

Avaya Solution & Interoperability Test Lab

# Application Notes for Eastcom Systems Comprehensive Alarm Monitoring System with Avaya Communication Manager - Issue 1.0

#### Abstract

These Application Notes describe the configuration steps required for Eastcom Systems Comprehensive Alarm Monitoring System (CAMS) to interoperate with Avaya Communication Manager.

Eastcom CAMS is designed to provide comprehensive centralized alarm monitoring within the most complex and mission-critical automation environments. With outstanding features such as built-in workflow escalation alerts, CAMS can be configured to send primary and secondary alarm notifications via SMS or email to an administrator for immediate acknowledgement.

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 was to verify that Eastcom Systems Comprehensive Alarm Monitoring System (CAMS) can interoperate with Avaya Communication Manager 5.1.

Eastcom CAMS uses Avaya Site Administration to poll Avaya Communication Manager systems for active alarms. The alarms are then filtered based on severity and type, and notifications are sent to registered users via short message service (SMS).

**Figure 1** illustrates the network configuration used to verify the Eastcom CAMS solution. Site A is comprised of an Avaya S8500 Server and Avaya G650 Media Gateway, and has connections to the following: Avaya 9630 IP Telephones, Avaya 2400 Series Digital Telephones, and an ISDN-BRI trunk to the PSTN. Eastcom CAMS is installed on a server running Microsoft Windows Server 2003 with Service Pack 2. Site B is comprised of an Avaya S8300 Server with Avaya G350 Media Gateway, and has connections to Avaya 4621SW IP Telephones. The Avaya C364T-PWR Converged Stackable 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.

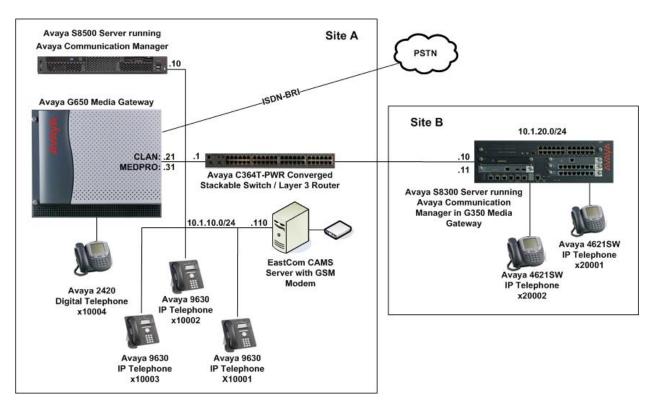


Figure 1: Test configuration

# 2. Equipment and Software Validated

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

Equipment	Software
Avaya S8500 Server	Avaya Communication Manager
	5.1
	(Service Pack 01.0.414.3-15962)
Avaya G650 Media Gateway	-
<ul> <li>TN2312BP IP Server Interface</li> </ul>	HW07, FW044
<ul> <li>TN799DP C-LAN Interface</li> </ul>	HW01, FW026
<ul> <li>TN2302AP IP Media Processor</li> </ul>	HW20, FW117
<ul> <li>TN2214CP Digital Line</li> </ul>	HW08, FW015
<ul> <li>TN2793B Analog Line</li> </ul>	000013
Avaya S8300 Server	Avaya Communication Manager
	5.1
	(Service Pack 01.0.414.3-15962)
Avaya G350 Media Gateway	28.17.0
Avaya 4600 Series IP Telephones	
- 4621SW	2.8.8.7 (H.323)
Avaya 9600 Series IP Telephones	
- 9630	1.5 (H.323)
Avaya 2400 Series Digital Telephone	-
Avaya C364T-PWR Converged Stackable Switch	4.5.18
Avaya Site Administration	5.0.11 SP2.01
Eastcom CAMS	3.0

# 3. Configure Avaya Communication Manager

This section describes the steps needed to configure Avaya Communication Manager to interoperate with Eastcom CAMS. This section describes the steps to create a login account and a SAT User Profile for CAMS to access Avaya Communication Manager to retrieve the alarms. The steps are repeated for each Avaya Communication Manager system.

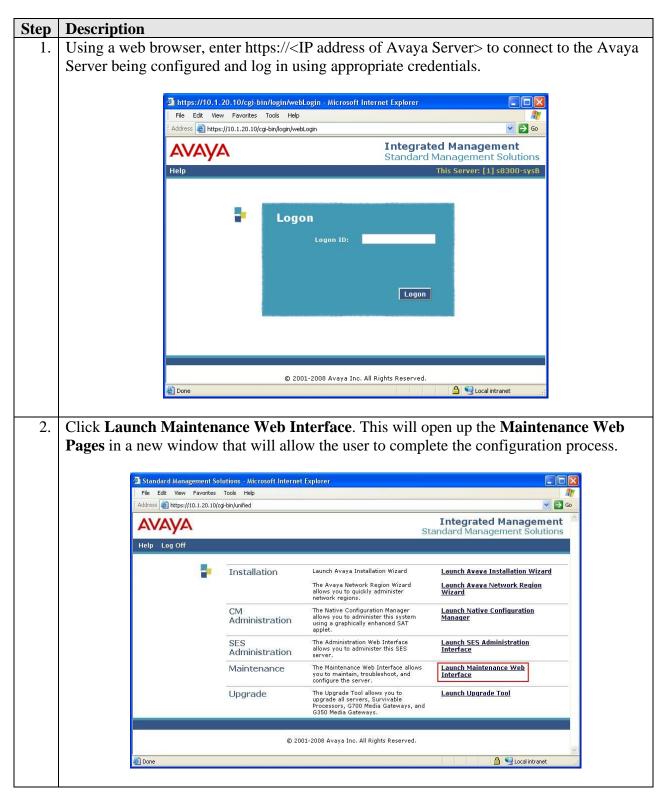
#### 3.1. Configure SAT User Profile

A SAT User Profile specifies which SAT screens may be accessed by the user assigned the profile and the type of access to each screen. As Eastcom CAMS does not modify any system configuration, create a SAT User Profile with limited permissions to assign to the CAMS login account.

Step	Description				
1.	Enter the <b>add user-profile</b> <i>n</i> command, where <i>n</i> is the next unused profile number. Enter				
	a descriptive name for User Profile Name and enable Category H by setting the Enbl				
	field to y. In this configuration, the user profile 20 is created.				
	add user-profile 20 Page 1 of 41				
	USER PROFILE 20				
	User Profile Name: CAMS				
	This Profile is Disabled? n Shell Access? n				
	Facility Test Call Notification? n Acknowledgement Required? n				
	Grant Un-owned Permissions? n Extended Profile? n				
	Name Cat Enbl Name Cat Enbl				
	Adjuncts A n Routing and Dial Plan J n				
	Call Center B n Security K n				
	Features C n Servers L n				
	Hardware D n Stations M n				
	Hospitality E n System Parameters N n				
	IPF n Translations O n Maintenance G n Trunking P n				
	Measurements and Performance H y Usage Q n Remote Access I n User Access R n				
	Kellote Access I II OSEI Access K II				
2.	To further restrict the permissions assigned to the CAMS login account, set the				
	permissions of all objects in Category H to '' (i.e. no permission) except for the alarms				
	object, which is assigned the permission ' <b>r</b> -'. Submit the form to create the user profile.				
	object, which is assigned the permission 1 Submit the form to create the user prome.				
	add user-profile 20 Page 3 of 41				
	USER PROFILE 20				
	Set Permissions For Category: H To: Set All Permissions To:				
	'-'=no access 'r'=list,display,status 'w'=add,change,remove+r 'm'=maintenance				
	Name Cat Perm				
	aesvcs link A				
	aesvcs-server A				
	agent B agent-loginID B				
	alarms H <b>r</b> -				
	alias station M				
	alphanumeric-dial-table J				
	alternate-frl C				
	amw all G				
	amw asai G				
	amw audix G				
	amw pms G				
	analog-testcall board G				
L					

#### 3.2. Configure Login Group

Create a Login Group to correspond to the SAT User Profile created in Section 3.1.

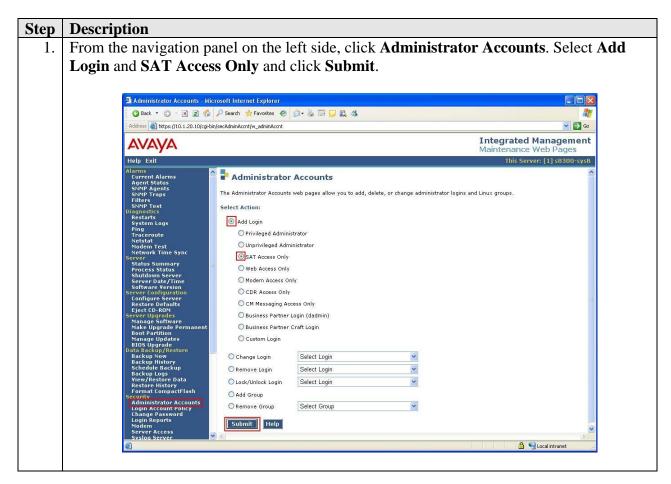


Step	Description				
3.	From the navigation panel on the left side, click Administr	rator Accounts. Select Add			
	Group and click Submit.				
	Group and ener Submit.				
	🗿 Administrator Accounts - Microsoft Internet Explorer				
		🧱 💌 🄁 Go			
	Αναγα	Integrated Management Maintenance Web Pages			
	Help Exit	This Server: [1] s8300-sysB			
	Alarms Current Alarms Agent Status SNMP Traps Filters Filters				
	SNMP Test Diagnostics Restarts				
	Restarts     O Add Login       System Logs     O Add Login       Ping     O Privileged Administrator				
	Netstoute Notem Test Notem Test				
	Server Status Summary Status Summary OWeb Access Only				
	Shutdown Server Server Date/Time O Modem Access Only				
	Software Version OCDR Access Only Configure Server Restore Defaults OCM Messaging Access Only	=			
	Eject CD-ROM Server Upgrades O Business Partner Login (dadmin)				
	Manage Software Nake Upgrade Permanent Boot Partition Manage Updates BIOS Upgrade Dato Backup/Restore				
	Backup Now O Change Login Select Login				
	Schedule Backup O Remove Login Select Login				
	Format CompactFlash Security				
	Administrator Accounts Login Account Policy Change Password				
	Login Reports Modem Server Access	•			
		🔒 👻 Local intranet			
4.	Select <b>Add a new access-profile group</b> and select <b>prof20</b> match the user-profile created in <b>Section 3.1 Step 1</b> . Click creation of the login group.	-			
	Administrator Accounts Add Group - Microsoft Internet Explorer				
	🕜 Back 🝷 🕥 – 🖹 😰 🏠 🔑 Search 🌟 Favorites 🔗 🙆 – 💺 式 🖏				
	Address  https://10.1.20.10/cgi-bin/secAdminAccnt/w_adminAccnt	GO CO			
		Integrated Management Maintenance Web Pages			
	Help Exit	This Server: [1] s8300-sysB			
	Alarms Current Alarms Agent Status SNMP Agents	Group			
	SNMP Traps Filters SNMP Test Diagnostics				
	Restarts Select Action: System Logs Ping				
	Traceroute Netstat				
	Modem Test Network Time Sync				
	Server         Group Name:           Status Summary         Group Number:         (500 to 60000)           Process Status         Shuttdown Server         (500 to 60000)				
	Server Date/Time Software Version Server Configuration Submit Cancel Help				
	Configure Server Restore Defaults				
		🔒 🧐 Local intranet			

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#### 3.3. Configure Login

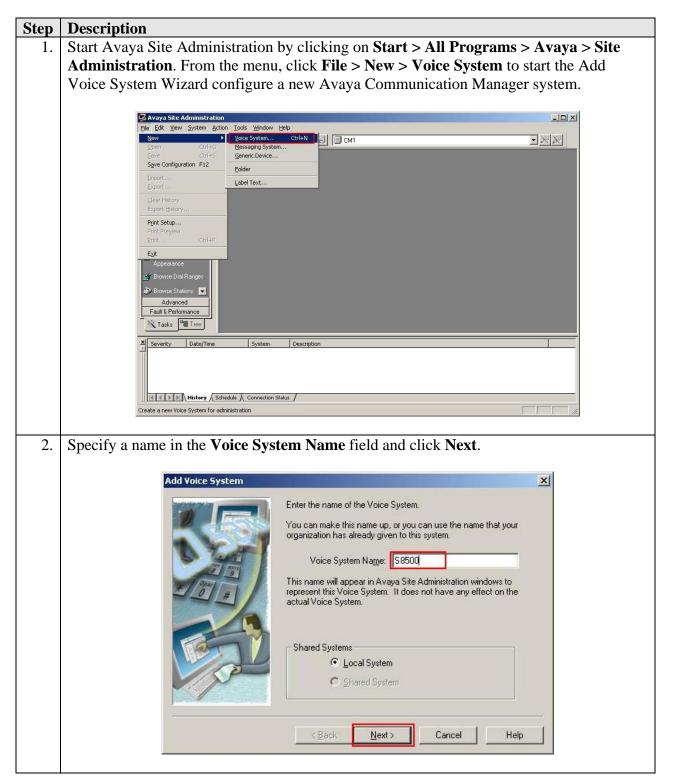
Create a login account for Eastcom CAMS to access the SAT.



Step	Description				
2.	On the Administrator Accounts Add Login: SAT Access Only page, configure the login as follows:				
	<ul> <li>Login name: Specify the login name to create. In this configuration, the login cams was created.</li> <li>Primary group: users [Limits the permissions of the login]</li> <li>Additional groups (profile): prof20 [Select the login group created in Section 3.2.]</li> </ul>				created in Section
	Enter pass	word or key / I	ion: Password [Use Re-enter password mpletes the configu	or key [Define	e the password]
Click Submit to continue. This completes the configuration of the login.  Administrator Accounts Add Login: SAT Access Only - Microsoft Internet Explorer  Back * O * B © O Peerch * Favorites @ O * B © B & B © B & B				en X	
	Address Address Address Address	/secAdminAccnt/w_adminAccnt		T	🔽 🔁 Go 🕴 Links 🔮 Customiz 🎽
					aintenance Web Pages This Server: [1] s8300-sysB
	Agent Status SNNP Agents SNNP Traps Filters SNNP Test Diaptarts System Logs Ping Traceroute Netstat Modem Test Network Time Sync	This page allows you to create a lo interface, Login name Primary group	ounts Add Login: SAT Acc bgin that is intended to have access only to the cams o susers ousers users		Administration Terminal (SAT)
	Server Status Summary Process Status Shutdown Server Server Date/Time Server Confunction Configure Server Restore Defaults Eject D-ROM Server Upgrades	Additional groups (profile) Linux shell	/opt/ecs/bin/autosat	You must assign a profile that has no web access if you want a login with SAT access only. This shell setting does NO disable the "go shell" SAT command for this user.	
	Manage Software Make Upgrade Permanent Boot Partition	Home directory	/var/home/cams		1
	Manage Updates BIOS Upgrade Data Backup/Restore Backup Now Backup History Sebedua Packur	Lock this account Date after which account is disabled-blank to ignore			
	Schedule Backup Backup Logs View/Restore Data Restore History Format CompactFlash	(YYYY-MM-DD) Select type of authentication	Password O ASG: enter key		
	Administrator Accounts Login Account Policy Change Password	Enter password or key	O ASG: Auto-generate key		
	Login Reports Modem Server Access Surver Access	Re-enter password or key	•••••		
	Syslog Server License File Authentication File Firewall Tripwire	Force password/key change on next login	⊖ Yes ⊛ No		
	Tripwire Commands Install Root Certificate SSH Keys Web Access Mask Media Gateways	Submit Cancel He	-lp		~
	Media Gateways	1 👟			al 🧐 Local intranet

# 4. Configure Avaya Site Administration

This section describes the steps needed to configure Avaya Site Administration to poll the alarms from the Avaya Communication Manager systems.



Step	Description				
3.	Select Network Connection and click Next.				
	Add Voice System				
	How are you connecting the Avaya Site Administration computer to the Voice System?				
	Choose this option if your computer will dial into the Voice System using a modem or data module.				
	C Direct serial port connection				
	Choose this option if your computer will be connected directly to the Voice System via a serial cable.				
	Network connection				
	Choose this option if your computer and your Voice System are connected via a computer network.				
	Connect via ASG Guard 🗖 Is ESS Server				
	Support launching of Avaya SA with parameters				
	Use script file to login				
	C:\Documents and Settings\Administrator\Applic				
	< <u>Back</u> <u>Next</u> > Cancel Help				
4.	Enter the IP address of the first Avaya Server for the field <b>FQDN or IP address</b> and click <b>Next</b> .				
	Network Connection				
	You have indicated that you will be connecting your Avaya Site Administration computer to this Voice System through a computer network				
	Avaya Site Administration must know the "fully qualified domain name" (FQDN) of the Voice System, or its IP address.				
	EQDN or IP address: 10.1.10.10				
	For example, an FQDN might be: computername.department.company.com				
	Optionally, you can enter the IP address. For example: 100.212.123.211				
	If you do not know the FQDN or IP address, ask the people in your organization who set up the Voice System, or the people who set up your computer network.				
	< <u>B</u> ack Next > Cancel Help				

Step	Description			
5.	Check Use SSH and click Next. SSH is enabled by default on the Avaya Server. Click			
	Next on the next screen (not shown) to accept the default values.			
	Add Voice System			
	Network Connection			
	Avaya Site Administration must also know the TCP/IP port number of the Voice System. The port is basically a number for a software program that, when combined with the FQDN or IP address, enables two devices on a network to communicate.			
	Computers commonly use TCP/IP port number 23 for making telnet connections. To use a different port number, enter it below:			
	ICP/IP Port Number: 5022			
	Use SSH Note : SSH is not supported on Modular Messaging Systems			
	If you choose "Use SSH", the manual login option will be disabled for systems other than Generic devices.			
	If you do not know the TCP/IP port number, ask the people in your organization who set up the Voice System, or the people who set up your computer network.			
	< <u>B</u> ack <u>Next</u> > Cancel Help			
6.	Select I want Avaya Site Administration to log me in automatically and click Next.			
	This is required so that the <b>display alarms</b> reports can be scheduled to run at periodic intervals.			
	Add Voice System			
	When you use Avaya Site Administration, each time you perform an activity on the Voice System, it will ask for a login ID and password.			
	Choose the option you want.			
	I want Avaya Site Administration to log me in automatically			
	This option saves you from having to enter a login ID and password every time you need to access this Voice System.			
	However, your Voice System is vulnerable to unauthorized use if anyone manages to gain access to your computer and knows			
	your Avaya SA password. It is the only allowed option if "Support Launching of Avaya SA			
	With Parameters" or "Use script file to login" has been checked			
	C I want to log in <u>manually each time</u>			
	This option protects the Voice System from unauthorized use. However, you will be required to enter a login ID and			
	password every time you perform an action on this Voice System, and it prevents you from scheduling activities to run			
	in your absence.			
I				
	< <u>Back</u> <u>Next&gt;</u> Cancel Help			

Step	Description		
7.	Select <b>Password</b> for <b>Authentication Methods</b> and enter the login created for Eastcom		
	CAMS in Section 3.3 for the fields Login, Password and Password (again). Click Next.		
	On the next screen (not shown), click <b>Next</b> and then click <b>Finish</b> on the summary screen		
	(not shown) to complete the wizard.		
	Add Voice System		
	Authentication:   Authentication Methods:   Password   Password (again)   Pin:   SSH Client Parameters: Key Exchange:   Use Bulk Cipher   Compression:   Deffie_Hellman     AES		
	< <u>B</u> ack Cancel Help		
8.	From the left panel, click <b>Advanced &gt; Report</b> to create the <b>display alarms</b> report.		
	Advarva Site Administration   File Edit Vew System Action Tools Window Help   Image: State Site of the State of the State Site of the State Site of the State Site Site Site Site Site Site Site Si		
	Ready		

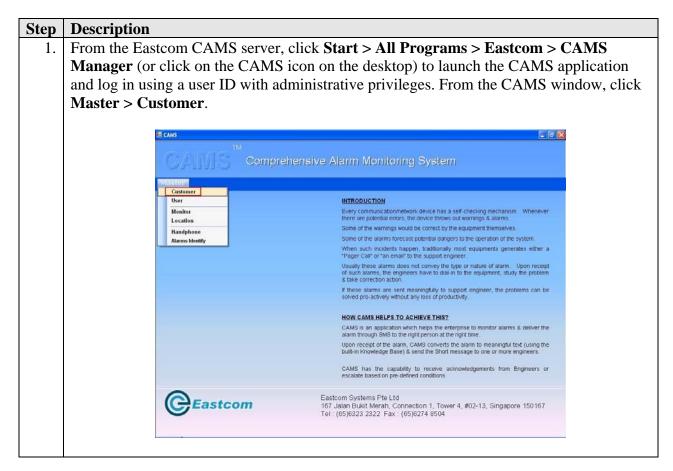
Step	Description
9.	Enter <b>display alarms</b> for <b>Command(s)</b> and select <b>Export screen capture to file</b> . For the
	field <b>Export to file</b> , click '' to input the filename.
	Report Properties
	Command(s):
	display alarms V OK
	C Screen capture to default printer Cancel
	Export screen capture to file
	C Export fields to file
	Export to file:
	C:\Documents and Settings\Administrator\Appli
	Append to existing file? Append Date to filename?
	Append to existing file always?
	Send report output file to e-mail address(es):
	Email Information
	Enter e-mail address(es) to be used for notification.
	Multiple email addresses should be seperated by (;) . For example: person1@domain.com;person2@domain.com
	То:

Step	Description			
10.	In the Open screen, browse to the folder D:\EASTCOM\CAMSPRO\ALARMFILES\			
	and enter the File name in the format <customer id="">_<location id="">_<monitor< th=""></monitor<></location></customer>			
	<b>ID&gt;_<alarm ref#="">.txt</alarm></b> . See Section 5 for the configuration of the fields in Eastcom			
	CAMS. The alarm file will be polled at periodic intervals by Eastcom CAMS. Click			
	Open.			
	Open ? 🔀			
	Look in: 🗁 ALARMFILES 🗸 🗘 🖆 📰 -			
	Look in: Caller ALARMFILES 🚽 🖨 🖆 📰 🗸			
	My Recent			
	Documents			
	Desktop			
	My Documents			
	The booments			
	DevconSP3			
	My Network File name: AVAYA SPD ALARM 1.txt			
	Places			
	Files of type: Data Export (*.txt)			

Step	Description		
12.	At the Scheduler screen, check <b>Frequent</b> for <b>Recurrence Pattern</b> and set the report to		
	run every 10 minutes. Check Disconnect from system after task has been processed so		
	that Avaya Site Administration will not permanently use up a SAT session. Click OK.		
	Leave Avaya Site Administration running so that the reports will be run at the scheduled		
	intervals.		
	Scheduler		
	Start		
	Enter the date and time at which you wish this schedule to commence.		
	Date:   Thursday , November 20, 2008 💌 Time:   5:46:48 PM 芸		
	Recurrence Pattern		
	C Once The task will run at the date and time specified above, and then repeated:		
	© Frequent		
	C Weekly Every 0 hour(s) 10 minute(s)		
	C Monthly		
	Disconnect from system after task has been processed?		
	(OK Cancel Help		
13.	Repeat <b>Step 1</b> to <b>Step 12</b> to configure Avaya Site Administration for the second system at		
	Site B. This completes the creation of the <b>display alarms</b> report.		

# 5. Configure Eastcom CAMS

This section describes the configuration of Eastcom CAMS.



Step	Description				
2.	Enter the customer information in the fields provided. The following fields need to match				
	the configuration for	e configuration for Avaya Site Administration in Section 4 Step 10.			
	Customer Id				
	Alarm File F	Alarm File Folder			
	Click Submit.				
	Customer Mas	ster	Submit Clear Delete Print Help Exit		
		24			
	Customer Id	AVAYA	2		
	Customer Name	AVAYA			
	Contact Person	Mr.Jason			
	Address	Sciense Park	( Drive		
		Plaza By The	e Park,		
	City	Singapore			
	State	Singapore			
	Zip Code	600235			
	Alarm Profile				
	Alarm File Folder				
	Filtered Alarm Fi				
	SMS Feedback	nbox Path	D:\EASTCOM\CAMSPRO		
3.	From the CAMS wind	dow aliak	Master > Monitor (not shown) to create a new monitor		
5.			r Monitor ID and Monitor Name. The field Monitor ID		
			for Avaya Site Administration in Section 4 Step 10.		
		mgaradion			
	Monitor Con	figuration	Submit Clear Delete Print Help Exit		
		-			
	Monitor ID	ALARM			
	Monitor Name	ALARM M	IONITOR		

<b>ustomer ID</b> and click for the
_

Step	Description			
5.	From the CAMS window, information:	click Master > Hand	phone (not shown).	Enter the following
	<ul> <li>Customer ID: Set</li> <li>Location ID: Set to</li> <li>Monitor ID: Set to</li> <li>Escalation Time: Triles to be received the value administer file creation time set file is not received</li> </ul>	et in the Avaya Site A from the Avaya Site A rate and send an SMS	Step 4. Step 3. eld is to monitor the Administration. This 12 or set to 5 or 10 dministration. In the Administration, the C to notify the admini	s should either match minutes later than the e event that the alarm CAMS system will strator.
	Number, User Type and S to two users for the system	Status. In this configu at Site A.	ration, the alarm not	tifications will be sent
	Hand Phone Config		ear Delete Print	Help Exit
	Customer ID AVAYA			
	Location ID SPD		E	
	Monitor ID ALARM			
	Escalation Time 10	(Minutes)		
	Name	Ja	ion	-1
	Mobile Number		5986397	
	User Type	Er	gineer 🔽	
	Status	Ac	tive 💉 Update	Clear Delete
	Name	Mobile Number	UserType	Status
	Hussain	+65906719	Engineer	Active
	Jason	+65986397	Engineer	Active

Step	Description			
6.	From the CAMS windo	w, click Master	r > Alarms ]	Identify (not shown). On this screen,
			WARNING)	) and the text to be sent out are defined
	Enter the following info	rmation:		
				ence. This field needs to match the
		•		n in Section 4 Step 10.
	Description: Pro	-		
	Customer ID: S			-
	Location ID: See			-
	Monitor ID: Set	t to the value de	enned in Ste	ep 5.
	The sections that follow	are customized	l by Eastcor	n engineers for each customer
			•	his configuration, any major alarms for
				on to the engineers defined in <b>Step 5</b> .
	Multiple alarm types ca	00		<b>e i</b>
	Alarms Identify	Subm	it Clear	Delete Print Help Exit
			107	
	Alarm/Error Ref#			
	Description	AVAYA MAJOR ALA		
	Customer ID	AVAYA	AVAYA	
	Location ID	SPD	SINGAPO	DRE
	Monitor ID	ALARM	2	
	Condition to identif	y the Alarm / Error	r from the devic	ice Log
		art End nit Dinit Value		Condition
	Condition 1 38	8 MAJOR		Lone
	Condition 1			
	Engineer Alarm / E	rror Notification T	ext from the de	evice Log
	Description	Start End Co	ondition Code	Remarks
	Alarm Text 1	Digit Digit <sup>La</sup> 1 7 AN		
	Alarm Text 2	12 11 AN		
	Alarm Text 3	29 8 AN		
	Alarm Text A	59 0 AN		~
		58 11 1		

# 6. Interoperability Compliance Testing

The interoperability compliance testing included feature and serviceability testing. The feature testing evaluated the ability of Eastcom CAMS to process the alarm reports retrieved by Avaya Site Administration and send out the alarms to the assigned users. The serviceability test introduced failure scenarios to see if Eastcom CAMS can resume operation after failure recovery.

#### 6.1. General Test Approach

The general test approach was to manually cause various types of alarms to occur on the Avaya Communication Manager systems, and verify that Eastcom CAMS sends out the alarms accurately to the assigned users. For serviceability testing, the network connection on the Eastcom CAMS server was disconnected, and the Avaya S8500 servers and Eastcom CAMS server were also rebooted.

#### 6.2. Test Results

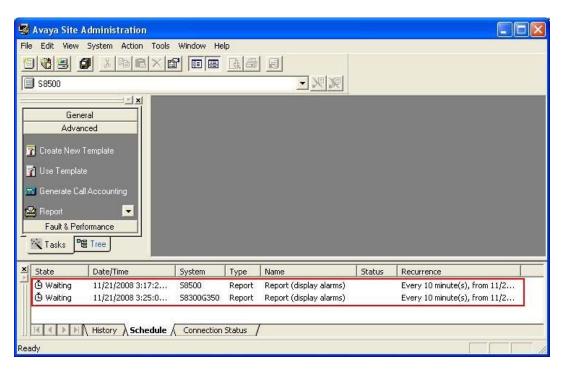
All feature and serviceability tests passed.

# 7. Verification Steps

The following steps may be used to verify the configuration:

#### 7.1. Verify Avaya Site Administration

In the **Schedule** tab at the bottom of the window, verify that the **display alarms** report is scheduled to run at the required interval.



#### 7.2. Verify Eastcom CAMS

In the CAMS window, verify that the alarm reports from Avaya Site Administration are being processed. Verify that the assigned users received the alarm notifications on their mobile phones as SMS when there are alarms on the Avaya Communication Manager systems.

FileName           AVAYA_S8300_ALARM_1 txt           AVAYA_SPD_ALARM_1 txt           AVAYA_SS300_ALARM_1.txt           AVAYA_SS300_ALARM_1.txt	Date 19/08/2008 1:15 PM	Process End Date 19/08/2008 1:15 PM 19/08/2008 1:15 PM 19/08/2008 1:17 PM	Location \$8300 \$8500	Alarm	Error 🔶
AVAYA_SPD_ALARM_1.txt AVAYA_S8300_ALARM_1.txt	19/08/2008 1:15 PM	19/08/2008 1:15 PM		•	
AVAYA_S8300_ALARM_1.txt					
	19/08/2008 1:17 PM	19/08/2008 1:17 PM			
AVAYA_SPD_ALARM_1.txt					
	19/08/2008 1:18 PM	19/08/2008 1:18 PM			
AVAYA_S8300_ALARM_1.txt	19/08/2008 1:19 PM	19/08/2008 1:19 PM			
AVAYA_S8300_ALARM_1.txt	19/08/2008 1:21 PM	19/08/2008 1:21 PM			
AVAYA_SPD_ALARM_1.txt	19/08/2008 1:21 PM	19/08/2008 1:21 PM			
AVAYA_S8300_ALARM_1.txt	19/08/2008 1:25 PM	19/08/2008 1:25 PM			
AVAYA_SPD_ALARM_1.txt	19/08/2008 1:27 PM	19/08/2008 1:27 PM			
AWAYA COOM ALARM 1 M	19/00/2000 1-27 PM	19/09/2009 1-27 DM			
FileName	Process Start Date	Process End Date			
	- Duto	Dute			
	AVAYA_SPD_ALARM_1.txt AVAYA_S8300_ALARM_1.txt AVAYA_SPD_ALARM_1.txt AVAYA_SPD_ALARM_1.txt	AVAYA_SPD_ALARM_1.txt 19/08/2008 1:21 PM AVAYA_S6300_ALARM_1.txt 19/08/2008 1:25 PM AVAYA_SPD_ALARM_1.txt 19/08/2008 1:27 PM AVAYA_SPD_ALARM_1.txt 19/08/2008 1:27 PM	AVAYA_SPD_ALARM_1.bt 19/08/2008 1:21 PM 19/08/2008 1:21 PM AVAYA_S8300_ALARM_1.bt 19/08/2008 1:25 PM 19/08/2008 1:25 PM 19/08/2008 1:25 PM 19/08/2008 1:27 PM 19/08/2	AVAYA_SPD_ALARM_1.txt         19/08/2008 1:21 PM         19/08/2008 1:21 PM           AVAYA_S8300_ALARM_1.txt         19/08/2008 1:25 PM         19/08/2008 1:25 PM           AVAYA_SPD_ALARM_1.txt         19/08/2008 1:27 PM         19/08/2008 1:27 PM	AVAYA_SPD_ALARM_1.txt         19/08/2008 1:21 PM         19/08/2008 1:21 PM           AVAYA_S8300_ALARM_1.txt         19/08/2008 1:25 PM         19/08/2008 1:25 PM           AVAYA_SPD_ALARM_1.txt         19/08/2008 1:27 PM         19/08/2008 1:27 PM           AVAYA_SPD_ALARM_1.txt         19/09/2008 1:27 PM         19/08/2008 1:27 PM           AVAYA_SPD_ALARM_1.txt         19/09/2008 1:27 PM         19/09/2008 1:27 PM

# 8. Support

Technical support for Eastcom CAMS can be obtained by contacting Eastcom's Support Desk at +65 63232822, or sending an e-mail to <u>support@eastcom-systems.com</u>.

# 9. Conclusion

These Application Notes describe the procedures for configuring the Eastcom CAMS to interoperate with Avaya Communication Manager. Eastcom CAMS successfully passed the compliance testing.

#### 10. 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] *Administrator Guide for Avaya Communication Manager*, Release 5.0, Issue 4.0, January 2008, Document Number 03-300509.

[2] Avaya Site Administration Reference, Issue 5, June 2008, Document Number 14-300610.

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