting for Diverts	

5.3. Save Configuration

Once all the configurations have been made, it must be sent to the IP Office. Click on the **Save** Icon as shown below.

File Edit View Tools Help		
IPOSE1635 • System	 IPOSE1635 	
Configuration	System	E IPOSE1635
 BOOTP (4) Operator (3) Solution User(32) Group(7) Short Code(51) Directory(0) Time Profile(0) Account Code(4) User Rights(9) Location(0) POSE1635 System (1) Ti Line (3) 	Name	System LAN1 LAN2 DNS Voicernail Telephony Directory Services System Events SMTP SMDR Output SMDR Only • <

Once the **Save Configuration** Window opens, click the **OK** button.

M	Send I	Multiple	Configurations							- • •
		Select	IP Office	Change Mode	RebootTime	Incoming Call Barring	Outgoing Call Barring	Error Status	Progress	
	۱.		DevconIPO1635	Merge Merge	15:25			8	0%	
Ľ							ſ			
							l	OK	Cancel	Help

6. Configuration of Scannex IP buffer

This section provides the procedures to configure the Scannex IP buffer. It is implied that the Scannex IP buffer is already in place and configured with an IP address on the same subnet as the IP Office. For all other provisioning information, such as initial installation and configuration, please refer to the product documentation in **Section 10**.

Note: The procedures described below are normally carried out by a Soft-ex or partner engineer during installation and subsequent re-configuration.

6.1. Setup Scannex IP Buffer

After logging in, the Status page is displayed. Select SETUP followed by Channel 1 (not shown).

STATUS	SETUP	TOOL	S?		"Scannex-10-25-40" 00-02-ae-10-25-4
Status					Warning! Click for secure connection
	Source	Storage	Destination	Channel 1 Destination	
Channel 1 "Channel1"	тср	0	TCP server	Connected 1 Remote IP 10.10.16.37 Started 2015-01-28.09:20:42	
System	0% [0 2015-01-3	/27Mb] 28 10:14:24	0 alerts	Frozen 0 Transferred 1813	
		[Refresh]	Last Started 2015-01-27 16:13:28 Ended 2015-01-27 17:44:09 Remote IP 10.10.16.37 Transferred 6960	
⊖ stop ⊛ auto	-refresh				
≡scan	nexII	I			Version IPBSSL2.91.273 2014-10

Once the **Channel 1** page is opened, select **TCP** from the **Source** dropdown box, and then select **show**.

STATUS	SETUP	TOOLS	?
Channel	1: "Chann	el1"	
	Name Channel	1	The name of the channel (don't
Sc	DUITCE TCP	▼ show	Where to collect from

Once the next page opens, enter the following:

- **Connect** Select **Device to ipbuffer** from the drop down box
- **TCP Port** Enter **9000**. The port number used should match the **Remote Port** configured on the IP Office in **Section 5.2**.
- **Protocol** Enter **ASCII Lines** from the drop down box,

Use the scroll bar on the right side of the page and scroll down to **Destination** (not shown).

STATUS SETUP TOOLS		
Channel 1: "Channel1"		
Name Channel1		The name of the channel (don't
Source TCP show		Where to collect from
TCP/IP		
Connect Device to ipbuffer (passive/ser	ver) 🔻 multihome	Active or Passive connection
Address		Name or IP address of device
Allow		List of LAN IP addresses and nam
TLS/SSL No encryption	tes	Whether to use secure connection
TCP Port 9000		TCP port number
Protocol		
Protocol ASCII Lines	T	Which protocol or data type
Time Stamp		Prefix each record. See manual fo
Match & Send		

From the **Destination** dropdown box, select **TCP Server** and enter **5001** in the **TCP port** field. Click on the **Save** button on the bottom of the page (not shown) when the configuration is complete.

STATUS S	SETUP	TOOLS	?			"Scannex-10-25-40
Channel 1:	"Chann	el1"				Warning! Clic
Na	me Channel1					The name of the channel (don't use spaces)
Sourc	еТСР	▼ show				Where to collect from
Destinatio	n TCP serv	ver (passive)	▼ show			How to deliver the data
TCP server (pa	ssive)					
TCP Port	5001					The inbound port to receive from
Allow]	List of LAN IP addresses and names to allow. Default = blank
TLS/SSL	No encrypti	on 🔻 certific	ates			Whether to use a secure connection
Prompt]	Password prompt
Password			RADIUS	settings		Password to gain access
Success]	Correct password message
On Complete	Stay conne	cted (real-time)	•		4	What action to take when delivery complete

7. Configuration of Soft-ex Optimiser/RingMaster

This section outlines the steps to configure the RingMaster/Optimiser from Soft-ex in order to correctly collect SMDR data. RingMaster/Optimiser is installed on a server or PC from a program on CD/DVD. Installation instructions are outside the scope of this document but information on installation of Optimiser/ RingMaster can be found in **Section 10** of this document. Once the software is correctly installed it automatically prompts for some configuration details to complete the installation. These include information on the PBX that it is connecting to.

When the wizard opens, click on the <u>**Provide information about the telephone system** radio button. Click the **Next** button to continue.</u>

Set-up Wizard	×
The following steps are needed to complete an installation of the product.	
 Enter the production code Provide information about the telephone system 	
O Configure tariffs	
C Setup Complete	
< <u>B</u> ack <u>N</u> ext >	Close

Select the PBX that is being connected to from the **PBX Group** as shown below. For a connection to IP Office, choose **Avaya IP403** (441).

Click the **Next** button to continue.

AT&T 3100 (132) AT&T 74/75 -2 (286) AT&T Def V3/V4 (298) AT&T Def V3/V4 15 Digit CNI (472)	^
AT&T Der V3/V4 Call Splitting (462) AT&T Merlin (260) AT&T Partner + (261) AT&T Partner II (341) AT&T Partner 48 (262) AT&T SYS. 74/75 (174) AT&T V3 w/VDN (338)	
Avaya IP403 (441) Index 8.1 (430) INDeX 9.1 - Inc Txfers (458) INDeX 9.1 - No Buffering (407) INDeX 9.1 (405) Lucent Definity G3 (395) Lucent EXS 2000 (444) Lucent G3 (350) Lucent G3-2 (364)	~

7.1. Configuration of Soft-ex Optimiser/RingMaster connection to Avaya IP Office

Once the application is successfully installed a connection must be setup to collect SMDR data. This section shows the setup of a Real-time TCP/IP connection to the IP Office. This uses a port to listen for SMDR data being sent from the IP Office.

Open the Communication Server configuration in order to configure the new Real-time connection by clicking on **Communications Server** as shown below.



Select the **Real-time Connections** folder in the left hand pane and double click on **Add Connection** as highlighted below.

Communications Server Configuration	5 0.0.00
<u>File Edit View H</u> elp	
🗳 🗶 🛅 🗄 🖬 🖬 🖗	
Communications Server Configuration	Add Connection

When the "Add Real-time Connection" wizard opens, click the "Next" button to continue.



Solution & Interoperability Test Lab Application Notes ©2016 Avaya Inc. All Rights Reserved. On the subsequent screen, select **The Exchange is a TCP/IP** <u>Client</u> radio button, followed by the **Next** button.

Add Real-time Connection	Wizard
	How is the exchange connected to your computer? Serial Port The Exchange is a TCP/IP Server File The Exchange is a TCP/IP Client The Exchange is a UDP Client The Exchange is a RADIUS Accounting Client
	< <u>B</u> ack <u>N</u> ext > Cancel Help

On the subsequent screen enter the following:

- Site Number Select the site number (When there is only one site the site number will always be **0**)
- **Port Number** Enter the port number to listen on (this is the port number as configured in **Section 5.2**)

Click the **Next** button to continue.

Add Real-time Connection Wizard				
	Modify the configuration parameters below to match your installed hardware			
	<u>S</u> ite Number	0		
>/	Port Number to listen on	9000		
	Idle Timeout (seconds)	90		
	< <u>B</u> ack	Next > Cance	el Help	

On the subsequent screen, choose a **Connection name** for the new connection and click on the **Finish** button.

Add Real-time Connecti	on Wizard	X
	You can type a name for this connection, or you can use the name supplied below. When you have finished, click Finish.	
	Connection name:	
	AVAYA	
	Rack Finish Cancel	Help
	< Back Finish Cancel	Help

This new connection is shown under Real-time Connections.



7.2. Configuration of Soft-ex Optimiser/RingMaster connection to the IP Buffer

Open the Communications Server Configuration as in **Section 7.1** and select the **Real-time Connections** folder in the left hand pane and double click on **Add Connection** as highlighted below.



On the subsequent screen choose the **Add Real-time Connection Wizard** and, click the **Next** button to continue.



Solution & Interoperability Test Lab Application Notes ©2016 Avaya Inc. All Rights Reserved. On the subsequent screen, select **The Exchange is a TCP/IP** Server radio button, followed by the **Next** button.

Add Real-time Connection	Wizard
	How is the exchange connected to your computer? Serial Port The Exchange is a TCP/IP Server File The Exchange is a TCP/IP Glient The Exchange is a UDP Client The Exchange is a RADIUS Accounting Client
	< <u>B</u> ack <u>N</u> ext > Cancel Help

On the subsequent screen, enter the following:

- Server IP <u>A</u>ddress Enter the IP address of the IP Buffer
- Server Port Number Enter the port number to listen on (this is the Destination TCP port number as configured in Section 6.1)
- Site Number Select the site number (When there is only one site the site number will always be **0**)

Click the **Next** button to continue.

Add Real-time Connectio	on Wizard	X
	Server IP <u>A</u> ddress	10.10.16.240
	Server Port Number	5001
≥< (Site <u>N</u> umber	0
	Passw <u>o</u> rd	
	Idle Timeout (seconds)	9000
	< <u>B</u> ack	Next > Cancel Help

Solution & Interoperability Test Lab Application Notes ©2016 Avaya Inc. All Rights Reserved. On the subsequent screen, choose a **Connection name** for the new connection and click on the **Finish** button.

You can type a name for this connection, or you can use the name supplied below. When you have finished, click Finish.	
Connection name:	

8. Verification Steps

This section provides tests that can be performed to verify correct configuration of the Avaya and Soft-ex solution.

8.1. Verify the connection between Scannex IP buffer and Avaya IP Office

On the IP Buffer select **Status**, the completed **Status** screen is displayed. The **TCP Source** displays in green indicating that the IP Buffer has successfully connected to the Avaya solution.

STATUS	SETUP	TOOL	S?		"Scannex-10-25-40" 00-02-ae-10-25-4
Status					Warning! Click for secure connection
	Source	Storage	Destination	Channel 1 Destination	
Channel 1 "Channel1"	тср	0	TCP server	Connected 1 Remote IP 10.10.16.37	
System	0% [0 2015-01-2	/27Mb] 28 10:14:24	0 alerts	Frozen 0 Transferred 1813	
		[Refresh]		Last Started 2015-01-27 16:13:28 Ended 2015-01-27 17:44:09 Remote IP 10.10.16.37 Transferred 6960	
⊖ stop ⊛ auto	-refresh				
≡scan	nexII	I			Version IP85SL2.91.273 2014-10-

8.2. Verify SMDR data is being sent from Avaya IP Office

Setup a port listening tool on a PC and set it to listen on port 9000. Once connected make an incoming and outgoing call and on completion of the calls SMDR data should be visible on the port listening tool. An example is shown below.

2000/11/22	00:16:41,00:00:20,4,8357500,0,8357001,8357001,,1,1000004,0,E8357500,H323500Station,E8357001,Digital 2,0,0,0,n/a,,,,,,,,10.10.16.36
2000/11/22	00:27:33,00:00:12,2,8357500,0,8270001#,8270001#,,0,1000005,0,E8357500,H323500Station,T9010,Line 10.1,0,0,0,n/a,,,,,,,,,10.10.16.36,
2000/11/22	00:28:19,00:00:00,4,8270005,I,8350001,018350001,,0,1000006,0,E8350001,H323Station,T9005,Line 5.3,0,0,0,n/a,,,,,,,,10.10.16.36,1028
2000/11/22	00:28:47,00:00:00,2,8270005,I,8357500,018357500,0,1000007,0,E8357500,H323500Station,T9005,Line 5.4,0,0,0,n/a,,,,,,,,10.10.16.36,1
2000/11/22	00:29:46,00:00:10,2,8270005@devconnect.local,I,8357500,8357500,,0,1000008,0,E8357500,H323500Station,T9009,Line 9.1,0,0,0,n/a,,,,,,,,,
2000/11/22	00:30:32,00:00:00,2,8270005@devconnect.local,I,8357500,8357500,,0,1000010,0,E8357500,H323500Station,T9009,Line 9.1,0,0,0,n/a,,,,,,,,,
2000/11/22	00:30:57,00:00:22,5,8270001@devconnect.local,I,8357500,8357500,,0,1000012,0,E8357500,H323500Station,T9009,Line 9.2,0,0,0,n/a,,,,,,,,,
2000/11/22	00:31:19,00:00:01,6,8270002@devconnect.local,I,8357500,8357500,,0,1000013,0,V9500,VM Channel 0,T9009,Line 9.3,0,0,0,n/a,,,,,,,,,10.
2000/11/22	00:30:40,00:00:17,6,8270005@devconnect.local,I,8357500,8357500,0,1000011,0,E8357500,H323500Station,T9009,Line 9.1,31,0,0,n/a,,,,,,,,
2000/11/22	00:30:24,00:00:20,2,8350001,I,8357500,8357500,1,1000009,0,E8350001,H323Station,E8357500,H323500Station,51,0,0,n/a,,,,,,,10.10.16
2000/11/22	00:32:41,00:00:01,5,8350003,I,8357001,8357001,,1,1000017,0,E8350003,H323Station3,E8357001,Digital 2,0,0,0,n/a,,,,,,,,10.10.16.35,1
2000/11/22	00:33:02,00:00:07,6,8357500,0,8357001,8357001,,1,1000019,0,E8357500,H323500Station,V9500,VM Channel 0,0,0,0,n/a,,,,,,,10.10.16.36
2000/11/22	00:32:10,00:00:16,4,8350001,I,8357001,8357001,,1,1000015,0,E8350001,H323Station,E8357001,Digital 2,51,0,0,n/a,,,,,,,,10.10.16.35,1
2000/11/22	00:32:25,00:00:17,5,8350002,I,8357001,8357001,,1,1000016,0,E8350002,H323Station2,E8357001,Digital 2,35,0,0,n/a,,,,,,,,10.10.16.35,
2000/11/22	00:34:29,00:00:00,0,8350002,I,8357500,8357500,,1,1000022,0,E8350002,H323Station2,,,0,0,0,n/a,,,,,,,,10.10.16.35,1295,0.0.0.0,0,200
2000/11/22	00:34:23,00:00:12,2,8350001,I,8357500,8357500,1,1000021,0,E8350001,H323Station,E8357500,H323500Station,0,0,0,0,n/a,,,,,,,10.10.16.
2000/11/22	00:35:15,00:00:00,0,8357500,0,8350008#,,,0,1000023,0,E8357500,H323500Station,V8000,U1 0.0,0,0,0,n/a,,,,,,,10.10.16.36,1067,10.10.

8.3. Verify SMDR data is being received by the Optimiser/RingMaster

Check that the Soft-ex Communications Server service is running as shown below.

🔍 Services	_		
Soft-ex Communication Server	Name	Description	Status
<u>Stop</u> the service <u>Restart</u> the service	 Secondary Logon Secure Socket Tunneling Proto Security Accounts Manager 	Enables starting processes under alternate crede Provides support for the Secure Socket Tunnelin The startup of this service signals other services	Started
Description: Collects data for Soft-ex Communication Server Application	Security Center Server Shell Hardware Detection Skype Updater	The WSCSVC (Windows Security Center) service Supports file, print, and named-pipe sharing ov Provides notifications for AutoPlay hardware ev Enables the detection, download and installatio	Started Started Started
	Smart Card Smart Card Removal Policy SNMP Trap	Manages access to smart cards read by this com Allows the system to be configured to lock the Receives trap messages generated by local or re	Started
	Soft-ex BrokerHandler Soft-ex Call Processing Soft-ex CM Agent	Hosts and handles distributed management tas Records and applies cost to CDR for Soft-ex Call Collects records from Cisco CallManager	Started
	Soft-ex Communication Server	Collects data for Soft-ex Communication Server	Started
	Software Protection	Enables the download, installation and enforce Provides Software Licensing activation and notif	

Check to see that a SMDR file is created in the location C\:RM2000\<Sitename> as shown below.

Computer	→ Local Disk (C:) → RM2000 → Avaya	San Land Party	and the second second	And the second	• 47
Organize 👻 🧊 Open	 Burn New folder 				8==
> 🔆 Favorites	Name	Date modified	Туре	Size	
1025 m m	15_01_27.DLY	27/01/2015 15:38	DLY File	15 KB	
Dibraries	TIB.RMD	27/01/2015 15:40	RMD File	1 KB	
▷ 📲 Computer					
▷ 🙀 Network					

Check using the Soft-ex Call Charging Configuration tool, that SMDR data is being processed correctly.

This will show the SMDR data as it was sent from the IP Office.



An example is shown below.

```
5 Soft-ex RingMaster - Call Charging Configuraton
                                                                                                                            X
File Options Maintenance Help
$$ Codes..... 2
$$ Max Ports..... 20000
$$ Max Trunks..... 20000
$$ Max Codes..... 400
$$ Stored Calls..... 52
$$ Free Calls..... 275818036
$$ Latest Call Date....: 22/11/2000
    Number of Sites..... 1
2000/11/22 00:16:11,00:00:10,16,8357500,0,8357000,8357000,1,1000001,0,E8357500,H323500Station,V9500,VM Channel
0,0,0,0,n/a,,,,,,10.10.16.36,1005,10.10.16.35,1247,2000/11/22 00:16:38
Int. Extn:9500 Extn:8357500 (Recorded)
8357500, A, 00:16, 00:00:10, Internal, 00:16, , , $0.0000, 9500, , , Standard, 11/22/2000, Wednesday
2000/11/22 00:16:41,00:00:20,4,8357500,0,8357001,8357001,,1,1000004,0,E8357500,H323500Station,E8357001,Digital
2,0,0,0,n/a,,,,,,10.10.16.36,1013,10.10.16.36,1015,2000/11/22 00:17:09
Int. Extn:8357001 Extn:8357500 (Recorded)
8357500, A, 00:16, 00:00:20, Internal, 00:04, , , $0.0000, 8357001, , , Standard, 11/22/2000, Wednesday
2000/11/22 00:27:33,00:00:12,2,8357500,0,8270001#,8270001#,,0,1000005,0,E8357500,H323500Station,T9010,Line
10.1,0,0,0,n/a,,,,,,10.10.16.36,1016,10.10.16.35,1250,2000/11/22 00:27:50 Otg. Trnk:T9010 Extn:8357500 (Recorded)
8357500, A, 00:27, 00:00:12, Outgoing, 00:02, Local, ER++8270001, $0.0890, T9010, , L, Cheap, 11/22/2000, Wednesday
2000/11/22 00:28:19,00:00:00,4,8270005,I,8350001,018350001,,0,1000006,0,E8350001,H323Station,T9005,Line
5.3,0,0,0,n/a,,,,,,10.10.16.36,1020,10.10.16.35,1253,2000/11/22 00:28:26
                                                                                            Call Charging running 13/12/2016 16:35
```

9. Conclusion

A set of feature functional test cases were performed during compliance testing. Soft-ex Optimiser/Ringmaster 5.6b is considered compliant with Avaya IP Office 500v2 version 10.0. All test cases have passed and met the objectives outlined in **Section 2.2**.

10. Additional References

These documents form part of the Avaya official technical reference documentation suite. Further information may be obtained from <u>http://support.avaya.com</u> or from your Avaya representative.

[1] Administering Avaya IP Office[™] Platform with Manager, Document 101005673.

Information on the installation and configuration of Optimiser/RingMaster can be found at <u>http://www.soft-ex.net</u> website. Information on the install and configuration of the IP Buffer from Scannex can be found at <u>http://www.scannex.co.uk</u>.

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Please e-mail any questions or comments pertaining to these Application Notes along with the full title name and filename, located in the lower right corner, directly to the Avaya DevConnect Program at <u>devconnect@avaya.com</u>.