

Avaya Solution & Interoperability Test Lab

Application Notes for Sestek Voice Biometrics with Avaya Aura® Contact Center 7.1.2 and Avaya Aura® Application Enablement Services 10.1 using CCT Open Interfaces and DMCC Multiple Registration – Issue 1.1

Abstract

These Application Notes describe the configuration steps required for Sestek Voice Biometrics with Avaya Aura® Contact Center 7.1.2 and Avaya Aura® Application Enablement Services 10.1. Sestek Voice Biometrics is an advanced voice biometrics solution that verifies customer identity quickly and intuitively by voice. Sestek Voice Biometrics integrates with Avaya Aura® Contact Center 7.1.2 and Avaya Aura® Application Enablement Services by streaming voice from Avaya telephony using Multiple Registration method.

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 Sestek Voice Biometrics to interoperate with Avaya Aura® Contact Center 7.1.2 and Avaya Aura® Application Enablement Services 10.1 using CCT Open Interfaces and Multiple Device Registration method.

Sestek Voice Biometrics is an advanced voice biometrics solution that verifies customer identity quickly and intuitively by voice. In this compliance test, it uses Avaya Aura® Communication Manager's Multiple Device Registration feature via Avaya Aura® Application Enablement Services (AES) Device, Media, and Call Control (DMCC) interface to capture the audio for call streaming, and capture call details from Avaya Aura® Contact Center using CCT Open Interfaces. The application uses the Avaya Aura® Application Enablement Services DMCC service to register the extensions that are to be streamed. When the extension receives an event pertaining to the start of a call, the application receives the extensions RTP media stream.

2. General Test Approach and Test Results

The feature test cases were performed manually in a variety of scenarios using DMCC Multiple Registration.

For the manual part of the testing, each call was handled manually on the extension telephone with generation of unique audio content for the streaming. Necessary user actions such as hold and reconnect were performed from the agent telephones to test the different call scenarios.

The serviceability test cases were performed manually by disconnecting/reconnecting the Ethernet connection to Sestek Voice Biometrics.

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 Sestek Voice Biometrics utilized enabled capabilities of secure DMCC interface and Open CCT interface.

2.1. Interoperability Compliance Testing

The interoperability compliance test included both feature functionality and serviceability testing. The feature functionality testing focused on placing and streaming calls in different call scenarios with checking good voice biometrics. The tests included:

- **Inbound/Outbound calls** Test call streaming for inbound and outbound calls to the Avaya Aura® Contact Center to and from PSTN callers.
- Hold/Transferred/Conference calls Test call streaming for calls transferred to and in conference with PSTN callers.
- **Feature calls** Test call streaming for calls that are parked or picked up using Call Park, Call Pickup, Bridged Appearance and Service Observing.
- Serviceability testing The behaviours of Sestek Voice Biometrics under different simulated failure conditions.

2.2. Test Results

All test cases were executed and verified successfully.

2.3. Support

Technical support on Sestek Voice Biometrics can be obtained through the following:

- Support: <u>https://support.sestek.com/</u>
- Phone: +90 212 286 25 45
- Web: <u>https://www.sestek.com/</u>

3. Reference Configuration



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® System Manager in Virtual Environment	10.1.0.0.537353
Avaya Aura® Session Manager in Virtual Environment	10.1.0.1.1010105
Avaya Aura® Communication Manager in Virtual Environment	10.1.0.1 SP1 Build 01.0.974.0-27372
Avaya G450 Media Gateway	41.34.1
Avaya Aura® Media Server in Virtual Environment	10.1.0.77
Avaya Aura® Application Enablement Services in Virtual Environment	10.1.0.1.0.7
Avaya Session Border Controller for Enterprise in Virtual Environment	10.1
Avaya Aura® Contact Center	7.1.2
Avaya Workplace Client for Windows	3.25.0.73
Avaya J179 IP Phone (SIP)	4.0.12.1
Avaya J159 IP Deskphone (H.323)	6.8.5
Sestek Voice Biometrics	11.0.7

5. Configure Avaya Aura® Communication Manager

The detailed administration of basic connectivity between Communication Manager, Application Enablement Services, and Contact Center are not the focus of these Application Notes and will not be described. This section provides the procedures for configuring Communication Manager. The procedures include the following areas:

- Administer CTI link
- Configure H.323 Stations for Multi-Registration
- Configure SIP Stations for Multiple Registration

A 2-party call is expected to consume 3 DSP resources when an Avaya Media Gateway is used or 3 Media Processing Units (MPU) when an Avaya Media Server is used. For example, a 2party call using a G711 codec will consume 1 resource per active call participant, and 1 resource for the DMCC custom media streaming of the customer channel.

5.1. 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: 1
    CTI LINK

    Extension: 79999
    Type: ADJ-IP

    Name: aes95
    COR: 1
```

5.2. Configure H.323 Stations for Multi-Registration

All endpoints that are to be monitored by Sestek will need to have IP Softphone set to \mathbf{y} . IP Softphone must be enabled in order for Multi-Registration to work. Type **change station x** where \mathbf{x} is the extension number of the station to be monitored. Also note this extension number for configuration required during the Sestek setup in **Section 7**. Note the Security Code and ensure that **IP SoftPhone** is set to \mathbf{y} .

change station 70010			Page	1 of	5
		STATION			
					0
Extension: 70010		Lock Messages? n		BCC:	0
Type: 9641		Security Code: 111222		TN:	1
Port: S000004		Coverage Path 1:		COR:	1
Name: H323 Ext1		Coverage Path 2:		COS:	1
		Hunt-to Station:		Tests:	У
STATION OPTIONS					-
		Time of Day Lock Tabl	e:		
Loss Group:	19	Personalized Ringing Patter	n: 1		
1		Message Lamp Ex	t: 700	010	
Speakerphone:	2-wav	Mute Button Enable	ed? v		
Display Language:	english	Button Modules:	0		
Survivable GK Node Name:	011911011	200001100002000	Ũ		
Survivable COR:	internal	Modia Comploy Fr	,+ ·		
Survivable Trupk Doct?	THEETHAT		st.		
Survivable frunk Dest:	У	IP SOITPhor	іе? у		
		TD Midee Or Shakes	- 0		
	~	IP video Sortphon	ie?n		
	Short/	Prefixed Registration Allowe	a: def	au⊥t	
		Customizable Label	s? Y		

For compliance testing, two H323 extensions were administered : 70010 and 70011.

5.3. Configure SIP Stations for Multiple Registration

Each Avaya SIP endpoint or station that needs to be monitored for call streaming will need to have **Type of 3PCC Enabled** is set to **Avaya** and **IP Softphone** set to **Yes**. Changes to SIP phones on Communication Manager by enter command **change station x** where **x** is the extension number of the station.



Go to Page 6. Ensure that Type of 3PCC Enabled is set to Avaya.

change station 70000			Page	6 of	6
	ST.	ATION			
SIP FEATURE OPTIONS					
Type of 3PCC Enabled: Avaya Enable Reachability for Station D SIP URI: 70000@aura.com	SIP omain	Trunk: aar Control: s			
Primary Session Manager					
IPv4 Address: 10.128.224.18	IPv6	Address:			
IPv4 Node Name: smsip18	IPv6	Node Name:			
Secondary Session Manager IPv4 Address: IPv4 Node Name:	IPv6 IPv6	Address: Node Name:			
Third Soccion Managor					
IPv4 Address:	IPv6	Address:			
1Pv4 Node Name:	IPv6	Node Name:			
Fourth Session Manager IPv4 Address: IPv4 Node Name:	IPv6 IPv6	Address: Node Name:			

For compliance testing, two SIP extensions were administered : 70000 and 70001.

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 sestek user
- Enable CTI User
- Administer security database
- 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 the Application Enablement Services server.

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

avaya	Application Enablement Services Management Console	
		Неір
	Please login here: Username Continue	
	Copyright © 2009-2022 Avaya Inc. All Rights Reserved.	

The Welcome to OAM screen is displayed next.

	plication Enablement Services Management Console	Welcome: User Cust Last login: Mon Jun 27 16:37:37 2022 from 172.16.8.16 Number of prior failed login attempts: 0 HostName/IP: aes95/10.30.5.95 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.0.1.0.7-0 Server Date and Time: Tue Jul 05 06:22:34 EDT 2022 HA Status: Not Configured Home Help Logout
 > AE Services > Communication Manager Interface + High Availability > Licensing > Maintenance > Networking > Security > Status > User Management > Utilities > Help 	 Welcome to OAM The AE Services Operations, Administration, and Man for managing the AE Server. OAM spans the following AE Services - Use AE Services to manage all A the AE Server. Communication Manager Interface - Use Common switch connection and dialplan. High Availability - Use High Availability to man Licensing - Use Licensing to manage the licens Maintenance - Use Maintenance to manage the Networking - Use Networking to manage the Interface authorization, configure Linux-PAM (Plugable Status - Use Status to obtain server status inf User Management - Use User Management to user-related resources. Utilities - Use Help to obtain a few tips for using to Help - Use Help to obtain a few tips for using to 	agement (OAM) Web provides you with tools administrative domains: WE Services that you are licensed to use on munication Manager Interface to manage nage AE Services HA. se server. e routine maintenance tasks. network interfaces and ports. accounts, certificate, host authentication and Authentication Modules for Linux) and so on. formations. manage AE Services users and AE Services activity tests. the OAM Help system ninistrative domains can be served by one rator for each domain.
	Copyright © 2009-2022 Avaya Inc. All Rights R	leserved.

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 Licensed Features screen in the right pane.

Aura® System	m Manager 10.1	å U	sers 🗸 🎤 Elements 🗸 🌣 Services 🗸	Widgets v Shortcuts v		Search	♣ ☰ ª		
Home	Licenses								
Licenses		^	WebLM Home	Application Enablement (CTI) - R	telease: 10 - Si	ID: 10503000	Standard L		
			Install license	You are here Licensed Products > Application Enablement > View License Canacity					
			Licensed products	Tod are here, doenaed Froducts > Apprication_chablement > view Doense Capacity					
			APPL_ENAB	License installed on: September 6, 2019 4:38:44 PM +07:00					
			 Application_Enablement 						
			View license capacity	License File Host IDs: V7-67-C3	-CF-17-1A-01				
			View peak usage						
			ASBCE	Licensed Features					
			▶Session_Border_Controller_E_AE						
			AVAYAAURAWEBGATEWAY	13 Items 🍣 Show All 🗸			-		
			► AVAYAAURAWEBGATEWAY	Feature (License Keyword)	Expiration date	Licensed capacity			
		AVP	Device Media and Call Control VALUE_AES_DMCC_DMC	permanent	100				
			► AVP	AES ADVANCED LARGE SWITCH	permanent	100			
			CALL_CENTER_ELITE_MULTICHANNEL	VALUE_AES_AEC_LARGE_ADVANCED					
			► Call_Center_Elite_Multichannel	VALUE_AES_HA_LARGE	permanent	100			
			Configure Centralized Licensing	AES ADVANCED MEDIUM SWITCH	permanent	100			
			CCTR	Unified CC API Desktop Edition					
			▶ContactCenter	VALUE_AES_AEC_UNIFIED_CC_DESKTOP	permanent	100			
			CE	CVLAN ASAI VALUE_AES_CVLAN_ASAI	permanent	100			
			► COLLABORATION_ENVIRONMENT	AES HA MEDIUM	permanent	100			
			COMMUNICATION_MANAGER	VALUE_AES_HA_MEDIUM	permanent	100			
			► Call_Center	VALUE_AES_AEC_SMALL_ADVANCED	permanent	100			
			Communication_Manager	DLG	permanent	100			
			Configure Centralized Licensing	VALUE_AES_DLG					
			►Dialog_Designer	VALUE_AES_TSAPI_USERS	permanent	100			
			IPO	CVLAN Proprietary Links VALUE AES PROPRIETARY LINKS	permanent	100			
			▶IP_Office			SmallServerTypes:			
			MESSAGING			s8300c;s8300d;icc;premio;tn8400; MediumServerTypes: ibmv206.ibmv206.m.doll1050.vonu	laptop;CtiS		
		1							

Verify that there are sufficient licenses for **Device Media and Call Control**, as shown below.

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.

		HA Statu:	s: Not Configured	
AE Services TSAPI TSAPI Links			Hor	ne Help Logout
* AE Services				
> CVLAN	TSAPI Links			
> DLG	Link Switch Connection	Switch CTI Link #	ASAI Link Version	Security
> DMCC	Add Link Edit Link Delete Link			
> SMS				
* TSAPI				
 TSAPI Links 				
 TSAPI Properties 				
> TWS				
Communication Manager				

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 CM93 is selected. For Switch CTI Link Number, select the CTI link number from Section 5.1. Retain the default values in the remaining fields.

AVAYA	Application Enablement Services Management Console	Welcome: User cust Last login: Tue Jul 5 17:22:35 2022 from 172.16.8.167 Number of prior failed login attempts: 0 HostName/IP: ae955/10.30.5.95 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.0.1.0.7-0 Server Date and Time: Tue Jul 05 07:46:04 EDT 2022 HA Status: Not Configured
AE Services TSAPI TSAPI Li	nks	Home Help Logout
▼ AE Services		
▶ CVLAN	Edit TSAPI Links	
▶ DLG	Link 1	
► DMCC	Switch Connection CM93 V	
► SMS	Switch CTI Link Number 1	
▼ TSAPI	ASAI Link Version 12 V	
 TSAPI Links 	Security Both 🗸	
 TSAPI Properties 	Apply Changes Cancel Changes Advanced Settings	
▶ TWS		
Communication Manager		
High Availability		

6.4. Administer Sestek 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.

User Management User Admin L	ist All Users		
▶ AE Services			
Communication Manager Interface	Edit User		
High Availability	* User Id	sestek	
▶ Licensing	* Common Name	sestek	
▶ Maintenance	* Surname	sestek	
▶ Networking	User Password	•••••	
► Security	Confirm Password		
	Admin Note		
	Avaya Role	None 🗸	
• User Management	Business Category		
Service Admin	Car License		
▼ User Admin	CM Home		
 Add User 	Css Home		
Change User Password	CT User	Yes 🗸	
Modify Default Users	Department Number		
 Search Users 	Display Name		
▶ Utilities	Employee Number		
▶ Help	Employee Type		
	Enterprise Handle		
	Given Name		
	Home Phone		

6.5. Enable CTI User

Navigate to the CTI Users screen by selecting Security \rightarrow Security Database \rightarrow CTI Users \rightarrow List All Users. In the CTI Users window, select the user that was set up in Section 6.4 and select the Edit option.

αναγα	Application E Mana	mablement Services	Welcome: User Last login: Tue A Number of prior HostName/IP; a Server Offer Typ SW Version: 10. Server Date and HA Status: Not 0	xust ug 23 16:06:09 2022 from 172.16.8 failed login attempts: 0 s155.aura.com/10.128.226.155 e: VIRTUAL_APPLIANCE_OV_MWAR 1.0.1.0.7-0 Time: Mon Nov 07 18:22:49 ICT 20; Configured
Security Security Database C	TI Users List All Users			Home Help Log
 AE Services Communication Manager Interface 	CTI Users			
High Availability	<u>User ID</u>	Common Name	Worktop Name	Device ID
Licensing	O redbox	redbox	NONE	NONE
Maintenance	eastak	sestek	NONE	NONE
Networking	Sester			
▼ Security	U tma	tma	NONE	NONE
Account Management	Edit List All			
> Audit				
Certificate Management				
Enterprise Directory				
P HUSL AA				
PAPI Z Socurity Database				
Control				
CTI Users				
 List All Users 				

The Edit CTI User screen appears. Tick the Unrestricted Access box and Apply Changes at the bottom of the screen.

avaya	Application Enable Management	Welcome: User cust Last login: Tue Aug 23 16:06:09 2022 from 172.16.8.167 Number of prior failed login attempts: 0 HostName/[Pr aesIS5.aura.com/10.128.226.155 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.0.1.0.7-0 Server Date and Time: Mon Nov 07 18:23:19 ICT 2022 HA Status: Not Configured	
Security Security Database C	TI Users List All Users		Home Help Logout
 AE Services Communication Manager Interface 	Edit CTI User		
High Availability	User Profile:	User ID Common Name Worktop Name	sestek sestek NONE 🗸
 Maintenance Networking 		Unrestricted Access	
▼ Security	Call and Device Control:	Call Origination/Termination and Device Status	None 🗸
Account Management Audit Certificate Management Enterprise Directory	Call and Device Monitoring:	Device Monitoring Calls On A Device Monitoring Call Monitoring	None V None V
Host AA PAM Security Database	Routing Control: Apply Changes Cancel Changes	Allow Routing on Listed Devices	None 🗸

6.6. 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. Uncheck both fields below.

In the event that the security database is used by the customer with parameters already enabled, then follow reference [4] to configure access privileges for the sestek user from **Section 6.4**.

avaya	Application Enablement Services Management Console	Welcome: User cust Last login: Tue Jul 5 17:22:35 2022 from 172.16.8.167 Number of prior failed login attempts: 0 HostName/IP: aes95/10.30.5.95 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 10.1.0.7-0 Server Date and Time: Tue Jul 05 07:53:47 EDT 2022 HA Status: Not Configured
Security Security Database Cor	trol	Home Help Logout
AE Services Communication Manager Interface	SDB Control for DMCC, TSAPI, JTAPI and Telephony Web Services	
High Availability	Enable SDB for DMCC Service	
→ Licensing	Enable SDB for TSAPI Service, JTAPI and Telephony Web Services	
▶ Maintenance	Apply Changes	
▶ Networking		
▼ Security		
Account Management		
> Audit		
Certificate Management		
Enterprise Directory		
Host AA		
▶ PAM		
Security Database		
Control		

6.7. 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 DMCC Service then click Restart Service.



7. Configure Avaya Aura® Contact Center

It is implied that a working Avaya Aura® Environment, which includes System Manager, Session Manager, Communication Manager, Media Server, and Contact Center, is already in place with the necessary licensing. For all other provisioning information, such as initial installation and configuration, please refer to the product documentation in **Section 11**.

This section shows the steps required to add a new CCT Agent on Avaya Aura® Contact Center. The following sections give step by step instructions on how to add the following.

- Create a Windows user on the Avaya Aura® Contact Center Server
- Login to Avaya Aura® Contact Center Manager
- Configure a Contact Center CCT Agent
- Verify CCT User Association
- Verify CCT Web Services

7.1. Create a Windows user on the Avaya Aura® Contact Center Server

All CCT users must be associated with a user account on Windows Active Directory/Domain User account. When a Contact Center user is created there is an option to create a CCT user and there is an association made there with a Windows domain user, see **Section 7.3**. Users who can access multiple domains can also access the CCT client as long as trust is established between the domains; the user does not have to log on to separate domains to use the CCT client.

If there is no Active Directory already in place, then a windows user must be added to the Contact Center server before a CCT user is added. In the example below a new user called **sestek** was created on the local Windows server. To add a new windows user, navigate to Computer Management. On Windows 2016 server simply type in Computer Management on the screen and the program will appear.

From Computer Management, in the left window, expand System Tools \rightarrow Local Users and Groups \rightarrow Users and right click on Users and select New User as shown below.

🜆 lusrmgr - [된 lusrmgr - [Local Users and Groups (Local)\Users]								
File Action View Help									
🗢 🔿 🖄									
💭 Local Users	and Groups (Local)	Name	Full Name	Description	Actions				
Group	New User	dministrator		Built-in account for adm	Users				
	View	>)efaultAcco	cctrecord	A user account manage	More Actions				
	Refresh	iuest ceAdmin	iceAdmin	Built-in account for gue Built-in account for Ava					
	Export List	JSR_SWC	IUSR_SWC	Built-in account for Ava					
	Help ecorduser	recorduser vu1 vu2 vu3							

Enter the **User name** and **Password** noting that this same username and password will be required in configuring the Contact Center CCT Agent. Ensure that **Password never expires** is ticked. Click on **Create** once the information is filled in correctly.

New User			?	×
User name:	seste	k		
Full name:	Seste	k		
Description:				
Password:		•••••		
Confirm passwor	d:	•••••		
User must ch	ange pa	ssword at next logon		
User cannot (change	password		
Password ne	ver expi	res		
Account is di	sabled			
Help		Create	a	ose

7.2. Login to Avaya Aura® Contact Center Manager

Launch URL: http://<IP Address of AACC> and login to the Contact Center Management Administration with administrative credentials. The Contact Center Launch pad is displayed.

AVAYA	Conta	ct Center - Manager	About	About Audit Trail Change Password Logout			
Launchpad							
	Launch	npad					
	_						
	0	Contact Center Management	0	Configuration			
	0	Access and Partition Management	(<u>©</u>)	Scripting			
	0	Real-Time Reporting	0	Emergency Help			
	0	Historical Reporting	0	Outbound			
	0	Call Recording and Quality Monitoring	0	Multimedia			
	Ô	Prompt Management	0	Data Management			

7.3. Configure a Contact Center CCT Agent

In the Launch pad, click **Contact Center Management** (not shown). In the left pane, click the Contact Center Manager to which the agent is to be added. On the top menu, select Add \rightarrow Agent. The following highlighted fields were configured:

- User Type: Select Agent as User Type.
- Login ID: The number the agent enters to logon to the phone. In this case the field is set to the extension (75000).
- Primary Supervisor: Select Default Supervisor from the list.
- Voice URI: The SIP address of the TR87-controlled terminal dedicated to this agent, in the format sip:agent (use Extension@SIPdomain, where SIPdomain is the CCMS Local SIP Subscriber Domain name. For example, <u>sip:75000@aura.com</u>).
- Create CCT Agent: Tick on this check box to associate the agent with CCT. As the Create CCT Agent is selected, the Associate User Account section will be displayed. Expand this section, select Search local operating system, and click on List All button, it will list all local operating system users including the Windows user Sestek created in the section above. Select the Sestek, the Sestek is now displayed in the CCT Agent Login Details.

Click **Contact Types** (not shown), which is then expanded. Select the check box beside each **Contact Type** to assign to the agent (for example, **Voice**).

▼ User Details First Name: Sestek Last Name: Sestek Title:		Us Lo Va IM Ac	ser Type: A Igin ID: * 7 Dice URI: si 4 URI: si ccount Type: Create CCT Agent Domain Licer ID:	Agent V 5000 ip.75000@aura.com ip: ent Login Details () AACC199 5-c-tol	0
✓ Associate User Account Search local operating system Search all user accounts where: Full Name ✓ starts with 	Search local security server O Search domain users and includes all users				
User Name DefaultAccount Guest iceAdmin IUSR_SWC recorduser Sestek Vul	Search List All Full Name (11) CiceAdmin USR_SWC recorduser Sestek vu1	Status Available Available Available Available Available Available Available Available Available	^		

Click the **Skillsets** heading to expand the branch. Click **List All** to list all skillsets configured on the server. From the **Priority** list for each skillset to assign to the agent, select the priority levels (For example select **Voice** and set the priority level 48).

▼ Skillsets				
Skillset Na	ame (1)	Contact Type	Priority	
Default_Ski	illset	Voice	48	~
Assign Skills	ets			

7.4. Verify CCT User Association

To check to see that the CCT User and Contact Center Agent are associated correctly, navigate to **Configuration** on the Launchpad as shown below.

AVAYA	Conta	ct Center - Manager	About Aud	lit Trail Change Password Logou
Launchpad	Launch	ıpad		
	000000000000000000000000000000000000000	Contact Center Management Access and Partition Management Real-Time Reporting Historical Reporting Call Recording and Quality Monitoring Prompt Management	0 0 0	Configuration Scripting Emergency Help Outbound Multimedia

Expand the CCT Server in the left window and click on **CCT Administration**. Click on **CCT Administration URL** in the main window.

AVAYA	Configura	ation	Logged in user: Administrator Web	Change Password Logout
Server Download	Status Launchpad	Help		
AACC199 CCT199 CCT Administration CCMM199 Server89	CCT Administration	CT Administration CT Administration	HTTP URL <u>http://AACC199:8081/WebAdmin</u> HTTPS URL <u>https://AACC199:8445/WebAdmi</u>	Server: AACC199

The **CCT Administration** window opens in a separate browser session. Click on **Users** in the left window and double-click on the user added from **Section 7.3**.

Αναγα			CCT Administration
Users	CCT Users Sestek		
Groups Groups Address Groups User Groups Providers Passive	Login User Name First Nar AOC\vule2 vule2 AOC\vule3 vule3 AOC\vule1 vule1 AACC199\cctrecord cct AACC199\recorduser recordus AACC199\Sestek Sestek M ())) 6 CCT Users found, displaying (Last Name vule2 vule3 vule1 record er recorduser Sestek	 1

The agent **75000** is associated with this user. There are no changes required in this section only to observe that the association is correct.

Update CCT	User				
O User Details					
Login User Name First Name	AACC199\Sestek Sestek				
Last Name	Sestek				
🗿 Address Assig	gnments				
🚺 Terminal Assi	gnments				
🗿 Terminal Grou	p Assignments				
💿 Address Grou	p Assignments				
Agent Assignr	ments				
Agents available			Agents m	apped	
	۹,			٩	
	Agents			Agents	
	20005			75000	
	20004	0			
	20001	0			
	50004				
4 Agents found. Page 1 / 1				K ()))) found. Page 1 / 1	
Save					

8. Configure Sestek Voice Biometrics

This section addresses the administrative steps to be performed on the Sestek Voice Biometrics solution. The installation of the Sestek Voice Biometrics solution software, as well as the initial configuration is beyond the scope of this document. The procedures include the following areas:

- Configure Sestek Falcon Services
- Configure Sestek Voice Biometrics Services

8.1. Configure Sestek Falcon Services

To configure Falcon services, use Falcon Configurator tool installed in Sestek Biometrics server. Default path: C:\Program Files\Sestek\Falcon\CallRecorder\Configurator.

8.1.1. Configuring host's file

Open "C:\Windows\System32\drivers\etc\hosts" file with text editor. Add the IP address of the Contact Center as shown in the example below as **aacchost**.

```
Copyright (c) 1993-2009 Microsoft Corp.
#
#
 This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#
       102.54.94.97
                       rhino.acme.com
                                                # source server
#
        38.25.63.10
                                                # x client host
                       x.acme.com
# localhost name resolution is handled within DNS itself.
#
  127.0.0.1 localhost
    ::1
                    localhost
192.168.10.178 aacchost
```

8.1.2. Creating Cti Source for DMCC

Open **Sestek Falcon Configuratior Tool**, click **Cti Sources** and click add (+) button and configure settings as described below.

- Type: AvayaDMCC
- **Name**: Give it proper name
- Host1: AES hostname or IP address
- Port1: DMCC server port that was enabled in Section 6.7
- Username/password: Username and password created in Section 6.3
- SwitchName: Switch name configured in Section 6.2
- Protocol version: DMCC xml protocol version. For this version should be "C"

Gestek Falcon Configura	ator	
Services	Cti Sources	
Client Groups		
Service Settings	Type Name Host 1 Port 1 Host 2 Port 2 Username Password	1
Service Setting Values		×
Operations		
Operation Settings	Type AvayaDmcc	
Operation Setting Values	Name AvayaDmcc	
Voice File Informations	Host 1 avayaaes	
Video File Informations	Port 1 0	
Agents	Username sestekcti	
Cti Sources	Password ******	
Extension Filters	SwitchName AVAYAACM	
Packet Sources	ProtocolVersion C	
Helper	Update Cancel	

8.1.3. Creating Operation

To create new operation, click **Operations** button in the left panel and press add button and **Name** it in the opening form. Click **Add** to save changes.

Gestek Falcon Configur	rator	
Services Client Groups	Operations	
Service Settings	Id Name Settings	
Service Setting Values	Add OperationDto – 🗆 🗙	
Operations	Name Votg_Dmcd	
Operation Settings	Add Cancel	
Operation Setting Values		

8.1.4. Creating ExtensionFilter

To create an extension filter, Click the **ExtensionFilter** button in the left panel, click the **Add** button (+), select the cti source created in **Section 8.2**, and select operation created in **Section 8.3**. And configure extension numbers using the screenshot below.

8.1.5. Configuring DMCC Interpreter

- Open Sestek Falcon Configurator Tool to configure Falcon services.
- Navigate to **Services** and click the **Add** button and select service type as **AvayaDMCCInterpreter**, give the service a proper name and update localhost with the server IP address in the URL section. Click **Add** button to save.

Gestek Falcon Configur	rator										\times
Services	Service	s									
Client Groups	S+	🖉 亩									
Service Settings	Id Type		Name		Url			Settings	Operations	Packet S	Sourc
Service Setting Values	🌈 Add Ser	rviceDto				-	×	Ŭ	- Ale	ł	
Operations	Service Type	AvayaDmccInterpreter									
Operation Settings	Name	AvayaDmccInterpreter						\$	*	4	ř
Operation Setting Values	Url	http://localhost:1020/									►
Voice File Informations			Add	Cancel							

• After adding a service, **AvayaDMCCInterpreter** service will appear in the services section. Click **Settings** button to configure service setting parameters.

Gestek Falcon Configurator						
Services Client Groups Service Settings	Ser C	vices + 🖍 🖮 💶				
	Id	Туре	Name	Url	Settings	0
Operations	5	AvayaDmccInterpreter	AvayaDmccInterpreter	http://192.168.113.27:1028/	\$	

• Select **DMCCServiceMode** setting and update it to **DMCCMrVotg** in the opening form.

• Select the **StationKeyword** setting and update it to extension security code created in **Section 5.6**.

🌈 Upo	date ServiceSettin	_		\times	
Service					
Setting					
Value	1234				
	Add Missing Default Settings				
		Update Cancel			
AvayaD	mccInterpreter	MessageSenderThreadCount 1			
AvayaD	AvayaDmccInterpreter EnableDmccMRStereoActiveRecording				
AvayaD	AvayaDmccInterpreter StationKeyword				

• Select **ShouldBeHandleAvayaCctCallEvents** setting and update it to **true**.

• To connect service to operation, go to **Services** and select **DMCCInterpreter** and the button under the **Operations** column.

Gestek Falcon Configur	ator								- 0	×
Services Client Groups Service Settings	Sei	rvices + 🖍 💼								
Service Securitys	Id	Туре	Name	Url	Settings	Operations	Packet Sources	Services	Update Settings	
Service Setting Values Operations	5	AvayaDmccInterpreter	AvayaDmccInterpreter	http://192.168.113.27:1028/		*	4	Ø	2	
Operation Settings	6	AvayaCctWebServiceInterpreter	AvayaCctWebServiceInterpreter	http://localhost:1028/	\$	Ł	ξ γ	<i>්</i>	2	

• In the opening form, select operation created in **Section 8.3** and click the right arrow (->) to connect service to operation. Press to **Save** button to save changes.

Gestek Falcon Configurate	tor				
Services	Services				
Client Groups					
Service Settings			11-1	C-W	0 I
Service Setting Values	5 AvavaDmccInterpreter		bttp://192.168.113.27:1028/	Settings	Operations P
Operations				*	1 4
Operation Settings	6 AvayaCctWebServiceInterpreter	AvayaCctWebServiceInterpreter	http://localhost:1028/	\$	*
Operation Setting Values	C AvayaDmccInterpreter Operations		- 🗆 ×		
Voice File Informations	All Operations	Service Opera	itions		
Video File Informations	Votg_Dmcc	Votg_Dmcc			
Agents					
Cti Sources					
Extension Filters					
Packet Sources					
Helper					
<u> </u>		Save			

8.1.6. Create and Configure CctWebServiceInterpreter

Navigate to **Services** and click the **Add** button and select **Service Type** as **AvayaCctWebServiceInterpreter**, name the service and update localhost with the server IP address in the URL section. To save, click **Add** button.

C Sestek Falcon Configurator				
Services	Services			
Client Groups				
Service Settings	Id Type	Name	Url	Settings
Service Setting Values	5 AvayaDmccInterpreter	AvayaDmccInterpreter	http://192.168.113.27:1028/	\$
Operations	C Add ServiceDto		– 🗆 X	ä
Operation Setting Values	Service Type AvayaCctWebServiceInt	erpreter	5	
Voice File Informations	Name AvayaCctWebServiceInt	erpreter		-
Video File Informations	Uri http://localhost:1020/	Add Cancel		
Agents				

After creating service, select created service and press button under the settings column and update service settings as described below.

- CallEventListenerUrl: Change IP address to server IP installed Sestek services.
- AgentEventListenerUrl: Change IP address to server IP installed Sestek services.
- **Domain:** CCT user domain created in **Section 7.3**.
- Username: CCT username created in Section 7.3.
- **Password:** CCT username's password created in **Section 7.3**.

Gestek Falcon Configurat	C Sestek Falcon Configurator				
Services	AvavaCctWebServiceInterpreter Setting Values				
Client Groups					
Service Settings	Service Settings				
Senice Setting Values	Service	Setting	Value		
	AvayaCctWebServiceInterpreter	BlockInboundCalls	false		
Operations	AvayaCctWebServiceInterpreter	CallerBlockExpression			
Operation Settings	AvayaCctWebServiceInterpreter	CalledBlockExpression			
Operation Setting Values	AvayaCctWebServiceInterpreter	CallerRecordExpression			
Voice File Informations	AvayaCctWebServiceInterpreter	CalledRecordExpression			
	AvayaCctWebServiceInterpreter	CallEventListenerUrl	http://192.168.1.74:5050/CallEventConsumer/		
Video File Informations	AvayaCctWebServiceInterpreter	AgentEventListenerUrl	http://192.168.1.74:5050/AgentEventConsumer/		
Agents	AvayaCctWebServiceInterpreter	Domain	avayaaacc		
Cti Sources	AvayaCctWebServiceInterpreter	Username	Sestekcct		
Eutoprion Eilterr	AvayaCctWebServiceInterpreter	Password	SesTek12!SesTek12		
Extension Filters	AvayaCctWebServiceInterpreter	SubscriptionId	sestek33		

- To connect **CCTInterpreter** to **DMCCInterpreter** select **CctWebInterpreterService** and click the chain button under the services column.
- Select **AvayaDMCCInterpreter** and press the right arrow (->) to connect service. Press the Save button to save changes.

8.1.7. Firewall Configuration

Firewall configuration is outside the scope of these application notes, but it is mentioned here for awareness. If there is a Firewall between the Avaya and Sestek servers, firewall rules need to be in place to allow traffic between them. A user needs to verify the IP Addresses, ports, and protocols used, and configure firewall rules to allow the traffic flow.

8.2. Configure Sestek Voice Biometrics Services

To configure Voice Biometrics Services services, navigate to Voice Biometrics Services installation folder. Default path: C:\Program Files\Sestek\VoiceVerification\.

8.2.1. Configure RemoteInstall.bat

Remote install bat is a script to automate and configure MSI packet installations.

• Open MSI zip and edit **RemoteInstall.bat** parameters.

Ni	ame	Date modified	Туре	Size	
6	License.exe	18.08.2022 12:28	Application	41.566 KB	
6	Prerequisites.exe	18.08.2022 12:29	Application	119.064 KB	
6	PrerequisitesNetCore.exe	18.08.2022 12:29	Application	71.388 KB	
6	PrerequisitesNetWindows.exe	18.08.2022 12:29	Application	56.702 KB	
	PsExec.exe	18.08.2022 12:29	Application	332 KB	
0	RemoteInstall.bat	18.08.2022 12:29	Windows Batch File	25 KB	
1	Database.msi	18.08.2022 12:28	Windows Installer	672 KB	
1	IVRDemo.msi	18.08.2022 12:27	Windows Installer	418.680 KB	
1	StorageDir.msi	18.08,2022 12:28	Windows Installer	740 KB	
1	TextIndep.msi	18.08.2022 12:25	Windows Installer	86.340 KB	
1	TextIndepV2.msi	18.08.2022 12:25	Windows Installer	60.044 KB	
1	Tools.msi	18.08,2022 12:28	Windows Installer	52.809 KB	
1	VerificationOnTheGoFrontSideService.msi	18.08.2022 12:24	Windows Installer	2.508 KB	
1	VerificationOnTheGoService.msi	18.08.2022 12:24	Windows Installer	2,608 KB	
1	VotgAgentService.msi	18.08.2022 12:24	Windows Installer	7.501 KB	
1	VVFrontsideService.msi	18.08.2022 12:24	Windows Installer	4.782 KB	
r.	VVWorkerService.msi	18.08.2022 12:24	Windows Installer	530.001 KB	
1	Web.msi	18.08.2022 12:25	Windows Installer	34.645 KB	
C	Web.wxs	18.08.2022 12:25	WXS File	706 KB	

• Customize MSI source and installation directories. Also add the admin username and password. These are set under the **Sever Credentials** as **set user** and **set password**.

```
4
    set programfiles_W=C:\Program Files\Sestek\VoiceVerification
5
   set programdata W=D:\ProgramData\Sestek\VoiceVerification
6
   :: Set the folder containing MSI files.
7
8 set msiFolder=D:\Setup\VoiceVerification\MSIs_11.0.7.0
9 cd %msiFolder%
10
11 :: Set the connection string of DB.
12 set connectionString=Server=localhost;;Database=VoiceVerification;;User Id=VVUser;;Password=1q2w3e4r*;;
13
14
   :: Set the "storageDirParent" folder where storageDir sits.
15 set storageDirParent=%programdata_VV%
16 set storageDir=%storageDirParent%\StorageDir
17
18 :: Set the "configDir" to a custom folder when desired. The default config folder is the "storageDir"
19
   set configDir=
20
21 :: ----- Server Credentials -----
22 :: Set the credentials for remote access to installation servers.
23 set user=Administrator
24 set password=1q2w3e4r*
```

Set the installation component flags to be installed. •

Customize server IPs for each component.

- Global notification client must be specialized to work with PoC tool. •

 - set soapNotificationClients=http://10.0.0.0:9090/BasicHttpBinding VotGNotificationServiceWcf^|http://10.0.0.1:9090/BasicHttpBinding VotGNotificationServiceWcf :: set filteredSoapNotificationClients=http://10.0.0.09090/BasicHttpBinding_VotGNotificationServiceWcf^[http://10.0.0.1:9090/BasicHttpBinding_VotGNotificationServiceWcf set globalNotificationClients=192.168.10.68:7767
- Configure the audio format to Mulaw. •

62	:: IvrDemo, TextIndep and TextIndepV2 Configuration
.63	:: Available samplingRate options: 8000, 16000
.64	set samplingRate=8000
.65	:: Available audioFormat options: Lin16, Mulaw and Alaw
.66	set audioFormat=Lin16
.67	set blacklistEnabled=False
1000	

Log files and service ports can leave as default.

8.2.2. Voice Biometrics Service Configuration

These configuration files are in program files directory of Windows. Example path shared below: C:\Program Files\Sestek\VoiceVerification\<Service Name>

• VerificationOnTheGo.exe.config configuration: Falcon streamer URL must be replaced with DMCC URL. VotgWebServiceUri and

FalconStreamerCallMessageReceiveEndpoint, and FalconStreamerUrl must have the same server IP.

• VerificationOnTheGoFrontSide.exe.config: Server address should be checked in LocalIp and VerificationOnTheGoFrontSideEndpoint.

• **VVFrontSideWcfWinSvc.exe.config**: **BaseAddress** should be checked. License keys must be defined here.

• VVWorkerWcfWinSvc.exe.config: BaseAddress should be checked.

• Votg.PocTool.dll: VotgFsBaseUrl should be checked. It must match with Votg FrontSideWcWinfSvc.

Votg votgofg E	3] 📓 Fronz Side Incling 13] 📓 Well-carbon (2) 📓 Well-carbon (2) reflectation (2) reflect
1 </td <td>xml version="1.0"?></td>	xml version="1.0"?>
2 ⊟ <c< td=""><td>configuration></td></c<>	configuration>
3 申	<appsettings></appsettings>
4	<add key="VotgFsBaseUrl" value="http://192.168.10.68:8090/VotgFrontSideOperations/"></add>
5	<add key="GlobalNotificationReceiverLocalPort" value="7767"></add>
6	<add key="serilog:minimum-level" value="Debug"></add>
7	<add key="serilog:using:File" value="Serilog.Sinks.File"></add>
8	<add key="serilog:write-to:File.path" value="Log\VotgPocTool.log"></add>
9	<add key="serilog:write-to:File.outputTemplate" value="{Timestamp:yyyy-MM-dd HH:mm:ss.fff zzz} [{Level:u3}] {Message:1j} {Properties:j}{NewLine}{Exception}"></add>
10 -	
11 4/	'configuration>

• Web config: WebUiOperationsBaseuri must match with BaseAddress in VVFrontSideWcfWinSvc.exe.config.

• If web interface will be used, **requireSSL** attribute must be set to false in **httpCookies** and forms elements.

8.2.3. Voice Biometrics Shared Configurations

• FrontSide.fscfg: Connection string should be configured as needed.

• Navigate to Votg.votgcfg file located in StorageDir directory and edit VotgEndpoints, GlobalNotificationClient, VVOperationsBaseUri.

Once these steps are completed, log directory will create logs like the example below: "Sestek.VerificationOnTheGoFrontSide.ServiceImpl.VotgFrontSideWebService is open and has the following endpoints:.."

9. Verification Steps

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

9.1. Verify Avaya Aura® Communication Manager

On Communication Manager, verify the status of the administered CTI link by using the **statusaesvcs cti-link** command. Verify that the **Service State** is "established" for the CTI link number administered in **Section 5.1**, as shown below.

```
status aesvcs cti-linkAE SERVICES CTI LINK STATUSCTI VersionMnt AE Services<br/>Busy ServerService StateMsgs Sent<br/>SentMsgs Rcvd112noaes95established17801780
```

9.2. Verify Avaya Aura® Application Enablement Services

Verify the status of the DMCC link by selecting Status \rightarrow Status and Control \rightarrow DMCC Service Summary from the left pane. The DMCC Service Summary \rightarrow Session Summary screen is displayed. Verify the User column shows an active session with the Sestek user name from Section 6.4, and that the # of Associated Devices column reflects the total number of monitored extensions from Section 5.2 and Section 5.3.

Click on active **Session ID** with the sestek username to show number of monitored extensions.

DMCC Service Summary - Session Detail					
Enable page re	fresh every 60 🗸	r seconds			
Detailed Session V Generated on Mon	View Nov 21 19:26:43 IC	CT 2022			
Session ID:		6911DC794447A3178D9CA959F74BA04E-4999			
State:		Active			
Time Established	i:	Mon, Nov 21, 2022 07:16:11 PM GMT+07:00			
Uptime:		0 days, 0 hours, 10 minutes, and 31 seconds			
Cleanup Delay T	imer:	5 seconds			
Session Duration	n Timer:	600 seconds			
Time of Most Red	cent Timer Reset	:: Mon, Nov 21, 2022 07:26:11 PM ICT			
Reconnect Count	ter:	0			
Terminate Sessi	ions				
Devices Associate	ed with Session				
		Device ID	State		
	81002:CM145:0.0.0:2 IDLE		IDLE		
	Image: 81003:CM145:0.0.0:2 IDLE				
	Image: 81001:CM145:0.0.0:2 IDLE				
Terminate Selec Item 1-3 of 3	Terminate Selected Devices Back Item 1-3 of 3				

9.3. Verify Sestek Voice Biometrics

On Sestek server, open Sestek VotG POC Tool provide by Sestek, the POC show as below:

tive Calls Call Simulation	Call Operations	Operation Progress
rs FS	Call ID Agent ID Phone Number	Transaction ID - Transaction Type - Transaction State - Total Speech / Required Speech
	User Code User_001	0 / 0 Discarded Speect 0
	🔄 Enrolt Begin 🛛 📳 Enrolt C	Process Result - Speech Result -
	Authenticali Authen	Result Text

From PSTN, place a call to AACC. Verify that AACC can receive incoming call, and POC Toll shows a new call in **Active Call** tag. Select **Enroll Begin** to start enrollment for new user biometrics.

F Sestek VotG POC Tool		– 🗆 X
Active Calls Call Simulation	Call Operations	Operation Progress
C Refresh	6.110	The protocol of the spectrum o
Call ID: 7 Phone # 81002	Agent ID	Transaction Type - Transaction State -
	Phone Number	Total Speech / Required Speech
	User Code	0/0
	User_001	Discarded Speech 0 Process Result
	Enroll Begin	Speech Result -
	The Course Care	Result Code - Result Text
	Authenticate (ater and a second s

10. Conclusion

These Application Notes describe the configuration steps required for Sestek Voice Biometrics to successfully interoperate with Avaya Aura® Contact Center 7.1.2 and Avaya Aura® Application Enablement Services 10.1 using Multiple Registration. All feature and serviceability test cases were completed successfully with all test cases are passed.

11. Additional References

This section references the Avaya and Sestek Voice Biometrics product documentation that are relevant to these Application Notes.

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

- 1. Administering Avaya Aura® Communication Manager, Release 10.1.x, Issue 1, Dec 2021
- 2. Administering Avaya Aura® Session Manager, Release 10.1.x, Issue 3, April 2022
- 3. Administering Avaya Aura® System Manager, Release 10.1.x, Issue 6, June 2022
- 4. Administering Avaya Aura® Application Enablement Services, Release 10.1.x, Issue 4, April 2022

Product Documentation for Sestek products may be found at https://www.sestek.com/.

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