

Avaya Solution & Interoperability Test Lab

# Application Notes for Configuring 911 Enable Emergency Gateway and Emergency Routing Service with Avaya Aura® Communication Manager R6.2, Avaya one-X® Desk Phones and Avaya one-X® Communicator– Issue 1.2

## Abstract

These Application Notes describe the procedures for configuring the 911 Enable Emergency Gateway and Emergency Routing Service with Avaya Aura® Communication Manager R6.2 and Avaya one-X® Desk Phones.

The 911 Enable Emergency Gateway and Emergency Routing Service offer E911 call routing and location provisioning solution for enterprises using both legacy and IP phone deployments. Avaya Aura® Communication Manager connects to the Emergency Gateway via an H.323 trunk and the Emergency Gateway connects to the public Internet to access the Emergency Routing Service. The compliance testing focused on placing 911 calls from Avaya one-X® Desk Phones connected to different network equipment to verify that their location and callback number could be properly determined.

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 procedures for configuring the 911 Enable Emergency Gateway (EGW) and Emergency Routing Service (ERS) with Avaya Aura® Communication Manager and Avaya one-X® Desk Phones.

The 911 Enable Emergency Gateway and Emergency Routing Service offers an E911 call routing and location provisioning solution for enterprises using both legacy and IP phone deployments. Avaya Aura® Communication Manager connects to the Emergency Gateway via an H.323 trunk and the Emergency Gateway connects to the public Internet to access the Emergency Routing Service. The compliance testing focused on placing 911 calls from various endpoint types connected to different network equipment to verify that their location and callback number could be properly determined.

## 2. General Test Approach and Test Results

This section describes the compliance testing used to verify the interoperability of the EGW and ERS with Communication Manager. This section covers the general test approach and the test results.

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

## 2.1. Interoperability Compliance Testing

The following features and functionality of the EGW were tested.

- Layer 2 discovery from supported layer 2 switches.
- Layer 3 discovery of Avaya one-X® Desk Phones that support the PUSH API.
- Layer 3 discovery of Avaya one-X® Communicator when used with 911 Enable E911 Softphone Locator (ESL) Software.
- Emergency calls from all endpoint types were routed to the ERS via the EGW.
- Proper location information provided for all "known" locations.
- Calls from "unknown" locations were routed to the 911 Enable Emergency Call Response Center (ECRC).
- Callback numbers were assigned using the EGW Extension-Bind feature.
- Calls placed using the provided callback number were routed to the proper extension.
- Failover to the secondary EGW, if the primary EGW was not available.
- If neither EGW was available, Communication Manager routed emergency calls to the ECRC via the PSTN.
- If the ERS was not available, the EGW routed emergency calls to the ECRC via Communication Manager.

**Note:** *Please note that EGW supports only G711MU audio codec and does not support IP-IP media shuffling.* 

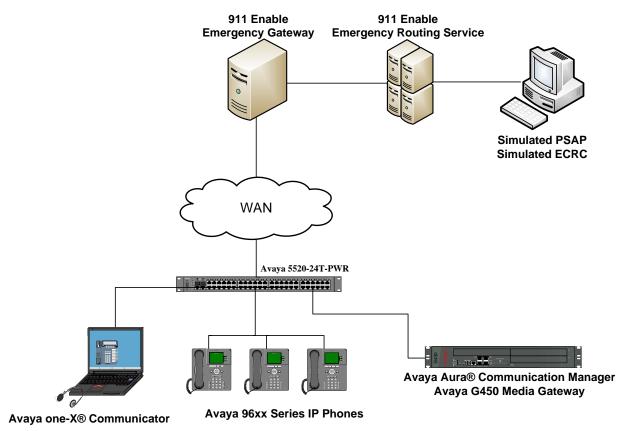
### 2.2. Test Results

The features described in Section 2.1 were tested. All test cases passed successfully

#### 2.3. Support

For technical support on the EGW, contact 911 Enable at <u>www.911enable.com</u>.

## 3. Reference Configuration



**Figure 1: Reference Configuration** 

**Figure 1** illustrates the test configuration. The test configuration shows an enterprise site connected to the 911 Enable Emergency Routing Service (ERS) via the 911 Enable Emergency Gateway (EGW). The ERS can send calls to the Public Service Answering Point (PSAP) or to the ECRC.

### 3.1. Auto-Discovery of Endpoints

The EGW attempts to auto discover the presence and location of Avaya one-X® Desk Phones by correlating data obtained through two mechanisms.

1. The first mechanism is known as layer 2 discovery. To support layer 2 discovery, each layer 2 switch where the above telephone types are connected must support certain MIB objects required by the EGW. In the test configuration, Avaya 5520-24T-PWR was used. The data obtained from layer 2 discovery includes the MAC address of the device connected to each port of the switch.

KJA; Reviewed: SPOC 9/21/2014 2. The second mechanism required for auto-discovery is known as layer 3 discovery. To support layer 3 discovery, each listed telephone type uses an application downloaded to it during initialization to report information to the EGW. Thus, the Avaya one-X® Desk Phone must support the PUSH API. The information collected includes the MAC address, IP address and extension of the phone. Correlating the information from layer 2 and 3, the EGW learns what extensions are physically connected to which layer 2 switch.

The location of Avaya one-X® Communicator is gathered in a similar manner. Layer 2 discovery is dependent upon which layer 2 switch the Windows PC running Avaya one-X® Communicator is connected. Layer 3 discovery is done by installing the 911 Enable ESL software on the same PC, to report the necessary information for these endpoints.

All digital and analog endpoints also must be manually provisioned.

#### 3.2. Callback Numbers

A callback number (CBN) is assigned to each extension for use by the 911 operator to reach the caller if the emergency call is dropped. The callback number for each extension would be its Direct Inward Dial (DID) number if it has one assigned. However, all internal extensions may not have a DID assigned. In this case, where an extension does not have a DID assigned, the EGW will temporarily map a DID number to that extension for the duration of the emergency call. This is known as the EGW Extension-Bind feature. The pool of DIDs used by the EGW is assigned to the EGW from the DIDs owned by the enterprise. In the case of the compliance test, none of the extensions were assigned an individual DID number, instead all extensions were assigned a temporary DID from the EGW during an emergency call. In addition, a single DID number was allocated to the EGW for this purpose.

### 3.3. Emergency Call Flows

Emergency calls are routed differently depending on whether all components are operational and what information is available about the caller.

- Typical "Sunny Day" Scenario: If all components and user information are available then the call flow is as follows: User Extension → Communication Manager → EGW → ERS → PSAP. If a callback call is needed and a temporary DID number is used from the EGW Extension-Bind pool, then the callback call flow is PSAP → PSTN → Communication Manager → EGW → Communication Manager → User Extension. If the user extension has its own DID number, then the callback call would not need to be routed through the EGW but would flow from PSAP → PSTN → Communication Manager → User Extension.
- 2. Missing User Information: If all components are operational, but the emergency call does not have the proper location or callback information, then the call is routed to the ECRC where a trained 911 operator collects the correct information before forwarding the call to the PSAP. This call can reach the ECRC in two different ways based on the provisioning of the EGW. The EGW can be provisioned to reject the call if all necessary information is not present, so that Communication Manager reroutes the call out the PSTN. This was done for the compliance test. The call flows from User Extension → Communication Manager → EGW (rejects the call), then the call is rerouted as Communication Manager → PSTN → ECRC → PSAP. Alternatively, the EGW can be provisioned to accept the call and send it to the ERS. The ERS will determine that all information is not present and send the call to the

ECRC. The call flow would be User Extension  $\rightarrow$  Communication Manager  $\rightarrow$  EGW  $\rightarrow$  ERS  $\rightarrow$  ECRC  $\rightarrow$  PSAP. Either the ECRC or the PSAP can initiate a callback if necessary. If the callback is made from the PSAP, the callback call flow would be the same as described in scenario 1 above. If the ECRC places the callback, the call flow is the same as described in scenario 1 with the exception that the ECRC replaces the PSAP in the call flow.

- 3. ERS Unavailable: If the EGW is operational but the ERS is unavailable, then when the EGW receives an emergency call, it will originate a new call leg to the ECRC (using the 10 digit ECRC number) through Communication Manager and bridge the emergency call. The call flows from User Extension → Communication Manager → EGW, then EGW → Communication Manager → PSTN → ECRC → PSAP. The callback call flows would be the same as the callback call flows described in scenario 2 above.
- 4. **EGW Failover**: If the primary EGW fails, Communication Manager will reroute the call to the secondary EGW. The call flow would be the same as scenario 1 above.
- 5. Both EGWs Fail: If both EGWs are unreachable, Communication Manager will timeout on its call requests to EGWs and reroute the call to the ECRC. The call flow is User Extension → Communication Manager → EGW (no response), then the call is rerouted as Communication Manager → PSTN → ECRC → PSAP. The callback call flows would be the same as the callback call flows described in scenario 2 above.

## 4. Equipment and Software Validated

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

Equipment	Software/Firmware
Avaya Aura® Communication Manager	6.2 SP3
Avaya G450 Media Gateway	31.20.1
Avaya Aura® Session Manager	6.2 SP3
Avaya 9630 IP Phone	SIP 2.6.7
Avaya 9608 IP Phone	H.323 3.1.5
Avaya 9641 IP Phone	
Avaya one-X® Communicator	6.1
Avaya 6408D Digital Telephone	-
Avaya 6210 Analog Telephone	-
911 Enable Emergency Gateway	4.1
911 Enable E911 Softphone Locator	1.5
Software	
911 Enable Emergency Routing Service	2.12

# 5. Configure Avaya Aura® Communication Manager

This section describes the Communication Manager configuration to support connectivity to the EGWs and related functionality. It assumes all other components of **Figure 1** have already been configured. For more detailed information on any other Communication Manager configuration shown in **Figure 1**, see [1].

The configuration of Communication Manager was performed using the System Access Terminal (SAT). After the completion of the configuration, perform a **save translation** command to make the changes permanent.

### 5.1. H.323 Trunk Related Configuration

This section summarizes the configuration of the H.323 trunks that connects the Communication Manager to each EGW.

Step	De System Parameters – Customer Optio	scription
1.	Use the <b>display system-parameters cus</b> options highlighted below are enabled.	<b>Stomer-options</b> command to verify that the The <b>IP Trunks</b> and <b>ISDN-PRI</b> options are ral. In addition, the <b>ISDN Feature Plus</b>
	display system-parameters customer-op OPTIC	tions Page 4 of 11 NAL FEATURES
	Emergency Access to Attendant? y Enable 'dadmin' Login? y	IP Stations? y
	Enhanced Conferencing? y	ISDN Feature Plus? y
	Enhanced EC500? y	ISDN/SIP Network Call Redirection? y
	Enterprise Survivable Server? n	ISDN-BRI Trunks? y
	Enterprise Wide Licensing? n	ISDN-PRI? y
	ESS Administration? y	Local Survivable Processor? n
	Extended Cvg/Fwd Admin? y	Malicious Call Trace? y
	External Device Alarm Admin? y Five Port Networks Max Per MCC? n	Media Encryption Over IP? n Mode Code for Centralized Voice Mail? n
	Five Port Networks Max Per McC? n Flexible Billing? n	Mode code for centralized voice Mall? I
	Forced Entry of Account Codes? y	Multifrequency Signaling? y
	Global Call Classification? y	Multimedia Call Handling (Basic)? y
	-	Multimedia Call Handling (Enhanced)? v
	Hospitality (G3V3 Enhancements)? y	Multimedia IP SIP Trunking? y
	IP Trunks? y	
	IP Attendant Consoles? y	

<b>Step</b> 2.	Description
	Node Names
	Use the <b>change node-names ip</b> command to create node names for each EGW and
	associate the node name with the IP address of the corresponding EGW. The example
	1 0 1
	below shows the node names and IP addresses used for the compliance test. These
	node names will be used in the administration of other forms on Communication
	Manager.
	change node-names ip Page 1 of 2
	IP NODE NAMES
	Name IP Address
	aes 192.168.62.108 default 0.0.0.0
	egw1 192.55.91.234
	egw2 192.55.91.235
	msgsrvr 192.168.62.28 procr 192.168.62.28
	procr 192.168.62.28 procr6 ::
	sm 192.168.62.18
2	
3.	IP network region
	Avaya endpoints were located in a single IP network region (IP network region 1)
	using the parameters described below. Use the <b>display ip-network-region</b> command
	to view these settings. By default, both EGWs will also be in IP network region 1
	unless specifically placed in a separate region using the <b>ip-network-map</b> command.
	The example below shows the values used for the compliance test.
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	Step
	4.
odec set 1.	
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Step	Description
5.	Signaling Group
5.	<ul> <li>Signaling Group</li> <li>Use the add signaling-group <i>n</i> command, where <i>n</i> is an unused signaling group, to create a new signaling group 4 was created for the trunk to the EGWs. For the compliance test, signaling group 4 was created for the trunk to the primary EGW and signaling group 5 was created for the trunk to the secondary EGW. Signaling group 4 was configured using the parameters highlighted below. Signaling group 5 was configured in the same way except where noted below. Default values were used for all other fields.</li> <li>Set the Group Type to <i>h.323</i>.</li> <li>Set the Group Type to <i>h.323</i>.</li> <li>Set the Trunk Group for Channel Selection field to the trunk group created in the next step. This cannot be done until the trunk group is created. Thus, initially this field is left blank and later changed to the correct value after the trunk group is created. A separate trunk group will be created for each signaling-group.</li> <li>Set the Near-end Node Name to <i>procr</i>. This node name maps to the IP address of the Avaya Server. Node names are defined using the change node-names ip command (Step 2).</li> <li>Set the Far-end Node Name to <i>egw1</i>. This node name maps to the IP address of the primary EGW as defined using the change node-names ip command (Step 2).</li> <li>Set the Near-end Listen Port and Far-end Listen Port to <i>1720</i>.</li> <li>Set the Far-end Network Region to 1. This is the IP network region which contains the EGW.</li> <li>Set the Direct IP-IP Audio Connections field to <i>n</i>. The EGW does not support media shuffling so this field must be set to <i>n</i>.</li> </ul>
	add signaling-group 4 Page 1 of 6 SIGNALING GROUP
	Group Number: 4 Group Type: h.323
	SBS? nRemote Office? nMax number of NCA TSC: 0Q-SIP? nMax number of CA TSC: 0IP Video? nTrunk Group for NCA TSC:Trunk Group for Channel Selection: 4X-Mobility/Wireless Type:
	NONE TSC Supplementary Service Protocol: a Network Call Transfer? n T303 Timer(sec): 10
	H.245 DTMF Signal Tone Duration (msec): Near-end Node Name: procr Near-end Listen Port: 1720 Far-end Listen Port: 1720
	Far-end Listen Port: 1720 Far-end Network Region: 1
	LRQ Required? n Calls Share IP Signaling Connection? n RRQ Required? n
	Bypass If IP Threshold Exceeded? n
	H.235 Annex H Required? n DTMF over IP: out-of-band <b>Direct IP-IP Audio Connections? n</b>
	Link Loss Delay Timer (sec): 90 Enable Layer 3 Test? n DCP/Analog Bearer Capability: 3.1kHz

Step	Description
<u>Step</u> 6.	<ul> <li><b>Description</b></li> <li><b>Trunk Group</b></li> <li>Use the <b>add trunk-group</b> <i>n</i> command, where <i>n</i> is an unused trunk group, to create a new trunk group for each H.323 trunk to each of the EGWs. For the compliance test, trunk group 4 was created for the trunk to the primary EGW and trunk group 5 was created for the trunk to the secondary EGW. Trunk group 4 was configured using the parameters highlighted below. Trunk group 5 was configured in the same way except where noted below. Default values were used for all other fields.</li> <li>On Page 1:</li> <li>Set the Group Type to <i>isdn</i>.</li> <li>Enter a descriptive name for the Group Name.</li> <li>Enter an available trunk access code (TAC) that is consistent with the existing dial plan in the TAC field.</li> <li>Set the Service Type to <i>public-ntwrk</i>.</li> <li>Set the Member Assignment Method to <i>auto</i>.</li> <li>Set the Number of Members field to the number of channels available in this trunk. For an H.323 trunk, the number of members also represents the number of simultaneous calls that can be supported by the trunk. For the compliance test, the</li> </ul>
	<ul> <li>The default values were used for all other fields.</li> <li>add trunk-group 4 Page 1 of 21 TRUNK GROUP</li> <li>Group Number: 4 Group Type: isdn CDR Reports: y Group Name: EGW1-911Enable COR: 1 TN: 1 TAC: *004 Direction: two-way Outgoing Display? n Carrier Medium: H.323 Dial Access? n Busy Threshold: 255 Night Service: Queue Length: 0 Service Type: public-ntwrk Auth Code? n Member Assignment Method: auto Signaling Group: 4</li> </ul>

Step	Description							
7.	Trunk Group – continued On Page 3:							
	• It is required that the <b>Send Name</b> field is set to y and the <b>Send Calling Number</b>							
	<ul> <li>field is set to y.</li> <li>Set the Format field to <i>pub-unk</i>. This field specifies the format of the calling</li> </ul>							
	party number sent to the far-end.							
	<ul> <li>The default values were used for all other fields.</li> </ul>							
	add trunk-group 4 Page 3 of 21 TRUNK FEATURES							
	ACA Assignment? n Measured: none Maintenance Tests? y							
	Data Restriction? n NCA-TSC Trunk Member:							
	Send Name:         Send Calling Number:         y           Used for DCS?         n         Send EMU Visitor CPN?         n							
	Suppress # Outpulsing? n Format: pub-unk UUI IE Treatment: service-provider							
	Replace Restricted Numbers? n Replace Unavailable Numbers? n Send Connected Number: n							
	Network Call Redirection: none Hold/Unhold Notifications? n Send UUI IE? y Modify Tandem Calling Number: no Send UCID? n							
	Send Codeset 6/7 LAI IE? y							
8.	Public Unknown Numbering							
01	Public unknown numbering defines the calling party number to be sent to the far-end.							
	An entry was created that will be used by the trunk groups defined in <b>Step 6</b> . In the							
	example shown below, all calls originating from a 5-digit extension beginning with 5 and routed across trunk group 4 or 5 will be sent as a 5-digit calling number.							
	and fouted across trunk group 4 of 5 will be sent as a 5-digit carring number.							
	change public-unknown-numbering 0 Page 1 of 2 NUMBERING - PUBLIC/UNKNOWN FORMAT Total							
	Ext Ext Trk CPN CPN							
	Len Code Grp(s) Prefix Len Total Administered: 2							
	5         4         5         Maximum Entries: 240           5         7         5							
	545Note: If an entry applies to5555a SIP connection to Avaya							

tep		Descriptio	on		
9.	Automatic Route Selection	n (ARS)			
	For the compliance test, AR	S was used to route	emergency ca	lls to the EGW	. The
	dialed string of 9 was config	gured as the feature a	access code (F	FAC) for ARS.	Use the
	change ars analysis comma	and to create an entry	y in the ARS t	able. Two entr	ries can b
	created in the ARS table so t	that calls dialed with	n or without the	he ARS feature	e access
	code were routed to the EGV	W (e.g., 9911 or 911	). Accessing	ARS without f	irst dialin
	the FAC, is only possible if	the ARS/AAR Dial	ing without <b>F</b>	FAC field is en	abled. Us
	the display system-parame	ters customer-optic	ons command	to view its cur	rent state
	In either case, the preceding	9 is removed by AF	RS before sear	ching the table	for a
	matching entry. The two res	sulting entries (for 1	1 and 911) are	e highlighted b	elow.
	Thus, the difference in these with the EGW.			-	
		below which is used available and the E0 ECRC number begi	to route emer GW initiates a ns with the di	rgency calls to call to the ECI aled string of <i>1</i>	the ECR( RC <b>438</b> . Thi
	with the EGW. A third entry is highlighted b This is used if the ERS is un number 1438xxxxxx. The dialed string is mapped to ro	below which is used havailable and the E0 ECRC number begi bute pattern <b>2</b> which	to route emer GW initiates a ns with the di routes calls to	rgency calls to a call to the ECI aled string of <b>1</b> trunk 2 conne	the ECR( RC <b>438</b> . Thi
	with the EGW. A third entry is highlighted I This is used if the ERS is un number 1438xxxxxx. The dialed string is mapped to ro PSTN.	below which is used available and the EC ECRC number begioute pattern 2 which ars digit analy	to route emer GW initiates a ns with the di routes calls to	rgency calls to a call to the ECI aled string of <b>1</b> trunk 2 conne	the ECRO RC 438. Thi cted to th
	with the EGW. A third entry is highlighted I This is used if the ERS is un number 1438xxxxxx. The dialed string is mapped to ro PSTN.	below which is used havailable and the EO ECRC number begin oute pattern 2 which ARS DIGIT ANALY Location:	to route emer GW initiates a ns with the di routes calls to	rgency calls to call to the ECI aled string of <i>I</i> trunk 2 conne Page 1 Percent Full	the ECRO RC 438. Thi cted to th
	with the EGW. A third entry is highlighted I This is used if the ERS is un number 1438xxxxxx. The dialed string is mapped to ro PSTN.	below which is used available and the EC ECRC number begioute pattern 2 which ars digit analy	to route emer GW initiates a ns with the di routes calls to SIS TABLE all Call Node	rgency calls to call to the ECI aled string of <i>I</i> trunk 2 conne Page 1 Percent Full ANI	the ECRO RC 438. Thi cted to th
	with the EGW. A third entry is highlighted I This is used if the ERS is un number 1438xxxxxx. The dialed string is mapped to ro PSTN.	below which is used available and the EO ECRC number begi oute pattern 2 which ARS DIGIT ANALY Location: Total Route	to route emer GW initiates a ns with the di routes calls to <sup>2SIS TABLE</sup> all Call Node	rgency calls to call to the ECI aled string of <i>I</i> trunk 2 conne Page 1 Percent Full	the ECRO RC 438. Thi cted to th

)	Description	
).	Route Patterns	
	Use the change route pattern <i>n</i> command, where <i>n</i> is an unused	route nattern to
		<b>-</b>
	create a separate route pattern for each of the dialed strings used f	•••
	the ARS table. Set the Pattern Name field to a descriptive name.	Create an entry i
	table for each trunk that will be used in an attempt to complete the	e emergency call.
	1 1	
	The example below shows route pattern 4 used in the compliance	test Route natter
	was accessed when ARS matches on a dialed string of 911. For the	
	Grp No. field to the trunk group of the primary EGW1 (trunk gro	-
	Restriction Level (FRL) of the trunk to an appropriate level to all	low authorized us
	to access the trunk. The level of $\boldsymbol{\theta}$ is the least restrictive. Set the I	
	(LAR) field to <i>next</i> . This allows the next trunk in the table to be	
		selected II the cu
	one is unavailable.	
	For the second entry, set the Grp No. field to the trunk group of t	he secondary EG
	(trunk group 5). Set all other fields the same as the previous entry	•
	Beer of the second fields are suffered as the provides only	
	For the third entry, set the Grp No. field to the trunk group of the	DCTN trunk In
	case of the compliance test, this was trunk group 2. If both EGW call will be routed to the PSTN using the number of the ECRC will will answer the call, collect location and callback information. See same value as the previous entry. Set the <b>No. Del Dgts</b> field to <b>3 Digits</b> field to the PSTN number of the ECRC including the prece	here a trained ope et the <b>FRL</b> to the and set the <b>Inser</b>
	call will be routed to the PSTN using the number of the ECRC wh will answer the call, collect location and callback information. See same value as the previous entry. Set the <b>No. Del Dgts</b> field to <b>3</b> <b>Digits</b> field to the PSTN number of the ECRC including the prece deletes the post-processed ARS digits of 911 and replaces them w of the ECRC. The <b>LAR</b> field is left as <i>none</i> since this is the last of	here a trained ope et the <b>FRL</b> to the and set the <b>Inser</b> eding 1. This sett with the PSTN nur entry.
	call will be routed to the PSTN using the number of the ECRC wh will answer the call, collect location and callback information. See same value as the previous entry. Set the <b>No. Del Dgts</b> field to <b>3</b> <b>Digits</b> field to the PSTN number of the ECRC including the prece deletes the post-processed ARS digits of 911 and replaces them w	here a trained oper et the <b>FRL</b> to the and set the <b>Inser</b> eding 1. This sett with the PSTN num
	call will be routed to the PSTN using the number of the ECRC wh will answer the call, collect location and callback information. See same value as the previous entry. Set the <b>No. Del Dgts</b> field to <b>3</b> <b>Digits</b> field to the PSTN number of the ECRC including the prece deletes the post-processed ARS digits of 911 and replaces them w of the ECRC. The <b>LAR</b> field is left as <i>none</i> since this is the last of change route-pattern 4	here a trained ope et the <b>FRL</b> to the and set the <b>Inser</b> eding 1. This sett with the PSTN nur entry.
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	call will be routed to the PSTN using the number of the ECRC wh will answer the call, collect location and callback information. See same value as the previous entry. Set the <b>No. Del Dgts</b> field to <b>3</b> <b>Digits</b> field to the PSTN number of the ECRC including the prece deletes the post-processed ARS digits of 911 and replaces them w of the ECRC. The <b>LAR</b> field is left as <i>none</i> since this is the last of the ECRC. The <b>LAR</b> field is left as <i>none</i> since this is the last of change route-pattern 4 Pattern Number: 4 Pattern Name: SCCAN? n Secure SIP? n Grp FRL NPA Pfx Hop Toll No. Inserted No Mrk Lmt List Del Digits	here a trained oper et the <b>FRL</b> to the and set the <b>Inser</b> eding 1. This sett with the PSTN numerity. Page 1 of 3 DCS/ IXC QSIG
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	call will be routed to the PSTN using the number of the ECRC wh will answer the call, collect location and callback information. See same value as the previous entry. Set the No. Del Dgts field to 3 Digits field to the PSTN number of the ECRC including the preced deletes the post-processed ARS digits of 911 and replaces them w of the ECRC. The LAR field is left as <i>none</i> since this is the last of the ECRC. The LAR field is left as <i>none</i> since this is the last of the ECRC. The LAR field is left as <i>none</i> since this is the last of the ECRC. The LAR field is left as <i>none</i> since this is the last of the ECRC is the post-processed ARS digits of 911 and replaces them w of the ECRC. The LAR field is left as <i>none</i> since this is the last of the ECRC. The LAR field is left as <i>none</i> since this is the last of the ECRC is the post-processed and the process of the end	here a trained oper et the FRL to the and set the Inser eding 1. This sett with the PSTN num entry. Page 1 of 3 DCS/ IXC QSIG Intw n use n use

Step		Description	
11.	Route Pattern – PSTN Tru	unk	
	In cases where the EGW is o	perational but it cannot rea	ch the FRS due to a WAN
		1	k to Communication Manager
	-		
			cation Manager will then route
	the call out the PSTN trunk.	In testing with earlier vers	ions of the EGW, the H.323
	call originated from the EGV	V contained bearer capabili	ties that were not compatible
	with the typical settings for a	-	1
			W be set to y and the ITC fie
	-	1	•
	was set to <i>both</i> . These setting	•	
	Communication Manager us	ed for this current compliar	nce test. Thus, the default
	0	1	<b>e W</b> was set to <i>n</i> and the <b>ITC</b>
			e w was set to <i>n</i> and the IIC
	field was set to <i>rest</i> (restricted	ed) as shown below.	
	change route-pattern 2	rn Number: 56 Pattern Name	Page 1 of 3
	Iatte	SCCAN? n Secure SIP	
	Grp FRL NPA Pfx Hop T	oll No. Inserted	DCS/ IXC
	No Mrk Lmt L	ist Del Digits	QSIG
	1:2 0	Dgts	Intw
	2:		n user n user
	3:		n user
	4:		n user
	5:		n user
	6:		n user
	BCC VALUE TSC CA-TS	C ITC BCIE Service/Featu	re PARM No. Numbering LAR
	012M4W Reque		Dgts Format
			Subaddress
	1: ууууу <b>л</b> п	rest	none
	2: yyyyn n	rest	none
		rest	
	3:yyyyyn n		none
	3: ууууул п 4: ууууул п	rest	none
	3: yyyyn n 4: yyyyn n 5: yyyyn n	rest	none
	3: ууууул п 4: ууууул п	rest	none

Step				Descrip						
12.	Inbound Call Routing – Temporary Callback Numbers									
							l to the	corre	ct dest	inatio
	When the PSAP uses the callback number, it must be routed to the correct destination. If the callback number is a DID number temporarily assigned by the EGW as a									
	callback number, then the			-	•	0				
				0						
	internal extension. Use the		0			-		<u> </u>	-	
	where <i>n</i> is the trunk group	-								
	used by the EGW as temp	orary	DID	s. The pi	receding	g 9 (wh	ich is t	the Al	RS feat	ure
	access code) will instruct	Comr	nunic	cation Ma	anager t	o proce	ess the	digits	using	ARS t
	determine the route. The				0	-		0	0	
	for security reasons.			enampre	00101	10 0111P		iiubii u		
	Tor security reasons.									
								_		
	change inc-call-handl			cunk-group CALL HANI		FATMENT		Page	1 of	3
	Service/ Number		ber		Insert			Call	Night	
	Feature Len	Di	gits				CPN/	/BN	Serv	
		~~~~~			•					
	tie 10	303536	58xxx3	c	9					
	tie 10	303536	58xxx3	<b>c</b>	9					
12					9					
13.	Routing Callback Calls	to the	EGV	W			- 4.0.0		<u></u>	-1. DI
13.	Routing Callback Calls Use the change ars analy	to the vsis co	EGV	W and to add	l an enti					
13.	Routing Callback Calls Use the change ars analy used by the EGW. Each e	<b>to the</b> v <b>sis</b> co ntry w	<b>EGV</b> omma vill m	W and to add atch on t	l an entr he inbo	und DI	D num	nber a	nd map	it to
13.	Routing Callback Calls Use the change ars analy	<b>to the</b> v <b>sis</b> co ntry w	<b>EGV</b> omma vill m	W and to add atch on t	l an entr he inbo	und DI	D num	nber a	nd map	it to
13.	Routing Callback Calls Use the change ars analy used by the EGW. Each e	<b>to the</b> v <b>sis</b> co ntry w te the	EGV omma vill m call t	W and to add atch on t to the EG	l an entr he inbo W. The	und DI e exam	D num ple bel	ber an ow w	nd map as usec	o it to a l for th
13.	Routing Callback Calls Use the change ars analy used by the EGW. Each e route pattern that will rou compliance test. The dial	to the vsis co ntry w te the ed str	EGV omma vill m call t ing is	W and to add atch on t to the EG the actu	l an enti he inbo W. The al DID	und DI e exam numbe	D num ple bel r (the <b>x</b>	iber an ow wa xxxx i	nd map as used n the e	o it to a l for th xampl
13.	Routing Callback Calls Use the change ars analy used by the EGW. Each e route pattern that will rou compliance test. The dial below is simply to mask t	to the vsis co ntry w te the ed stri he DI	<b>EGV</b> omma vill m call t ing is D nu	W and to add atch on t to the EG the actua mber for	l an entr he inbo W. The al DID r security	und DI e exam numbe	D num ple bel r (the <b>x</b>	iber an ow wa xxxx i	nd map as used n the e	o it to a l for th xampl
13.	Routing Callback Calls Use the change ars analy used by the EGW. Each e route pattern that will rou compliance test. The dial	to the vsis co ntry w te the ed stri he DI	<b>EGV</b> omma vill m call t ing is D nu	W and to add atch on t to the EG the actua mber for	l an entr he inbo W. The al DID r security	und DI e exam numbe	D num ple bel r (the <b>x</b>	iber an ow wa xxxx i	nd map as used n the e	o it to a l for th xampl
13.	Routing Callback Calls Use the change ars analy used by the EGW. Each e route pattern that will rou compliance test. The dial below is simply to mask t mapped to route pattern 6	to the vsis co ntry w te the ed stri he DI	<b>EGV</b> omma vill m call t ing is D nu	W and to add atch on t to the EG the actua mber for	l an entr he inbo W. The al DID r security	und DI e exam numbe	D num ple bel r (the x ns). Th	ber an ow w xxxx i nis dia	nd map as usec n the e lled str	o it to a l for th xampl ing is
13.	Routing Callback Calls Use the change ars analy used by the EGW. Each e route pattern that will rou compliance test. The dial below is simply to mask t	to the vsis contry w te the ed stri he DI defin	EGV omma vill m call t ing is D nu ed in	W and to add atch on t to the EG the actua mber for	l an entr he inbo W. The al DID security step.	und DI e exam numbe v reason	D num ple bel r (the x ns). Th	iber an ow wa xxxx i	nd map as used n the e	o it to a l for th xampl
13.	Routing Callback Calls Use the change ars analy used by the EGW. Each e route pattern that will rou compliance test. The dial below is simply to mask t mapped to route pattern 6	to the vsis contry w te the ed stri he DI defin	EGV omma vill m call t ing is D nu ed in	W and to add atch on t to the EG the actuant mber for the next	l an entr he inbo W. The al DID i security step.	und DI e exam numbe v reason	D num ple bel r (the x ns). Th	ber an ow w xxxx i nis dia	nd map as used n the e led str	o it to a l for th xampl ing is
13.	Routing Callback Calls Use the change ars analy used by the EGW. Each e route pattern that will rou compliance test. The dial below is simply to mask t mapped to route pattern 6	to the vsis contry w te the ed stri he DI defin	<b>EGV</b> omma vill m call t ing is D nu ed in	W and to add atch on t to the EG the actua mber for the next	l an entr he inbo W. The al DID is security step.	und DI e exam numbe: / reason	D num ple bel r (the <b>x</b> ns). Th	nber an ow wa xxxx i nis dia	nd map as used n the e led str	o it to a l for th xampl ing is
13.	Routing Callback Calls Use the change ars analy used by the EGW. Each e route pattern that will rou compliance test. The dial below is simply to mask t mapped to route pattern 6	to the vsis contry w te the ed stri- he DI defin	<b>EGV</b> omma vill m call t ing is D nu ed in	W and to add atch on t to the EG the actua mber for the next	l an entr he inbo W. The al DID is security step.	und DI e exam numbe v reason	D num ple bel r (the <b>x</b> ns). Th Perce	nber an ow wa xxxx i nis dia	nd map as used n the e led str	o it to a l for th xampl ing is
13.	Routing Callback Calls Use the change ars analy used by the EGW. Each e route pattern that will rou compliance test. The dial below is simply to mask t mapped to route pattern 6 change ars analysis 11 Dialed String 11	to the vsis contry w te the ed stri- he DI defin	EGV omma vill m call t ing is D nu ed in ars di ars di	W and to add atch on t to the EG the actuant mber for the next CGIT ANALY Location: Route Pattern 4	l an entr he inbo W. The al DID is security step.	und DI e exam numbe: / reason / reason	D num ple bel r (the <b>x</b> ns). Th Perce	nber an ow wa xxxx i nis dia	nd map as used n the e led str	o it to a l for th xampl ing is
13.	Routing Callback Calls Use the change ars analy used by the EGW. Each e route pattern that will rou compliance test. The dial below is simply to mask t mapped to route pattern 6 change ars analysis 11 Dialed String	to the vsis co ntry w te the ed stri he DI defin	EGV omma vill m call t ing is D nu ed in ed in	W and to add atch on t to the EG the actua mber for the next CGIT ANALY LOCATION: Route Pattern	l an entr he inbo W. The al DID is security step.	und DI e exam number / reason	D num ple bel r (the <b>x</b> ns). Th Perce ANI Reqd	nber an ow wa xxxx i nis dia	nd map as used n the e led str	o it to a l for th xampl ing is

Step	Description	
14.	Callback Route Pattern	
	Use the <b>change route pattern</b> command to create a route for the	callback calls using
	the EGW assigned DID numbers. These calls must be directed to	6
	route pattern is created the same as the route pattern 4 in <b>Step 10</b>	
	exceptions:	with the following
	1	
	• Use a unique name for the <b>Pattern Name</b> .	
	• Remove the third trunk choice shown in route pattern 4. I	If the callback call
	fails to reach the EGW, it should not be routed out the PS'	TN trunk <b>2</b> as was
	done in <b>Step 10</b> .	
	• By removing the third trunk from the route pattern, the LA	<b>AR</b> value for the
	second trunk should be set to none.	
	second trunk should be set to none.	
	change route-pattern 6	Page 1 of 3
	Pattern Number: 33 Pattern Name: Callback SCCAN? n Secure SIP? n	calls
	Grp FRL NPA Pfx Hop Toll No. Inserted	DCS/ IXC
	No Mrk Lmt List Del Digits	QSIG
	Dgts 1: 4 0	Intw n user
	2:5 0	n user n user
	3:	n user
	4:	n user
	5:	n user
		11 4001
	6:	n user
		n user
	BCC VALUE TSC CA-TSC ITC BCIE Service/Feature PARM N	n user
	BCC VALUE TSC CA-TSC ITC BCIE Service/Feature PARM N 0 1 2 M 4 W Request Dg	n user No. Numbering <b>LAR</b>
	BCC VALUE TSC CA-TSC ITC BCIE Service/Feature PARM N 0 1 2 M 4 W Request Subad 1: y y y y n n rest	n user Jo. Numbering <b>LAR</b> Jts Format
	BCC VALUE TSC CA-TSC ITC BCIE Service/Feature PARM N 0 1 2 M 4 W Request Dg Subad 1: y y y y y n n rest 2: y y y y n n rest	n user No. Numbering <b>LAR</b> gts Format ddress <b>next</b> <b>none</b>
	BCC VALUE TSC CA-TSC ITC BCIE Service/Feature PARM N 0 1 2 M 4 W Request Dg Subad 1: y y y y y n n rest 2: y y y y y n n rest 3: y y y y n n rest	n user No. Numbering <b>LAR</b> gts Format ldress <b>next</b> <b>none</b> none
	BCC VALUE TSC CA-TSC ITC BCIE Service/Feature PARM N 0 1 2 M 4 W Request Dg Subad 1: y y y y y n n rest 2: y y y y y n n rest 3: y y y y y n n rest 4: y y y y n n rest	n user n user No. Numbering <b>LAR</b> gts Format ldress <b>next</b> <b>none</b> none none
	BCC VALUE TSC CA-TSC 0 1 2 M 4 W Request 1: y y y y y n n rest 2: y y y y y n n rest 3: y y y y y n n rest 4: y y y y y n n rest 5: y y y y n n rest 5: y y y y n n rest	n user No. Numbering <b>LAR</b> gts Format ddress <b>next</b> none none none none none
	BCC VALUE TSC CA-TSC ITC BCIE Service/Feature PARM N 0 1 2 M 4 W Request Dg Subad 1: y y y y y n n rest 2: y y y y y n n rest 3: y y y y y n n rest 4: y y y y n n rest	n user n user No. Numbering <b>LAR</b> gts Format ldress <b>next</b> <b>none</b> none none
	BCC VALUE TSC CA-TSC 0 1 2 M 4 W Request 1: y y y y y n n rest 2: y y y y y n n rest 3: y y y y y n n rest 4: y y y y y n n rest 5: y y y y n n rest 5: y y y y n n rest	n user No. Numbering <b>LAR</b> gts Format ddress <b>next</b> none none none none none

### 5.2. Station Configuration

This section will describe the settings required of each of the different station types to support the EGW functionality. Each station is required to have an Emergency Location Extension configured.

Step	D	escription				
1.	<b>H.323 and SIP Telephones</b> The example below shows the Emergency Location Extension configuration for an Avaya 9630 IP Telephone (H.323). Use the <b>display station</b> <i>n</i> command, where <i>n</i> is the station extension, to view the settings. By default, the Emergency Location Extension is the same as the station extension and the <b>Always Use</b> field is set to <i>y</i> . If the <b>Always Use</b> field is set to <i>n</i> , then the Emergency Location Extension will be taken from the IP network map form if an extension is configured there. All H.323 and SIP telephones are configured in a similar way.					
		STATION				
	FEATURE OPTIONS LWC Reception: spe LWC Activation? y LWC Log External Calls? n CDR Privacy? n Redirect Notification? y Per Button Ring Control? n Bridged Call Alerting? n Active Station Ringing: single H.320 Conversion? n Service Link Mode: as-needed Multimedia Mode: enhanced MWI Served User Type: AUDIX Name:					
		Direct IP-IP Audio Connections? v				

Step	Description									
2.	Digital and Analog Telephones									
	The example below shows the Emergency Location Extension configuration for a									
	digital telephone. Use the <b>display station</b> $n$ command, where $n$ is the station extension									
	to view the settings. By default, the Emergency Location Extension is the same as the									
	station extension. There is no Always U									
	•									
	telephones. All digital and analog telephone	hones are configured in a similar way.								
	display station 54201	Page 2 of 4								
	display station 54201	STATION								
	FEATURE OPTIONS	STATION								
	LWC Reception: spe									
	LWC Activation? v	Coverage Msg Retrieval? y								
	LWC Log External Calls? n	Auto Answer: none								
	CDR Privacy? n	Data Restriction? n								
	Redirect Notification? y	Call Waiting Indication: y								
	Per Button Ring Control? n	Att. Call Waiting Indication: y								
	Bridged Call Alerting? n	Distinctive Audible Alert? y								
	Switchhook Flash? y	Adjunct Supervision? y								
	Ignore Rotary Digits? n									
	H.320 Conversion? n	Per Station CPN - Send Calling Number?								
	Service Link Mode: as-needed									
	Multimedia Mode: basic	Audible Message Waiting? n								
	MWI Served User Type:									
	AUDIX Name:	Commence After Demonstration								
		Coverage After Forwarding? s Multimedia Early Answer? n								
		Direct IP-IP Audio Connections? y								
	Emergency Location Ext: 54201	IP Audio Hairpinning? n								
	Emergency Docacron Exc. 94201	II AUGIO HAIIPIHHING: H								

	Description						
3.	Avaya one-X® Communicators (H.323)						
	The example shows the settings for an Avaya one-X® Communicator (H.323). Use the						
	display station $n$ command, where $n$ is the station extension, to view the settings. It						
	contains an additional field named <b>Remote Softphone Emergency Calls</b> . In the case						
	of the compliance test, the Avaya one-X <sup>®</sup> Communicator was treated the same as any						
		, so the Remote Softphone Emergency Calls					
	field was left with the default value of <i>a</i>	us-on-local. This setting instructs the					
		ue in the Emergency Location Ext. field as t					
	-						
	Emergency Location Extension. This v	alue can still be overwritten by the value on the					
	IP network map form if permitted by th	e setting of the <b>Always Use</b> field					
	If network map form in permitted by th	e setting of the mways ese noid.					
	display station 54002	Page 2 of 5					
		STATION					
	FEATURE OPTIONS						
	LWC Reception: spe	Auto Select Any Idle Appearance? n					
	IWC Activation 2 H						
	LWC Activation? y	Coverage Msg Retrieval? y					
	LWC Log External Calls? n	Coverage Msg Retrieval? y Auto Answer: none					
	LWC Log External Calls? n CDR Privacy? n	Coverage Msg Retrieval? y Auto Answer: none Data Restriction? n					
	LWC Log External Calls? n	Coverage Msg Retrieval? y Auto Answer: none					
	LWC Log External Calls? n CDR Privacy? n Redirect Notification? y Per Button Ring Control? n Bridged Call Alerting? n	Coverage Msg Retrieval? y Auto Answer: none Data Restriction? n Idle Appearance Preference? n					
	LWC Log External Calls? n CDR Privacy? n Redirect Notification? y Per Button Ring Control? n	Coverage Msg Retrieval? y Auto Answer: none Data Restriction? n Idle Appearance Preference? n Bridged Idle Line Preference? n Restrict Last Appearance? y					
	LWC Log External Calls? n CDR Privacy? n Redirect Notification? y Per Button Ring Control? n Bridged Call Alerting? n Active Station Ringing: single	Coverage Msg Retrieval? y Auto Answer: none Data Restriction? n Idle Appearance Preference? n Bridged Idle Line Preference? n Restrict Last Appearance? y EMU Login Allowed? n					
	LWC Log External Calls? n CDR Privacy? n Redirect Notification? y Per Button Ring Control? n Bridged Call Alerting? n Active Station Ringing: single H.320 Conversion? n	Coverage Msg Retrieval? y Auto Answer: none Data Restriction? n Idle Appearance Preference? n Bridged Idle Line Preference? n Restrict Last Appearance? y EMU Login Allowed? n Per Station CPN - Send Calling Number?					
	LWC Log External Calls? n CDR Privacy? n Redirect Notification? y Per Button Ring Control? n Bridged Call Alerting? n Active Station Ringing: single H.320 Conversion? n Service Link Mode: as-needed	Coverage Msg Retrieval? y Auto Answer: none Data Restriction? n Idle Appearance Preference? n Bridged Idle Line Preference? n Restrict Last Appearance? y EMU Login Allowed? n Per Station CPN - Send Calling Number? EC500 State: enabled					
	LWC Log External Calls? n CDR Privacy? n Redirect Notification? y Per Button Ring Control? n Bridged Call Alerting? n Active Station Ringing: single H.320 Conversion? n Service Link Mode: as-needed Multimedia Mode: enhanced	Coverage Msg Retrieval? y Auto Answer: none Data Restriction? n Idle Appearance Preference? n Bridged Idle Line Preference? n Restrict Last Appearance? y EMU Login Allowed? n Per Station CPN - Send Calling Number? EC500 State: enabled Audible Message Waiting? n					
	LWC Log External Calls? n CDR Privacy? n Redirect Notification? y Per Button Ring Control? n Bridged Call Alerting? n Active Station Ringing: single H.320 Conversion? n Service Link Mode: as-needed	Coverage Msg Retrieval? y Auto Answer: none Data Restriction? n Idle Appearance Preference? n Bridged Idle Line Preference? n Restrict Last Appearance? y EMU Login Allowed? n Per Station CPN - Send Calling Number? EC500 State: enabled Audible Message Waiting? n Display Client Redirection? n					
	LWC Log External Calls? n CDR Privacy? n Redirect Notification? y Per Button Ring Control? n Bridged Call Alerting? n Active Station Ringing: single H.320 Conversion? n Service Link Mode: as-needed Multimedia Mode: enhanced MWI Served User Type:	Coverage Msg Retrieval? y Auto Answer: none Data Restriction? n Idle Appearance Preference? n Bridged Idle Line Preference? n Restrict Last Appearance? y EMU Login Allowed? n Per Station CPN - Send Calling Number? EC500 State: enabled Audible Message Waiting? n					
	LWC Log External Calls? n CDR Privacy? n Redirect Notification? y Per Button Ring Control? n Bridged Call Alerting? n Active Station Ringing: single H.320 Conversion? n Service Link Mode: as-needed Multimedia Mode: enhanced MWI Served User Type:	Coverage Msg Retrieval? y Auto Answer: none Data Restriction? n Idle Appearance Preference? n Bridged Idle Line Preference? n Restrict Last Appearance? y EMU Login Allowed? n Per Station CPN - Send Calling Number? EC500 State: enabled Audible Message Waiting? n Display Client Redirection? n Select Last Used Appearance? n					
	LWC Log External Calls? n CDR Privacy? n Redirect Notification? y Per Button Ring Control? n Bridged Call Alerting? n Active Station Ringing: single H.320 Conversion? n Service Link Mode: as-needed Multimedia Mode: enhanced MWI Served User Type: AUDIX Name:	Coverage Msg Retrieval? y Auto Answer: none Data Restriction? n Idle Appearance Preference? n Bridged Idle Line Preference? n Restrict Last Appearance? y EMU Login Allowed? n Per Station CPN - Send Calling Number? EC500 State: enabled Audible Message Waiting? n Display Client Redirection? n Select Last Used Appearance? n Coverage After Forwarding? s					

# 6. Configure Avaya Endpoints

This section describes the configuration required of Avaya endpoints to support the EGW functionality. Avaya H.323 and SIP telephones require additions to the 46xxsettings.txt file to support layer 3 discovery. The Avaya one-X® Communicator requires installation of the ESL software on the same PC running the Avaya one-X® Communicator. No special configuration is required of analog or digital telephones.

Step	Description					
1.	Avaya H.323 and SIP Telephone Configuration File					
	In order to support layer 3 discovery, the following lines need to be added to the					
	46xxsettings.txt configuration file for Avaya H.323 and SIP telephones. The two					
	highlighted parameters in the <b>SUBSCRIBELIST</b> and <b>WMLHOME</b> URLs must be modified for a specific installation. The first parameter ( <i>192.168.0.118</i> ) represents the					
	IP address of the private side of the primary EGW. The second parameter (19) is the <b>IP-PBX ID</b> number that is created while configuring EGW.					
	## 911 Enable Settings SET TPSLIST /					
	SET SUBSCRIBELIST http://192.168.0.118/19/r SET PUSHPORT 80					
	SET PUSHCAP 2					
	SET WMLHOME http://192.168.0.118/wml/19/service.html					

Step	Description							
2.	Avaya one-X® Communicator (H.323) – ESL software installation On the PC running the Avaya one-X® Communicator, launch the ESL setup application. A welcome screen will appear. Click Next to proceed.							
	🛃 E911 Softphone Locator (ESL)							
	Welcome to the E911 Softphone Locator (ESL) Setup Wizard							
	The installer will guide you through the steps required to install E911 Softphone Locator (ESL) on your computer.							
	WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.							
	Cancel < Back Next >							

Step	Description							
3.	ESL Installation – Select Protocol Select the desired protocol – HTTP was used for the compliance test. Click Next							
	Select the desired protocol. HTTP was used for the compliance test. Click Next.							
	🛃 E911 Softphone Locator (ESL)							
	Protocol							
	Which protocol would you like to use to communicate with the Emergency Gateway							
	HTTP (Unencrypted)							
	SSL/TLS (Encrypted)							
	Cancel < Back Next >							

Step	Description						
4.	ESL Installation – EGW Settings Enter the IP addresses for both EGWs. Use the default port 80 for HTTP. Click Nex						
	🛃 E911 Softphone Locator (ESL)						
	Emergency Gateway Settings						
	Please provide the IP address(es) or FQDN of the Emergency Gateway						
	Primary EGW: 192.168.0.118						
	Primary Port: 80						
	Secondary EGW: 192.168.0.119						
	Secondary Port: 80						
	Cancel < Back Next >						

Step	Description					
5.	<b>ESL Installation – IP-PBX Settings</b> Enter an <b>IP-PBX ID</b> . Click <b>Next</b> .					
	🛃 E911 Softphone Locator (ESL)					
	IP-PBX Settings					
	Please provide the IP-PBX ID for this workstation, as configured on the Emergency Gateway (EGW)					
	IP-PBX ID:					
	Cancel < Back Next >					

Step	Description					
6.	<b>ESL Installation – Installation Folder</b> Enter the installation folder and who should have access to the software. Click <b>Next</b> .					
	🛃 E911 Softphone Locator (ESL)					
	Select Installation Folder					
	The installer will install E911 Softphone Locator (ESL) to the following folder.					
	To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".					
	Eolder: C:\Program Files\Connexon Telecom Inc\E911 Softphone Locator (E Browse					
	Disk Cost					
	Install E911 Softphone Locator (ESL) for yourself, or for anyone who uses this computer: <ul> <li>Everyone</li> <li>Just me</li> </ul>					
	Cancel < Back Next >					

Step	Description						
7.	ESL Installation – Confirm						
	Con	firm the installation by clicking <b>Next</b> .					
		😰 E911 Softphone Locator (ESL)					
		Confirm Installation					
		Genable					
		The installer is ready to install E911 Softphone Locator (ESL) on your computer.					
		Click "Next" to start the installation.					
		Cancel < Back Next >					

Step	Description
8.	<b>ESL Installation – Complete</b> The following screen appears when installation is complete. Click <b>Close</b> to exit the set- up application.
	🛃 E911 Softphone Locator (ESL)
	Installation Complete
	E911 Softphone Locator (ESL) has been successfully installed. Click "Close" to exit.
	Please use Windows Update to check for any critical updates to the .NET Framework.
	Cancel < Back Close

# 7. Configure 911 Enable Emergency Gateway (EGW)

The configuration of the EGW is performed by 911 Enable for the customer when the customer subscribes to 911 Enable's Emergency Routing Service. The information in this section is included simply as a reference.

Step			De	scription			
1.	http:// <ip-ad address of the</ip-ad 	configured via a $\frac{dr}{s}$ in the address primary EGW.	ss field of t	he web brow	vser, where	<ip-addr< th=""><th>&gt; is the IP</th></ip-addr<>	> is the IP
2.		ge of the EGW w	L		EGW access requires a password. If you have not received your use be obtained by contacting your account manager.	name	
	Versioning Auto Discovery Status Satur Logo General Information Save Role: PBK Coart: BBL Coart: EBL Coart: EBL Coart: EBL Coart: EBL Coart: EBL Coart: EBL Coart:	System Status         Configuration           Reports         CDrs         Alama           Pinnuy         -         -           2         -         -           3         -         -           0         -         -           1         -         -           2         -         -           3         -         -           0         -         -           0         -         -           0         -         -           0         -         -           0         -         -           0         -         -	Teat Mode Deak A	141 1940 SNAP Scar Statistics Leaf Ter Scar 2013-14-00-23 Leaf 3 membro Scalage Tetra 3 0 Date 2013-01-01 000-0	ed Threads Used 1407 1 1 s Peek reported way March April May 0 0 0	0 0 0	Average Scien Duration       002 seconds
1							I

Step	Description					
3.	ERS Account					
	The ERS account defines the parameters used to connect to the Emergency Routing Service. Navigate to the Configuration $\rightarrow$ Advanced $\rightarrow$ ERS Account tab to					
	configure these settings. The example below shows the settings used for the					
	compliance test. The necessary values for each field shown for the <b>911 Account</b>					
	<b>Settings</b> and the <b>ECRC List</b> are provided by 911 Enable for connection to the ERS.					
	For security reasons, the public IP addresses of the ERS are not shown but some digits are replaced by an x. The ECRC list shows the phone number of the ECRC. This number is dialed through Communication Manager so it contains the preceding 9 (ARS					
	feature access code) followed by the 11-digit number. For security reasons, the full					
	PSTN number is not shown					
	C 9-1-1 EMERGENCY GATEWAY Late lage the of W2 at K PM Late lage the of W2 at K PM Late lage the of W2 at K PM					
	Provincing         Auto Discovery         System Status         Configuration         Test Mode         Desk Avert         Help           Dashbard Accure         IP-PEX         Security Desk         Notification         Advanted         Access Massgement         Task Soled-Jer         Certificates           Caliback         Golder         DBS Account         Dual Pain         Terrer Settings         Rethondong         SOLP Server         NAIT Treemal					
	B11 Account Settings         ESRC Lst.           Log Scap Calls         Yes         Priority 1:         43832         Edit         Delete           911 Encle Primury IP:         192.185.10.36         Edit         Delete         Edit         Delete					
	911 Enable Primary P: 19215810.36 Add a Number 911 Enable Secondary P: 911 Enable Teirary P:					
	Network Protocol: UDP SOAP Username: kungegir					
	SQAP Password: bbfKWa RLM Domain ID: 339					
	SQAP Authentication Vuenamme         109911           SQAP Authentication Parsword:         6cpRMVp31-0           SQAP Server RN:         http://redex.commes.nc.cm?011ferm/wsdl/#011/e_gbwg.y5/					
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	Edit					
	Daabboard -+ Configuration-> Advanced-> ERS Account					
4	Extension-Bind Numbers					
4.	The Extension-Bind numbers are the pool of DID numbers owned by the enterprise					
	that the EGW can use as callback numbers for active 911 calls. Navigate to the					
	<b>Configuration</b> $\rightarrow$ <b>Advanced</b> $\rightarrow$ <b>Callback</b> tab to configure these Extension-Bind					
	numbers. For the compliance test, a single number was used in the Extension-Bind					
	Numbers list. To add a number to the list, click the <b>Add a number</b> button. Enter the					
	number in the subsequent window (not shown). Each number is represented by 10-					
	digits. For security reasons, the full PSTN number is not shown.					
	digits. For security reasons, the run r 5 m number is not shown.					
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	Extension-Bind Numbers Callback Settings					
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	Caliback Digit Mapping List No Digit Map Contigured					
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Step	Description				
5.	<b>IP-PBX</b> <b>Steps 5 – 7</b> define the parameters needed to connect to Communication Manager via an				
	H.323 trunk on the private side of the EGW. Navigate to Configuration $\rightarrow$ IP-PBX to				
	configure these settings. First, an IP-PBX is defined by clicking the Add a new IP-				
	<b>PBX</b> button. The example below shows the IP-PBX created for the compliance test.				
	Click the IP-PBX name to view the details.				
	in the second of				
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	Add a new IP-PEX				
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6.	<b>IP-PBX – Continued</b> The IP-PBX was created with the following parameters. Use default values for all				
	other fields.				
	<ul> <li>Set the IP-PBX Name to a descriptive name.</li> </ul>				
	• Set the <b>PBX-Type</b> to <i>Avaya</i> .				
	• Set the <b>Protocol</b> to <i>H323</i> .				
	The EGW automatically assigned the IP-PBX ID number shown below. This value is				
	needed for the configuration of the Avaya H.323 and SIP Telephone 46xxsettings file				
	and the ESL installation.				
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	B-PRX D-PRESS Groups				
	P+8x           C         ΛνηκΩΜ         P-8x				
	AuguCoNServer         IP-PRIX Name         Amp/CM           1         AwapSM         IP-PRIX Type         Amp/S Aura           1         AwapSM         IP-PRIX Type         Viliant				
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Step	Description					
7.	IP-PBX – Continued					
	The IP-PBX created in the previous step can be comprised of multiple servers. To view					
	the list of servers, click the + icon next to the IP-PBX name. The example below shows					
	the server list for the IP-PBX named <i>Avaya</i> created for the compliance test. The list					
	contains a single server named <i>Server1</i> . Click the server name to see the details.					
	A server can be added by clicking the <b>Add a server</b> button. Enter a descriptive name					
	for the <b>Server Name</b> . Set the <b>Signaling IP Address/FQDN</b> to the IP address of the					
	Avaya Server terminating the H.323 trunk at the far-end. Use default values for all					
	other fields. For security reasons, the Signaling IP Address is masked.					
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	Supply and a waterimetry of a sense of supply of the sense of the sens					
8.	<b>Emergency Response Locations (ERLs)</b> The ERL is a location identifier that is associated with a physical address. This					
	association is contained in a batch file uploaded to the EGW. To perform this upload,					
	navigate to the <b>Provisioning</b> $\rightarrow$ <b>ERLs</b> tab. Enter the file name in the <b>Batch File</b> field					
	and click the <b>Upload</b> button. At the bottom of the screen, <b>Status</b> and <b>Actions columns</b>					
	will appear associated with the batch file. The following actions are necessary to					
	complete the upload but are not all shown in the screen below. Next, click <b>Validate</b>					
	under Actions. Once the file is validated, click <b>Batch Process</b> which will appear under					
	Actions. Once this completes, the <b>Status</b> will change to <b>Finished</b> . An example of an					
	ERL batch file is shown in <b>Step 9</b> .					
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	Septriph 2012 0 911 enable com is a delision of Cannelson Telecom inc.					

Step	Description						
9.	Locations Batch File						
	The following is an example of the ERL batch file used for the compliance test. It shows that ERL LOC1 is associated with address 1300 W 120 <sup>th</sup> Avenue, D4-H31, Westminster, CO 80234. Similarly, ERL LOC2, LOC3, LOC4 and LOC5 are also						
	associated with the same address.						
	<pre>1 1;LOC1;1300;W 120th Avenue;D4-H31;Westminster;C0;USA;80234;0;0;;;;; 2 1;LOC2;1300;W 120th Avenue;D4-H32;Westminster;C0;USA;80234;0;0;;;;;</pre>						
	<pre>3 1;LOC3;1300;W 120th Avenue;D4-H33;Westminster;C0;USA;80234;0;0;;;;;</pre>						
	<pre>4 1;LOC4;1300;W 120th Avenue;D4-H34;Westminster;C0;USA;80234;0;0;;;;;</pre>						
	<pre>5 1;LOC5;1300;W 120th Avenue;D4-H35;Westminster;C0;USA;80234;0;0;;;;;</pre>						
10.	Provisioned Endpoints						
	All endpoints that cannot be auto-discovered, should be manually provisioned so that						
	each extension that is not auto-discovered is associated with an ERL. This association is contained in a batch file uploaded to the EGW. To perform this upload, navigate to						
	the <b>Provisioning</b> $\rightarrow$ Endpoints tab. Enter the file name in the Batch File field and						
	click the <b>Upload</b> button. At the bottom of the screen, <b>Status</b> and <b>Actions columns</b>						
	will appear associated with the batch file. The following actions are necessary to						
	complete the upload but are not all shown in the screen below. Next, click Validate						
	under Actions. Once the file is validated, click Batch Process which will appear under						
	Actions. Once this completes, the Status will change to Finished. An example of a						
	provisioned endpoints batch file is shown in <b>Step 11</b> .						
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Step	Description
11.	Provisioned Endpoints Batch File
	The following is an example of the provisioned endpoints batch file used for the compliance test. It contains the extensions associated with the digital and analog endpoints since these endpoints cannotcannot be auto-discovered. In the case of the compliance test, the Avaya IP Telephone with extension 50023 also could not be auto-discovered due to the type of layer 2 switch to which it was connected. Thus, this extension should also be manually provisioned. However, for the purposes of the compliance test, this extension was not provisioned in order to test the EGW operation when the location of an extension is unknown. In this case, emergency calls from extension 50023 would get routed to an ECRC operator to collect location and callback information. The batch file shows that all the provisioned endpoints (extensions 52000, and 52003) are associated with the same ERL – LOC3. For Security reasons, IP addresses are masked.
	1 1;AvayaSM;54102;CC52AF3D7C75;LOC3; 2 1;AvayaCM;55500;CC52AF3D7C75;LOC2; 3 1;AvayaSM;54101;00040DEC05B7;LOC1; 4 1; AvayaSM;54101;00040DEC05B7;LOC1; 5 1; AvayaSM;54101; 5 1; AvayaSM;54101; 5 1; AvayaSM;54101; 5 1; AvayaSM; 5 1; AvayASM;
12.	Layer 2 Discovery
	Each enterprise layer 2 switch that has Avaya H.323 or SIP telephones connected to it must be configured on the EGW so that it can be queried as part of layer 2 discovery. Navigate to the Auto Discovery $\rightarrow$ Layer 2 Discovery tab to display the list of layer 2 switches. The example below shows the list used for the compliance test. The IP address of switch shown in Figure 1 was entered. Click the Add a switch button to enter the switch parameters. Enter the management IP address of the switch in the Switch IP field and enter the appropriate string in the SNMP Community String field. Enter the ERL where the switch resides in the Default ERL ID field. Default values may be used for all other fields. For security reasons, IP address is masked.
	Setter bisch List Schult       Security Hair       Addies         Neise Hair       Security Hair       Security Hair       Security Hair       Security Hair       Security Hair       Addies         Neise Hair       Security Hair       Security Hair       Security Hair       Security Hair       Addies         Neise Hair       Security Hair       Security Hair       Security Hair       Security Hair       Addies         Neise Hair       Security Hair       Security Hair       Security Hair       Security Hair       Addies         Neise Hair       Security Hair       Security Hair       Security Hair       Security Hair       Addies         Neise Hair       Security Hair       Security Hair       Security Hair       Security Hair       Addies         Neise Hair       Security Hair       Security Hair       Security Hair       Security Hair       Addies         Neise Hair       Security Hair       Security Hair       Security Hair       Security Hair       Security Hair       Security Hair

Step	Description
13.	Security Desk Emergency calls may be routed to a Security Desk extension as well as being sent to the Emergency Routing Service. Navigate to the Configuration → Security Desk tab to create the Security Desk List. To create a security desk, click Add a Security Desk. The example below shows the Security Desk created for the compliance test. Click the Edit button to view the details.
14.	<ul> <li>Security Desk – Continued</li> <li>The Security Desk was created with the following parameters. Use default values for all other fields.</li> <li>Enter a descriptive name for the Security Desk Name.</li> <li>Set the Security Desk Number to the extension to call when any user dials an emergency call. This is in addition to the call that will be placed to the Emergency Routing Service.</li> <li>Set the IP-PBX field to the IP-PBX created earlier in this section.</li> </ul>

# 8. Verification Steps

The following steps may be used to verify the configuration:

- From the Communication Manager SAT, use the **status signaling-group** command to verify that the H.323 signaling group is in-service.
- From the Communication Manager SAT, use the **status trunk-group** command to verify that the H.323 trunk group is in-service.
- On the EGW, verify the ERL information. Navigate to the Search → ERLs tab, verify that the locations provided in the batch file in Section 7, Step 9 are displayed.

NABLE			Welcome, Ro Last Login: Jan 21, 2013 G La
	uto Discovery System Status Configuration Test Mode Desk Alert	Help	
	Ipoints ELIN Pool Validation		
ERLs Batch			
rch Emergency Response	Locations (ERL)		
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s Search Results	Address	Call Delivery Type	Actions
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LOC3	1300, W 120TH AVENUE (D4-H33), WESTMINSTER CO, USA, 80234	ERS	More Details Edit Delete
LOC4	1300, W 120TH AVENUE (D4-H34), WESTMINSTER CO, USA, 80234	ERS	More Details Edit Delete
LOC5	1300, W 120TH AVENUE (D4-H35), WESTMINSTER CO, USA, 80234	ERS	More Details Edit Delete
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udd	Previous I Next	Go to page: First Page - Go	

Copyright 2013  $\oplus$  911 enable.com is a division of ConneXon Telecom inc. • On the EGW, verify the endpoints. Navigate to the **Search → Endpoints** tab, verify that all endpoints are displayed.

de d'Creason Provisioning Auto Discovery System Status Configuration Test Mode Desk Alert Help EBIS Endpoints Estim arch Endpoints depoints Search Results Derke Name MAC Address PEX Name P Address ESL D Adions
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54102 CC52AF307C75 Avg/s5M LOC3 More Details Edit Delete
5101 000400EC0587 Avg/x5M LOCI More Detail Edit Delete
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Verify that 911 calls can be placed from different endpoints types from different locations. Verify from the EGW Call Detail Records (CDR), that the correct location and callback number is being passed to 911 Enable. Navigate to the System Status → CDRs tab to display this information. The example below shows two emergency 911 calls as represented by the value *ERS* in the Call Destination field. The example also shows three callback calls which show the local extension being called back in the Call Destination field. Each of the 911 calls shows the correct location and callback information for that endpoint.

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## 9. Conclusion

911 Enable Emergency Gateway and Emergency Routing Service passed compliance testing. These Application Notes describe the procedures required to configure the connectivity between Avaya Aura® Communication Manager and the 911 Enable equipment and service as shown in **Figure 1**.

## 10. Additional References

This section references the documentation relevant to these Application Notes. Avaya product documentation is available at http://support.avaya.com. Product documentation for the EGW can be obtained from 911 Enable.

[1] Administering Avaya Aura® Communication Manager, Release 6.2, Document 03-3005089, Issue 7.0, December 2012

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[2] 911Enable Emergency Gateway System Guide 2.6.[3] ESL Configuration Guide Rev. A, February 15, 2010.

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