

Avaya Solution & Interoperability Test Lab

# Application Notes for U-Self Serve 1.0 by Uniphore Software Systems, Inc with Avaya Aura® Experience Portal 8.1.1 -Issue 1.0

### Abstract

These Application Notes describe the procedure for configuring U-Self Serve by Uniphore Software Systems, Inc to interoperate with Avaya Aura® Experience Portal.

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 procedure for configuring U-Self Serve 1.0 by Uniphore Software Systems, Inc with Avaya Aura® Experience Portal 8.1.1.

U-Self Serve is an intelligent virtual assistant that delivers a human-like experience, simulating human conversations and delivering frictionless experiences in multiple channels, including text, chat and voice. U-Self Serve application base on Voice XML and Call Control XML (CCXML), and provide a seamless conversational experience to end users that dial into Avaya Aura® based contact centers.

The application notes focus on U-Self Serve integration with Experience Portal in support of inbound Interactive Voice Response (IVR) calls via Session Manager (SIP) or Communication Manager (H.323).

# 2. General Test Approach and Test Results

The interoperability compliance test included feature and serviceability test. Both the feature test cases, and serviceability test cases were performed manually. The feature test verified the feature interoperability between U-Self Serve and Experience Portal and the serviceability test verified the ability of U-Self Serve to recover under adverse conditions

The serviceability test cases were performed by disconnecting/reconnecting the Ethernet connections to the application server or speech servers' Automatic Speech Recognition (ASR), Text-to-Speech (TTS).

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 Uniphore U-Self Serve did not include use of any specific encryption features as requested by Uniphore.

Reviewed: NAQ	Solution & Interoperability Test Lab Application Notes	2 of 18
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This test was conducted in a lab environment simulating a basic customer enterprise network environment. The testing focused on the standards-based interface between the Avaya solution and the third party solution. The results of testing are therefore considered to be applicable to either a premise-based deployment or to a hosted or cloud deployment where some elements of the third party solution may reside beyond the boundaries of the enterprise network, or at a different physical location from the Avaya components.

Readers should be aware that network behaviors (e.g., jitter, packet loss, delay, speed, etc.) can vary significantly from one location to another, and may affect the reliability or performance of the overall solution. Different network elements (e.g., session border controllers, soft switches, firewalls, NAT appliances, etc.) can also affect how the solution performs.

If a customer is considering implementation of this solution in a cloud environment, the customer should evaluate and discuss the network characteristics with their cloud service provider and network organizations, and evaluate if the solution is viable to be deployed in the cloud.

The network characteristics required to support this solution are outside the scope of these Application Notes. Readers should consult the appropriate Avaya and third party documentation for the product network requirements. Avaya makes no guarantee that this solution will work in all potential deployment configurations.

#### 2.1. Interoperability Compliance Testing

The general test approach included verification of a successful integration of the U-Self Serve application with Experience Portal. The test focused on U-Self Serve integration with Experience Portal in support of inbound Interactive Voice Response (IVR) calls via Session Manager (SIP) or Communication Manager (H.323). Once the application was connected, the U-Self Serve software worked in conjunction with Experience Portal to play a menu and the user can select using speech.

During the compliance test, the following call scenarios and call flow elements were used to verify U-Self Serve functionality.

- Inbound calls
- Call termination by originator
- Call termination by destination party
- User input using speech
- Transfers
- Simultaneous calls
- Calls to and from Experience Portal via SIP and H.323.

#### 2.2. Test Results

All test cases were executed and verified successfully.

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### 2.3. Support

Technical support for the U-Self Serve solution can be obtained by contacting Uniphore Software Systems, Inc. at:

- Email: <u>support@uniphore.com</u>
- Web: <u>https://www.uniphore.com/contact/</u>

# 3. Reference Configuration

**Figure 1** illustrates the reference configuration used during testing. In the reference configuration, the U-Self Serve was installed on a remote server to facilitate integration with Experience Portal. An incoming call from PSTN to U-Self Serve is first received by Communication Manager which routes the call to Experience Portal via SIP trunks (or H.323 stations). Experience Portal then invokes the configured U-Self Serve application.

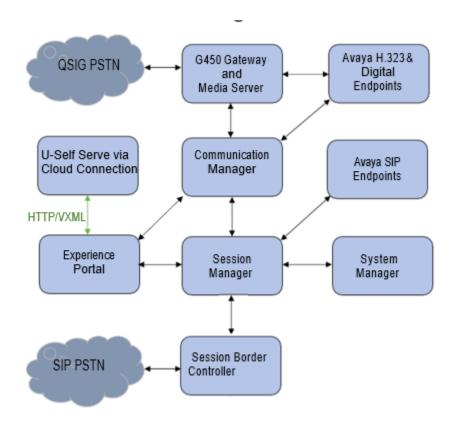


Figure 1: Compliance Testing Configuration

### 4. Equipment and Software Validated

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

Equipment/Software	<b>Release/Version</b>
Avaya Aura® Communication Manager running on virtualized environment	10.1.0.2
Avaya Aura® Experience Portal running on virtualized environment:	
• EPM	8.1.1.0.0216
• MPP	8.1.1.0.0216
Avaya Aura® Session Manager running on virtualized environment	10.1.0.2
Avaya Aura® System Manager running on virtualized environment	10.1.0.2
Avaya Aura® Media Server running on virtualized environment	10.1
Avaya G450 Media Gateway	41.9.0
Avaya Session Border Controller for Enterprise on virtualized environment	10.1.0.0
Avaya IP Deskphones	
• J139 (H.323)	6.8.5
• J169 (H.323)	6.8.5
• J159 (SIP)	4.0.14
• J179 (SIP)	4.0.14
Avaya 9404 Digital Telephone	17.0
Desktop PC running Avaya Workplace Client SIP Softphone on Windows 10	3.29.0.54
Uniphore Software Systems, Inc. U-Self Serve	1.0

### 5. Configure Avaya Aura® Experience Portal

This section describes the Experience Portal configuration to support the network shown in **Figure 1.** The configuration of Experience Portal was performed using a web browser.

The Experience Portal configuration includes the following:

- Launch Experience Portal
- Configure Speech Server
- Configure VoIP Connections
- Add U-Self Serve application

#### 5.1. Launch Experience Portal

From a PC, open a web browser and enter the URL for Experience Portal. Log in with the proper credentials.

8	С	0	Ô	https://10.30.5.142/VoicePo	rtal/faces/main.jsf		P	A»	to	ß	۲Ę	1
				AVAYA								
					ortal 8.1.1 (Experience	Portal)						
				User Name:	admin				10000			
									and a second second			
					I	Submit			and a second			
				Change Password					-			
				© 202	21 Avaya Inc. All Rights R	leserved.						

The Avaya Aura® Experience Portal Manager page is displayed.

AVAVA	Welcome, admi
	Last logged in today at 3:14:50 AM ES
Avaya Experience Portal 8.1.1	(ExperiencePortal) n Home ?+ Help 😵 Logoff
Expand All   Collapse All	
▼ User Management	You are here: Home
Roles Users	Avaya Experience Portal Manager
Login Options     Real-time Monitoring	
System Monitor Active Calls Port Distribution	Avaya Experience Portal Manager (EPM) is the consolidated web-based application for administering Experience Portal. Through the EPM interface you can configure Experience Portal, check the status of an Experience Portal component, and generate reports related to system operation.
<ul> <li>System Maintenance Audit Log Viewer</li> </ul>	
Trace Viewer Log Viewer Alarm Manager	Installed Components
System Management     Application Server     EPM Manager     MPP Manager     Software Upgrade	Media Processing Platform Media Processing Platform (MPP) is an Avaya media processing server. When an MPP receives a call from a PBX, i (or CCXML) application on an application server. It then communicates with ASR and TTS servers as necessary to
System Backup ▼ System Configuration Applications	Email Service Email Service is an Experience Portal feature which provides e-mail capabilities.
EPM Servers MPP Servers SNMP Speech Servers VoIP Connections	HTML Service HTML Service is an Experience Portal feature which supports web applications with HTML5 capabilities. It include based services for mobile devices.
Zones Security Certificates Licensing	SMS Service SMS Service is an Experience Portal feature which provides SMS capabilities.
Reports     Standard     Custom	Legal Notice
Scheduled Multi-Media Configuration Email HTML	AVAYA GLOBAL SOFTWARE LICENSE TERMS REVISED: June 1st, 2020
SMS	THESE GLOBAL SOFTWARE LICENSE TERMS ("SOFTWARE LICENSE TERMS") GOVERN THE USE OF PROP

### 5.2. Configure Speech Server

This section describes the Experience Portal configuration for both Text-to-Speech and Automated Speech Recognition.

#### 5.2.1. Configure TTS Server

From the left pane, select System Configuration  $\rightarrow$  Speech Servers  $\rightarrow$  TTS  $\rightarrow$  Add to an TTS server.

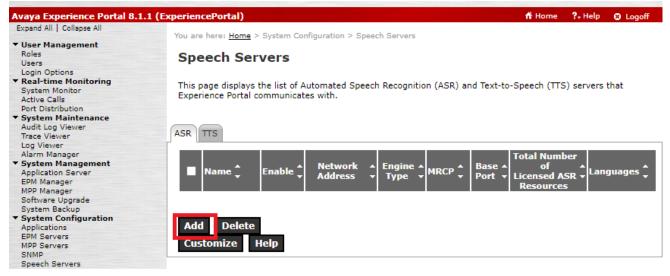


During the compliance test, the following NuanceTTS server was configured.

Avaya Experience Portal 8.1.1	(ExperiencePortal)		🖬 Home	<b>?</b> ₊ Help	😣 Logoff
Expand All Collapse All					
	Name:	NuanceTTS			
<ul> <li>User Management Roles</li> </ul>	Enable:	● Yes ○ No			
Users	Ellable:	Ves UN0			
Login Options	Engine Type:	Nuance 🗸			
▼ Real-time Monitoring					
System Monitor	Network Address:	10.128.228.96			
Active Calls	Base Port:	5060			
Port Distribution					
▼ System Maintenance	Total Number of Licensed TTS Resou	rces: 2			
Audit Log Viewer Trace Viewer					
Log Viewer	New Connection per Session:	🔾 Yes 🖲 No			
Alarm Manager	Voices	Selected Voices			
▼ System Management					
Application Server	Afrikaans(South_Africa) af-ZA Te		nifer F		-
EPM Manager	Arabic(WorldWide) ar-WW Laila F				
MPP Manager	Arabic(WorldWide) ar-WW Maged	1 M			
Software Upgrade	Arabic(WorldWide) ar-WW Tarik I				
System Backup					
<ul> <li>System Configuration Applications</li> </ul>	Basque(Spain) eu-ES Arantxa F				
EPM Servers	Basque(Spain) eu-ES Miren F	0			
MPP Servers	Bulgarian(Bulgaria) bg-BG Daria	F 🔍			
SNMP	Catalan(Spain) ca-ES Jordi M				
Speech Servers	Catalan(Spain) ca-ES Montserrat	F			
VoIP Connections					_
Zones	Catalan(Spain) ca-ES Nuria F	<b>T</b>			+
▼ Security	MRCP				
Certificates					
Licensing Reports	Ping Interval: 15 second	ls			
Standard	Response Timeout: 4 second	-			
Custom	Response filmeout: 4 second	15			
Scheduled	Protocol: MRCP V2 V				
Multi-Media Configuration					
Email	Enable Session XML: O Yes O N	0			
HTML		•			
SMS	Transport Protocol: TCP 🗸				
	Listener Port: 5060				
	Listerier Port. 5000				
	Save Apply Cancel H	elp			

#### 5.2.2. Configure Automated Speech Recognition Server

From the left pane, select System Configuration  $\rightarrow$  Speech Servers  $\rightarrow$  ASR  $\rightarrow$  Add to an ASR server.

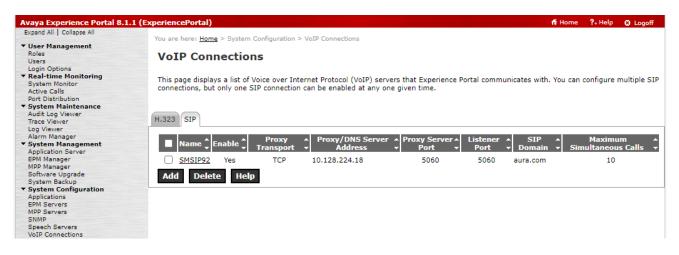


During the compliance test, the following **UniphoreASR** server was configured.

Avaya Experience Portal 8.1.1 (E	xperiencePortal)		n Home	<b>?</b> ₊ Help	🙁 Logoff
Expand All   Collapse All					
	Name:	UniphoreASR			
<ul> <li>User Management Roles</li> </ul>	Enable:	Yes O No			
Users Login Options	Engine Type:	Nuance 🗸			
<ul> <li>Real-time Monitoring</li> <li>System Monitor</li> </ul>	Network Address:	18.189.65.122			
Active Calls Port Distribution	Base Port:	8060			
<ul> <li>System Maintenance Audit Log Viewer</li> </ul>	Total Number of Licensed ASR Resources	:: 5			
Trace Viewer	New Connection per Session:	● Yes ○ No			
Log Viewer Alarm Manager	Languages	Selected Languages			
▼ System Management					
Application Server	Afrikaans(South_Africa) af-ZA	English(USA) en-US	-		
EPM Manager	Arabic(Jordan) ar-JO				
MPP Manager	Arabic(WorldWide) ar-WW				
Software Upgrade	Assamese(India) as-IN				
System Backup  System Configuration	Basque(Spain) eu-ES	0			
Applications	Bengali(Bengladesh) bn-BD				
EPM Servers		0			
MPP Servers	Bengali(India) bn-IN	-			
SNMP	Bhojpuri(India) bh-IN				
Speech Servers	Bulgarian(Bulgaria) bg-BG				
VoIP Connections Zones	Cantonese(Hong_Kong) cn-HK 💌		-		
▼ Security					
Certificates	MRCP				
Licensing Reports	Ping Interval: 15 seconds				
Standard Custom	Response Timeout: 4 seconds				
Scheduled	Protocol: MRCP V2 V				
<ul> <li>Multi-Media Configuration</li> </ul>					
Email	Enable Session XML: O Yes 🖲 No				
HTML SMS					
SMS	Transport Protocol: TCP V				
	Listener Port: 5060				

#### 5.3. Configure VoIP Connections

During the compliance test, U-Self Serve was tested using both H.323 and SIP connections to Experience Portal. H.323 connectivity is configured with Communication Manager and SIP connectivity is configured with Session Manager. To view VoIP Connections, from the left pane, select System Configuration  $\rightarrow$  VoIP Connections, select SIP or H323 Tab.



The following screen captures display the configured SIP Connection.

Avaya Experience Portal 8.1.1 (E	xperiencePortal)	n Home	?. Help	🕴 Logoff
Expand All   Collapse All				
	You are here: Home > System Configuration > VoIP Connections > Change SIP Connection			
<ul> <li>User Management</li> </ul>				
Roles	Change SIP Connection			
Users	change SIP connection			
Login Options				
<ul> <li>Real-time Monitoring</li> </ul>	Use this page to change the configuration of a SIP connection.			
System Monitor	use this page to change the configuration of a SIP confiection.			
Active Calls				
Port Distribution	Name: SMSIP92			
<ul> <li>System Maintenance</li> </ul>	Name, Shorez			
Audit Log Viewer	Enable:   Yes O No			
Trace Viewer				
Log Viewer	Proxy Transport: TLS V			
Alarm Manager				
▼ System Management	Proxy Servers O DNS SRV Domain			
Application Server				
EPM Manager	Address Port Priority Weight			
MPP Manager Software Upgrade	10.128.224.18 5061 0 0 Remove			
System Backup				
▼ System Configuration	Additional Proxy Server			
Applications	Listener Port: 5061			
EPM Servers	Listener Port: 5061			
MPP Servers SNMP	SIP Domain: aura.com			
Speech Servers	P-Asserted-Identity:	_		
VoIP Connections	P-Asserted-Identity;			
Zones	Maximum Redirection Attempts: 0			
▼ Security				
Certificates	Consultative Transfer: O INVITE with REPLACES REFER			
Licensing				
▼ Reports	SIP Reject Response Code: I ASM (503) SES (480) Custom 503			
Standard				
Custom Scheduled	SIP Timers			
<ul> <li>Multi-Media Configuration</li> </ul>				
Email	T1: 250 milliseconds			
HTML SMS	T2: 2000 milliseconds			
SMS	B and F: 4000 milliseconds			
	Call Capacity			
	Maximum Simultaneous Calls: 10			
	All Calls can be either inbound or outbound			
	O Configure number of inbound and outbound calls allowed			

The following screen captures display the configured **H.323 Connection**.

Avaya Experience Portal 8.1.1	L (ExperiencePortal)		fi Home	?. Help	O Logoff
Expand All   Collapse All					
estantin I construction	You are here: Home > System Con	figuration > VolP Connections > Add H.323 Connection			
* User Management					
Roles	Change II and a				
Users	Change H.323 Con	inection			
Login Options					
* Real-time Monitoring					
System Monitor	Use this page to add a new H.3	323 connection.			
Active Calls					
Port Distribution	Name:	CM10			
* System Maintenance	Name:	CMID			
Audit Log Viewer					
Trace Viewer	Enable:	® Yes ○ No			
Log Viewer					
Alarm Manager	Gatekeeper Address:	10.128.226.145			
* System Management	alternative Contributions and design				
Application Server	Alternative Gatekeeper Address	a			
EPM Manager	Gatekeeper Port:	1719			
MPP Manager	Gatekeeper Port:	1/19			
Software Upgrade	the distance of the second second				
System Backup	Media Encryption:	O Yes 🖲 No			
▼ System Configuration	New Stations				
Applications					
EPM Servers	From	To			
MPP Servers	The share a				
SNMP	Station:				
Speech Servers	Password:				
VoIP Connections	Password;				
Zones					
* Security	Same Password				
Certificates					
Licensing	Use sequential passwords				
* Reports					
Standard	Inbound and Ou	utbound 🔺			
Custom	Station Type: Inbound Only	Add			
Scheduled		Add			
	Maintenance	*			
<ul> <li>Multi-Media Configuration</li> </ul>					
Email					
HTML	Configured Stations (M for M	faintenance, I for Inbound Only)			
SMS					
	30000 - 30001	*			
		Remove			
		· ·			
	Save Cancel Help				

### 5.4. Add U-Self Serve Application

From the left pane, select **System Configuration**  $\rightarrow$  **Applications**. The Applications page is displayed (not shown). Click **Add**. Complete the fields as follows:

- Enter a descriptive name in the **Name** field. In the compliance test, **U-Self-Service** was used.
- For the **Type** field, select VoiceXML from the drop-down menu.
- In the **URI** box, fill in the VoiceXML URL field: http://10.30.5.142:7080/AvayaIntractVxmlConnector/akeira.vxml, where 10.30.5.142 and 8080 are the IP Address and Port of the server hosting the U-Self Serve application.
  - Verify button can be selected to verify if the application is reachable or not.

• In the **ASR Speech Servers** section, Select **Nuance** under the ASR Engine Types box and select the right arrow.

• In the Application Launch section, select the Inbound radio button and the Number radio button. Enter the **Called Number** and select **Add**.

Avaya Experience Portal 8.1.1 (	ExperiencePortal)	📅 Home	?₊ Help	😣 Logoff
Expand All   Collapse All	Use this page to change the configuration of an application.			
Viser Management     Roles     Users     Login Options     Y Real-time Monitoring     System Monitor     Active Calls     Port Distribution     System Maintenance     Audit Log Viewer     Trace Viewer	Use this page to change the configuration of an application. Name: U-Self Service Enable:  Yes VoiceXML V Reserved SIP Calls: None None Minimum Maximum Requested: URI			
Log Viewer	ORI			
Alarm Manager System Management Application Server EPM Manager MPP Manager Software Upgrade	Single      Fail Over      Load Balance VoiceXML URL:      http://10.30.5.142:7080/AvayaIntractVxmlConnector/akeira.vx	ml		
System Backup System Configuration Applications EPM Servers MPP Servers SNMP	Mutual Certificate Authentication: O Yes  No Basic Authentication: O Yes  No			
Speech Servers	ASR Speech Servers 🔻			
VoIP Connections Zones ▼ Security Certificates	Engine Types Selected Eng Selected Eng <none></none>	jine Types		
Licensing <b>Reports</b> Standard Custom Scheduled <b>Multi-Media Configuration</b>	ASR:			
Email	Nuance			
HTML SMS	Languages Selected Languages			
	<pre></pre> <pre> </pre> Control and the second			*
	Resources: Acquire on call start and retain V			
	N Best List Length:			
	Speech Complete Timeout:       milliseconds         Speech Incomplete Timeout:       milliseconds			
	Vendor Parameters:			

TTS Speech Servers	<b>▼</b>			
TTS: Nuance 🗸	Voices <pre></pre>		Selected Voices English(USA) en-US Jennifer F	*
Application Launch	▼			
● Inbound ○ Inb	ound Default 🔿 Outbound			
Number O Num Called Number:	mber Range O URI Add			
30001		*	Remove	
SIP Header Source:	Any 🗸			
Speech Parameters	•			
Reporting Paramete	rs 🕨			
Advanced Paramete	rs 🕨			
Save Apply	Cancel Help			

# 6. Configure U-Self Serve and Uniphore ASR

Please reach out to Uniphore Software Systems for U-Self Serve and Uniphore ASR configuration as U-Self Serve and Uniphore ASR will be configured as necessary by the Uniphore implementation team as per the customer deployment requirements.

# 7. Verification Steps

The following steps may be used to verify proper configuration for Experience Portal.

### 7.1. Verify Avaya Aura® Experience Portal

From an Experience Portal Manager page, click Real Time Monitoring  $\rightarrow$  System Monitor in the left pane. The System Monitor screen is displayed, as shown below. Verify that the Mode, State, and Config fields of the MPP144 being used (MPP in the compliant test) shows Online, Running, and OK. Also review any alarms if they are present.

Avaya Experience Portal 8.1	.1 (ExperiencePort	al)									n Ho	ome	?+ Help	😣 Log	goff
Expand All   Collapse All	New year harry														
▼ User Management	tou are here:	Home > H	eal-Time Monitorir	ig > Sy	stem Monito	)F									
Roles														۵	
Users	System	Mon	i <b>to</b> r (Nov 2	9, 20	22 4:44	:58 AN	1 EST)							iresh E	
Login Options     Real-time Monitoring															
System Monitor														~	
Active Calls			e current state o				al system	plus an	y remo	te Experience	e Portal systems	that y	ou have c	onfigui	red.
Port Distribution	For informat	ion abou	t the colored ala	m sym	DOIS, CIICK	neip.									
<ul> <li>System Maintenance</li> </ul>															
Audit Log Viewer															
Trace Viewer Log Viewer	Summary E	xperienc	ePortal Details												
Alarm Manager			L												
▼ System Management							Last	Poll: N	ov 29.	2022 4:44:46	5 AM EST				
Application Server				_	C	III Comerc		Active							
EPM Manager	Server Na	ne Type	Mode State	Config		II Capac				Calls Today	Alarms				
MPP Manager					Current I	licensed I	Maximum	In	Out						
Software Upgrade System Backup	EPM	EPM	Online Running	OK											
<ul> <li>System Configuration</li> </ul>			-												
Applications	MPP144	MPP	Online Running	OK	10	10	50	0	0	0					
EPM Servers	Summary				10	10	50			0					
MPP Servers	Summary				10	10	50			•	-				
SNMP Speech Servers															
VoIP Connections															
Zones	Help														
<ul> <li>Security</li> </ul>															

To verify VoIP Connection, select Real-time Monitoring  $\rightarrow$  Port Distribution  $\rightarrow$  All server. For SIP VoIP connection, the following screen is displayed, verify the State as In service.



### 7.2. Verify call to U-Self Serve

From PSTN, make call to U-Self Serve application, verify IVR can play successfully, Nuance TTS and Uniphore ASR can work well.

### 8. Conclusion

These Uniphore Software Systems, Inc. U-Self Serve successfully completed compliance testing. These Application Notes describe the procedures required to configure Uniphore Software Systems, Inc. U-Self Serve 1.0 to interoperate with Avaya Aura® Experience Portal 8.1.1 to support the reference configuration shown in **Figure 1**.

# 9. Additional References

This section references the Avaya and Uniphore 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® Experience Portal, Release 8.1.1, Issue 2 February 2022

Product Documentation for Uniphore products may be found at <u>https://www.uniphore.com/</u>

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