

#### **DevConnect Program**

# Application Notes for iNEMSOFT CLASSONE iCAS 6.0 with Avaya Aura® Application Enablement Services 10.1 and Avaya Aura® Session Manager 10.1 – Issue 1.0

### Abstract

These Application Notes describe the configuration steps required for iNEMSOFT CLASSONE iCAS 6.0 to interoperate with Avaya Aura® Communication Manager 10.1 and Avaya Aura® Application Enablement Services 10.1.

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 Avaya DevConnect Program.

## 1. Introduction

These Application Notes contain instructions for iNEMSOFT CLASSONE iCAS (iCAS) with Avaya Aura® Session Manager (Session Manager), Avaya Aura® Communication Manager (Communication Manager) and Avaya Aura® Application Enablement Services (AES) to successfully interoperate.

The iCAS solution is a system-of-systems, enabling operators to take control of their communications network and manage multiple transactions from many types of devices.

The iCAS solution enables operators to handle inbound calls, connect with radio dispatch, bridge various radio talk groups and frequencies with each other and with back-office voice systems, collaborate and manage field operations regardless of the type of voice-enabled device, while maintaining the highest level of business continuity and interoperability. iCAS as a solution integrates with several interfaces provided by Avaya products. However, this document only contains instructions for iCAS Server and iCAS Dispatch Console with Session Manager. iCAS Dispatch Console registers to Session Manager as a SIP Endpoint and uses TSAPI via AES for inbound VDN call routing. Application notes related to other interfaces may be obtained via Avaya Support site.

• Application Notes for iNEMSOFT CLASSONE iCAS IP Radio Gateway with Avaya Aura<sup>®</sup> Session Manager

# 2. General Test Approach and Test Results

The feature test cases were performed manually. At startup the Dispatch Console registers with Session Manager as two SIP users via a non-encrypted connection and iCAS Server registers via TSAPI with a non-encrypted connection.

Incoming VDN calls were placed to iCAS Server from internal stations and external callers and outbound calls were placed from iCAS Server linking parties using radio devices and end-users on traditional hard and softphones.

The main objectives were to verify the following:

- Registration
- Codecs (G.711MU)
- Inbound PSTN calls
- Internal calls
- Outbound calls
- Call hold/unhold
- Call transfer

- Call conference
- Call termination (origination/destination)
- DTMF tone generation and detection
- Radio operation and push to talk for audio transmit
- Serviceability
- IP Shuffling and Encryption were not tested

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.

For the testing associated with these Application Notes, the interface between Avaya systems and iCAS 6.0 did not include use of any specific encryption features as requested by iNemsoft.

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.

#### 2.1. Interoperability Compliance Testing

The interoperability compliance test included features and serviceability. The focus of the interoperability compliance testing was primarily on verifying call establishment on iCAS Dispatch Console. iCAS Dispatch Console operations such as inbound calls, outbound calls, transfer, conference, and hold/resume, and iCAS Dispatch Console interactions with Session Manager, Communication Manager, AES, and Avaya SIP, Avaya H.323 hardphones and Avaya Agent for Desktop softphones were verified. The serviceability testing introduced failure scenarios to see if iCAS Dispatch Console can recover from failures such as network and power failures of the iCAS Servers.

#### 2.2. Test Results

During compliance testing, iNEMSOFT CLASSONE Dispatch Console successfully registered with Avaya Aura® Session Manager, placed and received calls to and from Avaya endpoints.

#### 2.3. Support

Technical support on iCAS can be obtained through the following:

- **Phone:** (214) 423-2815
- Email: <u>rtisupport@inemsoft.com</u>

## 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, and of call center devices are not the focus of these Application Notes and will not be described.

In the compliance testing, iCAS stations associated with the Station IDs shown in the table below.

Device Type	Extension		
iCAS Stations	66006, 66007 (SIP)		



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	10.1.2
Virtual Environment	(10.1.2.0.0.974.27783)
Avaya G430 Media Gateway	42.8.0
Avaya Aura® Media Server in	10.1
Virtual Environment	(10.1.0.125)
Avaya Aura® Application Enablement	10.1.2
Services in	(10, 1, 2)
Virtual Environment	(10.1.2.0.0.12-0)
Avaya Aura® Session Manager in	10.1.2
Virtual Environment	(10.1.2.0.101.2016)
Avaya Aura® System Manager in	10.1.2

Virtual Environment	(10.1.2.0.0715476)
Avaya Session Border Controller for	10.1
Enterprise in	(10, 1, 0, 0, 22, 21, 422)
Virtual Environment	(10.1.0.0-52-21452)
Avaya Agent for Desktop (H.323 & SIP)	2.0.6.0.10
Avaya 9611G IP Desk phone (H.323)	6.8.5.3.2
Avaya J169 IP Desk phone (SIP)	4.0.13.0.6
Avaya J179 IP Desk phone (H.323)	6.8.5.3.2
iNEMSOFT CLASSONE iCAS	6.0
iNEMSOFT CLASSONE iCAS Dispatch	60
Console	0.0

# 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 system parameters features
- Vector with adjunct routing step
- VDN

#### 5.1. Verify License

Log in to the System Access Terminal to verify that the Communication Manager license has proper permissions for features illustrated in these Application Notes. Use the "**display 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
                                                                    4 of 12
                                                             Page
                              OPTIONAL FEATURES
   Abbreviated Dialing Enhanced List? Y
                                               Audible Message Waiting? 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
                               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
         ASAI Link Core Capabilities? Y
                                                     DCS Call Coverage? Y
         ASAI Link Plus Capabilities? Y
                                                     DCS with Rerouting? Y
```

### 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

        CTI Link: 1
        Extension: 60111

        Type: ADJ-IP
        COR: 1

        Name: AES CTI Link
        COR: 1
```

#### 5.3. Administer System Parameters Features

Log in to the System Access Terminal. Use the "change system-parameters features" command to enable Create Universal Call ID (UCID), which is located on Page 5. For UCID Network Node ID, enter an available node ID.

```
Change system-parameters features
                                                               Page
                                                                      5 of 19
                        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: 27
```

Navigate to Page 13 and enable Send UCID to ASAI.

```
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? Y
                                          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
```

### 5.4. Configure a Vector with Adjunct Route Step

Use "**change vector n**" to configure a Vector, where "**n**" is an available Vector number. Add the step to adjunct route to the cti link created in **Section 5.2**.

```
change vector 1001 Page 1 of 6

CALL VECTOR
Number: 1001 Name: ClassOne
Multimedia? N Attendant Vectoring? N Meet-me Conf? n Lock? N
Basic? Y EAS? Y G3V4 Enhanced? Y ANI/II-Digits? Y ASAI Routing? Y
Prompting? Y LAI? Y G3V4 Adv Route? Y CINFO? Y BSR? Y Holidays? Y
Variables? Y 3.0 Enhanced? Y
01 wait-time 2 secs hearing ringback
02 adjunct routing link 1
03 wait-time 30 secs hearing ringback
04
```

### 5.5. Configure a VDN

Use "add vdn n" to add a VDN, where "n" is an available VDN extension. On Page 1:

- 1. In the Name field, enter a name
- In the Destination field, set Vector Number to the vector configured earlier in Section 5.4

```
Page 1 of
add vdn 41001
                                                                       3
                          VECTOR DIRECTORY NUMBER
                           Extension: 41001
                                                              Unicode Name? n
                              Name*: ClassOne VDN
                         Destination: Vector Number
                                                        1001
                 Attendant Vectoring? N
                Meet-me Conferencing? N
                  Allow VDN Override? N
                                 COR: 1
                                 TN*: 2
                                             Report Adjunct Calls as ACD*? N
                            Measured: none
```

# 6. Configure Avaya Aura® Application Enablement Services

This section provides the procedures for configuring Application Enablement Services. The procedures include the following areas:

- Launch OAM interface
- Verify license
- Administer TSAPI link
- Administer iNEMSOFT user
- Administer security database
- Restart service
- 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.

avaya	Application Enablement Services Management Console			
		Help		
	Please login here: Username Continue			

The Welcome to OAM screen is displayed next.

Ανάγα Αρρ	lication Enablement Services Management Console	Welcome: User cust Last login: Wed July 5 11:49:28 E.S.T. 2023 from 192.168.200.20 Number of prior failed login attempts: 0 HostName/IP: acs/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.2.0.0.12-0 Server Date and Time: Wed Jul 26 17:11:51 EDT 2023 HA Status: Not Configured
Home		Home   Help   Logout
<ul> <li>&gt; AE Services</li> <li>Communication Manager Interface</li> <li>High Availability</li> <li>&gt; Licensing</li> <li>&gt; Maintenance</li> <li>&gt; Networking</li> <li>&gt; Security</li> <li>&gt; Status</li> <li>&gt; User Management</li> <li>&gt; Utilities</li> <li>&gt; Help</li> </ul>	<ul> <li>Welcome to OAM</li> <li>The AE Services Operations, Administration, and Manag the AE Service. OAM spans the following administrative of a AE Services - Use AE Services to manage all AE Services - Use AE Services to manage all AE Services and dialplan.</li> <li>High Availability - Use High Availability to manag there and dialplan.</li> <li>High Availability - Use High Availability to manage the license of Use Licensing to the Security to manage the license Security - Use Security to manage the next - Security - Use Security to manage the next - Security - Use Status to betain server status inform - User Management - Use User Management to management - Use User Management to management - Use User Management to management - Use Help to obtain a few tips for using the Depending on your business requirements, these adminatel domains, or a separate administrator for each domain</li> </ul>	ement (OAM) Web provides you with tools for managing lomains: Services that you are licensed to use on the AE Server. nication Manager Interface to manage switch connection e AE Services HA. server. outine maintenance tasks. work interfaces and ports. counts, certificate, host authentication and authorization, lodules for Linux) and so on. mations. anage AE Services users and AE Services user-related vity tests. OAM Help system istrative domains can be served by one administrator for n.

#### 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).



Select Licensed products  $\rightarrow$  APPL\_ENAB  $\rightarrow$  Application\_Enablement in the left pane, to display the Application Enablement (CTI) screen in the right pane.

Verify that there are sufficient licenses for TSAPI Simultaneous Users, as shown below.

AV/Aura® System	m Manager 10.1	🛓 Users 🗸 🎤 Elements 🗸 🔅 Services 🗸	Widgets v Shortcuts v	Search	📕 🔔 🗮   admin
Home	Licenses				
Licenses	^	× [			
		WebLM Home	Application Enablement (CTI) - Rele	ase: 10 - SID: 10503000(Enterprise	e license file)
		Install license	You are here: Licensed Products > Application En	ablement > View by Feature	
		Licensed products	tod are never electrice produces - Application_en	abilitient of the by reactive	
		APPL_ENAB	License installed on: June 10, 2022 9:09:46 PM -04:00		
		<ul> <li>Application_Enablement</li> </ul>	License File Host IDs: V5-E1-B3-74-2B-9F-01		
		View by feature			
		View by local WebLM	Feature (License Keyword)	License Capacity	
		Enterprise configuration	Unified CC API Desktop Edition	1000	
		► Local WebLM Configuration	(VALUE_AES_AEC_UNIFIED_CC_DESKTOP)	1000	
		► Usages	(VALUE_AES_CVLAN_ASAI)	16	
		► Allocations	Device Media and Call Control (VALUE AES DMCC DMC)	1000	
		Periodic status	AES ADVANCED SMALL SWITCH	3	
		APS_CMS_Connectors	(VALUE_AES_AEC_SMALL_ADVANCED)		
		► APS_CMS_Connectors	DLG (VALUE_AES_DLG)	16	
		Configure Centralized Licensing	TSAPI Simultaneous Users	1000	
		ASBCE	AES ADVANCED LARGE SWITCH	0	

#### 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**.

	cation Enablement Serv Management Console	ices	Welcome: User cu: Last login: Fri June Number of prior fa HostName/IP: aes Server Offer Type: SW Version: 10.1. Server Date and T HA Status: Not Co	st 9 12:00:38 E.S.T. 2023 fror iled login attempts: 0 7/10.64.101.239 VIRTUAL_APPLIANCE_ON_V 2.0.0.12-0 ime: Tue Jun 13 08:17:59 EC nfigured	n 192.168.200.20 MWARE JT 2023
AE Services   TSAPI   TSAPI Lin	ks			Hom	e   Help   Logout
▼ AE Services					
> CVLAN	TSAPI Links				
> DLG	Link Switch Connection	Swi	itch CTI Link #	ASAI Link Version	Security
> DMCC	Add Link Edit Link Delete Link				
▶ SMS					
▼ TSAPI					
TSAPI Links					
<ul> <li>TSAPI Properties</li> </ul>					

The **Add TSAPI Links** screen is displayed next. Set the following values for the specified fields and retain the default values for the remaining fields.

- Link: An available link number.
- Switch Connection: The relevant switch connection, in this case "cm7".
- Switch CTI Link Number: The CTI link number from Section 5.2.
- Security: "Encrypted" or "Both" to allow for encrypted connection.



### 6.4. Administer iNEMSOFT ClassOne iCAS CTI Users

There are three CTI Users configured for the iCAS application: **rtidrouter1**, **rtirouter1** and **rtitele**. For the purposes of this document only **rtitele** is displayed. All three are created with the same permission.

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.



### 6.5. Administer Security Database

Select Security  $\rightarrow$  Security Database  $\rightarrow$  Control from the left pane, to display the SDB Control for DMCC, TSAPI, JTAPI and Telephony Web Services screen in the right pane. Make certain that both parameters are unchecked, as shown below.

In the case that the security database is used by the customer with parameters already enabled, then follow reference [2] to configure access privileges for the iNEMSOFT user from **Section Error! Reference source not found.** 

Αναγα	Application Enablement Services Management Console	Welcome: User cust Last login: Wed July 5 11:49:28 E.S.T. 2023 from 192.168.200.20 Number of prior failed login attempts: 0 HostName/IP: aes/10.64.101.239 Server Offer Type: VIRTUL4_APPLIANCE_ON_VMWARE SW Version: 10.1.2.0.0.12-0 Server Date and Time: Wed Jul 26 17:38:14 EDT 2023 HA Status: Not Configured
Security   Security Database   Cont	trol	Home   Help   Logout
<ul> <li>&gt; AE Services</li> <li>Communication Manager Interface</li> <li>High Availability</li> <li>&gt; Licensing</li> <li>&gt; Maintenance</li> <li>&gt; Networking</li> <li>         ✓ Security     </li> </ul>	SDB Control for DMCC, WTI, TSAPI, JTAPI and Telephony Web Services  Enable SDB for DMCC and WTI Service  Enable SDB for TSAPI Service, JTAPI and Telephony Web Services  Apply Changes	
Account Management		
> Audit		
Certificate Management		
Host AA		
> PAM		
Security Database		
Control		
CTI Users		
<ul> <li>Devices</li> <li>Device Groups</li> </ul>		

### 6.6. Restart Service

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.

AVAYA	Application Enablement Services Management Console	Welcome: User cust Last login: Wed July 5 11:49:28 E.S.T. 2023 from 192.168.200. Number of prior failed login attempts: 0 HostName/IP: aes(10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.2.0.0.12-0 Server Date and Time: Wed Jul 26 17:39:33 EDT 2023 HA Status: Not Configured		
Maintenance   Service Controller		Home   Help   Logout		
AE Services     Communication Manager     Interface	Service Controller			
High Availability	Service Controller Status			
▶ Licensing	ASAI Link Manager Running			
Maintenance	DMCC Service Running			
Date Time/NTP Server	CVLAN Service Running			
Security Database	DLG Service Running			
Service Controller	Transport Layer Service Running			
Service controller	TSAPI Service Running			
Server Data	WTI Service Stopped			
<ul> <li>Networking</li> <li>Security</li> </ul>	Note: DMCC Service must be restarted for WTI service changes to take effect. For status on actual services, please use <u>Status and Control</u>			
▶ Status	Start Stop Restart Service Restart AE Server Restart Linux Restart Web Server			
User Management				
▶ Utilities				
▶ Help				

#### 6.7. 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 pertinent Tlink name, to be used later to configure iCAS. In this case, the pertinent Tlink name for unencrypted connection is "**AVAYA#CM#CSTA#AES**", as shown below.

Application Enablement Services Management Console		Welcome: User cust Last login: Wed July 5 11:49:28 E.S.T. 2023 from 192.168.200.20 Number of prior failed login attempts: 0 HostName [Jr: ast/10.44.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE Server Date and Time: Wed Jul 26 17:41:37 EDT 2023 HA Status: Not Configured
Security   Security Database   Tlink	s	Home   Help   Logout
AE Services     Communication Manager     Interface     High Availability     Licensing     Maintenance     Networking     Security     Account Management     Audit     Certificate Management	Tlinks Tlink Name AVAYA#CM7#CSTA#AES7 AVAYA#CM7#CSTA*S#AES7 AVAYA#CM#CSTA*AES7 AVAYA#CM#CSTA*S#AES7 AVAYA#CM#CSTA*S#AES AVAYA#CM#CSTA*S#AES7 Delete Tlink	
Enterprise Directory		
> Host AA		
► PAM		
✓ Security Database		
Control     GTI Users     Devices     Device Groups     Tlinks     Tlink Groups		

# 7. Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Session Manager, which is performed via the web interface of System Manager. The procedures include the following areas:

- Launch System Manager
- Administer users

### 7.1. Launch System Manager

Access the System Manager web interface by using the URL "**https://ip-address**" in an Internet browser window, where "**ip-address**" is the IP address of System Manager. Log in using the appropriate credentials.

This system is restricted solely to authorized users for legitimate business purposes only. The actual or attempted unauthorized access, use, or modification of this system is strictly prohibited.	User ID:
Unauthorized users are subject to company	Password:
disciplinary procedures and or criminal and civil penalties under state, federal, or other applicable domestic and foreign laws.	Log On Reset
The use of this system may be monitored and recorded for administrative and security reasons.	

### 7.2. Administer Users

NOTE: To ensure that TSAPI can successfully monitor the SIP Endpoints, this step must be performed on all SIP Endpoints. It is not required for H.323 Endpoints.

In the subsequent screen (not shown), select Users  $\rightarrow$  User Management from the top menu. Select User Management  $\rightarrow$  Manage Users (not shown) from the left pane to display the screen below.

Select the entry associated with the first SIP agent station from **Section** Error! Reference source not found., in this case "66006", and click **Edit**.

Avaya Aura® System Manager 10.1	Users	~ , <b>e</b>	Elements 🗸 🔅 Ser	vices ~   Widgets	; v Shortcuts v	Search	🛛 🗮 🛛 admin
Home User Managemen	t						
User Management 🔨 🔨	Home	Ġ / Use	ers R / Manage Users				Help?
Manage Users	s	earch			Q		
Public Contacts		O View	/ <u> </u>	New 🕅 Duplicate	Delete More Ac	ions 🗸	Options V
Shared Addresses			First Name 🖨 🍸	Surname 🖨 🍸	Display Name 🖨 🍸	Login Name 🖨 🍸	SIP Handle
			SIP 1	Avaya	Avaya, SIP 1	66001@dr220.com	66001
System Presence ACLs			SIP 2	Avaya	Avaya, SIP 2	66002@dr220.com	66002
Communication Profile			SIP 5	Avaya	Avaya, SIP 5	66005@dr220.com	66005
		<b>~</b>	SIP 6	Avaya	Avaya, SIP 6	66006@dr220.com	66006

The User Profile | Edit screen is displayed. Select the Communication Profile tab, followed by CM Endpoint Profile to display the screen below.

AV/ Aura® Syste	em Manager 10.1	Users 🗸 🎤 E	lements v	🌣 Servio	es v   Widgets	s v Shortcı	its v	Search	] ♣ ≡	∎   adr	nin
Home	User Management	×									
User Management ^		Home 🟠 / Users R / Manage Users								Help	?
Manage Users		User Pro	🖻 Commi	t & Continue	🖻 Comm	nit 🛛 🛞	) Cancel				
Publi	ic Contacts	Identity	Communica	ation Profile	Membership	Contacts					_
Share	ed Addresses	Communicat	ion Profile Pass	word							
Syste	em Presence ACLs	PROFILE SE	T : Primary	~	* System :	DR-CM V	*	Profile Type :	Endpoint	~	
Com	munication Profile	Communication Address			Use Existing			* Extension :	66006	₽ 🔼	
		PROFILES			Endpoints :						
		Session Ma	anager Profile		Template :	J169CC_DEFA	u Q	* Set Type :	J169CC		
		CM Endpoi	nt Profile		Security Code :	Enter Security (	Code	Port:	S000115	Q	
		Officelinx C	omm Profile		Voice Mail			Preferred	Select		
l i					Number:			Handle :	Select		
					Calculate Route			Sip Trunk :	aar		

Click on the **Editor** icon shown below.

The Edit Endpoint pop-up screen is displayed. For Type of 3PCC Enabled, select "Avaya" as shown below.

Repeat this section for all SIP agent users from **Section** Error! Reference source not found.. In the compliance testing, one SIP agent extension **66006** was configured.

System		-CM		Extension	66006		
System L		CH		LAGIDION			
Template J1		9CC_DEFAULT_C	M_8_1 🗸	Set Type	J169CC		
Port S		000115		Security Code			
Name Av		vaya, SIP 6					
General Options (G) *	e Options (F) Site Data (Sections (P) Group Men		Abbreviated Call Dialing (A) ership (M)	Enhanced Call Fwd (E)			
<ul> <li>Class of Restriction (COR)</li> <li>Emergency Location Ext</li> </ul>		2 66006		* Class Of Service (COS)	1		
				<ul> <li>Message Lamp Ext.</li> </ul>	66006		
* Tenant Number		1		]			
* SIP Trunk		Qaar		Type of 3PCC Enabled	Avaya 🗸		
Coverage Path 1				Coverage Path 2			
Lock Message				Localized Display Name	Avaya, SIP 6		
Lock Message	Multibyte Language			Enable Reachability for			
Lock Message Multibyte Language		Not Applicable	~	Station Domain Control	system 🗸		

# 8. Configure iNEMSOFT ClassOne iCAS

Configuration of iNEMSOFT CLASSONE iCAS is done by designated iNEMSOFT engineers. Therefore, no configuration is provided in this document.

# 9. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Communication Manager, Application Enablement Services, and iCAS.

### 9.1. Verify Avaya Aura® Communication Manager

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

```
      Status aesves eti-link

      AE SERVICES CTI LINK STATUS

      CTI Link
      Mnt Busy
      AE Services Service State
      Msgs Sent
      Revd

      1
      12
      no
      aes
      established
      49
      49
```

### 9.2. Verify Avaya Aura® Application Enablement Services

On Application Enablement Services, verify status of the TSAPI service by selecting Status  $\rightarrow$  Status and Control  $\rightarrow$  TSAPI Service Summary (not shown) from the left pane. The TSAPI Link Details screen is displayed.

Verify that the **Status** is "**Talking**" for the TSAPI link administered in **Section 6.3**, and that the **Associations** column reflects the number of logged in agents from **Section** Error! Reference source not found., which for this application is "2".



### 9.3. Verify iNEMSOFT ClassOne iCAS Server

The following steps may be used to verify the configuration:

• Verify that iCAS Dispatch Console successfully registers with Session Manager server by following the Session Manager → System Status → User Registrations link on the System Manager Web Interface.

#### User Registrations

Select rows to send notifications to devices. Click on Details column for complete registration status.

View   Default Export Force Unregister AST Device Notifications: Reboot Reload   Failback As of 1:06 PM										
13 Items 🖓 Show All 🗸										
Details Address v First Name Last Name	Actual Location	IP Address	Remote Office	Shared Control	Simult. Devices					
☐ ▼Hide 70121@avaya.com ClassOne Station 1	DevConnect	10.64.10.47			1/1					
User Registration Device Simultaneous History										
First Name	ClassOne									
Last Name	Station 1									
Login Name	70121@avaya.com									
Registration Address	70121@avaya.com									
All Addresses	70121@avaya.com									
Home Location	DevConnect									
Actual Location	DevConnect									
Primary SM	sm81									
Secondary SM										
Survivable SM										
Simultaneous Devices	1/1									
ELIN Number										
ELIN Last Updated										

• Place calls to and from iCAS Dispatch Console and verify that the calls are successfully established with two-way talk path.

### 10. Conclusion

These Application Notes describe the configuration steps required for iNEMSOFT CLASSONE iCAS 6.0 Dispatch Console to successfully interoperate with Avaya Aura® Communication Manager 10.1 and Avaya Aura® Application Enablement Services 10.1. All feature and serviceability test cases were completed with observations noted in **Section** Error! Reference source not found..

# 11. Additional References

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

- **1.** *Administering Avaya Aura*® *Communication Manager*, Release 10.1.x, Issue 6, May 2023, available at <u>http://support.avaya.com</u>.
- **2.** Administering Avaya Aura® Application Enablement Services, Release 10.1.x, Issue 7, May 2023, available at <a href="http://support.avaya.com">http://support.avaya.com</a>.
- **3.** Administering Avaya Aura® Session Manager, Release 10.1.x, Issue 6, May 2023, available at <u>http://support.avaya.com</u>.

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