

Avaya Solution & Interoperability Test Lab

Application Notes for TriTech Inform 911TM R5.5 with Avaya Aura® Communication Manager R7.1 and Avaya Aura® Application Enablement Services R7.1 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for the TriTech Inform 911TM R5.5 solution to interoperate with Avaya Aura® Communication Manager R7.1 and Avaya Aura® Application Enablement Services R7.1.

TriTech is a desktop application that is used to answer emergency calls in a PSAP. Tritech Inform 911TM uses the Avaya Aura® Application Enablement Services' Telephony Services Application Program Interface (TSAPI) and Device, Media and Call Control (DMCC) Interface from Avaya Aura® Communication Manager to receive phone activity for agents and control Avaya IP Deskphones.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as the observations noted in **Section 2.2**, to ensure that their own use cases are adequately covered by this scope and results.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

TriTech Inform 911TM (Inform 911) is a Public Safety Answering Point (PSAP) solution used for handling Emergency Calls. Inform 911 uses the TSAPI interface provided by Avaya Aura® Application Enablement Services (AES) for call control. Inform 911 also uses the DMCC interface provided by AES for monitoring, sending DTMF and hook flash.

Inform 911 consists of Inform 911 server and Inform 911 workstations. All configuration related to AES is performed on Inform 911 server. Inform 911 workstations connect to AES via Inform 911 server. Inform 911 PSAP call taking application.

2. General Test Approach and Test Results

The compliance test included feature and serviceability testing as mentioned in Section 2.1.

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

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in these DevConnect Application Notes included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

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

For the testing associated with this Application Note, the interface between Avaya systems and Inform 911 did not include use of any specific encryption features as requested by TriTech.

2.1. Interoperability Compliance Testing

The compliance test validated the ability of Inform 911 to perform the following:

- Answering incoming Emergency Calls.
- Agent log-in and logout.
- Agent work modes such as Auto-In, ACW, etc.
- Answer and place calls to/from PSTN and internal Avaya endpoints.
- Call hold, mute, transfer, conference and DTMF.

Additionally, serviceability testing was performed to confirm the ability for Inform 911 to recover from common outages such as network outages and server reboots.

2.2. Test Results

All test cases passed.

2.3. Support

Technical support on Inform 911 can be obtained through the following:

- **Phone:** 800-987-0911
- **Email:** support@tritech.com

3. Reference Configuration

Figure 1 illustrates the compliance test configuration consisting of Avaya environment and, Inform 911server and Inform 911workstations. The Inform 911 controlled Avaya 9600 Series IP H.323 Deskphones via Inform 911 server. Incoming simulated Emergency Calls to Avaya were routed via Inform 911server, simulating a Central Office (CO). During the compliance test, TriTech products were deployed in TriTech labs, and connected to Avaya DevConnect labs via a VPN connection.

Note: Though incoming Emergency Calls to Avaya were routed via Inform 911 (SIP), the scope of this compliance test was to verify AES interoperability. It was suggested by TriTech to have simulated Emergency Calls routed via a CO simulator (SIP Trunks) because such is their typical deployment.

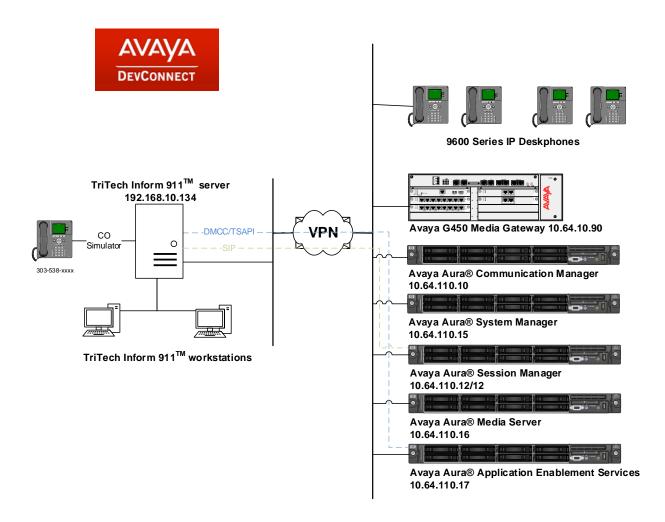


Figure 1 – Inform 911 Compliance Test Configuration

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4. Equipment and Software Validated

The following equipment and version were used in the reference configuration described above:

Equipment/Software	Release/Version
Avaya Aura® Communication Manager running on	7.1.2
virtualized environment	R017x.01.0.532.0
	Build 24184
Avaya Aura® Application Enablement Services running on virtualized environment	7.1.2
Avaya Aura® System Manager running on virtualized environment	7.1.2
Avaya Aura® Session Manager running on virtualized	7.1.2
environment	
Avaya Aura® Media Server running on virtualized	7.8.0.309
environment	
Avaya G450 Media Gateway	FW 39.17.0/1
Avaya 9600 Series IP Deskphone	
• 96x1 H.323	6.6.6
• 96x1 SIP	7.1.1.0
• 96x0 H.323	3.2.6
TriTech Inform 911 TM	5.500.9.5

Note: Inform 911 used Avaya TSAPI Client version 6.3.3 and Avaya DMCC SDK version 6.3.3.

5. Configure Avaya Aura® Communication Manager

This section provides the procedures for configuring Communication Manager. The procedures fall into the following areas:

- Verify Feature and License for the integration
- Administer Communication Manager System Features
- Administer IP Services for Application Enablement Services
- Administer Computer Telephony Integration (CTI) Link
- Add Station Extension
- Add Agent Login
- Add VDN
- Administer Skill
- Administer Vector

All the configuration changes in this section for Communication Manager are performed through the System Access Terminal (SAT) interface. For more details on configuring Communication Manager, refer to the Avaya product documentation in **Section 10**.

5.1. Verify Feature

Enter the **display system-parameters customer-options** command and ensure that **Computer Telephony Adjunct Links** is set to **y**. If this option is not set to **y**, contact the Avaya sales team or business partner for a proper license file.

```
display system-parameters customer-options
                                                                              Page 4 of 12
                                      OPTIONAL FEATURES
    Abbreviated Dialing Enhanced List? yAudible Message Waiting? yAccess Security Gateway (ASG)? nAuthorization Codes? yAnalog Trunk Incoming Call ID? yCAS Branch? nD Grp/Sys List Dialing Start at 01? yCAS Main? nChange COR by FAC? nChange COR by FAC? n
A/D Grp/Sys List Dialing Start at 01? y
Answer Supervision by Call Classifier? y
                                        ARS? y Computer Telephony Adjunct Links? y
                    ARS/AAR Partitioning? y Cvg Of Calls Redirected Off-net? y
           ARS/AAR Dialing without FAC? y
                                                   DCS (Basic). y
DCS Call Coverage? y
           ASAI Link Core Capabilities? n
           ASAI Link Plus Capabilities? n
                                                                   DCS with Rerouting? y
        Async. Transfer Mode (ATM) PNC? n
  Async. Transfer Mode (ATM) Trunking? n Digital Loss Plan Modification? y
                ATM WAN Spare Processor? n
                                                                                 DS1 MSP? y
                                                            DS1 Echo Cancellation? y
                                       ATMS? y
                     Attendant Vectoring? y
```

(NOTE: You must logoff & login to effect the permission changes.)

5.2. Administer Communication Manager System Features

Enter the **change system-parameters features** command and ensure that on Page 5 **Create Universal Call ID** (UCID) is enabled and a relevant UCID Network Node ID (1 was used in the test) is defined. Also ensure that on Page 13 that **Send UCID to ASAI** is set to **y**. Inform 911 relies on UCID to track complex calls (Transfers and Conferences).

```
change system-parameters features
                                                                      5 of 19
                                                               Page
                       FEATURE-RELATED SYSTEM PARAMETERS
SYSTEM PRINTER PARAMETERS
 Endpoint:
                        Lines Per Page: 60
SYSTEM-WIDE PARAMETERS
                                    Switch Name:
           Emergency Extension Forwarding (min): 10
         Enable Inter-Gateway Alternate Routing? n
Enable Dial Plan Transparency in Survivable Mode? n
                             COR to Use for DPT: station
               EC500 Routing in Survivable Mode: dpt-then-ec500
MALICIOUS CALL TRACE PARAMETERS
              Apply MCT Warning Tone? n MCT Voice Recorder Trunk Group:
     Delay Sending RELease (seconds): 0
SEND ALL CALLS OPTIONS
    Send All Calls Applies to: station
                                        Auto Inspect on Send All Calls? n
             Preserve previous AUX Work button states after deactivation? n
UNIVERSAL CALL ID
    Create Universal Call ID (UCID)? y UCID Network Node ID: 1
change system-parameters features
                                                               Page 13 of 19
                       FEATURE-RELATED SYSTEM PARAMETERS
CALL CENTER MISCELLANEOUS
          Callr-info Display Timer (sec): 10
                        Clear Callr-info: next-call
       Allow Ringer-off with Auto-Answer? n
   Reporting for PC Non-Predictive Calls? n
           Agent/Caller Disconnect Tones? n
         Interruptible Aux Notification Timer (sec): 3
            Zip Tone Burst for Callmaster Endpoints: double
 ASAI
                  Copy ASAI UUI During Conference/Transfer? n
              Call Classification After Answer Supervision? n
                                         Send UCID to ASAI? y
                For ASAI Send DTMF Tone to Call Originator? y
        Send Connect Event to ASAI For Announcement Answer? n
```

Prefer H.323 Over SIP For Dual-Reg Station 3PCC Make Call? n

5.3. Administer IP-Services for Application Enablement Services

Add an IP-Services entry for Application Enablement Services as described below:

- Enter the **change ip-services** command.
- In the **Service Type** field, type **AESVCS**.
- In the **Enabled** field, type **y**.
- In the Local Node field, type the Node name **procr** for the Processor Ethernet Interface.
- In the Local Port field, use the default of **8765**.
- Note that in installations using CLAN connectivity, each CLAN interface would require similar configuration.

change ip-s	ervices				Page	1 of	3
Service	Enabled	Local	IP SERVICES Local	Remote	Remote		
Type AESVCS	у р	Node rocr	Port 8765	Node	Port		

On Page 3 of the IP Services form, enter the following values:

- In the **AE Services Server** field, type the host name of the Application Enablement Services server.
- In the **Password** field, type the same password to be administered on the Application Enablement Services server in **Section 6.1**.
- In the **Enabled** field, type **y**.

change ip-ser		AE Services Adminis	stration	Page	3 of	3
Server ID	AE Services Server	Password	Enabled	Status		
1:	aes	*	У	in use		

Add an entry in node-names table for AES using **change node-names ip** command. Note that the **Name** should match the actual host name of AES. Type in the IP Address of AES in **IP** Address as shown below.

change node-name	es ip		Page	1 of	2
		IP NODE NAMES			
Name	IP Address				
aes	10.64.110.17				
ams	10.64.110.13				
asm	10.64.110.12				
cms	10.64.110.18				
default	0.0.0				
procr	10.64.110.10				
procr6	::				

5.4. Administer Computer Telephony Integration (CTI) Link

Enter the **add cti-link <link number>** command, where **<link number>** is an available CTI link number.

- In the **Extension** field, type a valid station extension.
- In the **Type** field, type **ADJ-IP**.
- In the **Name** field, type a descriptive name.

add cti-link 1		Page	1 of	3
	CTI LINK			
CTI Link: 1				
Extension: 69999				
Type: ADJ-IP				
				COR: 1
Name: AES CTI Link				

5.5. Add Station Extensions

A station extension needs to be added for PSAP call taker. Inform 911 uses this station for call control and monitoring. To add a station, enter the **add station** <**number**> command, where <**number**> is an available extension. Ensure that the station has **IP Softphone** enabled, and the Inform 911 application needs to know the **Security Code** in order to successfully register. Note that the **Security Code** configured should be same for all the stations that will be used by Inform 911. Configure other information as desired. During the compliance test two stations were configured, 50001 and 50002.

```
add station 50001
                                                                 Page 1 of
                                                                                5
                                       STATION
                                        Lock Messages? n
Security Code: *
Coverage Path 1:
Coverage Path 2:
Extension: 50001
                                                                           BCC: 0
    Type: 9630
                                                                            TN: 1
     Port: S00002
                                                                           COR: 1
     Name: H.323 Station 1
                                                                           COS: 1
                                         Hunt-to Station:
                                                                          Tests? y
STATION OPTIONS
                                             Time of Day Lock Table:
              Loss Group: 19 Personalized Ringing Pattern: 1
       Speakerphone: 2-way
Display Language: english
able GK Node Name
                                                   Message Lamp Ext: 50001
                                                Mute Button Enabled? y
                                                     Button Modules: 0
Survivable GK Node Name:
         Survivable COR: internal
                                                 Media Complex Ext:
   Survivable Trunk Dest? y
                                                        IP SoftPhone? y
                                                 IP Video Softphone? n
                               Short/Prefixed Registration Allowed: default
                                              Customizable Labels? y
```

5.6. Add Agent Login

An agent login needs to be added for PSAP call taker. To add an agent login, enter the **add agent-loginID** <**number**> command, where <**number**> is and available agent ID. During the compliance test two agent logins were created, 5001 and 5002.

```
add agent-loginID 5001
                                                                 1 of
                                                                        2
                                                          Page
                               AGENT LOGINID
                                                              AAS? n
               Login ID: 5001
                  Name: CC Agent 1
                                                            AUDTX? n
                    TN: 1 Check skill TNs to match agent TN? n
                   COR: 1
          Coverage Path:
                                                    LWC Reception: spe
          Security Code:
                                           LWC Log External Calls? n
          Attribute:
                                          AUDIX Name for Messaging:
                                      LoginID for ISDN/SIP Display? n
                                                        Password:*
                                            Password (enter again):*
                                                      Auto Answer: station
```

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add agent-loginID 5001 Pa	.ge 2 of 2
AGENT LOGINID	
Direct Agent Skill: Service	Objective? n
Call Handling Preference: skill-level Local Call	Preference? n
SN RL SL SN RL SL	
1: 1 1 16: 31: 46:	
2: 17: 32: 47:	
3: 18: 33: 48:	
4: 19: 34: 49:	
5: 20: 35: 50:	
6: 21: 36: 51:	
7: 22: 37: 52:	
8: 23: 38: 53:	
9: 24: 39: 54:	
10: 25: 40: 55:	
11: 26: 41: 56:	
12: 27: 42: 57:	
13: 28: 43: 58:	
14: 29: 44: 59:	
15: 30: 45: 60:	

On Page 2, configure the skill of the agent. The skill used here is as configured in Section 5.8.

5.7. Add VDN

A VDN needs to be added that will be used to route incoming Emergency Calls to PSAP call takers via vector programming. To add a VDN, enter the **add vdn <number>** command, where **<number>** is an available extension number. Enter a **Vector Number** to be used for the compliance test. Inform 911 monitors this VDN.

```
Page 1 of
add vdn 55501
                                                                           3
                            VECTOR DIRECTORY NUMBER
                             Extension: 55501
                                Name*: Tritech VDN 1
                          Destination: Vector Number
                                                             1
                  Attendant Vectoring? n
                 Meet-me Conferencing? n
                   Allow VDN Override? n
                                  COR: 1
                                  TN*: 1
                                               Report Adjunct Calls as ACD*? n
                             Measured: none
       VDN of Origin Annc. Extension*:
                            1st Skill*:
                            2nd Skill*:
                            3rd Skill*:
SIP URI:
* Follows VDN Override Rules
```

5.8. Administer Skill

To add a skill, Enter the **add hunt-group <number>**, where **<number>** is an available hunt group number. Configure a **Group Extension**, and set **ACD**, **Queue** and **Vector** to **y**.

```
add hunt-group 1
                                                           Page
                                                                 1 of
                                                                         4
                                 HUNT GROUP
           Group Number: 1
                                                         ACD? y
            Group Name: Skill 1
                                                       Queue? y
        Group Extension: 23001
                                                      Vector? y
            Group Type: ucd-mia
                    TN: 1
                   COR: 1
                                            MM Early Answer? n
                                     Local Agent Preference? n
          Security Code:
ISDN/SIP Caller Display:
            Queue Limit: unlimited
Calls Warning Threshold: Port:
 Time Warning Threshold:
                            Port:
```

On Page 2, set Skill to y.

add hunt-group 1 HUNT GROUP Skill? y Expected Call Handling Time (sec): 10 AAS? n Service Level Target (% in sec): 80 in 20 Measured: both Supervisor Extension:

5.9. Administer Vector

Enter the **change vector** <**number**> command to configure the vector, where <**number**> is the value configured in **Section 5.7**. During compliance test, the following vector configuration was used.

change vector 1		Page 1 of	6
	CALL VECTOR	-	
Number: 1 Multimedia? n Basic? y Prompting? y Variables? y	Name: Vector 1 Attendant Vectoring? n Meet-me Conf? n EAS? y G3V4 Enhanced? y ANI/II-Digits? y LAI? y G3V4 Adv Route? y CINFO? y BSR? y 3.0 Enhanced? y	Lock? ASAI Routing? Holidays? y	
01 wait-time	2 secs hearing ringback		
02 queue-to 03 wait-time	skill 1 pri m		
03 wall-time 04 goto step 05 stop	30 secs hearing ringback 2 if unconditionally		

6. Configure Avaya Aura® Application Enablement Services

All administration of AES is performed via a web browser. Enter <u>https://<ip-addr</u>> in the URL field of a web browser where <ip-addr> is the IP address of the AES server. After a login step, the **Welcome to OAM** page is displayed. Note that all navigation is performed by clicking links in the Navigation Panel on the left side of the screen, context panels will then appear on the right side of the screen.

The procedures fall into the following areas:

- Configure Communication Manager Switch Connections
- Configure TSAPI Link
- Configure Inform 911 User
- Obtain Tlink
- Confirm TSAPI and DMCC Licenses

AVAYA	Application Enablement Services Management Console	Last login: Fri Apr 20 16:53:07 2018 from 10.64.10.202 Number of prior failed login attempts: 0 HostName/IP: aes/10.64.110.17 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 7.1.2.0.0.5-0 Server Date and Time: Thu May 03 13:18:33 MDT 2018 HA Status: Not Configured
Home		Home Help Logout
▶ AE Services		
Communication Manag	er Welcome to OAM	
High Availability	The AE Services Operations, Administration, and Mana	gement (QAM) Web provides you with tools for
▶ Licensing	managing the AE Server. OAM spans the following adm	
▶ Maintenance	AE Services - Use AE Services to manage all AE	Services that you are licensed to use on the
▶ Networking	AE Server. • Communication Manager Interface - Use Comm	unication Manager Interface to manage switch
► Security	connection and dialplan.	
▶ Status	High Availability - Use High Availability to manage Licensing - Use Licensing to manage the license	
User Management	 Maintenance - Use Maintenance to manage the net Networking - Use Networking to manage the net 	
 Utilities 	Security - Use Security to manage Linux user a	ccounts, certificate, host authentication and
> Help	authorization, configure Linux-PAM (Pluggable A • Status - Use Status to obtain server status infor	
	 User Management - Use User Management to m 	
	user-related resources. • Utilities - Use Utilities to carry out basic connecti	ivity tests.
	Help - Use Help to obtain a few tips for using the	
	Depending on your business requirements, these admi administrator for all domains, or a separate administra	

6.1. Configure Communication Manager Switch Connections

To add links to Communication Manager, navigate to the **Communication Manager Interface** \rightarrow Switch Connections page and enter a name for the new switch connection (e.g. cm71) and click the Add Connection button (not shown). The Connection Details screen is shown. Enter the Switch Password configured in Section 5.3 and check the Processor Ethernet box if using the procr interface. Click Apply.

Communication Manager Interfac	ce Switch Connections			Home Help Logout
▶ AE Services				
 Communication Manager Interface 	Connection Details - cm71			
Switch Connections	Switch Password			
Dial Plan	Confirm Switch Password			
High Availability	Msg Period	30	Minutes (1 - 72)	
▶ Licensing	Provide AE Services certificate to sw	itch 🗌		
▶ Maintenance	Secure H323 Connection			
▶ Networking	Processor Ethernet	\checkmark		
▹ Security	Apply Cancel			
▶ Status				

The display returns to the **Switch Connections** screen which shows that the **cm71** switch connection has been added.

Communication Manager Interface	e Switch Connections			Home Help Logout
AE Services Communication Manager Interface Switch Connections	Switch Connections	Add Connection		
Dial Plan	Connection Name	Processor Ethernet	Msg Period	Number of Active Connections
High Availability Licensing Maintenance	cm71 Edit Connection Edit PE	Yes	30 eeper Delete Co	1 Survivability Hierarchy

Click the **Edit PE/CLAN IPs** button on the **Switch Connections** screen to configure the **procr** or **CLAN** IP Address(es) for TSAPI message traffic. The **Edit Processor Ethernet IP** screen is displayed. Enter the IP address of the **procr** interface and click the **Add/Edit Name or IP** button.

Communication Manager Interfa	ce Switch Connections	Home Help Logout
 AE Services Communication Manager Interface 	Edit Processor Ethernet IP - cm71	
Switch Connections	10.64.110.10 Add/Edit Name or IP	
Dial Plan	Name or IP Address	Status
High Availability	10.64.110.10	In Use
▶ Licensing	Back	
Maintenance		

Click the **Edit H.323 Gatekeeper** button on the **Switch Connections** screen to configure the **procr** or **CLAN** IP Address(es) for DMCC registrations. The **Edit H.323 Gatekeeper** screen is displayed. Enter the IP address of the **procr** interface and click the **Add Name or IP** button.

Communication Manager Interfa	ace Switch Connections	Home Help Logout
 AE Services Communication Manager Interface 	Edit H.323 Gatekeeper - cm71	
Switch Connections Dial Plan High Availability	10.64.110.10 Add Name or IP Name or IP Address 10.64.110.10 	
High Availability Eicensing Maintenance	Delete IP Back	

6.2. Configure TSAPI Link

In the Navigation Panel, select AE Service \rightarrow TSAPI \rightarrow TSAPI Link \rightarrow Add Link. Select the Switch Connection configured in previous section. Select the Switch CTI Link Number configured in Section 5.4. For Security, select Both.

Select **Apply Changes** once done. Note that once added, the TSAPI Service needs to be restarted. To restart TSAPI Service, navigate to **Maintenance** \rightarrow **Service Controller**, check box for **TSAPI Service**, and select **Restart Service** (not shown).

AE Services TSAPI TSAPI Li	nks Home Help Logout
▼ AE Services	
> CVLAN	Add TSAPI Links
> DLG	Link 1 v
> DMCC	Switch Connection Cm71 V
▶ SMS	Switch CTI Link Number 1 v
TSAPI	ASAI Link Version 8 V
 TSAPI Links TSAPI Properties TWS 	Security Both ~ Apply Changes Cancel Changes

6.3. Configure a Inform 911 User

In the Navigation Panel, select User Management \rightarrow User Admin \rightarrow Add User. The Add User panel will display as shown below. Enter an appropriate User Id, Common Name, Surname, and User Password. Select Yes from the CT User dropdown list.

Click Apply (not shown)	at the bottom of the pages to	save the entries.
-------------------------	-------------------------------	-------------------

User Management User Admin A	Add User		Home Help Logout
› AE Services			
Communication Manager Interface	Add User		
High Availability	Fields marked with * can n		
→ Licensing	* User Id	tritech	
 Maintenance 	* Common Name	tritech	
 Networking 	* Surname	tritech	
	* User Password	•••••	
▹ Security	* Confirm Password	•••••	
► Status	Admin Note		
▼ User Management	Avaya Role	None ~	
Service Admin	Business Category		
▼ User Admin	Car License		
 Add User 	CM Home		
Change User Password			
 List All Users Modify Default Users 	Css Home		
 Search Users 	CT User	Yes 🗸	
Utilities	Department Number		
> Holp	Display Name		

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Navigate to Security \rightarrow Security Database \rightarrow CTI Users \rightarrow List All Users and select the Inform 911 user and click Edit.

AE Services				
Communication Manager Interface	CTI Users			
High Availability	<u>User ID</u>	Common Name	<u>Worktop Name</u>	Device ID
Licensing Maintenance	O intranext	intranext	NONE	NONE
Networking	O oceana	oceana	NONE	NONE
Security	O spokaes	spok	NONE	NONE
Account Management	tritech	tritech	NONE	NONE

On the **Edit CTI User** panel, check the **Unrestricted Access** box and click the **Apply Changes** button. Click **Apply** when asked to confirm the change on the **Apply Changes to CTI User Properties** dialog (not shown).

Security Security Database C	TI Users List All Users		Home Help	Log
AE Services				
Communication Manager Interface	Edit CTI User			
High Availability	User Profile:	User ID	tritech	
Licensing		Common Name	tritech	
Maintenance		Worktop Name	NONE ~	
		Unrestricted Access		
Networking		Cell Origination (Termination and Device		
▼ Security	Call and Device Control:	Call Origination/Termination and Device Status	None 🗸	
Account Management				
Audit	Call and Device Monitoring:	Device Monitoring	None \vee	
Certificate Management		Calls On A Device Monitoring	None 🗸	
Enterprise Directory		Call Monitoring		
Host AA				
▶ PAM	Routing Control:	Allow Routing on Listed Devices	None 🗸	
Security Database	Apply Changes Cancel Cha	nges		
Control				

6.4. Obtain Tlink

To obtain the Tlink that will be used by Inform 911 to connect to AES, navigate to **Security** \rightarrow **Security Database** \rightarrow **Tlink.** During the compliance test, the select Tlink below was used.

Tlinks Tlink Name AVAYA#CM71#CSTA#AES AVAYA#CM71#CSTA-S#AES Delete Tlink

6.5. Confirm TSAPI and DMCC Licenses

A DMCC license is normally a VALUE_AES_DMCC_DMC from AE Services' WebLM. As a fall back, when a VALUE_AES_DMCC_DMC license is not available, an IP_API_A license from Communication Manager can be utilized in place of VALUE_AES_DMCC_DMC. Please consult product offer documentation for more details. If the licensed quantities are not sufficient for the implementation, contact the Avaya sales team or business partner for a proper license file.

From the left pane menu on Application Enablement Services Management Console, click Licensing \rightarrow WebLM Server Access. A Web License Manager login window is displayed. Enter proper credentials to log in. Click Licensed products \rightarrow APPL_ENAB \rightarrow Application_Enablement from the left pane. The Application Enablement Services license is displayed in the right pane. Ensure that there are enough VALUE_AES_DMCC_DMC and VALUE_AES_TSAPI_USERS licenses available.

WebLM Home	Application Enablement (CTI) - Rele	ase: 7 - SID: 10	503000 Standa
Install license	You are here: Licensed Products > Application Enablement > View License Capacity		
Licensed products		_	
APPL_ENAB	License installed on: July 11, 2017 5:33	:16 PM +00:00	
 Application_Enablement 	_		
View license capacity	License File Host IDs: V4-3C	-72-CC-66-1C-01	
View peak usage			
AVAYA_OCEANA	Licensed Features		
►Avaya_Oceana			
Avaya_Aura_Web_Gateway	10 Items 💝 Show All 🗸		
►Avaya_Aura_Web_Gateway	Feature (License Keyword)	Expiration date	Licensed capacity
CE	Unified CC API Desktop Edition VALUE_AES_AEC_UNIFIED_CC_DESKTOP	permanent	1000
►COLLABORATION_ENVIRONMENT	CVLAN ASAI		
СММ	VALUE_AES_CVLAN_ASAI	permanent	16
▶Communication_Manager_Messaging	Device Media and Call Control VALUE_AES_DMCC_DMC	permanent	1000
Configure Centralized Licensing	AES ADVANCED SMALL SWITCH		
COLLABORATION_DESIGNER	VALUE_AES_AEC_SMALL_ADVANCED	permanent	3
Collaboration_Designer	DLG	permanent	16
COMMUNICATION_MANAGER	VALUE_AES_DLG	parmanan	
Call_Center	TSAPI Simultaneous Users VALUE_AES_TSAPI_USERS	permanent	1000
▶Communication_Manager	AES ADVANCED LARGE SWITCH	permapent	3

7. Configure Avaya Aura® Session Manager

During the compliance test, incoming Emergency Calls to Session manager were routed via SIP from Inform 911 server. Though SIP interoperability was not the scope of this test, this section details the configuration performed for SIP connectivity to Inform 911 server. A SIP trunk was created on Session Manager to communicate to Inform 911 server.

Configuration for Session Manager is performed via System Manager. Log on the System Manager web console via a web browser; <u>https://<IP-Address></u> where IP-Address is the IP Address of System Manager.

Recommended access to System Manager is via FQDN.	
Go to central login for Single Sign-On	User ID:
If IP address access is your only option, then note that authentication will fail in the following cases:	Password:
First time login with "admin" account Expired/Reset passwords	Log On Cancel
Use the "Change Password" hyperlink on this page to change the password manually, and then login.	Change Password
Also note that single sign-on between servers in the same security domain is not supported when accessing via IP address.	O Supported Browsers: Internet Explorer 11.x or Firefox 48.0, 49.0 and 50.0.
This system is restricted solely to authorized users for legitimate business	

Once logged on, select **Routing** under **Elements** sub-section.

em Manager 7. I		Go 🖌 🖌 a
Users	🔁 Elements	Services
Administrators	Avaya Breeze™ Communication Manager	Backup and Restore
Directory Synchronization	Communication Manager	Bulk Import and Export
Groups & Roles	Conferencing	Configurations
User Management	Device Services	Events
User Provisioning Rule		Geographic Redundancy
	Equinox Conference	Inventory
	IP Office	Licenses
	Media Server	Replication
	Meeting Exchange	Reports
	Messaging	Scheduler
	Presence	Security
	Routing	Shutdown
	Session Manager	Solution Deployment Manager
	Web Gateway	Templates
	Work Assignment	Tenant Management

On the left pane, select **SIP Entities** and select **New** (not shown) to create a SIP Entity for Inform 911 server. Screen capture below displays the SIP Entity and SIP Entity Link that was created during the compliance test.

AVAYA			Last Logged on at	: October 9, 2018 1:10 PM
Aura [®] System Manager 7. I			Go	▶ Log off
Home Routing *				
▼ Routing ◀	Home / Elements / Routing / SIP Entities			0
Domains				Help ?
Locations	SIP Entity Details		Commit Cancel	
Adaptations	General			
SIP Entities	* Name	: Tritech		
Entity Links	* FQDN or IP Address	: 192.168.120.44		
Time Ranges	Туре	SIP Trunk		
Routing Policies	Notes	:		
Dial Patterns				
Regular Expressions	Adaptation			
Defaults	Location			
		: America/Denver		
	* SIP Timer B/F (in seconds)	: 4		
	Minimum TLS Versior	: Use Global Setting 🗸		
	Credential name	:		
	Securable	: 🗆		
	Call Detail Recording	egress 🗸		
	Entity Links			
	Override Port & Transport with DNS SR\	: 🗆		
	Add Remove			
	1 Item 🛛 🥭			Filter: Enable
	□ Name ▲ SIP Entity	1 Protocol Port SIP Entity 2	Port Connection Policy	n Deny New Service
	asm_Tritech_5060_TCP asm 🗸	TCP 💙 * 5060 Tritech 🗸	* 5060 trusted	✓
	Select : All, None			
	SIP Responses to an OPTIONS Rec	juest		
	Add Remove			
	0 Items 🖓			Filter: Enable
	Response Code & Reason Phrase		Mark Entity No Up/Down	tes
			Commit Cancel	

Continuing from above, select **Dial Patterns** and select **New** to add a new dial pattern. This dial pattern was used to route calls from Inform 911 server to Communication Manager. During the compliance test, the VDN configured in **Section 5.7** was dialed by CO emulator on Inform 911 server. The screen capture below displays the dial pattern that was used during the test.

AVAVA			Last Logged on at October 9, 2018 1:10 PM
Aura [®] System Manager 7. I			Go Log off
Home Routing *			
▼ Routing ◀	Iome / Elements / Routing / Dial Patterns		0
Domains			Help ?
Locations	Dial Pattern Details	1	Commit Cancel
Adaptations	General		
SIP Entities	* Pattern: 55501		1
Entity Links	* Min: 5		-
Time Ranges	* Max: 5		
Routing Policies	Emergency Call:		
Dial Patterns	Emergency Priority: 1		
Regular Expressions			
Defaults	Emergency Type:		
	SIP Domain: -ALL-	~	~
	Notes:		
	Originating Locations and Routing Policies		
	Add Remove		
	1 Item 2		Filter: Enable
	Originating	Routing Routing	
	Originating Location Name Location Notes	Policy Name Rank Polic Disab	
	DevConnect	cm71 0	acm71
	Select : All, None		

8. Configure TriTech Inform 911[™]

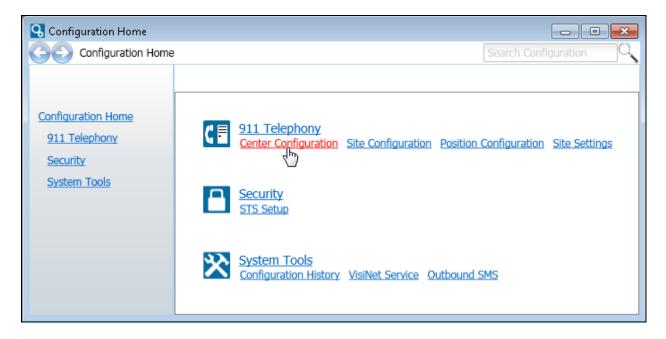
Configuration in this section is performed by TriTech engineers. Following information is for informational and reference purposes only. Configuration information in this section does not necessarily match the compliance tested configuration.

Note: The configuration in this section was provided by TriTech.

8.1. Configure Test Center

To Configure Centers, Sites, Connections and Positions information, start one of the installed Inform 911 workstations. From the **Tools** menu, select **Configuration Utility** (not shown).

The Configuration Home application will appear and display the menu of configuration options.



Select **Center Configuration** from the menu. Enter a center **Identity** and **Name**. The identifier will be used in other configurations. The name is for descriptive use. The center is not controlled in the server applications so these values can contain any values.

G Telephony Center Configura	ation	
Configuration Home	> 911 Telephony > Center Configuration	Search Configuration
Configuration Home 911 Telephony Center Configuration Position Configuration Site Configuration Site Settings Security System Tools	911 Telephony Center Configuration Use this utility to configure the telephony centers. Select a center to edit or create a new center by entering the values below. Inform911 ▼ Identify this center as Inform911 Name this center as Inform911 Name Delete	Cancel

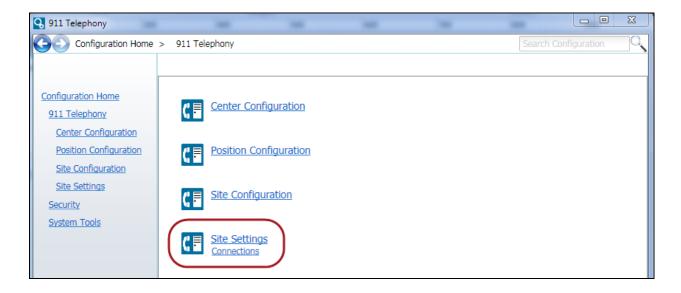
8.2. Configure Test Site

Select **Site Configuration** from the menu. Select the **Center** configured above and type an **Identity** and **Name**. This must be done before configuring QRConnect. QRConnect is an internal component of Inform 911 that is used for connectivity to AES.

Configuration Home > 911 Telephony > Site Configuration Search Configuration 911 Telephony 911 Telephony Site Configuration Use this utility to configure the telephony sites. Select a site to edit or create a new site by entering the values below. Site Configuration Select a site to edit or create a new site by entering the values below. Inform911 Identify this site as System Tools SDLab41 Name this site as SDLab41 Name	G Telephony Site Configuratio	n	
911 Telephony Use this utility to configure the telephony sites. Center Configuration Select a site to edit or create a new site by entering the values below. Site Configuration Inform911 Site Settings Identify this site as SDLab41 System Tools Name this site as SDLab41 Name	Configuration Home	> 911 Telephony > Site Configuration	Search Configuration
	Configuration Home 911 Telephony Center Configuration Position Configuration Site Configuration Site Settings Security	911 Telephony Site Configuration Use this utility to configure the telephony sites. Select a site to edit or create a new site by entering the values below. Inform911	

8.3. Configure Site Connections

From the Configuration Home, select Site Settings Connections.



Telephony Connections Col	nfiguration > 911 Telephony > Sit	e Settings > Connection	IS	(Gearch Configuration
<u>Configuration Home</u> <u>911 Telephony</u> <u>Center Configuration</u>	911 Telephony Connec Use this utility to configue each center and site.	-	the telephony system. En	iter the conr	nection address and port for
Position Configuration	Center	Site	Remote Machine	Port	Interface 🦲
Site Configuration	Inform911	AgSite	192.168.17.15	911	Asterisk
Site Settings	Inform911	TritechSD	192.168.17.201	911	Asterisk
Connections	Inform911	SDLab41	192.168.17.201	911	Avaya
Security	Inform911	SidDev	192.168.100.141	911	Asterisk
System Tools	Inform911	KentDev	10.99.3.120	911	Asterisk
	Inform911	ENGINEERING	ING 10.99.17.122 9		Asterisk
	Inform011	ControlMain	102 160 17 15	011	Actorick
	Center Inform911 Nar	me	Ŧ		
	Site SDLab41 Name	8	v		
		_			
	Remote Machine 192.1	168.17.201			
	Port 911				
	Telephony System Interfa				
	New Connection Delete	e Connection	Sa	ve	Cancel

Select the **Center** and **Site** from the dropdown lists or click on the applicable item in the grid.

Continuing from above, select the option for the applicable **Telephony System Interface** type, **Avaya** in this case. This should match the value as configured in **Section 8.5.1** in the QRConnect application.

Configuration Home	> 911 Te	lephony	> Site Settings > Connection	ons	2	Search Configuration			
nfiguration Home 911 Telephony Center Configuration		utility to	Connections Configuration configure the site connections ite.	to the telephony system. Er	nter the conr	nection address and po			
Position Configuration	Center		Site	Remote Machine	Port	Interface			
Site Configuration	Inform911	l	AgSite	192.168.17.15	911	Asterisk			
Site Settings	Inform911	l	TritechSD	192.168.17.201	911	Asterisk			
Connections	Inform911	l	SDLab41	192.168.17.201	911	Avaya			
Security	Inform911	l	SidDev	192.168.100.141	911	Asterisk			
System Tools	Inform911		KentDev	10.99.3.120	911	Asterisk			
	Inform911		ENGINEERING	10.99.17.122	911	Asterisk			
	Toform011		ControlMain	102 160 17 15	011	Actorick			
	Center	Inform	911 Name	~					
	Site	SDLab4	11 Name	Ŧ					
	Remote Ma	achine	192.168.17.201						
	Port 911								
	Telephony System Interface Avaya SoftSwitch								

From the **Configuration Home**, select **System Tools** → **Options** (not shown).

- Enter the Inform 911 server IP Address in the **Bind Listening TCP/IP address**.
- Enter the **Listening Port** as configured on Inform 911 server.

			Option	15
Site Settings	Global Settings	General	System ALI Formats ALI Steering Timers Clocks International Internation Internatin Internatin International International Internatione	rface Ports Positions Wireless Alarms een On Black CTI API Clients Listening Port: 1088 Bind Listening TCP/IP address: 192.168.17.201 Reporting Create IQSubmit report files SMS Create a CallNote for each SMS
				OK Cancel

8.4. Configure Positions

To configure positions, select **Position Configuration** from **Configuration Home**.

3 911 Telephony		
Configuration Home	> 911 Telephony	Search Configuration
Configuration Home 911 Telephony	Center Configuration	
Center Configuration Position Configuration	Position Configuration	
Site Configuration		

Select the workstation machine ID, which is the hostname of the workstation, from the **Machine** drop-down list.

🚱 Telephony Position Config	uration								
Configuration Home	e > 911 Telephony	y > Position Configura	tion			Search Configuration			
							(
	911 Telephon	y Position Configuration	on						
Configuration Home									
911 Telephony		Use this utility to configure the telephony positions. Identify each call answering machine as belonging to a center and a site. The position and position number should match the phone system values.							
Center Configuration	a site. The positi	lon and position number	Should match th	e priorie syster	n values.				
Position Configuration									
Site Configuration	Machine	Cen	ter Si	te	Position	Position #			
Site Settings									
Security									
System Tools									
	Machine	KENM5		•					
		KENM5							
	Center	KOMALI1 KOMALI2							
	Site	KOMALIMVMQA							
	Site	LD05 LD06							
	Tenant	LD07							
		LD08 LD09		_					
	Position	LD10							
	Position Number	LMQDEV55WS MARKH1							
	- Soldon Maniber	MOB56DEVMAD1							
	Profile Type —	mpbCad55 MPBCad56							
	Oser	mpbdev55		inistrato	r				
		MPBMobDev56 MPW-56-CAD							
	New Position	NALINIS			Save	Cancel			
		PADMA							
		PADMAQTP paulc1cad2010							

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30 of 38 TI911CMAES712 Continuing from above, select the position's **Center** and **Site** values from the drop-down lists, as configured in **Section 8.1** and **Section 8.2**, respectively.

Contraction Configure	uration						
Configuration Home	> 911 Telep	hony > Position (Configuration			Search Configurat	ion 🔍
	911 Telen	hony Position Con	figuration				?
Configuration Home		-	-				
911 Telephony		ity to configure the position and positior				ne as belonging to a	center and
Center Configuration							
Position Configuration							
Site Configuration	Machine		Center	Site	Position	Position #	
Site Settings							
Security							
System Tools							
		(·····					
	Machine	KENM5		-			
	Center	Inform911		•)			
	Site	SDLab41		• • •			
	Tenant	TriTech					

Enter the **Tenant**. This identifier represents a group where the site resides and can be any value.

Tenant	TriTech	
Position	1001	
Position Numb	per 1	

Enter the **Position Number** identifier. This must match the station's **Pos** # value as configured in **Section 8.5.4**. in QRConnect application. **Profile Type** is left to its default value.

	Position	1001		
[Position Number	1		
	Profile Type	Supervisor	Administrator	

8.5. Configure QRConnect

QRConnect is an internal component of Inform 911 that is used for connectivity to AES. It runs on Inform 911 server. Open the QRConnect application to configure as mentioned in this section.

8.5.1. Setup TSAPI and DMCC Connections

To configure TSAPI and DMCC connectivity to AES, select the **Connections** tab. Configure as follows:

- **TSAPI CTI Link # 1:** Tlink obtained from **Section 6.4**.
- AES IP Addr #1: IP Address of AES.
- Tsapi Login and Tsapi Password: As configured in Section 6.3.
- CM IP Addr: IP Address of Communication Manager.
- Check box for **Enable DMCC Caller ID** to enable DMCC connections.
- **DMCC Port:** Default DMCC port 4721.
- DMCC Login and DMCC Password: As configured in Section 6.3.
- **Phone System** \rightarrow **Type:** Set to **Avaya**.
- Station Password: As configured in Section 5.5.

Note: If using a dual-AES setup, check the box for a second AES and enter its TSAPI server name. All enabled AES connections will maintain a constant connection, sending and receiving TSAPI events and requests.

TSAPI CTI Link #1: AVAYA#GLYCERIN#			YCERIN#CSTA	#LABAES	AES	AES IP Addr #1 192.168.17.6			Type: Avaya	•
Use TSAPI CTI Link #2: AVAYA#SW			VLINK2#CSTA	#AESERVER2	AES	IP Addr #2	192.168.17.210	192.168.17.210		t Phone Service
			_	0	utgoing	Incom	ng			
Tsapi Logir	1	e911		Message Q 10		500				
Tsapi Pass	word	•••••		Packet Buf 5	1	5				
💟 Enable DMC	C Caller	ID		9						
CM IP Add		192.168.17.11		DMCC Login es	11		Dmcc Instance	0 🗸		
DMCC Port 4721		4721	DM	ICC Password			Station Password	1234		
ver Listener:			Port 914		rror after ction for	no 120	Secs (60-3	0-3600)	Internal Truni	(5
	-	IP Address	5000			Call-Taker TDD Volume (%): 50				
Proxy #1		10.162	5038			connections to this IP TDD vo		ume only applies		
Proxy #2	10.0.	0.98	5038	Bind all Soc (leave blank			to inter	nal trunks ed to the right for		
Proxy Usern	ame	admin		10.1.10.31			 Avaya 	to to the right for		
Proxy Passy	vord								Add	Delete
	cording	Positi	on Depender	t Recording						
Enable Proxy Re		NEW PROPERTY		CONTRACTOR OF STREET						

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8.5.2. Configure the Site

To configure Site, select the **Site** tab. The site entered here must match the site that was configured in **Section 8.2**. The **Add** button will add a site to the site table.

- Site Name: Enter the name of the site.
- Call Distribution Type: Select ACD.
- Default Call Distribution: Select Bridge.
- Keep the defaults for the remaining options.

1	9		QR	Connect Options	
	🌮 Connections 🚺 VDN	🔊 Stations 🤹 Site	🚽 ACD 🤯 Timing 🔋	SMS Options	
	Site specific settings			Settings for all sites	
	Site Name	Call Distribution Type		Defaults	· · · · · · · · · · · · · · · · · · ·
1	SDLab41	ACD	×	Default Call Distribution	Bridge 🗸 🗸
	SDLab41_2	ACD		Default DTMF type	Audiocodes 🗸
				 Dmcc Logoff notificati Incoming call if exten Park, BlindXfer use Si 	iests for State=None event on - by Dependent mode regis sion calls VDN ngleStepXfer (not recommend
	Add Delete			Retry Failed Park on c Transfer CallerId with	

8.5.3. Configure the VDN

The VDN screen is where one configures an incoming VDN for monitoring. The VDN number entered here must match the VDN number that was configured on Communication Manager. The site name selected here must also match the site name that was configured in **Section 8.2** of this document.

- VDN: Enter the VDN number as configured in Section 5.7.
- Monitor: Check the box.
- **Desc**: Enter a text description of the VDN.
- Site: Select the site created in Section 8.5.2 of this document.
- EmergT: Select 911.
- SourceT: Select Land.
- **HF Type**: Select **AudioCodes**.
- **DTMF Type**: Select **Tsapi**.

Ģ	QRCo	nnect O	ptions													• ×	
²	- Coni	nections	🔘 VDN	Stations	🎲 Site 🚽 AC	D 🧿 Timin	ng 🚺 SMS (Options	Call Priorit	tization							
. I. Im	'DN	Monit		Site	EmergT	SourceT		DTMF T		OutgAnyDi		neDis Brdg	Sta TG	Mbr Ro	outing VDI	N Routin	
4	100	V	4.1 911 SC	D SidDev	911	Land	AudioCodes	Tsapi	Other	V	v						
	(III									+	
	Add		elete		nsion of this VD red Trunk Group				tension.								
1	Only V	'DN's rei	named from	n 0000 will be sa	ved.												
														Cance	I	Save	
	_																

8.5.4. Configure the Stations

The stations screen is where station extensions are configured for monitoring. The station numbers entered here must match the station extension numbers that were configured in Communication Manager, Section 5.4. Each station must be entered on a separate line. Use the Add button to add additional stations. The station descriptions entered here must match the position names entered in Section 8.4 of this document.

- Station: Enter station extension as configured in Communication Manager, Section 5.5.
- Monitor: Check the box.
- **Dmcc**: Check the box.
- **Desc**: Enter the station description.
- Site: Select the site created in Section 8.5.2 of this document.
- **Pos** #: Enter station extension as configured in Communication Manager, Section 5.5.

QRCon	nect Op	tions								
G Conne	ections	🔘 VD	N 🧇 Stations	🎊 Site 🚽 ACD	🔅 Timing 🔋 SMS Options Call Prioritization					
Station	Monit	Dmcc	Desc	Site	Pos#					
4003	1	1	Lab Station	AgSite	4003					
4004	1	1	4004	AgSite	4004					
4201	1	1	Console 1	SidDev	4201					
4202	1	1	Console 2	SidDev	4202					
4203	1	V	Console 3	SidDev	4203					
4204	1	V	Console 4	SidDev	4204					
	Add Delete Only monitored Stations will be saved. If you do not monitor them, they last only for the current session.									
Add Posit	Add Positions and half positions, not Bridge stations.									
					Cancel Save					

9. Verification Steps

The following steps may be used to verify the configuration:

9.1. Verify Avaya Aura® Communication Manager

Log on to SAT interface:

- Verify that the interface on Communication Manager to Application Enablement Services is enabled and in **listening** status (use the **status aesvcs interface** command on the Communication Manager SAT).
- Verify that the link between Communication Manager and Application Enablement Services is transmitting and receiving messages (use the **status aesvcs link** command on the SAT).

9.2. Verify Avaya Aura® Application Enablement Services

Via the AES OAM Web interface:

- Verify that the **con state** of the Switch Connection is **talking** (on Application Enablement Services web page, navigate to **Status** → **Status and Control** → **Switch Conn Summary**).
- Verify that the **service state** of the CTI link is **established** (use the **status aesvcs cti-link** command on the SAT).
- Verify that the Inform 911 recording ports are registered as **IP_API_A** stations in Communication Manager (use the **list registered-ip-stations** command on the SAT).
- Verify the Inform 911 server has successfully monitored the stations using TSAPI (use the **list** monitored-**stations** command on the SAT).
- Verify that calls may be successfully completed to and from stations and VDN. Verify that Inform 911 is able to monitor the VDN.

9.3. Verify TriTech Inform 911[™]

- Verify the correct version number of the Workstation via the About box in the Tools menu.
- Verify that the status bubbles in the lower right-hand corner of the Workstation GUI are all Green.
- Verify that the Status bubbles at the bottom of the QRConnect window are all Green.

10. Conclusion

These Application Notes describe the procedures for configuring TriTech Inform 911 with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services. All feature and serviceability test cases were completed and passed.

11. Additional References

Product documentation for Avaya products may be found at http://support.avaya.com.

- 1. Administering Avaya Aura® Communication Manager, Release 7.1.2, Issue 5, July 2018.
- 2. Administering and Maintaining Avaya Aura® Application Enablement Services, Release 7.1.2, Issue 4, December 2017.

Product documentation related to Inform 911 can be obtained directly from TriTech.

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