

#### **DevConnect Program**

# Application Notes for InGenius Connect 2023 R1.0 with Avaya Aura® Communication Manager 10.1 and Avaya Aura® Application Enablement Services 10.1 – Issue 1.0

#### Abstract

These Application Notes describe the configuration steps required to integrate InGenius Connect with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services. InGenius Connect is a CRM-VoIP integration tool that sits between the customer's phone system and a CRM application, such as Salesforce.

In the compliance test, InGenius Connect used the Device, Media, and Call Control interface from Avaya Aura® Application Enablement Services to monitor agents on Avaya Aura® Communication Manager, to provide screen pop, call control, and click-to-dial features from the agent desktops connected to Salesforce.

Readers should pay attention to **Section** Error! Reference source not found., in particular the scope of testing as outlined in **Section Error! Reference source not found.** as well as any observations noted in **Section Error! Reference source not found.**, 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 describe the configuration steps required to integrate InGenius Connect with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services. InGenius Connect is a CRM-VoIP integration tool that sits between the customer's phone system and a CRM application, such as Salesforce.

In the compliance test, InGenius Connect used the Device, Media, and Call Control interface from Avaya Aura® Application Enablement Services to monitor agents on Avaya Aura® Communication Manager, to provide screen pop, call control, and click-to-dial features from the agent desktops connected to Salesforce. InGenius Connect is comprised of the InGenius Telephony Gateway and InGenius Connect Apex Package .

# 2. General Test Approach and Test Results

The interoperability compliance test included feature and serviceability testing. Upon an agent log in, InGenius Connect used DMCC to query device information and agent state, log the agent into the ACD on Communication Manager, if needed, and requested device monitoring.

During the feature testing, incoming ACD calls were placed to available agents that have web browser connections to Salesforce. All necessary call actions were initiated from the agent desktops and/or telephones. The click-to-dial calls were initiated by clicking on the contact phone number displayed on the agent desktops.

The serviceability testing focused on verifying that the InGenius Teephony Gateway server recovered after restoring network connectivity and the CTI link to Application Enablement Services.

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 Application Enablement Services and InGenius Connect did not include use of any specific encryption features as requested by Upland Software.

### 2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on verifying the following on InGenius Connect:

- Use of DMCC logical device services to set agent states, including log in, log out, and work mode changes with support for reason codes and pending aux work.
- Use of DMCC snapshot services to obtain information on agent stations and existing calls.
- Use of DMCC monitoring services to monitor agent stations and existing calls.
- Use of DMCC call control services to support call control and click-to-dial features.
- Proper handling of call scenarios involving inbound, outbound, internal, external, ACD, non-ACD, screen pop, drop, hold/resume, multiple calls, multiple agents, conference, transfer, redirect on no answer, auto answer, long duration, send DTMF, click-to-dial from contact phone number, pending aux work, and reason codes.

The serviceability testing focused on verifying the ability of InGenius Connect to recover from adverse conditions, such as disconnecting/reconnecting the Ethernet connection to InGenius Telephony Gateway.

#### 2.2. Test Results

All test cases passed with the following observation:

• By design, the agent desktop does not support initiation of unattended conference.

#### 2.3. Support

Technical support on InGenius Connect can be obtained through the following:

- **Phone:** +1 (613) 591-9002 x4000
- Email: <u>ingenius-support@uplandsoftware.com</u>
- Web: <u>https://support.uplandsoftware.com/portal/ss/login</u>

# 3. Reference Configuration

**Figure 1** illustrates the configuration used for the compliance testing. 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, InGenius Connect monitored the agent stations shown in the table below.

Device Type	Extension
VDNs	60001
Skill Group	61001
Agent Stations	65000, 65001, 66006
Agent IDs	65881, 65882



Figure 1: InGenius Connect with Avaya Aura® Suite

# 4. Equipment and Software Validated

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

Software Component	Version		
Aura® Communication Manager	10.1.3.0.1.974.27893		
Aura® Media Server	10.1.0.154		
Aura® System Manager	10.1.3.0.0715713		
Aura® Session Manager	10.1.3.0.1013007		
Aura® Application Enablement Services	10.1.3.0.0.11-0		
Session Border Controller	10.1.2.0-64-23285		
96x1 Series Deskphones J179 Series Deskphones	6.8.5.3.2 (H.323)		
J169 Series Deskphones	4.0.13.0.6 (SIP)		
<ul> <li>InGenius Connect , including:</li> <li>InGenius Telephony Gateway on Windows Server 2019</li> <li>InGenius Connect Apex Package</li> </ul>	2023 R1.0		

# 5. Configure Avaya Aura® Communication Manager

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

- Verify license
- Administer system parameters features
- Administer CTI link
- Obtain reason codes

### 5.1. Verify License

Log into the System Access Terminal (SAT) to verify that the Communication Manager license allows the features illustrated in these Application Notes. Use the **display system-parameters customer-options** command to verify that the **Computer Telephony Adjunct Links** option is enabled on **Page 4**. If this option is not enabled, then contact an authorized Avaya sales representative to make the appropriate changes.

```
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? 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? n
                                                                       DCS (Basic)? y
           ASAI Link Core Capabilities? y
ASAI Link Plus Capabilities? y
                                                                 DCS Call Coverage? 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? y
                                                 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 System Parameters Features

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
                                                                      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: 27
```

Navigate to **Page 13** and enable **Send UCID to ASAI**. This parameter allows for the universal call ID to be sent to InGenius Telephony Gateway.

```
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 CTI Link

Add a CTI link using the **add cti-link** command. 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: 60111

Type: ADJ-IP

COR: 1

Name: AES CTI Link

Unicode Name? n
```

### 5.4. Obtain Reason Codes

For customers that use reason codes, enter the **change reason-code-names** command to display the configured reason codes. Make a note of the reason codes, which will be used later to configure InGenius Connect.

```
change reason-code-names
                                                             Page 1 of
                                                                           1
                              REASON CODE NAMES
                         Aux Work/
                                            Logout
                      Interruptible?
       Reason Code 1: Meeting
                                     /n
       Reason Code 2: Lunch
                                     /n
       Reason Code 3: Break
                                     /n
       Reason Code 4: Sleep
                                     /n
       Reason Code 5:
                                     /n
       Reason Code 6:
                                     /n
       Reason Code 7:
                                     /n
                                            Other
       Reason Code 8:
                                     /n
       Reason Code 9:
                                     /n
 Default Reason Code:
```

## 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 InGenius user
- Administer security database
- Administer ports
- Restart services

### 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 Application Enablement Services. The login screen is displayed. Log in using the appropriate credentials.

Αναγα	Application Enablement Services Management Console	
	Please login here: Username Continue	нар
	Copyright © 2009-2023 Avaya Inc. All Rights Reserved.	

The Welcome to OAM screen is displayed next.

αναγα	Application Enablement Services Management Console	Number of prior failed join attempts: 0 Hoattame/Pir.ex(10.64.10.1.230 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.3.0.0.11-0 S Variant: 10.1.3.0.0.11-0 S Variant: Not Configured	
Home		Home   Help   Log	
AE Services     Communication Manager     Interface	Welcome to OAM		
High Availability	The AE Services Operations, Administration, and Management (OAM) Web provides you with tools for managing the AE	Server, DAM spans the following administrative domains:	
> Licensing	AF Services - Lise AF Services to manage all AF Services that you are licensed to use on the AF Server.	serven over spans che reforming duministrative domainsi	
> Maintenance	Communication Manager Interface - Use Communication Manager Interface to manage switch connection and d     High Availability Isea High Availability to manage AS Services HA	lialplan.	
Networking	Licensing - Use Licensing to manage the license server.		
Security	<ul> <li>Maintenance - Use Maintenance to manage the routine maintenance tasks.</li> <li>Networking - Use Networking to manage the network interfaces and ports.</li> </ul>		
▶ Status	<ul> <li>Security - Use Security to manage Linux user accounts, certificate, nost authentication and authonization, config</li> <li>Status - Use Status to obtain server status informations.</li> </ul>	gure Linux-PAM (Pluggable Authentication Modules for Linux) and so on.	
User Management	<ul> <li>User Management - Use User Management to manage AE Services users and AE Services user-related resource</li> <li>Utilities - Use Utilities to carry out basic connectivity tests.</li> </ul>	s.	
> Utilities	<ul> <li>Help - Use Help to obtain a few tips for using the OAM Help system</li> </ul>		
⊦ Help	Depending on your business requirements, these administrative domains can be served by one administrator for all do	mains, or a separate administrator for each domain.	
	Convricte @ 2009-2023 Aveva Tor: All Picture Reserved		

### 6.2. Verify License

Select **Licensing**  $\rightarrow$  WebLM Server Address in the left pane to display the applicable WebLM IP address. Log into WebLM using the appropriate credentials.

	Application Enablement Services Management Console	Last login: Thu Jan 11 15:11:16 E.S.T. 2024 from 192.168.120.39 Number of prior field login attempts: 0 HostName/IP: sey10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.3.0.0.11:0 Server Dote and Time: fri Jan 19 10:46:52 EST 2024 HA Status: Net Configured
Licensing   WebLM Server Address		Home   Help   Logout
AE Services     Communication Manager     Interface	WebLM Server Address	
High Availability	WebLM IP Address/FQDN 10.64.101.235	
▼ Licensing	SSL 🗹	
WebLM Server Address	WebLM Port 52233	
WebLM Server Access	Secondary WebLM IP Address/FQDN	
Reserved Licenses	Secondary SSL	
Maintenance	Secondary WebLM Port	
Networking	TLS Certificate Hostname Validation	
Security	Note:Please refer help page for more details	
> Status	Enable Certificate Hostname Validation	
User Management		
> Utilities	Apply Changes Restore Defaults	
> Help		
	Copyright @ 2009-2023 Avava Inc. All Rights Reserved.	

The WebLM screen below is displayed. 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. Note that the TSAPI license is used for device monitoring and call control via DMCC, and that no specific DMCC license is required for the integration with InGenius Connect.

n Manager 10.1				June 1	<b>-</b> -	
Licenses						
^	WebLM Home	Application Enablement (CTI) - Rele	ase: 10 - S	ID: 10503000(Enterprise license file)		
	Install license	You are here: Licensed Products > Application_Enablement > View by Feature				
	Licensed products					
	APPL ENAB	License installed on: June 10, 2022 9:09:46 PM -04:00				
	✓ Application_Enablement	License File Host IDs: V5-E1-B3-74-	28-9E-01			
	View by feature	License File Host 103. VJ-c1-03-74-	20-92-01			
	View by local WebLM	Feature	Expiration	License Capacity	Currently	
	Enterprise configuration	(License Keyword) Unified CC API Deskton Edition	date		available	
	Local WebLM Configuration	(VALUE_AES_AEC_UNIFIED_CC_DESKTOP)	permanent	1000	1000	
	Usages	CVLAN ASAI (VALUE_AES_CVLAN_ASAI)	permanent	16	16	
	<ul> <li>Allocations</li> </ul>	Device Media and Call Control	permanent	1000	1000	
	Periodic status	(VALUE_AES_DMCC_DMC)				
	APS CMS Connectors	(VALUE_AES_AEC_SMALL_ADVANCED)	permanent	3	3	
	APS_CMS_Connectors	DLG (VALUE AES DLG)	permanent	16	16	
	Configure Centralized Licensing	TSAPI Simultaneous Users	narmanant	1000	1000	
	ASBCE	(VALUE_AES_TSAPI_USERS)	permanent	1000	1000	
	Session Border Controller E AE	(VALUE_AES_AEC_LARGE_ADVANCED)	permanent	3	3	
	CCTR	CVLAN Proprietary Links	permanent	16	16	
	ContactCenter	(Webe_Neb_) Konderakti_enko/		SmallServerTypes:		
	CMS			s8300c;s8300d;icc;premio;tn8400;laptop;CtiSmallServer MediumServerTypes:		
	+ CMS			ibmx306;ibmx306m;dell1950;xen;hs20;hs20_8832_vm;CtiMediumServer LargeServerTypes:		
	Configure Centralized Licensing			isp2100;ibm:305;d1880;3:d18551;d1885;2:unknown:CiLargeServer TrustedApplications: 1P5_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; 1XM_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; 1XM_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; CE_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; CE_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; CE_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; CE_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; VE_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; VE_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; VE_001, BasicUnrestricted, AdvancedUnrestricted, CE_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; CSI, T1_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; CSI, T2_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; CSI, T2_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted;		
	COMMUNICATION_MANAGER					
	Call Center					
	Communication_Manager					
	FE					
	AvayaWorkplace	-				
	MSR					
	Media_Server	Product Notes (VALUE_NOTES)		DMCUnrestricted; CCT_ELITE_CALL_CTRL_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted, AgentEvents; ANAV_001,		
<	OL		permanent	<ul> <li>BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted, AgentEvents; UNIFIED_DESKTOP_001, BasicUnrestricted, AdvancedUnrestricted,</li> </ul>		
	▶ OL			DMCUnrestricted, AgentEvents; AACC_001, BasicUnrestricted, AdvancedUnrestricted, DMCUnrestricted; CE_AGENT_STATES_001		

#### 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.

	Application Enablement Services Management Console	Welcome: User cust Last login: Fri Oct 27 14:14:39 E.S.T. 2023 from 192.168.12 Number of prior failed login attempts: 1 HostName/IP: aes/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.3.0.11-0 Server Date and Time: Mon Oct 30 17:01:14 EDT 2023 HA Status: Not Configured
AE Services   TSAPI   TSAP	Links	Home   Help   Lo
AE Services     CVLAN	T\$API Links	
> DLG	Link Switch Connection Sw	itch CTI Link # ASAI Link Version Security
► DMCC	● 1 cm 1	12 Both
▶ SMS	Add Link Edit Link Delete Link	I
▼ TSAPI		
TSAPI Links		

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 cm is selected. For **Switch CTI Link Number**, select the CTI link number from **Section 5.3**. Retain the default values in the remaining fields.

avaya	Application Enablement Services Management Console	Wetcome: User Cust Last login: Fri Oct 27 14:14:39 E.S.T. 2023 from 192.168.120.19 Number of prior failed login attempts: 1 HostName/IP: aes/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.3.0.0.1-0 Server Date and Time: Mon Oct 30 17:02:41 EDT 2023 HA Status: Not Configured
AE Services   TSAPI   TSAPI	Links	Home   Help   Logout
▼ AE Services		
► CVLAN	Edit TSAPI Links	
▶ DLG	Link 1	
DMCC	Switch Connection cm V	
► SMS		
TSAPI	ASAI LINK Version 12V	
TSAPI Links     TSAPI Properties	Apply Changes Cancel Changes Advanced Settings	
▶ TWS		
Communication Manage Interface High Availability	er -	

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#### 6.4. Administer InGenius 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	Application Enablement Services Management Console		Weicome: User Cusc Last login: Thu Jan 11 15:21:16 E.S.T. 2024 from 192.168.120 Number of prior failed login attempts: 0 HostName/IP: aes/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.3.0.0.11-0 Server Date and Time: Fri Jan 19 10:49:28 EST 2024 HA Status: Not Configured
User Management   User Admin	List All Users		Home   Help   Logo
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> </ul>	Edit User		
High Availability	* User Id	ingenius	
Licensing	* Common Name	ingenius	
Maintenance	* Surname	ingenius	
Networking	User Password	••••••	
Security	Confirm Password		
Status	Admin Note		
▼ liser Management	Avaya Role	None	
Service Admin	Business Category		
V Usor Admin	Car License		
Add User	CM Home		
Change User Password     List All Users	Css Home CT User	Yes V	
<ul> <li>Modify Default Users</li> </ul>	Department Number		
<ul> <li>Search Users</li> </ul>	Display Name		
Vtilities	Employee Number		
∖ Holo	Employee Type		

#### 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. Esnure that both parameters are unchecked as shown below.

avaya	Application Enablement Services Management Console	Weicome: User Cust Last login: Fri Oct 27 14:14:39 E.S.T. 2023 from 192.168.120.19 Number of prior failed login attempts: 1 HostName/IP: aes/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.3.0.0.11-0 Server Date and Time: Mon Oct 30 17:07:15 EDT 2023 HA Status: Not Configured
Security   Security Databas	e   Control	Home   Help   Logout
AE Services		
Communication Manag	er SDB Control for DMCC, WTI, TSAPI, JTAPI and Telephony Web Serv	vices
High Availability	Enable SDB for DMCC and WTI Service	
▶ Licensing	Enable SDB for TSAPI Service, JTAPI and Telephony Web Services	
▶ Maintenance	Apply Changes	
▶ Networking		
▼ Security		
Account Management		
Audit		
Certificate Management	nt	
Enterprise Directory		
Host AA		
▶ PAM		
Security Database		
Control		

#### 6.6. Administer Ports

Select **Networking**  $\rightarrow$  **Ports** from the left pane to display the **Ports** screen in the right pane.

In the **DMCC Server Ports** section, select the radio button for **Unencrypted Port** under the **Enabled** column as shown below. Retain the default values in the remaining fields.

	Applica	ntion Enablem Management Con	ent Services		Welcome: User Cust Last login: Thu Jan 11 15:21:16 E.S.T. 2024 from 192.168.120. Number of prior failed login attempts: 0 HostName/IP: aes/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.3.0.0.11-0 Server Date and Time: Fri Jan 19 10:50:38 EST 2024 HA Status: Not Configured
Networking  Ports					Home   Help   Logo
AE Services     Communication Manager     Interface	Ports				
High Availability	CVLAN Ports			Enabled Disabled	
Licensing		Unencrypted TCP Port	9999		
Maintenance		Encrypted TCP Port	9998		
Networking	DLG Port	TCP Port	5678		
AE Service IP (Local IP)					
Network Configure	TSAPI Ports	TOADL Consider Doct	450	Enabled Disabled	
Ports		I SAPI Service Port	450		
TCP/TLS Settings		TCP Port Min	1024		
Security		TCP Port Max	1039		
Status		TCP Port Min	1050		
User Management		TCP Port Max	1065		
Utilities		Encrypted TLINK Ports			
Help		TCP Port Min	1066		
	-	TCP Port Max	1081		
	DMCC Server Ports			Enabled Disabled	
		Unencrypted Port	4721	• •	
		Encrypted Port	4722	• •	
		TR/87 Port	4723		

#### 6.7. Restart Services

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

avaya	Application Enablement Services Management Console	Welcome: User cust Last login: Thu Jan 11 15:21:16 E.S.T. 2024 from 192.168.120.39 Number of prior failed login attempts: 0 HostName/IP: aes/10.64.101.239 Server Offer Type: VRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.3.0.0.11-0 Server Date and Time: Fri Jan 19 10:51:26 EST 2024 HA Status: Not Configured
<ul> <li>&gt; AE Services</li> <li>Communication Manager Interface</li> <li>High Availability</li> <li>&gt; Licensing</li> <li>&gt; Maintenance</li> <li>Date Time/NTP Server</li> <li>&gt; Security Database</li> <li>Service Controller</li> <li>&gt; Service Controller</li> <li>&gt; Server Data</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>	Service Controller         Service Controller Status         ASAI Link Manager Running         DMCC Service Running         CVLAN Service Running         DLG Service Running         Transport Layer Service Running         TSAPI Service Running         WTI Service Stopped         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> Start       Stop Restart Service Restart AE Server Restart Linux Restart Web Server	
	Convision @ 2000, 2023 Ausus Ton All Binkte Berenier	a.1

# 7. Configure Avaya Aura® Session Manager

This section provides the procedure for configuring a SIP agent on Session Manager, which is performed via the web interface of System Manager. The procedure includes 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 web browser window, where <*ip-address*> is the System Manager IP address. Log in using the appropriate credentials.

Recommended access to System Manager is via FQDN.         Go to central login for Single Sign-On         If IP address access is your only option, then note that authentication will fail in the following cases:         • First time login with "admin" account         • Expired/Reset passwords         Use the "Change Password" hyperlink on this page to change the password manually, and then login.         Also note that single sign-on between servers in the same security domain is not supported when accessing via IP address.         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: Password: Log On Cancel Change Basword Change Basword Change Basword Supported Browsers: Firefox (minimum version 93.0), Chrome (minimum version 93.0).
Unauthorized users are subject to company disciplinary procedures and or criminal and civil penalties under state, federal, or other applicable domestic and foreign laws. The use of this system may be monitored and recorded for administrative and security reasons. Anyone accessing this system expressly consents to such monitoring and recording, and is advised that if it reveals possible evidence of criminal activity, the evidence of such activity may be provided to law enforcement officials. All users must comply with all corporate instructions regarding the protection of information assets.	

### 7.2. Administer Users

In the subsequent screen (not shown), select Users  $\rightarrow$  User Management. Select User Management  $\rightarrow$  Manage Users from the left pane to display the User Management screen below. Select the entry associated with the SIP agent station from Section Error! Reference source not found., in this case *66006*, and click Edit.

me User Management						
er Management	Home合 / Users	R / Manage Users				
Manage Users	Search		Q			
Public Contacts	© View	_ Edit + New	希 Duplicate 🔒 Delete	More Actions V		Option
Shared Addresser		First Name 🗘 🝸	Surname 🖨 😤	Display Name 🖨 🝸	Login Name 🖨 🔞	SIP Handle 💎
Shared Budiesies		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
		SIP 6	Avaya	Avaya, SIP 6	66006@dr220.com	66006
		SIP 7	Avaya	Avaya, SIP 7	66007@dr220.com	66007
		SIPRW 8	Avaya	Avaya, SIPRW 8	66008@dr220.com	66008
		SIPRW 9	Avaya	Avaya, SIPRW 9	66009@dr220.com	66009
		Workplace	Avaya	Avaya, Workplace	66004@dr220.com	66004
		admin	admin	Default Administrator	admin	
	Select All	<ul> <li>Selected 1 Items</li> </ul>				

The User Profile Add screen is displayed. Select the Communication Profile tab to display the screen below.

Navigate to the	<b>CM Endpoint</b>	Profile sub-section	and click Endpoint Editor.
0	<b></b>		······································

AVAYA &	Users 🗸 🎤 Elements 🗸 🔅 Services	Sea	rch 🔰 🐥 🗮   4	admi		
Home User Management	t de la companya de l					
User Management ^	Home 🛆 / Users 🎗 / Manage Users					Help
Manage Users	User Profile   Edit   66006@d	r220.com		Commit & Continue	Commit 🛞 Can	icel
Public Contacts	Identity Communication Profile	Membership Contacts	3			
Shared Addresses	Communication Profile Password					
System Presence ACLs	PROFILE SET : Primary ¥	* System :	DR-CM Y	* Profile Type:	Endpoint	~
Communication Profile	Communication Address	Use Existing Endpoints :		* Extension :	66006	
	PROFILES					
	Session Manager Profile	Template :	Start typing Q	Set Type :	J169CC	
	CM Endpoint Profile	Security Code:	Enter Security Code	Port:	S000115	Q
	Office Barri Occasi Profile					

lit Endpoint				[Save	Help ?
System	DR-CM		Extension	66006	
remplate	Select	~	Set Type	J169CC	di
Port	S000115		Security Code		
General Options (G) * Fea	ture Options (F)	Site Data (S)	Abbreviated Call Dialing (A)	Enhanced Call Fwd (E)	
Class of Restriction (COR     Emergency Location Ext     Tenant Number	2 66006	Group Membe	Class Of Service (COS) Message Lamp Ext.	1 66006	
* SIP Trunk	Qaar		Type of 3PCC Enabled	Avaya 🗸	
			Coverage Path 2		
Coverage Path 1			Localized Dicelau Name	Avaya, SIP 6	
Coverage Path 1 Lock Message			Localized Display Name		
Coverage Path 1 Lock Message Multibyte Language	Not Applicable	• •	Enable Reachability for Station Domain Control	system 🗸	
Coverage Path 1 Lock Message Multibyte Language SIP URI	Not Applicable	• •	Enable Reachability for Station Domain Control	system 🗸	
Coverage Path 1 Lock Message Multibyte Language SIP URI Primary Session Manager-	Not Applicable	2 ¥	Enable Reachability for Station Domain Control	system 🗸	

The **New Endpoint** screen is displayed next. For **Type of 3PCC Enabled**, select *Avaya* from the drop-down list as shown below. Retain the default values in the remaining fields.

# 8. Configure InGenius Connect

This section provides the procedures for configuring InGenius Connect. The procedures include the following areas:

- Launch InGenius Telephony Integration Server Configuration Tool
- Administer telephony
- Start service

This section assumes the InGenius Connector Enterprise package has been imported and published, with the appropriate Security Role created, and users created and assigned to the Security Role.

#### 8.1. Launch InGenius Telephony Integration Server Configuration Tool

Launch the **InGenius Server Configuration** application. The **InGenius Telephony Integration Server Configuration Tool** screen is displayed.



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### 8.2. Administer Telephony

The InGenius Telephony Integration Server Configuration Tool, select Configuration  $\rightarrow$  Telephony from the top menu, followed by the Primary AES tab in the right pane to display the screen below.

Enter the following values for the specified fields and retain the default values in the remaining fields.

- Address: The IP address of Application Enablement Services.
- **Port:** The DMCC unencrypted port 4721.
- Username: The InGenius user credentials from Section 6.4.
- **Password:** The InGenius user credentials from **Section 6.4**.
- **Connection manager:** The relevant switch connection name from **Section 0**.

General Telephony					
PBX / Switch	Avaya Aura Communication Mana	ager / Avaya Call Center Elite			•••
Astensk	Primary AES Secondary AES	Testing Agent Setup			
Cisco Unified Conta	Primary Application	on Enablement Servi	ces (AES)		
Cisco Unified Conta Genesys Engage	Address:	10.64.101.239	Port: 4721 🖨		
	Usemame:	ingenius			
	Password:	•••••			
	Connection manager (CM)	): cm			
	Use secure connection	n			
	Server common nam	e:			

Select the **Testing** tab and click the **Test** button to verify connectivity to Application Enablement Services.

PBX / Switch	Avaya Aura Communication Manager / Avaya Call Center Elite		
Asterisk	Primary AES Secondary AES Testing Agent Setup		
Cisco Unified Conta	Testing		
Genesys Engage	<ul><li>✓ Connected</li><li>✓ Disconnected</li></ul>		
	Testing secondary server:		
	Connected Disconnected		
		Te	st
Extensions			

Select the **Agent Setup** tab in the right pane to display the screen below. Update parameters in the **Agent** and **Work Modes** sub-sections to the proper settings. The screenshot below shows the values used in the compliance testing.

For customers that use reason codes, check **Enable reason codes** in the **Reason Codes** subsection and create reason code entries to match **Section 5.4**. In the compliance testing, four reason codes were created under the **Logout** tab.

uration Status			
eral Telephony			
3X / Switch Asterisk	Avaya Aura Communication Manager / Avaya Call Center Elte		
Avaya Aura Commu     Gisco Unified Conta     Gisco Unified Conta     Genesys Engage	Agent                 Enabled                  Prompt for password on login                 Prompt for password on login                 Prompt for password when starting monitor                 Work Modes                 Login             Ready                 Auto In                 Aux work                    Reason Codes                 Logoin             Ready                 Prompt for password when starting monitor		
	Code Comment	Enable	ed
	1 Meeting	E	2
xtensions	2 Lunch	6	2
Geolocator	3 Break	6	2
LICCVO. unu Chata			2
UCCXQueueStats	▶ 4 Sleep		1

Two reason codes were created under the Not Ready tab.

🙂 InGenius Telephony Integration Server Configuration Tool [Release: 1.4.0.13865] - C						<
	Rea	son Co	des on codes			^
	Logo	Code	Comment	Enabled		
Extensions	•	1	Lunch		_	
Geolocator		2	Coffee		_	
UCCXQueueStats					_	
						~

#### 8.3. Start Service

Select **Status** from the top menu to display the screen below, and click **Start Service**.

U InGenius	InGenius Telephony Integration Server Configuration Tool [Release: 1.4.0.13865] - D X							
Configuration	Status					^		
0	The service must be restarted after configuration changes have been made for the latest configuration to take effect.         The service is configured to restart on reboot until stopped here.         Log files are located here:       C:\ProgramData\InGenius\ICE\LOGS							
Stopped								
	Start Service Stop Service							

The screen is updated, as shown below.

	Running	Uptime: 0.00:00:14
Start Service		Stop Service
4-01-09720:00:01.516Z [I] (00000000000000000 4-01-09720:00:01.531Z [I] (00000000000000000 4-01-09720:00:01.578Z [I] (0000000000000000 4-01-09720:00:02.741Z [I] (0000000000000000 4-01-09720:00:02.335Z [I] (0000000000000000 4-01-09720:00:02.335Z [I] (0000000000000000 4-01-09720:00:02.757Z [I] (0000000000000000) 4-01-09720:00:02.757Z [I] (0000000000000000)	{0005} : <no name=""> : {0005} : <no name=""> : {0006} : <no name=""> : {0005} : <no name=""> :</no></no></no></no></no></no></no></no></no></no></no>	<pre>Starting Starting Data Manager Starting Operations Processor. Data Manager Started. Logging set to True Telephony Provider {ab120f6a-0411-4d5b-ab4c-fc96abc756 Starting Server Push Provider Server Push Provider started. Client Handler {fa35fd0d-0876-438c-86b5-41828c279a2c} Running.</pre>

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# 9. Verification Steps

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

### 9.1. Verify Avaya Aura® Communication Manager

On Communication Manager, verify the 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 5.3**, 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	12	no	aes	established	3289	3289

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

On Application Enablement Services, verify the status of the DMCC service by selecting Status  $\rightarrow$  Status and Control  $\rightarrow$  DMCC Service Summary from the left pane. The DMCC Service Summary – Session Summary screen is displayed. Verify the User column shows an active session with the InGenius user name from Section 6.4.

Status   Status and Control  DMCC Service Summary         > AE Services         Communication Manager Interface         High Availability         > Licensing         > Maintenance         Session Summary Device Summary Maintenance         > Networking		Home   Help   Log
> AE Services     DMCC Service Summary - Session Summary       > Communication Manager Interface     DMCC Service Summary - Session Summary       + High Availability     Please do not use back button       > Licensing     □ Enable page refresh every 60 v seconds       > Maintenance     Session Summary Device Summary Generated on Fr1 uan 19 11 08 06 EST 2024       > Networking     Service Uptime:     13 days, 21 hours 11 minutes		
Communication Homoger     DMCC Service Summary - Session Summary       Interface     Please do not use back button       High Availability     Enable page refresh every 60 v seconds       > Maintenance     Session Summary Device Summary       Generated on Fri Jan 19 11:08:06 EST 2024       > Networking     Service Uptime:		
High Availability     Please do not use back button       > Licensing     □ Enable page refresh every 60 v seconds       > Maintenance     Session Summary Device Summary Generated on Fri Jan 19 11:08:06 EST 2024       > Networking     Service Uptime:		
<ul> <li>▶ Licensing</li> <li>▶ Maintenance</li> <li>▶ Maintenance</li> <li>▶ Networking</li> <li>▶ Networking</li> <li>► Service Uptime:</li> <li>► 13 days, 21 hours 11 minutes</li> </ul>		
Maintenance         Session Summary Device Summary Generated on Fri Jan 19 11:08:06 EST 2024           > Networking         Service Uptime:         13 days, 21 hours 11 minutes		
Networking     Generated on Fri Jan 19 11:08:06 EST 2024     Service Uptime: 13 days, 21 hours 11 minutes		
Security     Number of Active Sessions:		
Number of Sessions Created Since Service Boot: 11     Number of Eviction Devices: 0		
Alarm Viewer Number of Devices Created Since Service Boot: 4		
Logs Session ID User Application Far-end Identi	ier Connection Type	# of Associated Devices
Log Manager B6FDC9F4E6AEA0217 F4A4FE83859CBE6-13 ingenius InGenius Avaya Plugin 10.54.101.207	XML Unencrypted	0
Status and Control     Terminate Sessions Show Terminated Sessions	1	
CVLAN Service Summary     Item 1-1 of 1		
DLG Services Summary     Go		
DMCC Service Summary		

Verify the status of the TSAPI service by selecting Status  $\rightarrow$  Status and Control  $\rightarrow$  TSAPI Service Summary from the left pane. The TSAPI Link Details screen is displayed.

Verify that the **Status** is *Talking* for the TSAPI link administered in **Section 0**, and that the **Associations** column reflects the number of agents from **Section** Error! Reference source not found. that are currently logged into InGenius Connect and connected to the agent stations on Communication Manager.

Application Enablement Services Management Console				Welcome. User Cust Last login: Fri Jan 19 10:46:37 E.S.T. 2024 from 192.168.120 Number of piori failed login attempts: 0 HostName/IP: aes/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.3.0.0.11-0 Server Date and Time: Fri Jan 19 11:08:59 EST 2024 HA Status: Not Configured							
TSAPI	Link D	letails e refresh every 60 ❤	seconds								
			Switch CTT						Mean	Meas	Mene
	Link	Switch Name	Link ID	Status	Since	State	Switch Version	Associations	to Switch	from Switch	Period
	1	cm	1	Talking	Fri Jan 5 13:55:15 2024	Online	20	51	3326	3330	30
	Ŀ		<u> </u>	Talking	11138113 13:33:13 2024	Onnie	20	51	5520	5550	50
Onlin	ne Of	fline									
For serv	vice-wide	information, choose of	one of the following	g:							
TSAP	I Servio	e Status   TLink St	atus User Sta	tus							
	Service TSAPI Enč Enč Enč TSAP	App Service Summ	Application E Manag Service Summary TSAPI Link Details Enable page refresh every 60 × Link Switch Name © 1 cm Online Offline For service-wide information, choose e TSAPI Service Status TLink St	Application Enableme Management Con Service Summary TSAPI Link Details Enable page refresh every 60 v seconds Link Switch Name Switch CTI Link 10 @ 1 cm 1 Online Offline For service-wide information, choose one of the following TSAPI Service Status TLink Status User Status	Application Enablement Set Management Console Service Summary TSAPI Link Details Enable page refresh every 60 v seconds Link Switch Name Switch CTI Status @ 1 cm 1 Talking Online Offline For service-wide information, choose one of the following: TSAPI Service Status TLink Status User Status	Application Enablement Services Management Console  Service Summary  TSAPI Link Details  Carbon Solution  TSAPI Link Switch Name Switch CTT Status Since Conline Offline  For service-wide information, choose one of the following: TSAPI Service Status Tink Status User Status	Application Enablement Services Management Console  Service Summary	Application Enablement Services Management Console Service Summary	Application Enablement Services Management Console       Server Offer 1/ps: 10.13.0 Server Offer 1/ps: 10.13.0 Server Date and Time HA Status: Not Confer Service Summary         Service Summary         Isotopic Tables Service Numery         Isotopic Tables Service Summary         Isotopic Tables Service Numery         Isotopic Tables Service	Application Enablement Services Management Console  Werksion is van dual Server Offer Type: VIRTUAL, APPLI Server Date and Time: Fn Jan 19 1 HA Status: Not Configured  TSAPI Link Details ■ Enable page refresh every 60 seconds Link Switch Name Switch CTI Status Since State Switch Version Associations It Switch @ 1 cm 1 Talking Fri Jan 5 13:55:15 2024 Online 20 51 3326 Online Offline For service Status Tunk Status User Status	Application Enablement Services         Management Console         Service With Inter- Fri Jan 19 11:08:59 EST 202         Maragement Console         Service Summary         Mone 14         TSAPI Link Details            enable page refresh every 60 ♥ seconds             for an 1 Talking Fri Jan 5 13:55:15 2024 Online 20 51 3326 3330          Online Offline            for service Status Turk Status User Status

### 9.3. Verify InGenius Connector Enterprise

From an agent PC, launch an Internet browser window and enter the Salesforce URL. Log in with the appropriate Salesforce user credentials.

	sales	force	
Username			
agent1@in	cert1.com		
Password			
	Log	; In	
🗌 Rememb	er me		
Forgot Your Pa	sword?		

The screen below is displayed next. Select the phone icon from the top menu to display the **InGenius** floating screen shown below. Enter the relevant agent station extension from **Section** Error! Reference source not found., and click **Connect**.

			Q Search
InGenius Sales	Contacts	$\sim$	
<ul> <li>E Recently Viewed ▼</li> <li>0 items • Updated a few seconds ago</li> <li>Q Search this list</li> <li>Recently Viewed ↓</li> </ul>			
<ul> <li>► InGenius</li> <li>Extension</li> <li>65001</li> <li>□ Remember me on this computer</li> <li>⑦</li></ul>	nnect cently.	•	

The **InGenius** screen is updated, as shown below. Click on the **Log in** drop-down to display additional parameters. For **Agent ID** and **Password**, enter the relevant credentials from **Section** Error! Reference source not found.. For **Work Mode**, select the desired work mode, in this case *Auto-In*. Click **Log in**.



Verify that the InGenius screen is updated, showing the agent in the Ready state.



Make an incoming ACD call. Verify that the **InGenius** screen for the available agent is updated to reflect **Reserved** and **Inbound Call**, along with proper call information. Also verify that the background window is populated with the uniquely matching contact record associated with the caller number, as shown below.

Click **Answer** in the **InGenius** screen.



Verify that the agent is connected to the caller with two-way talk path, and that the **InGenius** screen is updated to reflect **Talking** and **Connected**, as shown below.

💊 InGenius 🗕 🗹	
<b>Talking</b> 00:01:19 <b>•</b>	cts
Name or number	
<b>Connected</b> 00:00:19	
Dialed # 60002	
Number ≝ 65000	
▼	
?         !!!         !!	
Found records	-
No matches found for this internal call.	
New Record  Relate Current	
This call will not be logged	cent

# 10. Conclusion

These Application Notes describe the configuration steps required to integrate InGenius Connect 2023 R1.0 with Avaya Aura® Communication Manager 10.1 and Avaya Aura® Application Enablement Services 10.1. InGenius Connect was able to change and monitor agent states, place and answer calls, and perform call transfers and conferences. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

# 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 http://support.avaya.com.
- **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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