

Avaya Solution & Interoperability Test Lab

Application Notes for Eastcom Systems Telephone Call Accounting & Audit Package Version 8.21 with Avaya Aura® Communication Manager R6.3 - Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Eastcom Systems Telephone Call Accounting & Audit Package (TelCAAP) to interoperate with Avaya Aura® Communication Manager.

Eastcom TelCAAP is an enterprise software solution that provides customers with detailed analysis of PABX communication usage. Eastcom TelCAAP interoperates with Avaya Aura® Communication Manager over TCP/IP for the collection of call detail records (CDR).

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

The objective of this interoperability compliance testing is to verify that Eastcom Systems Telephone Call Accounting & Audit Package (TelCAAP) Version 8.21 can interoperate with Avaya Aura® Communication Manager R6.3. Eastcom TelCAAP interoperates with Avaya Aura® Communication Manager over TCP/IP for the collection of call detail records (CDR). During the compliance testing, CDR collection was verified for two Avaya Aura® Communication Manager systems:

- A duplex pair of Avaya S8800 Servers
- Avaya S8300D Server

2. General Test Approach and Test Results

The general test approach was to manually place intra-switch calls, inter-switch IP Trunk calls, inbound and outbound PSTN trunk calls to and from telephones on Avaya Aura® Communication Manager systems, and verify that Eastcom TelCAAP collects the CDR records and reports the correct attributes of the call.

2.1. Interoperability Compliance Testing

The interoperability compliance testing included feature and serviceability testing. CDR links with and without reliable protocol were tested.

For feature testing, the ability of Eastcom TelCAAP to collect and process CDR records for intra-switch calls, inter-switch calls, inbound and outbound PSTN trunk calls to and from telephones on both Communication Manager systems was evaluated.

For serviceability testing, the following were performed:

- Busied out and released the CDR links on Communication Manager.
- Disconnected and reconnected network connection to the Eastcom TelCAAP server.
- Rebooted the Eastcom TelCAAP server, Avaya S8800 and S8300D Servers.

2.2. Test Results

All test cases described in **Section 2.1** passed successfully.

2.3. Support

Technical support for Eastcom TelCAAP can be obtained by contacting Eastcom in the following ways:

- Telephone: +65 63232822
- Email: systems.com
- Web: <u>http://www.eastcom-systems.com/support.html</u>

3. Reference Configuration

Figure 1 illustrates the network configuration used to verify the Eastcom TelCAAP solution. Site A is comprised of a pair of duplex Avaya S8800 Servers and Avaya G650 Media Gateway, and has connections to the following: Avaya 96x1 and 1600 Series IP Telephones, Avaya 1400 Series Digital Telephones, and an ISDN-BRI trunk to the PSTN. Eastcom TelCAAP is installed on a server running Microsoft Windows Server 2003 with Service Pack 2. Site B is comprised of an Avaya S8300D Server with Avaya G450 Media Gateway, and has connections to Avaya 9600 Series IP Telephone and 1400 Series Digital Telephone. The Avaya 4548GT-PWR Ethernet Routing Switch provides Ethernet connectivity to the servers and IP telephones and Layer 3 IP routing between the two sites. An H.323 IP trunk is configured between Site A and B for the users to call between the two sites.

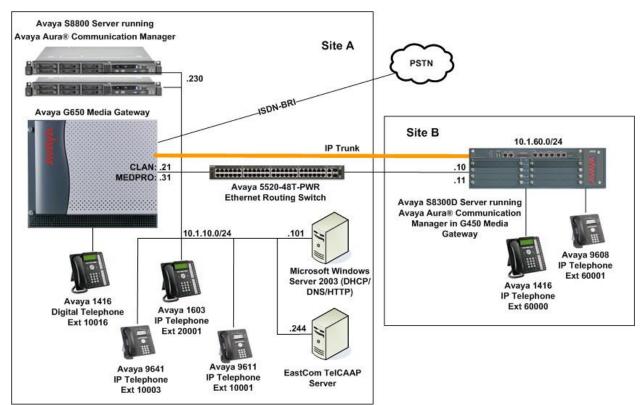


Figure 1: Test configuration for Eastcom TelCAAP Solution

4. Equipment and Software Validated

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

Equipment	Software					
Avaya S8800 Server Duplex Server	Avaya Aura® Communication Manager					
	6.3 SP1					
Avaya G650 Media Gateway	-					
TN2312BP IP Server Interface	HW07, FW057					
TN799DP C-LAN Interface	HW01, FW040					
TN2302AP IP Media Processor	HW20, FW121					
TN2602AP IP Media Processor	HW02, FW063					
TN2214CP Digital Line	HW08, FW015					
Avaya S8300D Server	Avaya Aura® Communication Manager					
	6.3 SP1					
Avaya G450 Media Gateway	33.13.0					
Avaya 9600 Series IP Telephones						
• 9641	6.3 (H.323)					
• 9611	6.3 (H.323)					
• 9608	6.3 (H.323)					
Avaya 1600 Series IP Telephones						
- 1616	1.34 (H.323)					
Avaya 1416 Digital Telephone	R4 SP2					
Avaya 4548GT-PWR Ethernet Routing Switch	V6.2.4.010					
Eastcom TelCAAP	8.21					

5. Configure Avaya Aura® Communication Manager

This section provides the procedures for configuring Call Detail Recording (CDR) in Communication Manager. All configuration changes in Communication Manager are performed through the System Access Terminal (SAT). These steps describe the procedure used for the Avaya S8800 Server. All steps are the same for the Avaya S8300D Server. Communication Manager is configured to generate and send the CDR records to the IP address of the Eastcom TelCAAP server over TCP/IP. For this configuration, the CDR links are configured to originate from the IP addresses of the Avaya S8800 and S8300D Servers (i.e. with node-name – "procr") and terminates at the IP address of the Eastcom TelCAAP server. The highlights in the following screens indicate the parameter values used during the compliance test.

Step	Description							
1.								
	TelCAAP server.							
	change node-names ip Page 1 of 1							
	IP NODE NAMES							
	Name IP Address default 0.0.0.0							
	procr 10.1.10.10							
	TelCAAP 10.1.10.244							
2	Use the shange in commond to define the CDD link To define a miner CDD							
2.	Use the change ip-services command to define the CDR link. To define a primary CDR link, the following information should be provided:							
	mik, the following information should be provided.							
	• Service Type: CDR1 [If needed, a secondary link can be defined by setting							
	Service Type: CDR1 [In needed, a secondary link can be defined by setting Service Type to CDR2.]							
	Local Node: procr							
	 Local Port: 0 [The Local Port is fixed to 0 because Communication Manager 							
	initiates the CDR link.]							
	 Remote Node: TelCAAP [The Remote Node is set to the node name previously 							
	defined in Step 1 .]							
	 Remote Port: 5010 [The Remote Port may be set to a value between 5000 and 							
	64500 inclusive, and must match the port configured in Eastcom TelCAAP server							
	in Section 6. Note that TelCAAP requires a different port number for each							
	Communication Manager system regardless if they are survivable or separate							
	systems]							
	change ip-services Page 1 of 4							
	IP SERVICES Service Enabled Local Local Remote Remote							
	Type Node Port Node Port							
	CDR1 procr 0 TelCAAP 5010							

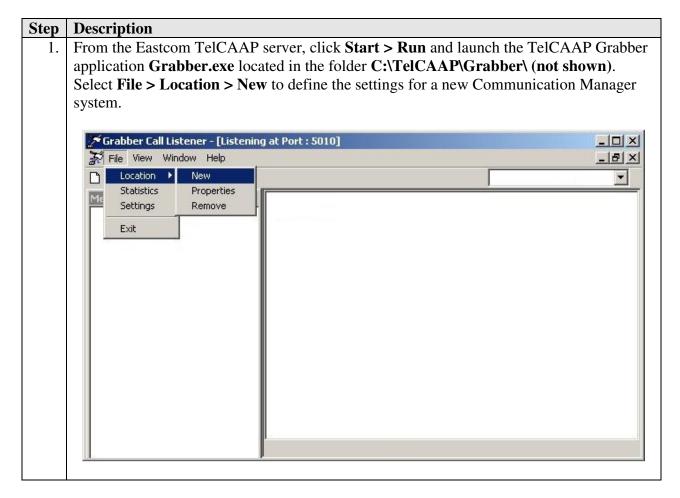
Step	Description							
	On Page 3 of the IP SERVICES form, enable or disable the Reliable Session Protocol (RSP) for the CDR link by setting the Reliable Protocol field to y or n respectively depending on the parameter setup for location properties for Reliable protocol in TelCAAP configuration in Section 6.2 . In this compliance testing, CDR is tested with and without reliable protocol.							
	change ip-services Page 3 of 4							
	SESSION LAYER TIMERS Service Reliable Packet Resp Session Connect SPDU Connectivity Type Protocol Timer Message Cntr Cntr Timer							
	CDR1 n 30 3 3 60							
	 calls to track and the format of the CDR data. The following settings were used during the compliance test. CDR Date Format: month/day Primary Output Format: customized Primary Output Endpoint: CDR1 The remaining parameters define the type of calls that will be recorded and what data will be included in the record. See Reference [2] for a full explanation of each field. The test configuration used some of the more common fields described below. Use Legacy CDR Formats? n [Specify the use of the new Communication Manager 4.0.1 and later formats in the CDR records produced by the system.] Remove # From Called Number? y [The system will remove the pound sign (#) from the Dialed Number field of the call detail record.] Intra-switch CDR: y [Allows call records for internal calls involving specific stations. Those stations must be specified in the INTRA-SWITCH-CDR form.] Record Outgoing Calls Only? n [Allows incoming trunk calls to appear in the CDR records along with the outgoing trunk calls.] Outg Trk Call Splitting? y [Allows a separate call record for any portion of an outgoing call that is transferred or conferenced.] 							

ep	Description					
	change system-para	ameters c	dr			Page 1 of 2
			CDR SYSTEM P.	ARAMETERS		-
	Node Number (Loca					'ormat: month/day
	Primary Outp	out Forma	t: customized	Primary	Output End	lpoint: CDR1
	Secondary Outp					
		DN Layout				torage on Disk? y
						directed Calls? n
	Use Legacy (Ren		n Called Number? y
	Modified Circuit 1	ID Displa	y? n	0	In	tra-switch CDR? y
	Commence CDD for	Record O	utgoing Calls	Only? n	Outg Trk	Call Splitting? y
	Suppress CDR for	Inellec Informati	on in Place of	EBL2 n	Interwor	td Call Record? y king Feat-flag? n
	Force Entry of Ac					
	TOLCE DICLY OF AC	let coue				ord: group-ext
	Record Called Vect	or Direc				
	Record Agent ID or					
	Inc Trk Call Record Non-Call-	Splittin	ıg? y			Record? n
						Option: warning
	Record Call-	-Assoc TS	C? n Digits	to Re <u>cord</u> f	or Outgoin	g Calls: outpulsed
	Privacy – Digit	ts to Hid	e: 0	CDR Ac	count Code	e Length: 7
	Remove '+' from SI	IP Number	s? y			
			-1 -			
	change system-para	ameters c	dr CDR SYSTEM P.	ARAMETERS		Page 2 of 2
			CDR SYSTEM P.			-
	Data Item - I	Length	CDR SYSTEM P. Data Iter	m – Length		Page 2 of 2 ta Item - Length
	Data Item - I 1 : date	Length - 6	CDR SYSTEM P. Data Iter 17: calling-n	m – Length um – 1	5 33:	-
	Data Item - I 1: date 2: space	Length - 6 - 1	CDR SYSTEM P. Data Iter 17: calling-n	m – Length um – 1	5 33:	-
	Data Item - I 1: date 2: space 3: time	Length - 6 - 1 - 4	CDR SYSTEM P. Data Ite: 17: calling-n 18: space 19: auth-code	m - Length um - 1 - 1 - 7	5 33: 34: 35:	-
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Step	Description
	change intra-switch-cdr Page 1 of 3
	INTRA-SWITCH CDR
	Assigned Members: 4 of 5000 administered
	Extension Extension Extension
	10001
	10003
	10016
	20001
5.	For each trunk group for which CDR records are desired, verify that CDR reporting is
	i engnied, lise ine change iriink-group n command, where n is the trunk group number to
	enabled. Use the change trunk-group n command, where n is the trunk group number, to
	verify that the CDR Reports field is set to y . This applies to all types of trunk groups.
	verify that the CDR Reports field is set to y . This applies to all types of trunk groups.
	verify that the CDR Reports field is set to y. This applies to all types of trunk groups.change trunk-group 1Page 1 of 21
	verify that the CDR Reports field is set to y. This applies to all types of trunk groups. change trunk-group 1 Page 1 of 21 TRUNK GROUP
	verify that the CDR Reports field is set to y. This applies to all types of trunk groups. change trunk-group 1 Page 1 of 21 TRUNK GROUP Group Number: 1 Group Type: isdn CDR Reports: y
	verify that the CDR Reports field is set to y. This applies to all types of trunk groups. change trunk-group 1 Page 1 of 21 TRUNK GROUP Group Number: 1 Group Type: isdn CDR Reports: y Group Name: PSTN - BRI COR: 95 TRUN: 1 TAC: #01
	verify that the CDR Reports field is set to y. This applies to all types of trunk groups. change trunk-group 1 Page 1 of 21 Group Number: 1 Group Type: isdn Group Name: PSTN - BRI COR: 95 TN: 1 Direction: two-way Outgoing Display? n Carrier Medium: PRI/BRI
	verify that the CDR Reports field is set to y. This applies to all types of trunk groups. change trunk-group 1 Page 1 of 21 Group Number: 1 Group Type: isdn Group Name: PSTN - BRI COR: 95 TN: 1 Direction: two-way Outgoing Display? n Carrier Medium: PRI/BRI Dial Access? y Busy Threshold: 255 Night Service:
	verify that the CDR Reports field is set to y. This applies to all types of trunk groups. change trunk-group 1 Page 1 of 21 Group Number: 1 Group Type: isdn CDR Reports: y Group Number: 1 Direction: two-way Outgoing Display? n Carrier Medium: PRI/BRI Dial Access? y Busy Threshold: 255 Queue Length: 0
	verify that the CDR Reports field is set to y. This applies to all types of trunk groups. change trunk-group 1 Page 1 of 21 Group Number: 1 Group Type: isdn CDR Reports: y Group Number: 1 Direction: two-way Outgoing Display? n Carrier Medium: PRI/BRI Dial Access? y Busy Threshold: 255 Queue Length: 0
	verify that the CDR Reports field is set to y. This applies to all types of trunk groups. change trunk-group 1 Page 1 of 21 Group Number: 1 Group Type: isdn Group Name: PSTN - BRI COR: 95 Direction: two-way Outgoing Display? n Carrier Medium: PRI/BRI Dial Access? y Busy Threshold: 255 Queue Length: 0 Service Type: public-ntwrk

6. Configure Eastcom Systems TelCAAP

This section describes the configuration of Eastcom TelCAAP.



Step	Description						
2.	From the Location Settings window, specify a descriptive value for Location ID and						
	Location Name and select TCP/IP for Listener Type. In the TCP/IP Details tab, set						
	Remote IP Address to the IP address of the Avaya S8800 or S8300D Server, set Local						
	IP Address to the IP address of the TelCAAP server and set Port to correspond to the						
	Remote Port field configured in Section 5 Step 2 . If reliable protocol is configured in						
	Section 5.2 for Communication Manager, the Reliable Protocol below has to be ticked.						
	Click Ok.						
	🔀 Location Settings						
	Location ID AVAYAP_PRI						
	Location Name Avaya Primary CDR						
	Listener Type TCP/IP Listener						
	TCP/IP Polling Alcatel 0X0 BT PCS 0CS NexWave Avaya SCS Lync TCP/IP Listener Serial Port Cisco3-4 Get File MySQL Cisco5.0						
	Remote IP Address 10.1.10.230 Local IP Address 10.1.10.244 Port 5010 Login User Name						
	Path General Listening File Path C:\TelCAAP\Grabber File Destination Path C:\TelCAAP\Process\RAW File Transfer Minutes 1 File Log Path C:\TelCAAP\Grabber\Log Uk Cancel						

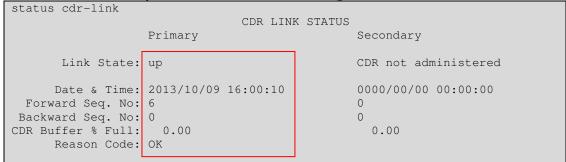
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Step	Description
3.	Repeat Steps 1 and 2 to add a new location for the second Communication Manager
	system. This completes the configuration of Eastcom TelCAAP.

7. Verification Steps

The following steps may be used to verify the configuration:

- Use the **ping** utility on the Eastcom TelCAAP server to verify the IP connectivity to the Avaya S8800 and S8300D Servers.
- On the SAT of each Avaya S8800 and S8300D Server, enter the status cdr-link command and verify that the Link State shows up.



• Place an outgoing PSTN trunk call and verify that Eastcom TelCAAP receives the CDR record for the call. Login to Eastcom TelCAAP using a browser (shown below) and compare the values of data fields in the CDR record with the expected values and verify that they match.

TELCAAP	ccounting	solutio	20		5				
Home									Opti
 Admin ■ Master 	Extension	Detail							
Reports Organisation Summary Organisation Detail	▶ Input Criteria								
Extension Summary Extension Detail Country Summary	Preview Export To Excel Export To PDF Clear								
Operator Summary Exception by Duration		of 1		¢ Find	Next 😨				
Exception By Value				AVAYA					-
: Destination Detail		SCIENCE PARK DRIVE							
Auth Code Summary Auth Code Detail	Extension Detail Report for the period 02-OCT-2013 to 02-OCT-2013								
:: Client/Account	Date	Time I	Extn From	Called / Calling Number	Area / Country	Duration (HH:MM:SS)	Charges		
	Company : UNA SSIGNED								
	Division : UNA SSIGNED								
	Department : UNA SSIGNED							-	
	:								-
	Extn #: 10016 User Name :								
Eastcom	LOCAL								
•	02/10/2013	15:24		67746430		00:00:01	0.008		
	02/10/2013	15:31		67746430		00:00:00	0.000		
	02/10/2013	16:35		67746430		00:00:03	0.008		
	Sub Total:LOCAL 00:00:04 0.016								
	Sub Total for I	Extn # : 100	16 User Nam	ie:		00:00:04	0.016		-

• Place internal, inbound trunk, and outbound trunk calls to and from various telephones, generate an appropriate report in Eastcom TelCAAP and verify the report's accuracy.

8. Conclusion

These Application Notes describe the procedures for configuring Eastcom Systems Telephone Call Accounting & Audit Package (TelCAAP) to collect call detail records from Avaya Aura® Communication Manager. Eastcom TelCAAP successfully passed the compliance testing.

9. Additional References

This section references the Avaya documentation that is relevant to these Application Notes.

The following Avaya product documentation can be found at <u>http://support.avaya.com</u>.

- [1] Administering Avaya Aura® Communication Manager, Release 6.3, May 2013, Document Number 03-300509, Issue 8.0.
- [2] Avaya Aura® Communication Manager Feature Description and Implementation, Release 6.3, May 2013, Document Number 555-245-205, Issue 10.0.

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