

Avaya Solution & Interoperability Test Lab

# Application Notes for trinityRESPOND Emergency Response Management Solution 4.0 with Avaya Aura® Communication Manager 8.1 and Avaya Aura® Application Enablement Services 8.1 – Issue 1.0

## Abstract

These Application Notes describe the configuration steps required for trinityRESPOND – Emergency Response Management Solution to interoperate with Avaya Aura® Communication Manager 8.1 and Avaya Aura® Application Enablement Services 8.1.

The compliance testing focused on the voice integration with Avaya Aura® Communication Manager via the Avaya Aura® Application Enablement Services Telephony Application Programming Interface.

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

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

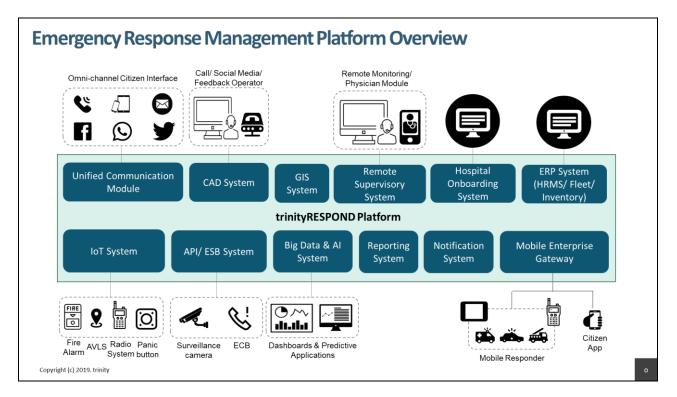
# 1. Introduction

These Application Notes describe the configuration steps required for trinityRESPOND – Emergency Response Management Solution to interoperate with Avaya Aura® Communication Manager 8.1 using Avaya Aura® Application Enablement Services 8.1.

trinityRESPOND - Emergency Response Management Solution has an intelligent computer aided dispatch application where in a CTI Integration with Avaya Aura® Communication Manager is established using Avaya Aura® Application Enablement Services.

The Computer Aided Dispatch (CAD) application together with Avaya Aura® will enable Public Safety Answering Points (PSAP). CAD application helps the PSAP professionals to streamline emergency calls processing by automatically retrieving and displaying the caller information such as number, address and other details. It also suggests the standard operating procedures for the call takers and dispatchers to follow based on the call for service (CFS) request. The dispatcher can monitor the dispatched units and provide necessary information for the field responders to ensure quick and effective engagement upon the creation of new incidents.

The Computer Aided Dispatch (CAD) CTI Platform will communicate with Communication Manager using the Application Enablement Services Java Telephony API (JTAPI) allowing the CAD platform to take control of Communication Manager extensions.



# 2. General Test Approach and Test Results

The general test approach was to validate successful handling of inbound calls using trinityRESPOND - Emergency Response Management Solution. This was performed by calling inbound and/or outbound from the elite call center using Computer Aided Dispatch (CAD) application to answer calls. Where applicable, agent actions were performed using the trinityRESPOND – Call Taker.

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 these Application Notes, the interface between Avaya systems and trinityRESPOND - Emergency Response Management Solution used TLS.

# 2.1. Interoperability Compliance Testing

The testing focused on the following areas:

- Change Agent state Login, Ready, AUX, Operator using CAD Call Taker.
- Inbound Calls Answer calls using CAD Call Taker.
- **Outbound Calls** Make calls using CAD Call Taker.
- Hold/Transfer Place callers on hold and transfer using CAD Call Taker.
- **Conference** Make Conference using CAD Call Taker.
- **Serviceability** Verify the ability of CAD to recover from disconnection and reconnection to the Avaya solution.

# 2.2. Test Results

All test cases were executed. The following observation was noted during the compliance testing.

• CAD Call Taker software required select extension number to execute Hold/Resume.

## 2.3. Support

Technical support can be obtained for the trinityRESPOND - Emergency Response Management Solution as follows:

- Email: helpdesk@trinitymobility.com
- Website: <u>https://www.trinitymobility.com/</u>
- Phone: +91 08042060604

# 3. Reference Configuration

The configuration used for the compliance testing is shown in **Figure 1**. The detailed administration of basic connectivity between Communication Manager and Application Enablement Services.

The devices used in the compliance testing are shown in the table below.

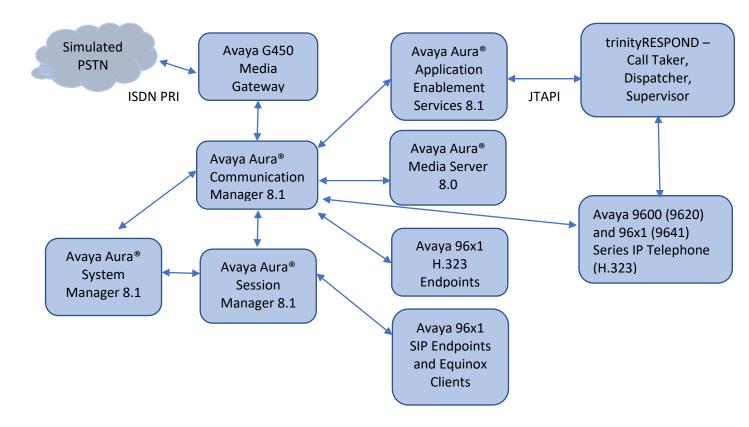


Figure 1: Compliance Testing Configuration

# 4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® Communication Manager in Virtual Environment	8.1.0.1.0-SP1
Avaya G450 Media Gateway	41.9.0
Avaya Aura® Media Server in Virtual Environment	8.0 SP2
Avaya Aura® Application Enablement Services in Virtual Environment	8.1.0.0.0.9-1
Avaya 9620L IP Deskphone (H.323)	3.2.8A
Avaya 9608G & 9641G IP Deskphone (H.323)	6.8
Avaya 9641G IP Deskphone (SIP)	7.1.6
Avaya One-X® Communicator on Desktop PC	6.2.12.22
trinityRESPOND – Call Taker	V4.0
trinityRESPOND – Dispatcher	V4.0
trinityRESPOND - Supervisor	V4.0

# 5. Configure Avaya Aura® Communication Manager

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

- Verify license
- Administer CTI link
- Administer Hunt Group and Agent

## 5.1. Verify License

Log into the System Access Terminal to verify that the Communication Manager license has proper permissions for features illustrated in these Application Notes. Use the "display systemparameters customer-options" command to verify that the **Computer Telephony Adjunct Links** customer option is set to "y" on **Page 4**. If this option is not set to "y", then contact the Avaya sales team or business partner for a proper license file.

```
display system-parameters customer-options
                                                              Page
                                                                       4 of 12
                               OPTIONAL FEATURES
                                          Audible Message Waiting? y
Authorization Codes? y
    Abbreviated Dialing Enhanced List? y
        Access Security Gateway (ASG)? n
                                                 Authorization Codes? y
        Analog Trunk Incoming Call ID? y
                                                              CAS Branch? n
 A/D Grp/Sys List Dialing Start at 01? y
                                                                CAS Main? n
Answer Supervision by Call Classifier? y
                                                        Change COR by FAC? n
                                          Computer Telephony Adjunct Links? y
                                 ARS? y
                 ARS/AAR Partitioning? y
                                         Cvg Of Calls Redirected Off-net? y
          ARS/AAR Dialing without FAC? y
                                                        DCS (Basic)? y
          ASAI Link Core Capabilities? y
                                                       DCS Call Coverage? y
          ASAI Link Plus Capabilities? y
                                                       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? v
                                ATMS? y
                                                  DS1 Echo Cancellation? y
                  Attendant Vectoring? v
            (NOTE: You must logoff & login to effect the permission changes.)
```

## 5.2. Administer CTI Link

Add a CTI link using the **add cti-link n** command, where **n** is an available CTI link number. Enter an available extension number in the **Extension** field. Note that the CTI link number and extension number may vary. Enter **ADJ-IP** in the **Type** field, and a descriptive name in the **Name** field. Default values may be used in the remaining fields.

```
add cti-link 1 Page 1 of 3

CTI LINK
CTI Link: 1
Extension: 79999
Type: ADJ-IP
COR: 1
Name: aes8
```

## 5.3. Administer Hunt Group and Agent

This section shows the steps required to add a new service or skill on Communication Manager. Services are accessed by calling a Hunt Group associated with agents. The following sections give step by step instructions on how to add the following.

- Hunt Group
- Agent

#### 5.3.1. Add Hunt Group

To add a new skillset or hunt group type, **add hunt-group x**, where **x** is the new hunt group number. For example, hunt group **100** is added for the **Voice Service** queue. Ensure that **ACD**, **Queue** and **Vector** are all set to **y**. Also, that **Group Type** is set to **ucd-mia**.

```
add hunt-group 2
                                                            Page
                                                                   1 of
                                                                          4
                                 HUNT GROUP
          Group Number: 2
                                                           ACD? y
            Group Name: Voice Service
                                                         Queue? y
        Group Extension: 88100
                                                        Vector? y
             Group Type: ucd-mia
                     TN:1
                   COR: 1
                                             MM Early Answer? n
          Security Code:
                                       Local Agent Preference? n
ISDN/SIP Caller Display:
           Queue Limit: unlimited
Calls Warning Threshold:
                            Port:
Time Warning Threshold:
                             Port:
```

On Page 2 ensure that Skill is set to y as shown below.

add hunt-group 2		Page 2 of 4
		HUNT GROUP
Skill? AAS?	-	Expected Call Handling Time (sec): 180
Measured: Supervisor Extension:	none	
Controlling Adjunct:		
Multiple Call Handling: 1	none	
Timed ACW Interval (sec):		After Xfer or Held Call Drops? n

#### 5.3.2. Add Agent

To add a new agent, type **add agent-loginID x**, where x is the login id for the new agent.

```
add agent-loginID 80000
                                                         Page 1 of
                                                                      3
                               AGENT LOGINID
        Login ID: 80000
                                                             AAS? n
            Name: Voice Agent
                                                           AUDIX? 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
                                         AUDIX Name for Messaging:
                                    LoginID for ISDN/SIP Display? n
                                                        Password:
                                           Password (enter again):
                                                    Auto Answer: station
                                               MIA Across Skills: system
                                       ACW Agent Considered Idle: system
                                       Aux Work Reason Code Type: system
                                         Logout Reason Code Type: system
                   Maximum time agent in ACW before logout (sec): system
                                         Forced Agent Logout Time:
                                                                   :
  WARNING: Agent must log in again before changes take effect
```

On **Page 2**, add the required skills. Note that the skill **2** is added to this agent so when a call for **Voice Service** is initiated, the call is routed correctly to this agent.

add agen	t-loginID 8	30000			Pa	ige 2	<b>2</b> of 3	
	5		AGENT	LOGINID		- <b>-</b> -		
D	irect Agent	Skill:			Servi	ce Ob-	jective?	n
	dling Prefe		ill-level		Local Cal	-		
	-							
SN	RL SL	SN	RL SL	SN	RL SL	SN	RL SL	
1:2	1	16:		31:	4	6 <b>:</b>		
2:		17:		32:	4	7:		
3:		18:		33:	4	8:		
4:		19:		34:	4	9:		
5:		20:		35:	5	0:		
6:		21:		36:	5	1:		
7:		22:		37:		2:		
8:		23:		38:	5	3:		
9:		24:		39:		4:		
10:		25:		40:		5:		
11:		26:		41:		6:		
12:		27:		42:		7:		
13:		28:		43:		8:		
14:		29:		44:		9:		
15:		30:		45:	6	0:		

# 6. Configure Avaya Aura® Application Enablement Services

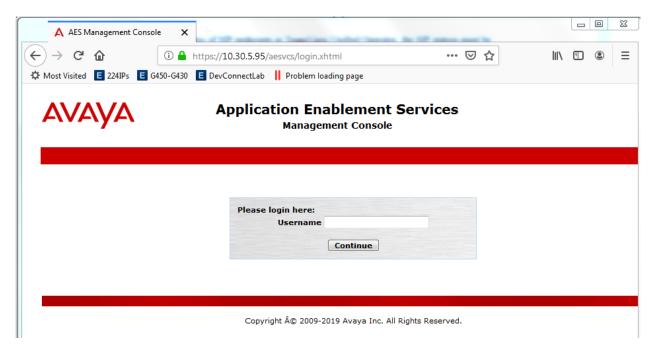
This section provides the procedures for configuring Application Enablement Services. It is assumed that configuration steps for Switch Connection to Communication Manager and H323 Gatekeeper have been performed. The procedures include the following areas:

- Launch OAM interface
- Verify License
- Administer TSAPI link
- Administer Trinity User
- Restart Services
- Obtain Tlink name

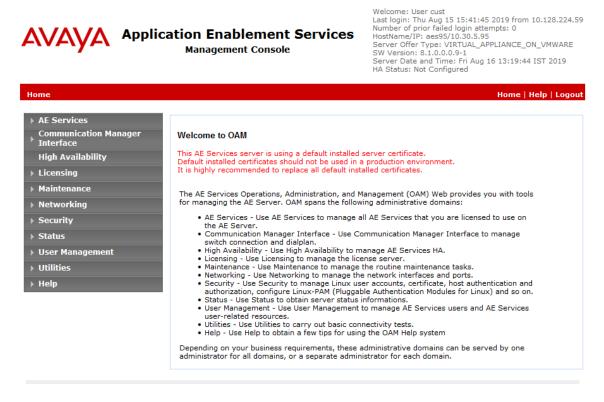
#### 6.1. Launch OAM Interface

Access the OAM web-based interface by using the URL "https://ip-address" in an Internet browser window, where **ip-address** is the IP address of the Application Enablement Services server.

The **Please login here** screen is displayed. Log in using the appropriate credentials.



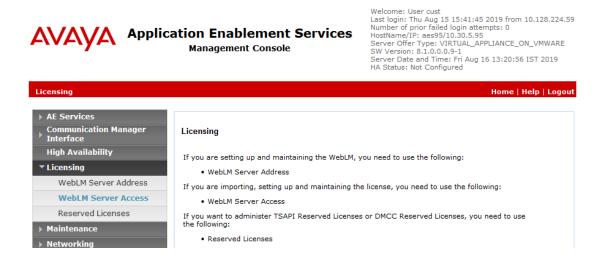
The Welcome to OAM screen is displayed next.



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#### 6.2. Verify License

Select Licensing  $\rightarrow$  WebLM Server Access in the left pane, to display the applicable WebLM server log in screen (not shown). Log in using the appropriate credentials and navigate to display installed licenses (not shown).



NAQ; SPOC 11/6/2019 Solution & Interoperability Test Lab Application Notes ©2019 Avaya Inc. All Rights Reserved. 12 of 29 Trinity-AESCM81 Select Licensed products  $\rightarrow$  APPL\_ENAB  $\rightarrow$  Application\_Enablement in the left pane, to display the Licensed Features screen in the right pane.

Verify that there are sufficient licenses for **TSAPI Simultaneous Users**, as shown below. Also verify that there is an applicable advanced switch license, in this case **AES ADVANCED LARGE SWITCH**, which is needed for adjunct routing.

a® Syste	m Manager 8.0	🛔 Users 🗸 🎤 Elements 🗸 🌣 Services 🗸	V   Widgets v Shortcuts v	Search	<b>_ ↓ ≡</b>   ª
ome	Licenses				
icenses			You are here: Licensed Products > Applicatio	n_Enablement > Vie	w License Capacity
ICenses		Licensed products	Linear installed on December 20, 201	0 11.00.50 444	27.00
		APPL_ENAB	License installed on: December 28, 201	8 11:22:53 AM +	07:00
		<ul> <li>Application_Enablement</li> </ul>			
		View license capacity	License File Host IDs: V0-55-38-	-33-B4-26-01	
		View peak usage			
		CE	Licensed Features		
		► COLLABORATION_ENVIRONMENT			
		COLLABORATION_DESIGNER	13 Items 🛛 🍣 🛛 Show 🛛 All 💌		
		► Collaboration_Designer	Feature (License Keyword)	Expiration date	Licensed capacity
	MESSAGING	MESSAGING Device Media and Call Control VALUE_AES_DMCC_DMC P	permanent	1000	
		Messaging	AES ADVANCED LARGE SWITCH	permanent	1000
		MSR	MSR VALUE_AES_AEC_LARGE_ADVANCED AES HA LARGE VALUE_AES_HA_LARGE VALUE_AES_HA_LARGE	permanent	1000
		►Media_Server		permanent	1000
		SYSTEM_MANAGER	AES ADVANCED MEDIUM SWITCH VALUE_AES_AEC_MEDIUM_ADVANCED	permanent	1000
		►System_Manager	Unified CC API Desktop Edition		
		SessionManager	VALUE_AES_AEC_UNIFIED_CC_DESKTOP	permanent	1000
		►SessionManager	CVLAN ASAI VALUE_AES_CVLAN_ASAI	permanent	1000
		Uninstall license	AES HA MEDIUM VALUE_AES_HA_MEDIUM	permanent	1000
		Server properties	AES ADVANCED SMALL SWITCH VALUE_AES_AEC_SMALL_ADVANCED	permanent	1000
		Shortcuts Help for Licensed products	DLG VALUE_AES_DLG	permanent	1000
			TSAPI Simultaneous Users VALUE_AES_TSAPI_USERS	permanent	1000
	<		CVLAN Proprietary Links VALUE_AES_PROPRIETARY_LINKS	permanent	1000

#### 6.3. Administer TSAPI Link

Select AE Services  $\rightarrow$  TSAPI  $\rightarrow$  TSAPI Links from the left pane of the Management Console, to administer a TSAPI link. The TSAPI Links screen is displayed, as shown below. Click Add Link.

avaya	Application Enablement Services Management Console	Welcome: User cust Last login: Fri Aug 16 13:18:49 2019 from 10.128.224.59 Number of prior failed login attempts: 0 HostName/IP: aes95/10.30.5.95 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.10.00.9-1 Server Date and Time: Fri Aug 16 13:40:32 IST 2019 HA Status: Not Configured
AE Services   TSAPI   TS	API Links	Home   Help   Logout
✓ AE Services	TSAPI Links	
> DLG	Link Switch Connection Swit	ch CTI Link # ASAI Link Version Security
> DMCC > SMS	Add Link Edit Link Delete Link	
* TSAPI		
TSAPI Links     TSAPI Properties		

The Add TSAPI Links screen is displayed next.

The Link field is only local to the Application Enablement Services server and may be set to any available number. For Switch Connection, select the relevant switch connection from the drop-down list. In this case, the existing switch connection CM8 is selected. For Switch CTI Link Number, select the CTI link number from Section 5.2. Select Encrypted for Security field. ASAI Link Version 9 was used for compliance testing.

avaya	Application Enablement Services Management Console	Welcome: User cust Last login: Mon Oct 7 08:43:49 2019 from 10.128.224.59 Number of prior failed login attempts: 0 HostName/IP: aes95/10.30.5.95 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.1.0.0.0.9-1 Server Date and Time: Mon Oct 07 08:59:03 IST 2019 HA Status: Not Configured
AE Services   TSAPI   TS	API Links	Home   Help   Logout
AE Services CVLAN CVLAN DLG DMCC SMS TSAPI TSAPI Links TSAPI Properties TVVS	Edit TSAPI Links Link 1 Switch Connection CM8 Switch CTI Link Number 1 ASAI Link Version 9 Security Encrypted Apply Changes Cancel Changes Advanced Settings	
Communication Mana	ger	
<sup>7</sup> Interface High Availability		

### 6.4. Administer Trinity User

Select User Management  $\rightarrow$  User Admin  $\rightarrow$  Add User from the left pane, to display the Add User screen in the right pane.

Enter desired values for User Id, Common Name, Surname, User Password, and Confirm Password. For CT User, select Yes from the drop-down list. Retain the default value in the remaining fields.

AVAYA Applica	ation Enablen Management Co	nent Services onsole	Welcome: User cust Last login: Wed Oct 2 14:23:12 2019 from 10.128.224. Number of prior failed login attempts: 0 HostName/IP: aes95/10.30.5.95 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.1.0.0.0.9-1 Server Date and Time: Wed Oct 02 15:04:42 IST 2019 HA Status: Not Configured
User Management   User Admin	Add User		Home   Help   Logo
> AE Services			
Communication Manager Interface	Add User		
High Availability	Fields marked with * can i	not be empty.	_
▶ Licensing	* User Id	trinity	
Maintenance	* Common Name	trinity	
Networking	* Surname	trinity	
-	* User Password	•••••	
▶ Security	* Confirm Password	•••••	
▶ Status	Admin Note		
▼ User Management	Avaya Role	None	<b>•</b>
Service Admin	Business Category		
▼ User Admin	Car License		
<ul> <li>Add User</li> </ul>	CM Home		
<ul> <li>Change User Password</li> </ul>	Css Home		
List All Users	CT User	Yes 👻	
<ul> <li>Modify Default Users</li> <li>Search Users</li> </ul>	Department Number		
Utilities	Display Name		
	Employee Number		
▶ Help	Employee Type		

#### 6.5. Restart Services

Select Maintenance  $\rightarrow$  Service Controller from the left pane, to display the Service Controller screen in the right pane. Check TSAPI Service and click Restart Service.



#### **Application Enablement Services**

Management Console

ervices	
mmunication Manager terface	Service Controller
igh Availability	Service Controller Status
ensing	ASAI Link Manager Running
intenance	DMCC Service Running
Date Time/NTP Server	CVLAN Service Running
Security Database	DLG Service Running
Service Controller	Transport Layer Service Running
Server Data	TSAPI Service Running
etworking	For status on actual services, please use Status and Control
ecurity	Start Stop Restart Service Restart AE Server Restart Linux Restart Web Server
tatus	
ser Management	
tilities	
lelp	

#### 6.6. Obtain Tlink Name

Select Security  $\rightarrow$  Security Database  $\rightarrow$  Tlinks from the left pane. The Tlinks screen shows a listing of the Tlink names. A new Tlink name is automatically generated for the TSAPI service. Locate the Tlink name associated with the relevant switch connection, which would use the name of the switch connection as part of the Tlink name. Make a note of the associated Tlink name, to be used later for configuring Trinity.

In this case, the associated Tlink name is **AVAYA#CM8#CSTA-S#AES8**. Note the use of the switch connection **CM8** from **Section 6.3** as part of the Tlink name.

Welcome: User cust

	pplication Enablement Services Management Console	Last login: Mon Oct 7 13:30:12 2019 from 10.128.224.59 Number of prior failed login attempts: 0 HostName/IP: aes95/10.30.5.95 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.1.0.0.0.9-1 Server Date and Time: Mon Oct 07 13:38:49 IST 2019 HA Status: Not Configured
Security   Security Database	Tlinks	Home   Help   Logout
) AE Services		
Communication Manage Interface	r Tlinks	
High Availability	Tlink Name	
▶ Licensing	AVAYA#CM8#CSTA-S#AES8	
Maintenance	Delete Tlink	
▶ Networking		
▼ Security		
Account Management		
Audit		
Certificate Management	t	
Enterprise Directory		
▶ Host AA		
▶ PAM		
▼ Security Database		

# 7. Configure trinityRESPOND Emergency Response Management Solution

This section provides the procedures for configuring trinityRESPOND Server and CAD workstation CTI telephone with Avaya AES.

- Configure trinityRESPOND CAD CTI
- Configure CAD Taker

## 7.1. Configure trinityRESPOND CAD CTI

This section describes the steps required for trinityRESPOND CAD CTI to interoperate with Application Enablement Services. the following configuration steps have to be carried out.

**Step 1**: Double click the CADWorktation.exe.config in workstation desktop Add PBX information into appconfix.xml file and enable secured connections using TLS.

Select Destination Location	
Where should trinityRESPOND be installed?	Ċ
Setup will install trinityRESPOND into the follow	ing folder.
To continue, click Next. If you would like to select a diffe	rent folder, click Browse.
C:\Installers\trinityRESPOND	Browse
At least 94.6 MB of free dick snace is required	
At least 94.6 MB of free disk space is required.	

```
<Configuration>
<PBXSetings>
<Add key=''PBXIP'' value=''10.30.5.95''/>
<Add key=''PBXPort'' value=''450''/>
<Add key=''PBXUsername'' value=''trinity''/>
<Add key=''PBXPassword'' value='' trinity ''/>
</PBXSetings>
</Configuration>
```

**Step 2:** Access the trinityRESPOND admin tool using HTTP link provide a valid user/password must be used.

Image: Second	Energency Response Management	trinity RESPOND -	a Administrator	
Basword ( Dispatch Dispa	Erner Canaling Louons anon	LOC	i IN	
Dispatch Dispatch Activate Windows Co to Settings to a guide Windows		Username	4	
Dispatch Activate Windows Co to Settings to activate Windows.		Password	Q <sub>t</sub>	
Activate Windows Go to Settings to activate Windows.			Log In 🥥	
Go to Settings to activities Windows	Dispatch			/
Go to Settings to activities Windows				
Go to Settings to activate Windows.				100
Go to Settings to activities Windows				

Once logged in, the "**User Management**" menu provides administrators with all relevant functionalities to complete the add new user.

User Management 🗕	Workstation									
Resource Configuration 👻	🕇 Add Workstation 🗊 Delete 💵 Reset Status 🔁 Reset All 🛛 C Reset Activation 🖉 Upload Excel 🛓 Download Ter							emplate		
Remodeling 👻	0	Show 10 T ent	10 ventries						Search:	
Run Card Config 👻		SL No 🔺	Edit 🔶	Component Id  븆	User 🔶	User Type	¢	Workstation Name	¢	Login Status
SOP Modeling 👻		1	I	102	ctws1	COMMUNICATION OFFI	CER			•
Management 🗸		2	I	240	dws1	DISPATCH OFFICER				
Enquiry <del>-</del>		3	Ì	300	abhi	DISPATCH OFFICER				۲
		4	I	622	dcabhi	DOCTOR CONSOLE				۲
Approvals 👻		5	I	402	abhicdws	CALL DISPATCHER				۲
Tameras and Sensors 👻		6	Ì	100	NGCT	COMMUNICATION OFFI	CER			۲
elephone Data 👻		7	Ì	2010	ramdws	DISPATCH OFFICER		RAMDWS		۲
		8	Ľ	3010	ramsws	SUPERVISOR		RAMSWS		۲
esponse Matrix 👻		9	Ľ	3600		DOCTOR CONSOLE				۲
Application configuration +		10	Ľ	4010		CALL DISPATCHER		RAMCDWS		۲

User Management 👻	14/											
User Management 👻	Wo	rkstatio	n									
Workstation	+	Add Workstati	on 💼	Delete 👤 R	eset Status	<b>t</b> ⊒Reset All	C Reset Activation	<ul> <li>Upload</li> </ul>	Excel	Download Te	mplate	
Remote Users						^	dd Workstation					
Version Availability												
Resource Configuration 👻		Compone	nt Id * :	ENTER COMPO	NENT ID							
Remodeling 👻		Workstation	Name :	ENTER WORKS	TATION NAM	E						
Run Card Config 👻												
		User	Type * :	SELECT USER T	YPE	*						
		User	iype :	SELECT USER 1	YPE	•						
50P Modeling 👻		User	iype :	SELECT USER 1	YPE ✓ Save		C Clear	<b>×</b> c	incel			
- SOP Modeling ← Management ←	•	5how 10 V en					C Clear	<b>X</b> Ci	ncel	Search:		
GOP Modeling 👻 Management 👻	6		tries 💿				C Clear	<b>*</b> G		Search:	÷	Login Status
50P Modeling • Management • Enquiry • Approvals •		5how 10 🔻 en	tries 💿	¢ Compo	✓ Save			¢			\$	Login Status
GOP Modeling • Management • Enquiny • Approvals • Cameras and Sensors •		5how 10 ▼ en SL No ▲	tries 💽 Edit	¢ Compo	✓ Save	User +	User Type	¢ FICER			\$	
GOP Modeling • Management • inquiry • Approvals • Cameras and Sensors •		Show 10 ▼ en SL No ▲ 1	tries Edit C	Compo     1     1     2	✓ Save	User \$ ctws1	User Type COMMUNICATION OF	¢ FICER R			\$	
SOP Modeling • Management • Enquiry • Approvals • Cameras and Sensors • Telephone Data • Response Matrix • Application configuration •		Show 10 ▼ en SL No ▲ 1 2	tries () Edit C	Compo 11 2 3 6	✓ Save       nent Id     \$       02     40	User + ctws1 dws1	User Type COMMUNICATION OF DISPATCH OFFICE	¢ FICER R R		ition Name	e Windo	6 6 8

Select the option for Add Workstation for telephone registration.

Step 3: Create telephone extension and agent Ids and map to user ID.

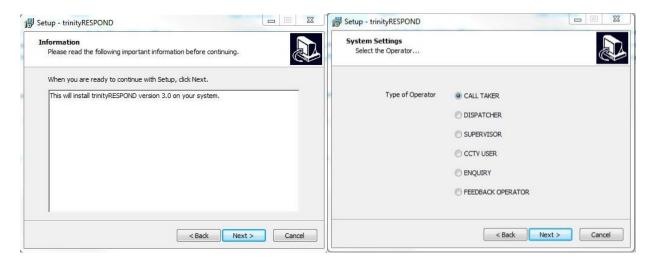
trinityRESPOND - A	dministrator							ADMIN +
User Management 👻	Workstatio	n						
Active Users	+ Add Workstati	ion 🗂 Delete	Reset Status	17 Reset All	C Reset Activation	O Upload Excel	L Download Template	
Blocked Users				A	dd Workstation		_	
Workstation								
Remote Users	Compor	nent Id : 1002						
Version Availability	Workstation	n Name : CTWS1						
Resource Configuration $+$	Use	r Type : COMM	UNICATION OFFIC	ER 🔻				
Remodeling <del>-</del>								
Run Card Config 🛩			🗸 Sav	/e	C Clear	X Cancel		
SOP Modeling 👻	<b>()</b> Show 10 ▼ e	ntries 🚯					Search:	2
Active Users								
Active Users	•							
+ Add User	🛛 Block User 📄 🗂	Delete User						
				Add Use	er			
Use	er Id *: CTWS1				Name :	ENTER NAME		
Passw	vord *:				Contact Number :	ENTER CONTACT	r number	
User T	ype : COMMU	NICATION OFFIC	ER 🔻		Email Id :	ENTER EMAIL ID		
Departn	nent : ALL		Ŧ		Agent Id :	ENTER AGENT I	)	
			_					
			✓ Save	C Clear	X Cancel			
Show 10 • entries	3 <b>O</b>						Search:	2
SL NO	Edit User 🝦	Name	\$	User Id	\$	User Type	🔶 🛛 Agent Id 🔶	Department 🔶

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## 7.2. Configure CAD Taker

These Application Notes assume that the default installation of CAD Taker software is performed as below.



When the **trinityRESPOND** Activation Wizard screen is displayed, enter the **Product Key** provided by Trinity:

B Setup - trinityRESPOND		K trinityRESPOND Activation Wizard
	Completing the trinityRESPOND Setup Wizard Setup has finished installing trinityRESPOND on your computer. The application may be launched by selecting the installed shortcuts. Click Finish to exit Setup. I Activate Client Workstation	Enter your product key Enter the 25 Character Product Key to activate. Your Product Key should be in the DVD that came in along with the package. Your product key will look like this: PRODUCT KEY: X0000-X00000-X00000-X00000 Product Key: (Dashes will be added automatically) B240A-C60EB-4BD4A-E4EAE-D637E
	< Back Finish	Activate

Launch the CAD Taker application from the Windows Start menu, enter **User ID** and **Password**, administered in **Section 7.1** and the **Station ID** you wish the operator to use, as shown below.

		trinityRESPOND
CallTaker Dispatcher	Supervisor	Enquiry Freedback
		Computer Aided Dispatch (CAD)
	ncy Type User ID	Password
English V 5001 V ALL	ctws1	Powered By Trinity

Click **Login** to log in CAD Taker. Once successfully logged in, the details are clearly displayed User ID (**ctws1**) and Agent ID (**80000**) as below.

trinityRESPOND - Computer Aide		CALLTAKER-ctws1[80000]	
Jser Communication Logs Utilities Notes He			
	Agency Type	Near By Events	16:23:00 PM
SI Contact No Date/Time Info	<ul> <li>Police</li> <li>Fire Force</li> </ul>	SI.No Event ID Phone No Call Time Last Handled By Distance Km. Status	Phone
	<ul> <li>Traffic Police</li> <li>Ambulance</li> </ul>		New Event
aller Information	Call Type	Caller History	
Event ID Caller Number 🗣	CFS Call     CRK Call	Event ID Caller Number Caller Na Caller Address Call Time Call Type Status Orig Us	SMS Log
Name Call Line	BLK Call Women Ca		
Address	🔘 ENQ Transfer 🛛 🔘 Child Call		Event Log
	Test Call     DEP Call		Voice Log
Identity Update	🔘 Repeat Call 🛛 🔘 ENQ Call	-	VOICE LOG
istress Information			11
Name Same as Caller's Data	District*	Event Type*	_
Address	-Select-	Select- Select Send SMS	Call List
P.	Nearest Station	Event SubTypê Dispatch	
Place	Additional Details	Select-	System Notification
Land Mark		Priority Hand Over	
Phone No		HI M L Hot Dispatch	999
			inity

# 8. Verification Steps

This section provides the tests that can be performed to verify correct configuration of Communication Manager, Application Enablement Services, and trinityRESPOND – Emergency Response Management Solution.

## 8.1. Verify Avaya Aura® Communication Manager

On Communication Manager, verify status of the administered CTI link by using the "status aesves eti-link" command. Verify that the **Service State** is "established" for the CTI link number administered in **Section 5.2**, as shown below.

statu	s aesvcs	cti-li	nk			
			AE SERVICES	CTI LINK STAT	US	
CTI Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Rcvd
1	9	no	aes8	established	14	14

Enter the command **list agent-loginID** verify that extension 70010 is logged into agent **80000** shown in **Section 5.3.2**.

list agent-l	oginID								
			AGENT LC	DGINID					
Login ID	Name	Ext	ension	Dir A	gt AAS/	AUD	COR	Ag Pr SO	
	Skil/Lv Sk	il/Lv	Skil/Lv	Skil/Lv	Skil/Lv :	Skil/Lv	Skil/Lv	7 Skil/Lv	
80000	Voice Agent	. 70	009				1	lvl	
	2/01	/	/	/	/	/	/		

Enter the command **status station 70009** and on **Page 7** verify that the agent is logged-in to the appropriate skill.

Γ	status st	ation 700	09					Pag	ge 7	of	7	
				A	CD STATUS							
	-	Grp/Mod	Grp/Mod	Grp/Mod	Grp/Mod	Grp/Mod	-					
	2/AI	/	/	/	/	/	/ 0:	n ACD	Call?	no		

## 8.2. Verify Avaya Aura® Application Enablement Services

On Application Enablement Services, verify the status of the TSAPI link by selecting Status  $\rightarrow$  Status and Control  $\rightarrow$  TSAPI Service Summary from the left pane. The TSAPI Link Details screen is displayed.

Verify the **Status** is "Talking" for the TSAPI link administered in **Section 6.3**, and that the **Associations** column reflects the total number of agent, in this case "**1**".

AE Services												
Communication Manager Interface	TSAP	l Link	Details									
High Availability	Ena	able pag	e refresh	every 60	🔻 seco	nds						
Licensing												
Maintenance			Switch	Switch CTI				Switch		Msgs	Msgs	Msgs
Networking		Link	Name	Link ID	Status	Since	State	Version	Associations	to Switch	from Switch	Period
Security				10								
Status	۲	1	СМ8	1	Talking	Mon May 20	Online	18	1	6450	6461	30
Alarm Viewer			CMO		Taiking	18:12:03 2019	Online	10	1	0450	0401	50
> Logs	Onli	ne	Offline	]								
Log Manager												
▼ Status and Control			de informa vice Stat		se one of t nk Status	he following: User S						
<ul> <li>CVLAN Service Summary</li> </ul>												

TSAPI Service Summary

# 8.3. Verify Avaya Aura® Application Enablement Services TSAPI Service

The following steps are carried out on the Application Enablement Services to ensure that the communication link between Communication Manager and the Application Enablement Services server is functioning correctly. Verify the status of the TSAPI service by selecting Status  $\rightarrow$  Status and Control  $\rightarrow$  TSAPI Service Summary  $\rightarrow$  User Status. The Open Streams section of this page displays open stream created by the trinity user with the Tlink.

Welcome: User cust

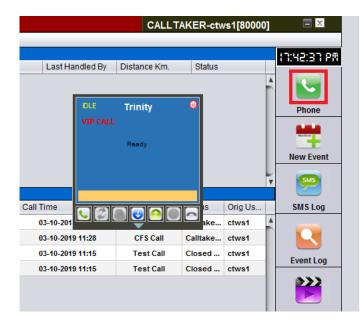
AVAYA	Application Enablement Services Management Console	Last login: Fri Oct 4 16:14:50 2019 from 10.128.224.59 Number of prior failed login attempts: 0 HostNamc/IP: aes95/10.30.5.95 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.1.0.0.0.9-1 Server Date and Time: Mon Oct 07 08:48:54 IST 2019 HA Status: Not Configured
Status   Status and Control	TSAPI Service Summary	Home   Help   Logout
AE Services		
Communication Manager Interface	CTI User Status	
High Availability	Enable page refresh every 60 - seconds	
▶ Licensing	CTI Users All Users - Submit	
▶ Maintenance	Open Streams 1	
▶ Networking	Closed Streams 42	
▹ Security	Open Streams	
▼ Status		
Alarm Viewer	Name Time Opened	Time Closed Tlink Name
> Logs	trinity Mon 07 Oct 2019 08:41:33 AM IST	AVAYA#CM93#CSTA-S#AES95
Log Manager	Show Closed Streams Close All Opened Streams	Back
▼ Status and Control		
<ul> <li>CVLAN Service Summ</li> </ul>	lary	
<ul> <li>DLG Services Summa</li> </ul>	iry	
<ul> <li>DMCC Service Summ</li> </ul>		
<ul> <li>Switch Conn Summa</li> </ul>		
<ul> <li>TSAPI Service Sum</li> </ul>	mary	

# 8.4. Verify trinityRESPOND CAD Call Taker

Make an incoming call from PSTN to a general routing hunt group in **Section 5.3.1**. Verify that the CAD Taker can receive incoming call. Answer incoming calls with the **Answer** button.

Jser	Communicatio	on Logs Utilities Not	tes H	elp AUX		
all R	egister			Agency Type	Near By Even	nts
SI	Contact No	Date/Time	Info		SI.No Ev	ent ID
1	2839978000	16:29:28	•	Police		
2	2839978000	17:40:32	٠			
aller	Information			Call Ringing	Caller Histor	y
iller Ever		Caller Number	Ŷ		Caller History Event ID	y Caller
Even		Caller Number 2839978000		Ca		
Even CFS	nt ID 3552059		•	Ca 2839978000	Event ID CF\$3552059 CF\$3552058	Caller 2839
Even CFS Nam	nt ID 3552059	2839978000	•	Ca	Event ID CF\$3552059 CF\$3552058	Caller

Make an outbound call with **Phone** button:



	Help AUX Agency Type	Near By Events		
all Register 3I Contact No Date/Time Info			Last Handled By Distance Km.	Status
1 08801917380 22:44:04	Police     Fire Force			
	Traffic Police			
				Ne
	Ambulance			
iller Information	Call Type	Caller History		T
Event ID Caller Number	can type	Event ID Biller Address Call T	me Call Type	Status Orig Us SI
CFS13722577 01917380856 🦫 🛄	CFS Call     CRK Call	ON_TALK Trinity	-10-2019 22:44 CFS Call	Calltake vip1
Name Call Line		TST13722 i,flat_g-8,segunb 00	2-10-2019 22:39 Test Call	Closed vip1
farhaan Police	BLK Call 🔘 Women Call	In Talk.		
Address	🕞 ENQ Transfer 💮 Child Call		Phone Status	Ev
6/3,flat g-8,segunbagicha,Dhaka	C Eng Hansier Come Can	00:00:19		
	💮 Test Call 🛛 💮 DEP Call	8801917380856		
dentility Undate	Call Answer			Vo
dentity Update	Call Answer			
stress Information	A Transition of the			Vo
stress Information	District*	068019173 00:00:07 • Services	2	
stress Information Name Same as Caller's Data Address	·			Ţ,
stress Information Name Same as Caller's Data Address	District*	068019173 00:00:07 • Services	<b>#</b>	Send SMS
stress Information Name Same as Caller's Data Address	District*	Event Ty         Call List         Services	<b>3</b>	Send SMS
stress Information Name Same as Caller's Data Address	District" -Select- Nearest Statioh	Event Ty -Select Event SubTypě		Send SMS
stress Information Name Same as Caller's Data Address Place	District" -Select- Nearest Statioh -Select-	Event Ty -Select Select Select	) 🔬 oother	Send SMS Dispatch Similar Events
stress Information Name Same as Caller's Data Address	District" -Select- Nearest Statioh -Select-	Event T) -Select Sel	) <u>()</u> () ()	Send SMS Dispatch
stress Information Name Same as Caller's Data Address Place Land Mark	District" -Select- Nearest Statioh -Select-	Event T) -Select Event SubTypê -Select Event SubTypê -Select Priority		Send SMS Dispatch Similar Events Hend Over
stress Information Name Same as Caller's Data Address Place	District" -Select- Nearest Statioh -Select-	Event T) -Select Sel	ML	Send SMS Dispatch Similar Events Hand Over

The phone call status is shown as below:

# 9. Conclusion

These Application Notes describe the configuration steps required for the trinityRESPOND -Emergency Response Management Solution to successfully interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

# 10. Additional References

This section references the Avaya and Trinity Mobility product documentation that are relevant to these Application Notes.

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

- 1. Administering Avaya Aura® Communication Manager, Release 8, Issue 2.0, Nov 2018
- 2. Administering Avaya Aura® Session Manager, Release 8, Issue 2, August 2018
- 3. Administering Avaya Aura® System Manager, Release 8, Issue 4, September 2018
- 4. Administering Avaya Aura® Application Enablement Services, Release 8.0.1, Issue 2, December 2018

Product Documentation for trinityRESPOND - Emergency Response Management Solution can be requested from Trinity Mobility found at: http://trinitymobility.com/.

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