

Avaya Solution & Interoperability Test Lab

# Application Notes for Configuring Intrado / 911 Enable Emergency Gateway with Avaya Aura® Session Manager, Avaya one-X® Deskphones and Avaya one-X® Communicator – Issue 1.0

#### Abstract

These Application Notes describe the procedures for configuring the Intrado / 911 Enable Emergency Gateway with Avaya Aura® Session Manager, Avaya one-X® Deskphones and Avaya one-X® Communicator.

The 911 Enable Emergency Gateway offers E911 call routing automatic and IP phone discovery. Avaya Aura® Session Manager connects to the Emergency Gateway via a SIP 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® Deskphones and Avaya one-X® Communicator 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 Intrado / 911 Enable (911 Enable) Emergency Gateway (EGW) with Avaya Aura® Session Manager.

The 911 Enable Emergency Gateway offers E911 call routing and location provisioning solution for enterprises using both legacy and IP phone deployments. Avaya Aura® Session Manager connects to EGW via a SIP trunk. EGW connects to Intrado / 911 Enabled Emergency Routing Services (ERS) before the calls are routed to PSAP. The compliance testing focused on placing 911 calls from Avaya one-X® Deskphones and Avaya one-X® Communicator 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 with Session 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 SNMP enabled layer 2 switches.
- Layer 3 discovery of Avaya one-X® Deskphones that support the PUSH API.
- Layer 3 discovery of Avaya one-X<sup>®</sup> Communicator when used with 911 Enable E911 Softphone Locator (ESL) Software.
- PUSH API and ESL, both push the IP addresses and MAC addresses of Avaya IP phones to the EGW, therefore it is used for both layer 2 and layer 3 discovery
- 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, Session 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 Session Manager.

### 2.2. Test Results

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

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#### 2.3. Support

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

### 3. Reference Configuration



#### 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.

- The first mechanism is known as layer 2 discovery. To support layer 2 discovery, each layer 2 switch where the above telephones types are connected must support certain SNMP V1, V2 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.
- 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 Phones telephone types used 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 → Session 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 → Session Manager → EGW → Session 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 → Session 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 Session Manager reroutes the call out the PSTN. This was done for the compliance test. The call flows from User Extension → Session Manager → EGW (rejects the call), then the call is rerouted as Session 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 → Session Manager → EGW → ERS → ECRC → 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 call to the ECRC (using the 10 digit ECRC number) through Session Manager. The call flows from User Extension → Session Manager → EGW, then EGW → Session 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, Session 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 fail, Session Manager will reroute the call to the ECRC. The call flow is User Extension → Session Manager → EGW (no response), then the call is rerouted as Session 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	7.0 Service Pack 1
Avaya G450 Media Gateway	39.17.0
Avaya Aura® Session Manager	7.0.0
Avaya Aura® System Manager	7.0
Avaya Aura® Utility Services	7.0
Avaya Aura® Media Server	7.7.0.226
Avaya one-X <sup>®</sup> Deskphones	SIP 7.0.0
	H.323 6.6.0
	H.323 3.2.5
Avaya one-X <sup>®</sup> Communicator	6.2 Feature Pack 10
Avaya 6408D Digital Telephone	-
Avaya 6210 Analog Telephone	-
Intrado / 911 Enable Emergency Gateway	5.0.1
Intrado / 911 Enable Emergency Routing	3.8
Service	
Intrado / 911 Enable E911 Softphone	2.4
Locator Software	

# 5. Configure Avaya Aura® Session Manager

This section describes the Session 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 Session Manager configuration shown in **Figure 1**, see [2]. Also note that, it is assumed that relevant configuration for Communication Manager is already in place.

The configuration of Session Manager was performed via Avaya Aura® System Manager. Enter the URL of System Manager such as <u>https://<system-manager-ip-address>/network-login/</u> of the System Manager. Log in using appropriate credentials.

Aura <sup>®</sup> System Manager 7.0	
Recommended access to System Manager is via FQDN. Go to central login for Single Sign-On If IP address access is your only option, then note that authentication will fail in the following cases: • First time login with "admin" account • Expired/Reset passwords Use the "Change Password" hyperlink on this page to change the password manually, and then login. Also note that single sign-on between servers in the same security domain is not supported when	User ID: Password: Log On Cancel Change Password Change Password
the same security domain is not supported when accessing via IP address.	

#### 5.1. Add a SIP Entity

Navigate to **Routing**  $\rightarrow$  **SIP Entities.** Click **New** to add a new SIP entity for 911 Enable EGW.

- Type in a descriptive name in Name, egw-1.
- Type in IP address of 911 Enable EGW in **FQDN or IP Address.**
- Set **Type** to **SIP Trunk**.
- Set **Location** to a configured Location.

Click **Commit** to save changes.

AVAYA			Last Logged on at Nov
Aura <sup>®</sup> System Manager 7.0			
Home Routing X			Go
Routing	Home / Elements / Routing / SIP Entities		
Domains			
Locations	SIP Entity Details		Commit Cancel
Adaptations	General		
SIP Entities	* Name:	egw-1	
Entity Links	* FODN or IP Address:	10.64.110.200	
Time Ranges	Turnor		
Routing Policies	Type.		
Dial Patterns	Notes:		
Regular Expressions	Adaptation:		
Defaults	Location:	DevConnect-Lab	
	Time Zone:	America/Denver	
	* SIP Timer B/F (in seconds):	4	
	Credential name:		
	Securable:		
	Call Detail Recording:	egress 🗸	
	Loop Detection		
	Loop Detection	On V	
	Loop Count Throshold:		
		5	
	Loop Detection Interval (in msec):	200	
	SIP Link Monitoring		
	SIP Link Monitoring:	Use Session Manager Configuration 🗸	
1			

Add another SIP Entity, Navigate to **Routing**  $\rightarrow$  **SIP Entities**.

- Type in a descriptive name in **Name**, egw-2.
- Type in IP address of 911 Enable EGW in FQDN or IP Address.
- Set **Type** to **SIP Trunk**.
- Set **Location** to a configured Location.

Click **Commit** to save changes.

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AVAYA			Last Logged on at Nov
Aura <sup>®</sup> System Manager 7.0			Go
Home Routing X			
▼ Routing	Home / Elements / Routing / SIP Entities		
Domains	「		
Locations	SIP Entity Details		Commit Cancel
Adaptations	General		
SIP Entities	* Name:	egw-2	
Entity Links	* FQDN or IP Address:	10.64.110.201	
Time Ranges	Туре:	SIP Trunk 🗸	
Routing Policies	Notes:		
Dial Patterns			
Regular Expressions	Adaptation:	¥	
Defaults	Location:	DevConnect-Lab v	
	Time Zone:	America/Denver 🗸	
	* SIP Timer B/F (in seconds):	4	
	Credential name:		
	Securable:		
	Call Detail Recording:	earess v	
	_		
	Loop Detection		
	Loop Detection Mode:	On v	
	Loop Count Threshold:	5	
	Loop Detection Interval (in msec):	200	
	SIP Link Monitoring	Use Session Manager Configuration	
	SIP LINK MONITORING:	Use Session Manager Configuration V	

#### 5.2. Add an Entity Link

Once the SIP Entities are added, edit EGW1-911-Enable SIP Entity. At the bottom of the page click **Add** under **Entity Links**.

- Set **SIP Entity 1** to Session Manager's SIP Entity
- Set **Protocol** to **TCP**
- Set **Port** to **5060**
- Set **SIP Entity 2** to the egw-1 SIP Entity added in previous step
- Set **Port** to **5060**

Click **Commit** to save changes.

Add	Remove							Filter: Enable
	Name		SIP Entity 1	Protocol	Port	SIP Entity 2	Port	Connection Policy
	* asm_egw-1_5060_	_TCP	asm 🗸	TCP 🗸	* 5060	egw-1 v	* 5060	trusted 🗸
< Selec	t : All, None							>

**Note**: Repeat this step for egw-2 SIP Entity.

### 5.3. Add a Routing Policy

Routing Policies will need to be added for both SIP Entities for EGW. Navigate to **Routing**  $\rightarrow$  **Routing Policies.** Click **New** to add a new Routing Policy for 911 Enable EGW.

- Type in the **Name** for Routing Policy.
- Select SIP Entity as a destination.
   Select SIP Entity, egw-1.
- Under **Time of Day**, set **Ranking** to **1**.

Click **Commit** to save changes.

ra <sup>®</sup> System Manager 7.0									Lasti	ogged on at No	vember 18, 2 4:33
lome Routing *									6a		Loc all
Routing	Home / Elements / F	Routing / Routing	Polici	ies							
Domains Locations	Routing Poli	cy Details							Comm	it Cancel	Help ?
Adaptations SIP Entities	General										
Entity Links		* No	me:	egw1							
Time Ranges		Disab	led:								
Routing Policies		* Retr	ies:	0							
Dial Patterns		No	tes:								
Regular Expressions	1000 C	10 00									
Defaults	SIP Entity as De	estination									
	Select										
	Name	FQDN or IP A	ddres	5-)					Туре	Notes	
	egw-1	10.64.110.200							SIP Trunk		
	Time of Day										
	Add Remove	View Gaps/Ove	rlaps								
	1 Item 🧷									Filte	er: Enable
	Ranking +	Name Hon	Tue	Wed	Thu	Fei	Sat	Sun	Start Time	End Time	Notes
		24/7	190	1	2	192	4		00:00	23:59	
	L +	- 117									

Note: Add another Routing Policy for EGW2-911-Enable. For Time of Day, set Ranking to 2.

#### 5.4. Add a Dial Pattern

Navigate to **Routing**  $\rightarrow$  **Dial Patterns.** Click **New** to add a new Dial Pattern for 911 Enable EGW. On **Dial Patterns** page, click on **New** 

- Set Pattern to 911
- Set **Min** and **Max** to 3
- Check box for **Emergency Call**
- Type in **Emergency Priority**
- Type in **Emergency Type**
- Add Originating Locations and Routing Policies (Screen capture not shown)
  - Select location configured
    - Select Routing Policies configured for 911 Enable EGWs and Communication Manager

**Note**: It is assumed that Routing Policy for Communication Manager is pre-configured with **Ranking** of **3**.

Click **Commit** to save changes.

AVAYA Aura <sup>®</sup> System Manager 7.0	_		_	_	_	_	Last Logged on at	December 24, 2015 11:23 AM
Home Routing X							0011	admin
▼ Routing	Home	/ Elements / Routing ,	/ Dial Patterns					0
Domains							Commit Commit	Help ?
Locations	Dia	Pattern Deta	lis				Commit Cancel	
Adaptations	Gene	eral						
SIP Entities			* Pattern: 9	11				
Entity Links			* Min: 2					
Time Ranges			• •• •					
Routing Policies			* Max: 3					
Dial Patterns		Eme	ergency Call:	<u> </u>				
Regular		* Emerge	ncy Priority: 1					
Defaults		* Emer	gency Type: F	ire				
			SIP Domain: -	ALL- 🗸				
			Notes:					
	Origi	nating Locations a	nd Routing Po	licies				
	Add	Remove						
	3 Ite	ms 🛛 🔁						Filter: Enable
		Originating Location Name	Originating Location Notes	Routing Policy Name	Rank 🔺	Routing Policy Disabled	Routing Policy Destination	Routing Policy Notes
		DevConnect-Lab		egw1	1		egw-1	
		DevConnect-Lab		egw2	2		egw-2	
		DevConnect-Lab		acm	з		acm	
	Selec	t : All, None						

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# 6. Configure the 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 for analog or digital telephones.

### 6.1. 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 **SUBSCRIBELIST** and **WMLHOME** URLs must be modified for a specific installation. The first parameter (*10.64.110.200*) represents the IP address of the private side of the primary EGW. The second parameter (*2*) is the **IP-PBX ID** number created in **Section 6**, **Step 6**.

```
## 911 Enable Settings
SET TPSLIST /
SET SUBSCRIBELIST http://10.64.110.200/2/r
SET PUSHPORT 80
SET PUSHCAP 2
SET WMLHOME http://10.64.110.200/wml/2/service.html
```

### 6.2. Avaya one-X® Communicator– ESL software installation

151	E911 Softphone Locator (ESL) 2	2.4 - 🗆
Welcome 2.4 Setu	to the E911 Softphone Locator Wizard	(ESL)
The installer wi your computer.	ll guide you through the steps required to install E911 So	oftphone Locator (ESL) 2.
WARNING: TH Unauthorized o or criminal pen	is computer program is protected by copyright law and i uplication or distribution of this program, or any portion o alties, and will be prosecuted to the maximum extent pos	nternational treaties. of it, may result in severe ( ssible under the law.

嘭	E911 Soft	phone Locator	(ESL) 2.4	
Protocol				<b>(</b> 9-1- ENABI
Which protocol	would you like to use to	communicate with th	e Emergency Gatew	ay
) HTTP (Un	encrypted)			
⊖ SSL/TLS	(Encrypted)			

j#	E911 Softphone Locator (ESL) 2.4 🛛 🗖 🔜
Emerger	ncy Gateway Settings
Please provide	e the IP address(es) or FQDN of the Emergency Gateway
Primary EG\ 10.64.110.	√: 200
Primary Port	:
Secondary I 10.64.110.1	EGW: 201
Secondary F 80	Port:
	Cancel / Back Next >

	E911 Softphone Locator (ESL) 2.4 -
IP-PBX S	Settings C9-1
Please provide	the IP-PBX ID for this workstation, as configured on the Emergency Gateway (EG <sup>1</sup>
IP-PBX ID:	

謬	E911 Softphone Locator (ESL) 2.4 🛛 🗖 🔜
Select	Installation Folder
The installer	r will install E911 Softphone Locator (ESL) 2.4 to the following folder.
To install in	this folder, click "Next". To install to a different folder, enter it below or click "Browse".
<u>F</u> older:	
C:\Progr	ram Files (x86)/intrado inc/E911 Softphone Locator (ESL) 2.4 Browse
C:\Progr	Tam Files (x86) (Intrado Inc \E 911 Sortphone Locator (ESL) 2.4 Browse           Disk Cost
C:\Progr Install E9 <u>E</u> ver Just	In Files (x86) (Intrado Inc \E 311 Softphone Locator (ESL) 2.4     Browse       Disk Cost     Inc \E 2.4 for yourself, or for anyone who uses this computer:       aryone     tme

0.	<b>ESL Installation</b> Confirm the insta	allation by clicking <b>Next</b> .
	退	E911 Softphone Locator (ESL) 2.4 - 🗆 🗙
	Confirm	Installation
	The installer i	s ready to install E911 Softphone Locator (ESL) 2.4 on your computer.
	Click "Next" t	o start the installation.
		Cancel < <u>B</u> ack <u>N</u> ext >



# 7. Configure Intrado / 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.

p		Descri	ption	
	Login The EGW is configured via http:// <ip-addr> in the add address of the primary EG</ip-addr>	a a web browser. Iress field of the w W. Log in with th	To access the web interface, enter veb browser, where <i><ip-addr></ip-addr></i> is the label appropriate credentials. Click <b>Login</b>	IP n.
	C 9-1-1° ENABLE EGWLANNALY Server Time How 25 2015 015	GATEWAY		
	Emergency	Gateway Login	EGW access requires a password.	
	Password:	Remember my Username	If you have not received your username and password by email it can be obtained by contacting your account manager.	
		Forgot your passwo	ord? Click hern.	
	Dashboatd -> Logh Copyright 2010-2015 © Intrado. All Rights Reserved (v5	.0.0.234)		

Step							De	script	ion						
2.	Main F The ma	age in pa 1-1 BLE	ge E	of the MERG strame 50 werTake 190 werTake No	EGW ENCY Wildweigiactom MARY w 25, 2015 (01:33	will aj GATEV	ppear. way						Lar	Welcome Logen New 25, 2	t, Root I 1015 91.31 Log
	Provesio Statu	ning n		Auto Disco Logs	very	System St Reports	atus	Configur CDRs	ation	Test I Alarms	vlođe	Des) Maintenance	: Alert	S He	lp
	General Info	rmation	Last	12 Months	Endpoints (	Pesk Repor	ted:								
	Server Role:	Primary		January	February	March	April	May	June	July	August	September	October	November	Decen
	PBX Count:	2	Total	0	0	0	0	0	0	0	Q.	0	0	10	0
	ERLs Count:	6	Date	0000-00-00	0000-00-00	0000-00-00	0000-00-00	0000-00-00	0000-00-00	0000-00-00	0000-00-00	0000-00-00	0000-00-00	2015-11-14	0000-0
	Maximum Endpoints Allowed:	100													
	Endpoints Count:	9													
	Provisioned Endpoints Count:	9													
	Billable Endpoints:	9													
	Active Alarms Count:	16													
	Switches Count:	1													

Step				Desc	ription						
3.	<b>ERS</b> 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 exa	ample bel	ow shows	the setting	gs used for	r the			
	compliance test	. The nec	cessary v	alues for	each field	d shown fo	r the 911	Account			
	Settings and the	ECRC	List are	provided	by 911 E	nable for c	onnection	to the ER	S.		
	The ECRC list s	shows the	phone i	number of	f the ECR	C. This n	umber is d	lialed thro	ugh		
	Session Manage	er so it co	ntains th	ne precedi	ng 9 (AR	S feature a	iccess cod	e) followe	ed by		
	the 11-digit nun	nber. For	security	y reasons,	911 Enal	ble Primary	y IP and E	CRC List			
	number has bee	n change	d.								
	80.44	MERGEN	CY GATE	EWAY							
	9-1-1	banes 80WLaway	0.0043					Last Login: Nov 25. 3	015-01.05 PM		
	🕨 ENABLE 🗮	er Time: Nov 25, 201	501/48/11 PM EST						Log Out		
	Broussioning	uto Discovery	Surtem D	tatus	dingabad	Test Mode	David Alexe		da		
	Dashboard Account	IP-PEX	Security De	esk Not	tification	Advanced	Task Scheduler	Certifica	tes		
	Callback	IBS Arrowed	Distillan	Times Pattings	East Contractor	Red or and	100E Labora	Chart the shart	2014.4		
	Cambrie Groop	the Account	Logi man	comp seriod:	paror second:	Proundancy	Server Server	oper organization	0714		
	G11 Account Entlines	_	_		September	_	_	_			
	Los Sono Calle	Yer.			CONC DIA			( Inter			
	011 Eastly Drivery ID	102 142 1 1			Priority 1:	914385551212		Delete			
	911 Enable Primary IP.	196-199-1-1							1000		
	STIEnable Secondary IP:							Add a M	umper		
	911 Enable Tertiary IP:	10.240									
	Network Protocol:	TCP									
	ERS Version:	3.X									
	SOAP Username:	hungegw									
	SOAP Password	b9KsWa									
	Account ID:	079766ED-ESE	1-4184-837A-FF	790A833E91							
	Token:	BF711720-298	E-4956-A259-128	ED3E3CF313							
	Location Determination Method	FROM_EXT									
	Default Customer Name:	Avaya									
	SOAP Authentication Username:	soap911									
	SOAP Authentication Password:	6x;9MWp32+0	5								
	SOAP Server URL:	https://GFLab	QA05.connexon.	.com							
	CPM Unprovisioned Calls Route:	PBX									
	Proxy Enabled:	No									
	Allow CSZ Addresses	Ves									
				Edit							

Step	Description
4.	<b>Extension-Bind Numbers</b> 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.
	EMERGENCY GATEWAY         Welcome, Root User           Instrume         600 Junyacom           Sever Tiese         600 Junyacom           Provisiponing         Auto Discovery           Sever Tiese         Sever Tiese           Configuration         Test Mode           Dischoared Account         IP-PEX
	Cattback Global ERS-Account Dia/ Plan Timer Settings Ratch Settings Redundancy SOAP Server NAT Trevenal RLM Extension-Bind Numbers Callback Settings
	Add a Number  Add a Number  Duration:  Use 10 Digit for Caliback  Except for numbers in this RegEe  [Not Specified]  Edit
	Callback Digit Mapping List No Digit Map Configured Add a Digit Map
5.	<b>IP-PBX</b> <b>Steps 5</b> – <b>7</b> define the parameters needed to connect to Session Manager via a SIP trunk on the private side of the EGW. Navigate to <b>Configuration</b> $\rightarrow$ <b>IP-PBX</b> to configure these settings. First, an IP-PBX is defined by clicking the <b>Add a new IP-PBX</b> button. The example below shows the IP-PBX created for the compliance test. Click the IP-PBX name to view the details.
	Provisioning         Auto Discovery         System Status         Configuration         Test Mode         Desk Alert         Help           Dashboard Account         IP-PBX         Security Desk         Notification         Advanced         Task Scheduler         Certificates           IP-PBX         IP-PBX
	IP-FEX List Add a new IP-PEX Add a new IP-PEX Add a new IP-PEX Add a new IP-PEX

Step	De	escription	
6.	IP-PBX – Continued		
	The IP-PBX was created with the follow	ving parameters. Us	se default values for all
	other fields.		
	Set the IP-PBX Name to a description	riptive name.	
	• Set the <b>IP-PBX Type</b> to <i>Avaya</i> .		
	• Set the <b>IP-PBX Version</b> to <b>V6</b> .		
	• Set the <b>Protocol</b> to <i>SIP/TCP</i> .		
	( <b>Section 6</b> , <b>Step 1</b> ) and the ESL installa	ya H.323 and SIP Te tion ( <b>Section 7</b> , <b>Ste</b>	elephone 46xxsettings file <b>p 5</b> ).
	IP-PSX List Add a new IP-PBX	Add a new IP-PBX	
	AvayaAuraCM	IP-PBX Name:	AvaybAuraSM
	AvayaAura5M	IP-PBX Туре:	Awaya Aura 🐱
		IP-PBX Version:	V6 v
		Protocol:	SIP/TCP +
		Advanced	
		Endpoint ID Field:	CONTACT 🤟
		Domain(s):	Add
		DNIS Prefix:	
		Local Gateway Prefix	
		Local Gateway Suffix	
		Redirected DNIS (RDNIS):	None v
		Callback Use VIA Header	No v
		Callback Use Original PAE	No v
		Use Home Numbering Plan	Na v
		IP-PEX Preferences:	Use Default Settings
			Back Save

Step		Desci	ription			
7.	IP-PBX – Continued					
	The IP-PBX created in the prev	ious step ca	n be comprised of n	nultiple serve	ers. To	o view
	the list of servers, click the + ic	on next to th	ne IP-PBX name. Th	ne example b	below	shows
	the server list for the IP-PBX na	amed Avaya	AuraSM created fo	r the complia	ance to	est.
	The list contains a single server	named $\tilde{SM}$	Server. Click the se	erver name to	o see t	he
	details.					
	A server can be added by clicki	ng the Add	PBX Server button	. Enter a de	scripti	ive
	name for the Server Name. Set	the Signali	ng IP Address/FO	<b>DN</b> to the IP	addre	ess of
	the Avava Server terminating th	ne SIP trunk	at the far-end. Use	default valu	les for	all
	other fields.					
	IP-P8X		ID DDV County	_	te	Defete
	List Add a new IP-PIIX	Add FBX Server	Sector Sector	1	Lun	Delete
	E AvayaAuraCM		IP-PBX Server ID:	-		
	AvayaAuraSM		IP-PBX Name:	AvaysAuraSM		
	SMSeiver		Server Name:	SMServer		
			Signaling IP Address/FQDN:	10.64.110.13		
			Callback Port:	5060		
			Connection Timeout:	30		
			Monitoring Enabled:	Yes		

Step			Descripti	on				
<u>8.</u>	Emerg The ER associa navigat and clic will app comple under A Action ERL ba	ency Response Locations (E L is a location identifier that tion is contained in a batch fill e to the <b>Provisioning</b> $\rightarrow$ ERI ck the <b>Upload</b> button. At the pear associated with the batch te the upload but are not all sl Actions. Once the file is valid s. Once this completes, the St attch file is shown in Step 9.	Execution of the second	ed with a ph I to the EGV ter the file na the screen, S following ac e screen belo <b>Batch Proc</b> hange to <b>Fin</b>	ysical ac V. To pe ame in t Status a ctions ar ow. Ney ess whic nished.	ddress. T erform th he <b>Batch</b> nd <b>Action</b> e necessa ct, click <b>V</b> ch will ap An exam	This is up Filo ns co ry to Valio opean pple	pload, e field olumns o late r under of an
	Add ER: Show 10 v	anthies		Search				
	ERL ID O	Address 0	Call Delivery Type	Security Desk Mode 0	is Remote 0	Art	ons	
	TESTI	12121, GRANT STREET, THORNTON CO, USA, 88241	Local Trunking	Call Monitoring	No	More Details	1.00	Delete
	LOCI	1300, W 120TH AVE (04-HG1L WESTMINSTER CO, USA, 80234	ERS-	Call Monitoring	No	More Details	Edit	Delete
	LOCZ	1300, W 120TH AVE (04-H32), WESTMINSTER CO, USA, 80234	ERS	Call Munitoring	No	More Details	Fd8	Detete
	LOC3	1300, W 120TH AVE (04-H83), WESTMINISTER CO, USA, 80234	ERS	Call Monitoring	No	More Details	1.48	Delete
	LOC4	1300, W 1207H AVE (04-H04), WESTMINISTER CO, USA, 80234	895	Call Monitoring	No	More Details	tat	Delete
	LOCS	1300, W 120TH AVE (D4-H35), WESTMINISTER CO, USA, 80234	ERS	Call Monitoring	No	More Octails	Edit	Deietz
	Showing 1 to	6 of 6 entries				First Tree	*	Mest Last

			De	escriptio	n					
).	Provisioned End	points		•						
	All endpoints that	can not be a	uto-disco	vered, sh	ould b	e manuall	ly provis	ione	d so that	t
	each extension tha	t is not auto-	discovere	ed is asso	ciated	with an F	RI Th	is as	sociation	n
	is contained in a h	atch file unlo	aded to f	he FGW	Ton	erform th	is unload	lo uo. I nav	vigate to	
	the <b>Provisioning</b>	$\rightarrow$ Endpoint	e tob En	tor the fi	. 10 p	a in the <b>B</b>	atch Fil	1, 110 0 fial	ld and	,
	aliak the Upleed k	<b>PENUPUII</b>	s tau. En	of the se	roon S	totug on	A officer			
	click the <b>Opload</b> t	oution. At th		of the sc	reen, s		ACTION	s coi	umms	
	will appear associa	ated with the	batch file	e. The fo	ollowir	ig actions	are nece	essary	y to	
	complete the uploa	ad but are no	t all show	n in the	screen	below. N	vext, clic	K V8	alidate	
	under Actions. Or	ice the file is	validated	i, click <b>E</b>	Batch H	rocess w	hich will	l app	ear unde	er
	Actions. Once this	s completes,	the <b>Statu</b>	s will ch	ange to	<b>Finishe</b>	d.			
	EMED	SENCY GATEW	VAV							
	2011	SPILLET ONLY							All shares of the state	a facine i
	(* 9-1-1 Herberg							Laria	Welcome, Root I gin Nov 25, 3015 013	User 5.PM
	C 9-1-1 ENABLE	STWL AND						Law La	Welcome, Root I per Nov (1), 1915 (11) Log	User 5 PM Out
	C 9-1-1 ENABLE	SAVLowquecters Tabloviev ww.25, 2015 01:5005 HTM EST Elscovycry System	n Stattus	Configuration	Те	ut Mode	Desk Alert	Lartin	Welcome, Root I per Nov (5, 1975 07.) Log	User 1 Hu Out
	C 9-1-1 ENABLE Provisioning Ents End End End End End End End End End End	SAVLweencase Halwary Navz's Attis of Solars Haves Discovery System Is Elite Pool	n Status   NENA 2	Configuration	Та	ut Mode	Deck Alert	Lie Lie	Welcome, Root I ger Nov (5, 1975 (7-3) Log Halfp	User Linu Out
	C 9-1-1 ENABLE Provisioning ERLS Entpoint Entpoint	SAVLawayasaran Hawaran Nov A. 2015 O I Salas The EST Neconvery System Is EJTh Pool	n Status NENA 2	Configuration	Te	it Mode	Desk Alert	Lar La	Welcome, Root ger Nav (8, 2015 ma) Log Halp	User L.Pu Out
	C 9-1-1 ENABLE Provisioning ERLs Endpoint Endpoint	SAVLweywarze TabAlor New X, Attiotopop PM EST Ancovery System Is EUN Pool	n Status NENA 2	Configuration	<u></u> 1	# Mode	Desk Alert	Lor Lo	Welcome, Root I ger Nav (K. 1974 dr. J Log Halfp	User L PM Out
	C 9-1-1 ENABLE Provisioning ERL Endpoint Tridgoints Rater Share 5 w entries	SAVLwegeuran Hamaio Hamaio Hancovary System In Edite Pool	n Status NENA 2	Configuration	Search.	at Mode	Desk Alert	Lar La	Welcome, Root I ger New (K. 1956 or J Log Help	User Dut
	C 9-1-1 ENABLE From the filler From the filler	SAVLweywarse Hawar New X, 2015 October Parlies New X, 2015 October System Ta EUto Pool 1 O MAC Address O	NENA 2 PBX Name \$	Configuration	Search ERLID ©	it Mode	Deck Alert	Clima C	Welcome, Root J ye: New DL 1996 druit Log Hullp	User L PM Dut
	C 9-1-1 ENABLE  Provisioning  Auto D  Fills  Endpoint  Share 5 w entities  Extension © Device Name  11002	SIMU wegescare However New 24, 2015 OF SIGN FM EST Is EUTH Pool	NENA 2 PEX Name © AvayaAuraSM	Configuration IP Address \$ 10.04.10.78	Search ERE ID Q LOC1	at Mode   Is Remote C No	Desk Alert A	Ctions	Welcome, Root J en Nav (1, 1914 trui Log Halp Delete	User E.P.U Out
	C 9-1-1 ENABLE  Provestorment ERLs Enterpoint Enterpoint Enterpoint Externation: © Device Name 11002 11003	SIMU wegestram Haware Nov A. 2015 Of Store Film EST Stocowery System Is EUTH Pool COUTSBET922C 2CF4C54E80CD	PBX Name AvayaAuraSM	Configuration IP Address C 10.04.10.78 10.54.10.91	Search ERLID 0 LOC1	tt Mode	Desk Alert A Ett. Detais IEL Detais	ctions Edit	Welcome, Root I an Nav II. 1973 trui Log Holp Delete Delete	User Dut
	C 9-11-1 ENABLE Provisioning ERLs Entre files Extension © Device Name 11002 11003 11003	SAVLweywarzen Haware Ha	PBX Name © AvayaAuraSM AvayaAuraSM AvayaAuraSM	Configuration IP Address C 10.64,10,78 10.54,10,28 10.54,10,28	Search ERLID © LOC1 LOC1 LOC2	it Mode Is Remote C No Ne Ne	Deck Alert A ERL Details FRL Details FRL Details	ctions Edit Tatt	Welcome, Root J ge New (1, 1916 or J) Log Halp Debte Debte Debte	User E Pui Out
	C 9-11-1 ENABLE  Provisioning  Auto D  ERLs  Endpoint  Endpoint Endpoint  Endpoint Endpoint Endpoint Endpoint Endpo	SAVLawayaran Hawara Navan Nava Antis Desidos Harest Socowary System ts EUth Pool 000738E1922C 2CF4C54E80CD 84801786EC82 CC52AF107C98	PEX Name © AvayaAuraSM AvayaAuraSM AvayaAuraSM AvayaAuraSM	Configuration IP Address © 10.64.10.78 10.64.10.91 10.64.10.28 10.64.10.28	Search ERLID S LOC1 LOC1 LOC2 LOC1	It Mode	Deck Alert A ERL Octain TRL Octain TRL Octain TRL Octain	ctions Edit Tait Tait	Vietcome, Root I ge New (1, 1914 or J) Log Hallp Debte Debte Debte Debte	User E Pu Out
	C 9-1-1 ENABLE  Provisioning  Auto E  ERLs  Enternion  Show 5 w entities  Extension © Device Name  11002  11003  11004  11101	SINU weysarzen Hawarn Norcovery System Is EJI'h Pool 000738E1922C 2CF4C54E80CD 8480178EEC82 CC52AFJ07C98 8400179C4899	PBX Name C AvayaAuraSM AvayaAuraSM AvayaAuraSM AvayaAuraSM AvayaAuraSM	Conféguration 5 IP Address 5 10.64.10.78 10.54.10.288 10.54.10.288 10.54.10.288	Search ERL ID 0 LOC1 LOC1 LOC2 LOC1 LOC2 LOC1 LOC2	t Mode C Is Remote C No No No No No	Desk Alert A ERL Details FRL Details FRL Details FRL Details FRL Details FRL Details	ctions East East East East East East	Vielcome, Root I am Nav (1. 1974 01 al Log Halip Debete Debete Debete Debete Debete	User B M Out

ayer 2 ach ent ust be avigate st of la lick the addre NMP ( efault	Disco terpris config to the yer 2 s e Add ss of t Comm ERL	e layer gured o e <b>Auto</b> switche a swit he swit <b>unity</b> <b>ID</b> field	2 swit on the F <b>Disco</b> es. The tch but tch in t <b>String</b> d. Def	tch that h EGW so to $(\mathbf{very} \rightarrow )$ e example ton to en the <b>Switc</b> g field. En fault value	as Avaya that it can <b>Layer 2</b> I e below s ter the sw <b>ch IP</b> field nter the E les may b	H.323 be que <b>Discov</b> hows t vitch pa d and e RL wh e used	B or SIP te eried as particular ery $\rightarrow$ Swethe list use arameters. Enter the apperent the sy for all oth	lephon art of la v <b>itch</b> ta ed for t Enter ppropr vitch re ner fiel	nes conne ayer 2 di ab to disp the comp the man iate strin esides in ds.	ected to i scovery. play the pliance te nagement ig in the the
Provibionir Layer 2 Disco	switch	Auto Discov Layer 3 Discove	ieny	System Status	Configur					
Cluster	Switch			AN Discovery	- M	ation	Test Mode	De	sk Alert	Help
Show 10 v	entries	Stan	Brill Party	Discovered Port	5	earch.				
Switch o	SNMP Port 0	Scan ¢ Enabled	SNMP Version	SNMP Community String / 0 Security Name	Switch Type O	Detault ERL ID 0	Description 0	Vendor 0	Last 0 Update	Actions
10.64.10.5	161	Yes	Ze	public	Q-Bridge-MIB (Auto Detected)	LOC1	2535		2015-11-11 17:28:57	Edit Delete
	0791100100									Add a switch
10.5	4.10.5	1.10.5 161	6.10.5 161 Yes	1.10.5 161 Yes 2c	6.10.5 161 Yes Zc public	1.10.5 161 Yes Zc public (Auto Detected)	1.10.5 161 Yes Zc public Q-Bridge-MIB (Auto LOC1 Detected)	1.10.5 161 Yes Ze public (Auto LOC1 Detected)	A.10.5 161 Yes Zc public Q-Bridge-MIB (Auto Detected) LOC1	10.5         161         Yes         2c         public         Q-Bridge-MBB (Auto Detected)         LOC1          2015-11-11 17/28:57           ng 1 to 1 of 1 entries         rmst.         Previous

р	Description									
1.	Security Desk									
	Emergency ca	lls may b	e route	d to a S	Securit	y De	sk extensi	ion as v	well a	as being sent to
	the Emergenc	y Routing	g Servic	ce. Nav	vigate	to the	e Configu	ration	$\rightarrow$ S	ecurity Desk ·
	Groups tab to	create th	e Secu	rity Des	sk Lis	t. To	create a s	security	v desl	k, click Add a
	Security Desk compliance te	<b>Group</b> . st. Click t	The ex the <b>Edi</b>	ample t butto	below n to vi	shov ew tł	ws the Sec ne details.	curity I	Desk (	created for the
	Provisioning	Auto Discovery	Syste	em Status	Cont	guration	Test M	lode	Desk	Alert Help
	and the second						Concession of the local division of the loca			
	Dashboard Account Global Groups	(P-P5X	Securi	ty Desk	Notifica	tion	Advanced	Te	sk Scheduk	er Certificates
	Giebal Groups Security Desk Groups	IP-PEX	Securi	ty Desk Security D	Notifica esk Group	tion Configure	Advanced	Te	sk Schedul	er Certificates
	Giebal Groups Security Desk Groups SD1	IP-PEX	Securi	ty Desk Security Di Security De	Notifica esk Group isk Name:	tion Configure	Advanced stion SDT	Te	sk Scheduk	er Certificates
	Global Groups Security Desk Groups SD1 Add a Security Desk Groups	IP-PEX	Securi	Security D Security D Security De Display PAI	Notifica Electroops isk Name: Las Caller ID	tion Configure	Advanced Ston SDT Ma v	Te	sk Schedul	er Certificates
	Giobal Groups Security Desk Groups SD1 Add a Security Desk Grou	IP-PEX	Securi	Security Di Security Di Display PAI IP-PBX:	Notifica esk Group isk Name I as Caller ID	tion Configure	Advanced Sion SDT ReaynAuraSM v	Te	sk Schedul	er Certificates
	Cashboard Account Global Groups Security Desk Groups SD1 Add a Security Desk Grou	IP-PEX	Securi	Security Di Security Di Security De Display PAI IP-PBX: Security Di Name	Notifica esik Group isk Name: I as Caller ID	tion Configure ons	Advanced stion SDT AvaysAuraSht w	Required	Nute	er Certificates
	Deshboard Account Global Groups Security Desk Groups SD1 Add a Security Desk Grou	IP-PEX	Securi	Security D Security D Security De Display PAI (P-PBX: Security D Name	Notifica esk Group isk Name I as Caller ID esk Extensi	Configure cons Secu	Advanced SIGN SDT Ma v ArayaAuraSM v rity Desk Number	Required	Mute	Allow Mute/Unmute option
	Giebal Groups Gecurity Desk Groups Sp1 Add a Security Desk Grou	IP-PEX	Securi	Security Di Security Di Security De Display PAI IP-PBX: Security Di Name	Notifica esik Group sk Name: Las Caller ID esik Extensi Salit	Configure ons Secu 1100	Advanced Stion SDT No v AvaysAuraSht v rity Desk Number	Required	Mute Tes =	Allow Mute/Unmute option

# 8. Verification Steps

The following steps may be used to verify the configuration:

- On Avaya Aura® System Manager, navigate to Home → Session Manager → System Status → SIP Entity Monitoring .
  - Value in the **Conn. Status** column, should be **Up**. This verifies that the SIP connectivity between Avaya Aura® Session Manager and 911 Enable EGW is established successfully.

5 Items   Refresh Filter: Enab								
	SIP Entity Name 1 🔺	SIP Entity Resolved IP	Port	Proto.	Deny	Conn. Status	Reason Code	Link Status
0	acm	10.64.110.10	5061	TLS	FALSE	UP	200 OK	UP
$\bigcirc$	asm-remote	10.64.10.62	5060	TCP	FALSE	UP	200 OK	UP
$\bigcirc$	<u>eqw-1</u>	10.64.110.200	5060	ТСР	FALSE	UP	200 OK	UP
$\bigcirc$	<u>eqw-2</u>	10.64.110.201	5060	TCP	FALSE	UP	200 OK	UP

• On the EGW, verify the endpoints. Navigate to the **Provisioning → Endpoints** tab, verify that all endpoints are displayed.

rovisioning	Auto Discovery	System Status	Configuration	Te	est Mode	Desk Alert		Help
ERLs	Endpoints	ELIN Pool	NENA 2					
Endpoints Ba	atch							
ow 5 🗸 entries			Sear	rch:				
Extension 💠	Device Name 💠 MAC A	ddress 💠 PBX Name	▼ IP Address \$	ERL ID \$	Is Remote 💠	A	ctions	
11101	B4B017	78CA899 AvayaAuraS	M 10.64.10.92	LOC2	No	ERL Details	Edit	Delete
11002	00073E	E1922C AvayaAuraS	M 10.64.10.78	LOC1	No	ERL Details	Edit	Delete
11004	CC52AF	-3D7C9B AvayaAuraS	M 10.64.10.49	LOC1	No	ERL Details	Edit	Delete
11001	B4B011	786EC62 AvayaAuraS	M 10.64.10.238	LOC2	No	ERL Details	Edit	Delete

• 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**  $\rightarrow$  **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.

Provisioning	Auto Discovery	System Status	Configuration	Test Mode	Desk Alert	Help
Status	Logs	Reports	CDRs	Alarms	Maintenance	

Search CDRs	5			Download Call Detail Records				
Search from:	ch from: to:		Search:		Select by Month:		▼ Download	
Call Detail Show expire								d callbacks
Start Time	Duration (s)	Endpoint Caller ID	ERL ID	Callback Number	Call Destination	Wave File	Call Status	URL Data
Nov 13, 2015 05:25 PM	4	11004	LOC1	7209772872	ERS	Download	ANSWER	
Nov 13, 2015 05:24 PM	4	11004	LOC1	7209772872	ERS	Download	CANCEL	
Nov 13, 2015 05:24 PM	4	11004	LOC1	11004	Security Desk	Download	CANCEL	
Nov 13, 2015 05:22 PM	11	"IP Station 4" <11004>	LOC1	7209772872	ERS	View Peer	ANSWER	
Nov 13, 2015 05:22 PM	11	"IP Station 4" <11004>	LOC1	11004	Security Desk	View Peer	CANCEL	
Nov 13, 2015 05:21 PM	9	"IP Station 4" <11004>	LOC1	7209772872	ERS	View Peer	CANCEL	
Nov 13, 2015 05:21 PM	9	"IP Station 4" <11004>	LOC1	11004	Security Desk	View Peer	CANCEL	
Nov 13, 2015 05:08 PM	18	"to_PSTN" <5147452143>	No Location	"to_PSTN" <5147452143>	11002@10.64.110.10:1720	View Peer	ANSWER	
Nov 13, 2015 05:08 PM	15	"IP Station 2" <11002>	LOC1	7209772872	ERS	View Peer	ANSWER	
Nov 13, 2015 05:08 PM	14	"IP Station 2" <11002>	LOC1	11002	Security Desk	View Peer	ANSWER	
Pages / Rows	10 🗸	Previo	ous   <u>Next</u>	Go to page: Fi	rst Page 🗸 Go			

# 9. Conclusion

Intrado / 911 Enable Emergency Gateway 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**, along with Avaya one-X® Deskphones and Avaya one-X® Communicator.

## 10. Additional References

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

[1] Administering Avaya Aura® Communication Manager, Release 7.0, Document 03-300509, Issue 1, August 2015

[2] Administering Avaya Aura® Session Manager, Release 7.0, Issue 1, August 2015

[3] 911Enable Emergency Gateway System Guide 5.0 Nov 1<sup>st</sup>, 2015

[4] ESL Configuration Guide Rev. A, Rev. G, Nov 20, 2015

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