

Avaya Solution & Interoperability Test Lab

Application Notes for Resource Software International Shadow Onsite Notification Version 5.3 with Avaya Aura® Communication Manager Release 8.1 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Resource Software International Shadow Onsite Notification to interoperate with Avaya Aura Communication Manager.

Resource Software International Shadow Onsite Notification is an E911 notification solution that uses Properties Management System and System Access Terminal interfaces from Avaya Aura® Communication Manager, to provide monitoring and notification of emergency calls.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as any 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

These Application Notes describe the configuration steps required for Resource Software International (RSI) Shadow Onsite Notification (OSN) 5.3.5 to interoperate with Avaya Aura® Communication Manager 8.1.3.

Shadow OSN is an E911 notification solution that uses the Properties Management System (PMS) interface from Communication Manager to monitor Crisis Alert emergency calls via the PMS journal printer, and uses the RSI Winlink Remote BCMS application that interfaces with Communication Manager via System Access Terminal (SAT) to obtain station location information such as building, floor, and room associated with the emergency caller.

In the compliance test, simulated 911 emergency was configured via SIP trunk through Avaya Session Border Controller for Enterprise.

The Shadow OSN software is for use with Communication Manager telephone system with the Crisis Alert feature to be configured. The Shadow OSN product adds Onsite Notification event generation to the telephone system. This feature when active will generate and deliver notification messages for emergency call events. The notification messages can be delivered via email, email to SMS, or to a network computer utilizing Windows popup/network messages. Note that only email method was used during the testing.

2. General Test Approach and Test Results

The feature test cases were performed both automatically and manually. Upon start of the Shadow OSN application, the application automatically connects to an assigned port of PMS and obtains list of station in Communication Manager through SAT.

For the manual part of the testing, emergency calls were placed manually from the enterprise station to the emulated PSTN.

The serviceability test cases were performed manually by disconnecting and reconnecting the Ethernet connection to the Shadow OSN server.

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.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in this DevConnect Application Note included the enablement of supported encryption capabilities in the Avaya

products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with this Application Note, the interface between Avaya systems and the Shadow OSN did not include use of any specific encryption features as requested by RSI.

This solution uses the System Access Terminal (SAT) interface to interact with Avaya Aura® Communication Manager or the Telnet/SSH interface to interact with other Avaya products. While this solution has successfully completed Compliance Testing for the specific release levels as described in these Application Notes, Avaya does not generally recommend use of these interfaces as a programmatic approach to integration of 3rd party applications. Avaya may make changes or enhancements to the interfaces in any subsequent release, feature pack, service pack, or patch that may impact the interoperability of 3rd party applications using these interfaces. Using these interfaces in a programmatic manner may also result in a variety of operational issues, including performance impacts to the Avaya solution. If there are no other programmatic options available to obtain the required data or functionality, Avaya recommends that 3rd party applications only be executed during low call volume periods, and that real-time delays be inserted between each command execution. NOTE: The scope of the compliance testing activities reflected in these Application Notes explicitly did not include load or performance evaluation criteria, and no guarantees or assurances are made by Avaya that the 3rd party application has implemented these recommendations. The vendor of the 3rd party application using this interface remains solely responsible for verifying interoperability with all later Avaya Product Releases, including feature packs, service packs, and patches as issued by Avaya. For additional details see Avaya Product Support Notices PSN002884u, PSN005085u, and PSN020295u, available at www.avaya.com/support.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing. The feature testing focused on verifying the following on Shadow OSN:

- Proper handling of Crisis Alert emergency call log record via PMS journal printer
- Proper obtainment of emergency callers' location related information via SAT
- Proper delivering of emergency call notification to desired mailboxes via email

The serviceability testing focused on verifying the ability of Shadow OSN to recover from adverse conditions, such as disconnecting/reconnecting the Ethernet connection to the Shadow OSN server.

2.2. Test Results

All test cases were executed and completed successfully.

2.3. Support

Technical support on Shadow OSN can be obtained through the following:

- **Phone:** (800) 891-6014
- Email: <u>support@telecost.com</u>
- Web: <u>www.telecost.com</u>

3. Reference Configuration

As shown in **Figure 1**, RSI Shadow OSN server connects to Communication Manager through Properties Management System (PMS). The testing utilizes simulated 911 emergency configured via SIP trunk through Avaya Session Border Controller for Enterprise.



Figure 1: Compliance Testing Configuration

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya	
Avaya Aura® Communication Manager running	813
on	(8,1,3,0,0,890,26568)
Virtual Environment	(0.1.5.0.0.090.20500)
Avaya G450 Media Gateway	41.34.0
Avaya Aura® Media Server running on	8.0.1
Virtual Environment	8.0.1
Avaya Aura® Session Manager running on	8.1.3
Virtual Environment	(8.1.3.0.813014)
Avaya Aura® System Manager running on	8.1.3
Virtual Environment	(8.1.3.0.1011784)
Avaya Aura® Session Border Controller for	8.1.1
Enterprise running on Virtual Environment	(8.1.1.0-26-19214)
Avaya 9611G IP Deskphone (H.323)	6.8304
Avaya J189 IP Deskphone (SIP)	4.0.7.1.5
Avaya 9408 Digital Deskphone	20.6
RSI Shadow OSN/CMS	5.3.5.0
RSI Winlink Remote BCMS application	1.1.1.0

5. Configure Avaya Aura® Communication Manager

This section provides the procedures for configuring Communication Manager.

5.1. Configure Server Access

From a web browser, use the http://<ip-address>, where ip-address is the IP address of Communication Manager URL to access System Management Interface for Communication Manager. Log in using appropriate credentials.

AVAYA	Avaya Aura [®] Communication Manager (C System Management Interface (S	М) мі)
Help Log Off		
	This Server: intero	pcm
	Logon ID:	
		~
	© 2001-2020 Avaya Inc. All Rights Reserved.	

Navigate to Administration / Server (Maintenance) \rightarrow Security \rightarrow Server Access and ensure that the SAT over SSH (5022) is enabled. This is the port that Shadow OSN will connect to Communication Manager to collect the required station information.



Add a username for the Shadow OSN to connect to Communication Manager via SAT to obtain the station location information.

Create a user account on Communication Manager by navigating to the **Administer Accounts** page under **Security** from the left-hand pane and selecting the radio button **Add Login** and **Privileged Administrator**. Click **Submit** to continue.

Αναγα	Avaya Aura [®] Communicat System Manag	tion Manager (CM) gement Interface (SMI)
Help Log Off	Administration	
Administration / Server (Maintenance)		This Server: interopcm
NTP Configuration NTP Configuration Genver Upgrades IPSI Firmware Upgrades IPSI Version Download IPSI Firmware Download IPSI Firmware Download Status Activate IPSI Upgrade Activate IPSI Upgrade Activate IPSI Upgrade Activate IPSI Upgrade Schedule Backup Backup New Backup Platory Schedule Backup Backup Instory Schedule Backup Backup Instory Schedule Backup Backup Instory Schedule Backup Backup Instory Sceurity Administrator Accounts Login Reports Server Log Files Firewall Install Root Certificate Trusted Certificates Server/Application Certificates Certificate Alarms Certificate Signing Request SSH Keys	Administrator Accounts The Administrator Accounts SMI pages allow you to add, delete, or change administrator logins and L Select Action: Add Login Privileged Administrator Unprivileged Administrator SAT Access Only Web Access Only CDR Access Only Business Partner Login (dadmin) Business Partner Craft Login Custom Login Change Login Select Login Lock/Unlock Login Select Login Add Group Remove Group Select Group Select Group 	inux groups.
Web Access Mask Miscellaneous	Submit Help	-

The Administrator Accounts -- Add Login screen is displayed. Enter a name to the Login name field and enter desired password. Select **Submit** to save the change.

Help Log Off	Administration		
Administration / Server (Maintenance)			This Server: interopcm
NTP Configuration A Server Upgrades	Administrator Accounts	Add Login: Privileged Adn	ninistrator
Manage Updates IPSI Firmware Upgrades IPSI Version	This page allows you to add a login th system next to root.	nat is a member of the SUSERS group. This	login has the greatest access privileges in the
Download IPSI Firmware Download Status	Login name	shadow	1
Activate IPSI Upgrade Activation Status	Primary group	susers]
Data Backup/Restore Backup Now Backup History	Additional groups (profile)	prof18 🗸	
Schedule Backup	Linux shell	/bin/bash	
Backup Logs View/Restore Data	Home directory	/var/home/shadow	
Restore History	Lock this account		
Administrator Accounts Login Account Policy	SAT Limit	none V	
Change Password Login Reports	Date after which account is disabled-blank to ignore (YYYY-MM-DD)		
Server Access Server Log Files Firewall	Enter password	•••••]
Install Root Certificate Trusted Certificates	Re-enter password	•••••]
Server/Application Certificates Certificate Alarms	Force password change on next login	No No	
Certificate Signing Request		∪ Yes	
Web Access Mask			
Miscellaneous	Submit Cancel Help		-

5.2. Verify License

The following configuration in Communication Manager was performed using the System Access Terminal (SAT).

Log in to the System Access Terminal to verify that the Communication Manager license has proper permissions for features illustrated in these Application Notes. Use the "display system-parameters customer-options" command to verify that the **Hospitality (Basic)** and **Hospitality (G3V3 Enhancements)** customer option is set to "y" on **Page 5**. If this option is not set to "y", then contact the Avaya sales team or business partner for a proper license file.

display system-parameters customer	-optior	ns Pag	e 5 of	12
OP	TIONAL	FEATURES		
Emergency Access to Attendant?	У	IP	Stations	? y
Enable 'dadmin' Login?	У			
Enhanced Conferencing?	У	ISDN Fea	ture Plus	? n
Enhanced EC500?	У	ISDN/SIP Network Call Re	direction	y?
Enterprise Survivable Server?	n	ISDN-B	RI Trunks	?у
Enterprise Wide Licensing? 1	n		ISDN-PRI	?у
ESS Administration?	У	Local Survivable	Processor	? n
Extended Cvg/Fwd Admin?	У	Malicious C	all Trace	e? y
External Device Alarm Admin?	У	Media Encryptio	n Over IB	?? у
Five Port Networks Max Per MCC? 1	n M	Node Code for Centralized V	oice Mail	? n
Flexible Billing? 1	n			
Forced Entry of Account Codes?	У	Multifrequency	Signaling	ls à
Global Call Classification?	У	Multimedia Call Handlin	g (Basic)	?у
Hospitality (Basic)?	У	Multimedia Call Handling (Enhanced)	?у
Hospitality (G3V3 Enhancements)?	У	Multimedia IP SIP	Trunking	ls à
IP Trunks?	У			
IP Attendant Consoles?	У			
(NOTE: You must logoff & lo	ogin to	effect the permission cha	nges.)	

5.3. Configure Site Data

The following configuration in Communication Manager was performed using the System Access Terminal (SAT).

To configure specific building codes and floor information for a site, use **change site-data** command. On **Page 1**, add entries for building fields. For example, two entries of **AA1** and **AA2** were added. On **Page 3**, add entries for floor fields. For example, one entry of **AA1-F1** and **AA2-F1** were added.

```
change site-data Page 1 of 4
SITE DATA USER DEFINITION
VALID BUILDING FIELDS
AA1
AA2
```

change site-data			age	3 of	4
	SITE DATA USER	DEFINITION			
	VALID FLOOR	FIELDS			
AA1-F1					
AA2-F1					

5.4. Configure Station

Use **add station n** command to add a station, where **n** is an available station extension. This station is a sample station that was used during compliance testing to dial emergency calls. Configure the station as follows, on **Page 1**:

- In **Name** field, enter a descriptive name.
- Set **Type** to the type of the telephones.
- Enter a **Security Code**.

add station 3301		Page	1 of	6
		STATION		
Extension: 3301		Lock Messages? n	BCC	: 0
Type: 9641		Security Code: *	TN	: 1
Port: S000011		COR:	1	
Name: H323-3301		COS	: 15	
Unicode Name? n		Hunt-to Station:	Tests	? У
STATION OPTIONS				
		Time of Day Lock Table:		
Loss Group:	19	Personalized Ringing Pattern: 1		
		Message Lamp Ext: 3301		
Speakerphone:	2-way	Mute Button Enabled? y		
Display Language:	english	Button Modules: 1		
Survivable GK Node Name:	lsp			
Survivable COR:	internal	Media Complex Ext:		
Survivable Trunk Dest?	У	IP SoftPhone? y		
		IP Video Softphone? n		
	Short	/Prefixed Registration Allowed: d	lefault	

One Page 4, enter the site data information, as shown below. The floor and building information are configured based on the information configured previously.

add station 3301		P	age	4 0	of	6
	STA	TION				
SITE DATA						
Room: Ottawa		Headse	et? n			
Jack: J3301		Speake	er? n			
Cable: C-H32		Mountin	ig: d			
Floor: AA1-F1		Cord Lengt	h: 0			
Building: AA1		Set Cold	or:			
ABBREVIATED DIALING						
List1:	List2:	List3	3:			
BUTTON ASSIGNMENTS						
1:call-appr		5:manual-in	Grp:			
2:call-appr		6:after-call	Grp:			

KP; Reviewed: SPOC 8/5/2021

Solution & Interoperability Test Lab Application Notes ©2021 Avaya Inc. All Rights Reserved. 12 of 25 ShadowOSN-CM81

5.5. Configure Crisis Alert

Use change **system-parameters crisis-alert** command and set **Every User Responds** to **y**. Note that the parameter "**Every User Responds**?" is enabled or not, the crisis alert is still sent out as user places an emergency call, during the testing the configuration was enabled.

```
change system-parameters crisis-alert Page 1 of 1
CRISIS ALERT SYSTEM PARAMETERS
ALERT STATION
Every User Responds? y
ALERT PAGER
Alert Pager? n
```

5.6. Administer IP Node Names

Use the **change node-names ip** command to create a new node name for the server running **Shadow OSN**. This node name is associated with the IP address of the server. In the sample configuration **ShadowOSN** was used for the name and **10.33.100.51** was used for the IP address. Also, take note of the node name **procr**. It will be used in the next step. The **procr** entry on this form was previously administered.

```
      change node-names ip
      Page
      1 of
      2

      IP NODE NAMES

      Name
      IP Address

      AMS1
      10.33.1.30

      CMS19
      10.33.1.18

      procr
      10.33.1.6

      ShadowOSN
      10.33.100.51
```

5.7. Configure PMS_JOURNAL Port

Use the **change ip-services command** to define the **PMS_JOURNAL** service on Communication Manager. Shadow OSN will listen on this port to capture any emergency alerts that will be generated by Communication Manager. To define a PMS_JOURNAL service, provide the following information:

- Service Type: PMS_JOURNAL
- Local Node: procr, that is the processor Ethernet of Communication Manager.
- Local Port: 0
- Remote Node: ShadowOSN
- **Remote Port**: **8901**, the remote port may be set to a value between 5000 and 64500 inclusive, and must match the port configured in Shadow OSN.

change ip-se	rvices				Page	1 of	4
			IP SERVICES				
Service	Enabled	Local	Local	Remote	Remote	TL	S

KP; Reviewed: SPOC 8/5/2021

Solution & Interoperability Test Lab Application Notes ©2021 Avaya Inc. All Rights Reserved. 13 of 25 ShadowOSN-CM81

Туре	Node	Port	Node	Port		
Encryption						
PMS_JOURNAL	procr	0	ShadowOSN	8901		
For this solution the Reliable Session Protocol (RSP) is not used. On Page 3 of the ip-services						
form, set the Reliable Protocol field to n .						

change ip-ser	rvices				Page 3 of	4
		SESSION	I LAYER TIMERS			
Service Type	Reliable Protocol	Packet Resp Timer	Session Connect Message Cntr	SPDU Cntr	Connectivity Timer	
PMS JOURNAL	n	30	3	3	60	

5.8. Configure Hospitality

Use change system-parameters hospitality command to assign the PMS_JOURNAL configured in **Section 5.6** to **Journal/Schedule Endpoint** field as shown below.

```
change system-parameters hospitality
HOSPITALITY
Message Waiting Configuration: act-nopms
Controlled Restrictions Configuration: act-nopms
Housekeeper Information Configuration: act-nopms
Number of Housekeeper ID Digits: 2
PMS Log Endpoint:
Journal/Schedule Endpoint: PMS_JOURNAL
Client Room Coverage Path Configuration: act-nopms
Default Coverage Path for Client Rooms:
Forward PMS Messages to Intuity Lodging? n
```

5.9. Configure ARS Routing

Use the **change ars analysis 911** command to configure 911 calls to route them appropriately and enable crisis alerts. The following configuration shows that when 911 is dialed, the call is routed over route pattern 3 and a crisis alert is generated by Communication Manager.

- Set **Dialed String** to **911**.
- Set **Total Min** and **Max** to **3**.
- Set **Route Pattern** to a valid pattern that is already configured in Communication Manager to route correctly to PSTN.
- Set Call Type to alrt.

change are analysis 911						Page	1 of	2
change and analysis fil						Lage	I UI	2
	A	RS DI	GIT ANALYS	SIS TABI	LΕ			
			Location	211		Parcent	Full.	1
			nocación.	all		Tercenc	rurr.	1
Dialed	Tot	al	Route	Call	Node	ANT		
214104			1100.00	0411	1.0 0.0			
String	Min	Max	Pattern	Type	Num	Reqd		
911	3	3	3	alrt		n		
711	•	-	-	4110				
*08	10	15	8	pubu		n		

KP; Reviewed: SPOC 8/5/2021

Solution & Interoperability Test Lab Application Notes ©2021 Avaya Inc. All Rights Reserved. 14 of 25 ShadowOSN-CM81

6. Configure RSI Shadow Onsite Notification

This section provides the procedures for configuring and testing the Shadow OSN software to capture Avaya Crisis Alert data and generate the user specified alert notifications. The procedures include the following areas:

- Configure Winlink Remote BCMS
- Configure Shadow WinLink to capture crisis alerts
- Configure Shadow OSN to generate 911 Alert Notifications

6.1. Configure Winlink Remote BCMS

Using the Winlink Remote BCMS application to establish a SSH connection to Communication Manager to obtain station's location information.

Launch the Winlink Remote BCMS application from the menu **Start** (not shown), the **Winlink Remote BCMS** application displays. Select the **Properties** button (not shown), the **Properties** window displays. Select **Connect** tab, enter the IP address of Communication Manager in the **Enter IP Address (or Name)** field and select option **Connect via SAT console**.

Properties	_		\times
General Connect Login Retrieval Advanced Pe	rsonnel Atten	dant Licer	nse
Enter IP Address (or Name):			
10.33.1.6			
Connect via SMS server			
Connect via SAT console			
	OK	Can	cel

Continue to select the **Login** tab, enter the username configured in **Section 5.1** and its password in the **Login** and **Password** fields and leave other tabs at default.

Properties	_		Х
General Connect Login Retrieval Advanced Personn	el Attenda	ant Licens	se
Authentication			
Secure Password			
Login: shadow			
Password:			
	ОК	Canc	el

Select the **Personnel** tab, in the **Personnel Retrieval** section select the **Retrieve personnel information** check box and point to a text file by selecting the **Browse** button, the original text file is a blank file and, the station location will be saved later as the Winlink application makes a connection to Communication Manager via SAT and pull out all station location s and save it to the text file and then will be used for the crisis alert. In the **Log Extension Types** section, select **Station User** and **Attendant User** check boxes. Note that the **Attendant User** check box is selected during the testing, depends on customer's system the other check boxes can be selected.

Select **OK** to save changes.

Properties			_		\times	
General Connect Logi	n Retrieval Advar	nced Personnel	Attenda	nt Licen	se	
Personnel Retrieval						
Retrieve personnel	Retrieve personnel information					
Personnel Data C:\ProgramData\WebCMS\EntityFiles\0001\RAWv Browse						
Log Extension Types						
Agent Login ID	CTI Link	Station Us	er			
Attendant User	Hunt Group	VDN Exter	ision			
		(ок	Cano	el	

Select **Connect** to start connecting to Communication Manager to obtain the station location information. Note that the Winlink application is configured to pull out the location based on schedule and manually depending on the customer need.

Winlink Remote BCMS	- 🗆 X
Avaya BCMS I	Data Collector
Profile Name: 0001	_
Connect St	top Properties
Connect Si	top Properties

The station location information is saved under filename "0001_AVAYA_CM_BCMS_personnel.RAW" and in the path below.



Open the filename "0001_AVAYA_CM_BCMS_personnel.RAW", the station location information of all stations is successfully obtained as highlighted and shown in the screenshot below.



6.2. Configure WinLink to Capture Crisis Alerts

Launch Winlink and configure it to be socket listener on PMS_JOURNAL port configured previously (port 8901 in this example in **Section 5.7**.

WinLink Configuration (2.4.2.3)		_		×
🤱 🎗 Add Location 🛛 🚠 Add Destinatio	n 🗙 Delete Source 🖯 Restart Connection 👳 Add Application N	Aonitor Service	Ŧ	0
Overview	Avaya Crisis Alert		Main Locatio	n ^
Avaya Chsis Alert	Name: Avaya Crisis Alert			
🔤 💀 Shadow CMS Service				
	Connection Settings			
	IP: 0.0.0.0 Port:	8901		
	Inactivity (ms): 3000 Protocol:	TCP	~	7
				-
	Live Data View Debug			
	EAT 06/19/21 10:14 3301 attendant cr	risis alert ar	s attd (A	
	EAT 06/19/21 10:20 3402 attendant cr EAT 06/19/21 10:20 3401 attendant cr	risis alert ar risis alert ar	s attd (s attd (
	EAT 06/19/21 10:25 3400 attendant cr	risis alert ar	s attd (
	EAT 06/22/21 21:26 3301 attendant cr EAT 06/26/21 09:01 3301 attendant cr	risis alert ar risis alert ar	s attd (
			5 2002 (
			Ť.	×

6.3. Configure Shadow OSN to Generate 911 Alert Notifications

Access to the Shadow OSN web interface by entering the IP address of Shadow OSN in the internet browser. Enter credentials to login.

RSI Shadow CMS Logon Page	× +	• -
\leftrightarrow \rightarrow C \blacktriangle Not secure	10.33.100.51:81/login.aspx?ReturnUrl=%2findex.html	२ ☆ ≗
	Username admin Password Your 30 day trial has expired.	

From the homepage, navigate to Home \rightarrow System Configuration \rightarrow Alert Configuration and press the Add Alert button and create an alert for Crisis Alert emergency calls. The name of the alert can be anything. It strongly recommends a descriptive name that clearly identifies the type of alert. The example below depicts this alert defined as "911".

S	adow	₩ [↓]	0 2		PEntity RSI	[0001]	~	Admin
»	×							
*	Home > System Configuratio	n > Alert Configurati	ion					
ß	Alerts Configuration	ı						
	Alert Conditions							^
7	🔂 Add Alert 🕒 Delete Alert	Property 📿 Refresh	1					
A	Name	Туре						Status
~	911	Real-Time						Enabled
Ф.								
~								
	Alert Notifications							~
	Add Notification	Notification	C Refresh					
	Name	Туре	Description					Status
	Email	Email	Emergency call dia	aled on {DATE} at {	TIME} from {EXTENS	ON} to {NUMBER} Locat	ion: {LOCATION	Enabled

KP; Reviewed: SPOC 8/5/2021

Solution & Interoperability Test Lab Application Notes ©2021 Avaya Inc. All Rights Reserved. Press the **Add Notification** button to specify the type of alerts to be generated and the corresponding alert recipients. Possible Alert types are as follows:

- 1. Email
- 2. RSI Shadow Notifier (Desktop) popup message to Windows based computer
- 3. Ring Central Slip
- 4. Ring Central SMS
- 5. Ring Central Voice Call
- 6. Microsoft Teams Meeting Room
- 7. Avaya Set Notification

Notification Settings	:	×
- Notification Setti	ngs	
Type	Email V	
Enabled	Email RSI Shadow Notifier (Desktop)	
Email Settings	RingCentral Glip	
То	RingCentral SMS	
cc	RingCentral Voice Call Microsoft Teams	
Subject	Avaya Set Notification	

During the testing, the **Email** type was used as the notification alert.

Repeat the above steps to create as many alert notification methods and recipients as required.

Notificati	on Settings ×
Notific	ation Settings
Name	Email
Type	Email
Enable	d 🔽
Email	Settings
То	phamk@avaya.com
CC	sginter@telecost.com
Subjec	t 911 Alert
	Right-click to insert placeholder.
Body	Emergency call dialed on {DATE} at {TIME} from {EXTENSION} to {NUMBER} Location: {LOCATION}
	Right-click to insert placeholder.
	OK Cancel

Solution & Interoperability Test Lab Application Notes ©2021 Avaya Inc. All Rights Reserved.

7. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Communication Manager and Shadow OSN.

7.1. Verify Emergency Alerts via SAT

Use the list emergency command to verify the alerts that were generated by Communication Manager as shown below:

list emergency			
	EMERGENCY ACCESS	CALLS	
Caller	Event	Type of Call	Date Time mm/dd/vv
3301	attd crisis alert	ars alrt call type	07/02/21 11:39 A
3401	attd crisis alert	ars alrt call type	07/02/21 11:39 A
3402	attd crisis alert	ars alrt call type	07/02/21 11:39 A
3302	attd crisis alert	ars alrt call type	07/02/21 11:40 A

7.2. Test Shadow WinLink

View the WinLink user interface to confirm the WinLink application captured the Crisis Alert data generated by Communication Manger for the Crisis Alert emergency test call. The WinLink screen should display information similar to the text shown below.

WinLink Configuration (2.4.2 9 Add Location - Add Dest	2.3) instion 🗙 Delete Source 🙃 Rest	art Connection 🔤 Add Applics	tion Monitor Servi	>
Overview	Avaya Crisis Alert			Main Location
Main Location Avaya Crisis Alert Avaya Crisis Alert Data File Backup File Shadow CMS Service	Name: Connection Type:	Avaya Crisis Alert Generic - Socket Listener		
	Connection Settings			
	IP: 10.33.100	51 Port:	8901	
	Inactivity (ms): 3000	Protocol:	TCP	~
	Live Data View Debug			
	EAT 06/19/21 10:14	3301 attendant	crisis alert ar	s attd (A
	EAT 06/19/21 10:20	3402 attendant	crisis alert ar	s attd (
	EAT 06/19/21 10:20	3401 attendant	crisis alert ar	s attd (
	EAT 06/22/21 21-26	3201 attendant	crisis alert ar	s attd (
	EAT 06/26/21 09:01	3301 attendant	crisis alert ar	s attd (
	EAT 07/02/21 11:39	3301 attendant	crisis alert ar	s attd (
	EAT 07/02/21 11:39	3401 attendant	crisis alert ar	s attd (
	EAT 07/02/21 11:39	3402 attendant	crisis alert ar	s attd (
	FAT 07/02/21 11-40	3302 attendant	oricie slart ar	a stty /
				×

KP; Reviewed: SPOC 8/5/2021 Solution & Interoperability Test Lab Application Notes ©2021 Avaya Inc. All Rights Reserved.

7.3. Confirm the Alert Notifications were delivered to the Recipients

If the email notification is configured, the alert message will be delivered to the inbox and it looks similar to the following.

[Exter	nal]911 Alert					
i	Label: Exchange Retention (2 years) Expires: Sun 7/2/2023 1:40 PM					Î
R	rsicloud@gmail.com Fri 7/2/2021 1:40 PM To: Pham, Khanh (Khanh) **CTR** Cc: sginter@telecost.com [External Sender] Emergency call dialed on 7/2/2021 at 11:40:00 AM from H323 3302 (3302) to 911 Location: Building: AA1, Floor: AA1-F1, Room: 2	4	5	"	\rightarrow	
	Reply Reply all Forward					

8. Conclusion

These Application Notes describe the configuration steps required for RSI Shadow OSN 5.3.5 to successfully interoperate with Avaya Aura® Communication Manager 8.1.3. All feature and serviceability test cases were completed in **Section 2.2**.

9. Additional References

This section references the product documentation relevant to these Application Notes.

This section references the documentation relevant to these Application Notes. Product documentation for Avaya, including the following, is available at: <u>http://support.avaya.com/</u>

- [1] Administering Avaya Aura® Communication Manager (Release 8.1.3, Issue 5, February 2020)
- [2] Administering Network Connectivity on Avaya Aura® Communication Manager (Release 8.1.3, Issue 2, August 2020), 555-233-504
- [3] Avaya Aura® Communication Manager Feature Description and Implementation (Release 8.1.3, Issue 4, January 2020)

©2021 Avaya Inc. All Rights Reserved.

Avaya and the Avaya Logo are trademarks of Avaya Inc. All trademarks identified by \mathbb{R} and \mathbb{T} M are registered trademarks or trademarks, respectively, of Avaya Inc. All other trademarks are the property of their respective owners. The information provided in these Application Notes is subject to change without notice. The configurations, technical data, and recommendations provided in these Application Notes are believed to be accurate and dependable, but are presented without express or implied warranty. Users are responsible for their application of any products specified in these Application Notes.

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>.