



Avaya Solution & Interoperability Test Lab

Application Notes for Cedat 85 Speech Suite V5 with Avaya Aura® Experience Portal 7.2 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required to integrate Cedat 85 Speech Suite with Avaya Aura® Experience Portal. Cedat 85 Speech Suite comprise of Automatic Speech Recognition (ASR) and CereProc Text-To-Speech (TTS). Cedat 85 ASR uses the Media Resource Control Protocol (MRCP) version 2 for its ASR features to interface with VoiceXML (VXML) applications running on the Avaya Aura® Experience Portal 7.2. Voice Prompt will be synthesized via CereProc TTS using MRCP version 1 which interface with VXML applications running on the 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 the 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 to integrate Cedat 85 Speech Suite with Avaya Aura® Experience Portal 7.2. Cedat 85 Speech Suite comprise of Automatic Speech Recognition (ASR) and CereProc Text-To-Speech (TTS). The Cedat 85 ASR interoperate with Avaya Experience Portal via Media Resource Control Protocol (MRCP) version 2 protocol to obtain and process the speech input and produce a grammar-independent raw transcription to be forwarded to the semantic engine which will generate the next voice prompt, synthesized via MRCP version 1 by Cedat 85 CereProc TTS. The semantic computation and Natural Language Understanding (NLU) generation will be dedicated to third party and hence will not be tested here. This solution is used in the development of a conversational agent in the medical reservation domain.

2. General Test Approach and Test Results

The general test approach is to manually make calls from Communication Manager to the incoming number of Experience Portal applications which in turn launch the speech applications. The appropriate voice responses are observed. Session details are also checked from the Experience Portal for the correct behavior according to the written vxml scripts, and system monitor are checked for any abnormality.

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 the Cedat 85 Speech Suite did not include use of any specific encryption features as requested by Cedat 85.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing. The feature testing focused on placing calls to Media Processing Platform (MPP) server in the Experience

Portal system. These calls are used to verify speech recognition with barge in, time-out, resources unavailable, as well as simultaneous calls. As for TTS, calls are made to verify TTS synthesis such as voice prompt for short and long duration, barge in, time-out, different voices and languages, different speed, pitch and volume, as well as simultaneous calls.

The serviceability testing focused on verifying the ability of the speech solution to recover from adverse conditions, such as power failures and disconnecting cables to the IP network, Experience Portal system restarts, and Communication Manager restarts.

2.2. Test Results

All test cases are successfully completed.

2.3. Support

For technical support on Cedat 85 speech suite, contact the Cedat 85 S.r.l. at:

- Phone: +39 06.68134164
- Email: cedat85@cedat85.com

3. Reference Configuration

Figure 1 illustrates the test configuration used to verify the Cedat 85 speech suite. Both Cedat ASR and CereProc TTS runs on CentOS servers. VoiceXML scripts and VoiceXML applications were installed on an Application Server and accessed by Avaya Aura® Experience Portal. Avaya Aura® Experience Portal which comprises of Experience Portal Manager (EPM) and Media Processing Platform (MPP) are connected to Avaya Aura® Session Manager, Avaya Aura® System Manager and a duplex pair of Avaya Aura® Communication Manager; all running on VMware 6.x and a Avaya G430 Media Gateway. Avaya 9600 Series H.323 Deskphones and J100 Series SIP Deskphones were used to place SIP VoIP calls to Avaya Aura® Experience Portal, which would run the VoiceXML scripts and applications. The applications would then use Cedat ASR for speech recognition and CereProc TTS for synthesizing Text-To-Speech.

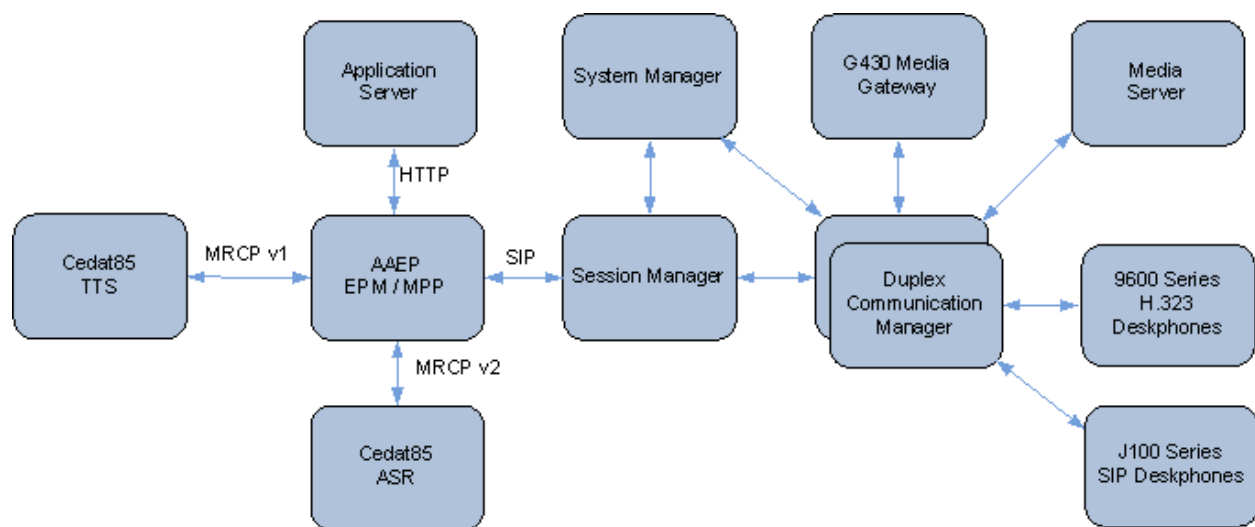


Figure 1: Test Configuration

4. Equipment and Software Validated

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

Equipment	Software
Avaya Aura® Communication Manager	8.0.1
Avaya Aura® Experience Portal	7.2.1
Avaya G430 Media Gateway	40.25.0
Avaya Aura® Media Server	8.0.0.183
Avaya Aura® System Manager	8.0.1
Avaya Aura® Session Manager	8.0.1
Avaya 9600 Series H.323 Deskphones	6.8003
Avaya J100 Series SIP Deskphones	4.0.0.0.21
Cedat 85 ASR running on CentOS 6.9	5.3
• CedatUniMRCP Server	1.4
Cedat 85 CereProc TTS Server running on CentOS 7.0	5.0.1
• CPUUniMRCP Server	5.0.1

Note – The Avaya Aura® servers and Cedat 85 servers used in the reference configuration and shown on the table were deployed on a virtualized environment. These Avaya components ran as virtual machines over VMware® (ESXI 6.X) platforms.

5. Configure Avaya Communication Manager

The configuration of the SIP Trunks between Communication Manager and Session Manager, and the routing of calls to Experience Portal are assumed to be in place and will not be discussed here. This section provides the additional procedures to configure Communication Manager for the purpose of administering Cedat 85 Speech Suite. The configuration is performed via the System Access Terminal (SAT).

Step	Description
1.	<p>Enter the change ip-codec-set n command where n is a valid IP codec-set associated with the IP network region that is used by Experience Portal, typically the IP network region assigned to the Session Manager SIP Trunk signaling group. Set Audio Codec to an appropriate value supported by Avaya Experience Portal and Cedat 85. In this configuration, the G.711Mu and G.711A codecs were used.</p> <pre> change ip-codec-set 6 Page 1 of 2 IP MEDIA PARAMETERS Codec Set: 6 Audio Silence Frames Packet Codec Suppression Per Pkt Size (ms) 1: G.711MU n 2 20 2: G.711MU n 2 20 3: 4: 5: 6: 7: Media Encryption Encrypted SRTCP: best-effort 1: none 2: 3: 4: 5: </pre>

6. Configure Avaya Aura® Experience Portal

The initial administration of Experience Portal and the configuration of the SIP VoIP connection to Session Manager are assumed to be in place and will not be discussed here. This section covers the additional procedures of Experience Portal that is required for the purpose of administering Cedat 85 Speech Suite. The following steps will be covered:

- Login to Experience Portal Manager (EPM)
- Configuring the VoIP Audio Format
- Add Cedat 85 ASR and CereProc TTS server
- Add Applications

6.1. Login to Experience Portal Manager (EPM)

Avaya Experience Portal is configured via the EPM web interface. To access the web interface, enter **https://<ip-addr>/VoicePortal/** as the URL in an internet browser, where **<ip-addr>** is the IP address of the EPM. Log in using an account with the Administration role to display the main page.

The image shows a web browser window displaying the login page for Avaya Aura® Experience Portal 7.2.1. The page has a white background with a red header bar at the top. The Avaya logo is in red, and the text "Avaya Aura® Experience Portal 7.2.1 (ExperiencePortal)" is in white on the red bar. Below the header, there is a "User Name:" label followed by a text input field. A "Submit" button is located below the input field. At the bottom left, there is a link that says "Change Password". At the bottom center, there is a copyright notice: "© 2018 Avaya Inc. All Rights Reserved."

6.2. Configure the VoIP Audio Format

To configure the codec used by the Media Processing Platform (MPP) server, click **System Configuration** → **MPP Servers** in the left pane and click **VoIP Settings**.

AVAYA
Avaya Aura® Experience Portal 7.2.1 (ExperiencePortal)
Expand All | Collapse All

You are here: [Home](#) > System Configuration > MPP Servers

MPP Servers

This page displays the list of Media Processing Platform (MPP) servers in the Experience Portal system. When an MPP receives a call from a P, communicates with ASR and TTS servers as necessary to process the call.

<input type="checkbox"/>	Name	Host Address	Network Address (VoIP)	Network Address (MRCP)	Network Address (AppSvr)	Maximum Simultaneous Calls	Trace Level
<input type="checkbox"/>	aaep-mpp	10.1.10.83	<Default>	<Default>	<Default>	10	Use MPP Settings

Add **Delete**

MPP Settings **Browser Settings** **Video Settings** **VoIP Settings** **Help**

Set **MPP Native Format** to **audio/basic** to configure the MPP server for G.711 mu-law and G.711 A-Law to match the configuration on Communication Manager in **Section 5**.

Avaya Aura® Experience Portal 7.2.1 (ExperiencePortal)
Expand All | Collapse All

You are here: [Home](#) > System Configuration > [MPP Servers](#) > VoIP Settings

VoIP Settings

Voice over Internet Protocol (VoIP) is the process of sending voice data through a netw transferred through the network. Note that if you make any changes to this page, you

Port Ranges ▾

	Low	High
UDP:	30000	30999
TCP:	31000	33499
MRCP:	34000	36499
H.323 Station:	37000	39499

RTCP Monitor Settings ▾

Host Address:

Port:

VoIP Audio Formats ▾

MPP Native Format: **audio/basic** ▾

Codecs ▸
QoS Parameters ▸
Out of Service Threshold (% of VoIP Resources) ▸
Call Progress ▸
Miscellaneous ▸

Save **Apply** **Cancel** **Help**

Click on the **Codecs** and ensure the **Order** match for **Offer** and **Answer**. Scroll down the page and click **Save**.

Avaya Aura® Experience Portal 7.2.1 (ExperiencePortal)
Expand All | Collapse All

- ▼ **User Management**
 - Roles
 - Users
 - Login Options
- ▼ **Real-time Monitoring**
 - System Monitor
 - Active Calls
 - Port Distribution
- ▼ **System Maintenance**
 - Audit Log Viewer
 - Trace Viewer
 - Log Viewer
 - Alarm Manager
- ▼ **System Management**
 - EPM Manager
 - MPP Manager
 - Software Upgrade
 - System Backup
- ▼ **System Configuration**
 - Applications
 - EPM Servers
 - MPP Servers
 - SNMP
 - Speech Servers
 - VoIP Connections
 - Zones
- ▼ **Security**
 - Certificates
 - Licensing
- ▼ **Reports**
 - Standard
 - Custom
 - Scheduled
- ▼ **Multi-Media Configuration**
 - Email
 - HTML
 - SMS

VoIP Settings

Voice over Internet Protocol (VoIP) is the process of sending voice data through a network transferred through the network. Note that if you make any changes to this page, you

Port Ranges ▼

	Low	High
UDP:	<input type="text" value="30000"/>	<input type="text" value="30999"/>
TCP:	<input type="text" value="31000"/>	<input type="text" value="33499"/>
MRCP:	<input type="text" value="34000"/>	<input type="text" value="36499"/>
H.323 Station:	<input type="text" value="37000"/>	<input type="text" value="39499"/>

RTCP Monitor Settings ▼

Host Address:

Port:

VoIP Audio Formats ▼

MPP Native Format:

Codecs ▼

Offer

Enable	Codec	Order
<input checked="" type="checkbox"/>	G711uLaw	<input type="text" value="1"/>
<input checked="" type="checkbox"/>	G711aLaw	<input type="text" value="2"/>
<input type="checkbox"/>	G729	<input type="text"/>

Packet Time: milliseconds

G729 Discontinuous Transmission: ☒ Yes ☐ No

Answer

Enable	Codec	Order
<input checked="" type="checkbox"/>	G711uLaw	<input type="text" value="1"/>
<input checked="" type="checkbox"/>	G711aLaw	<input type="text" value="1"/>
<input checked="" type="checkbox"/>	G729	<input type="text" value="1"/>

G729 Discontinuous Transmission: ☐ Yes ☐ No ☒ Either

G729 Reduced Complexity Encoder: ☒ Yes ☐ No

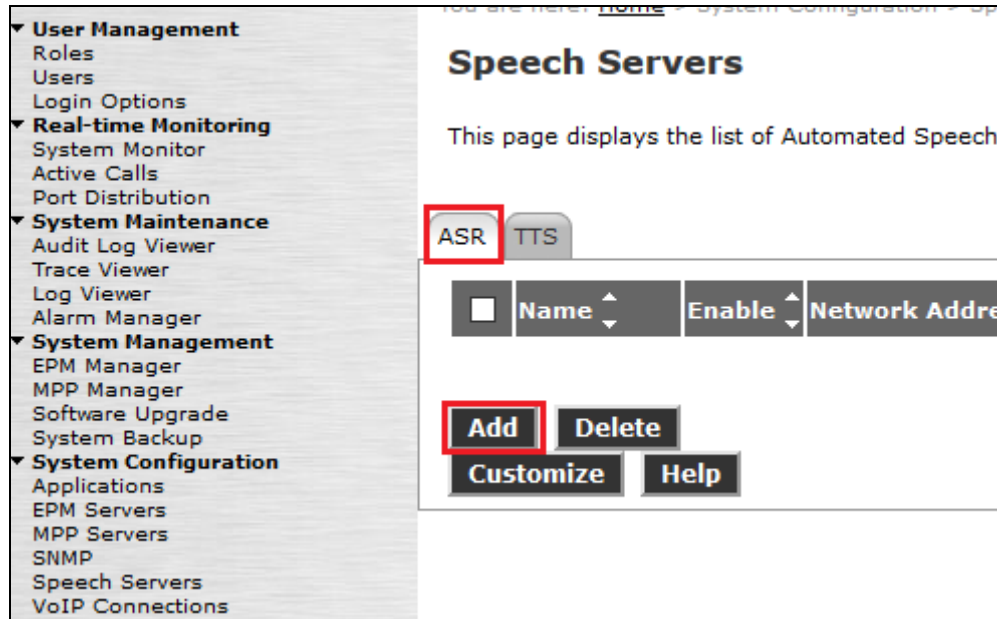
LYM; Reviewed:
SPOC 5/1/2019

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9 of 19
EPCedat85ASRTTS

6.3. Add Speech Servers

To configure the Cedat 85 speech servers, click **System Configuration** → **Speech Servers**. Select the **ASR** tab and click **Add**.



In the **Add ASR Server** page, select **Nuance** as the **Engine Type**. Specify the appropriate **Name**, select **Yes** to **Enable**, set **Network Address** to the IP address or Full FQDN of the Cedat 85 ASR server. Set the **Base Port** to 5060. The **Total Number of Licensed ASR Resources** should also be set to the number of licenses available on the Cedat 85 ASR server.

Select the **Languages** to use by highlighting them and move to the right box. In the **MRCP** section, set **Protocol** to **MRCP V2**.

All other fields were left at their default values. Click **Save**.

Add ASR Server

Use this page to configure Experience Portal to communicate with a new ASR server.

Name:

Enable: ☒ Yes ☐ No

Engine Type:

Network Address:

Base Port:

Total Number of Licensed ASR Resources:

New Connection per Session: ☐ Yes ☒ No

Languages

Afrikaans(South_Africa) af-ZA
Arabic(Jordan) ar-JO
Arabic(WorldWide) ar-WW
Assamese(India) as-IN
Basque(Spain) eu-ES
Bengali(Bangladesh) bn-BD
Bengali(India) bn-IN
Bhojpuri(India) bh-IN
Bulgarian(Bulgaria) bg-BG
Cantonese(Hong_Kong) cn-HK

Selected Languages

English(USA) en-US
Italian(Italy) it-IT

MRCP

Ping Interval: seconds

Response Timeout: seconds

Protocol:

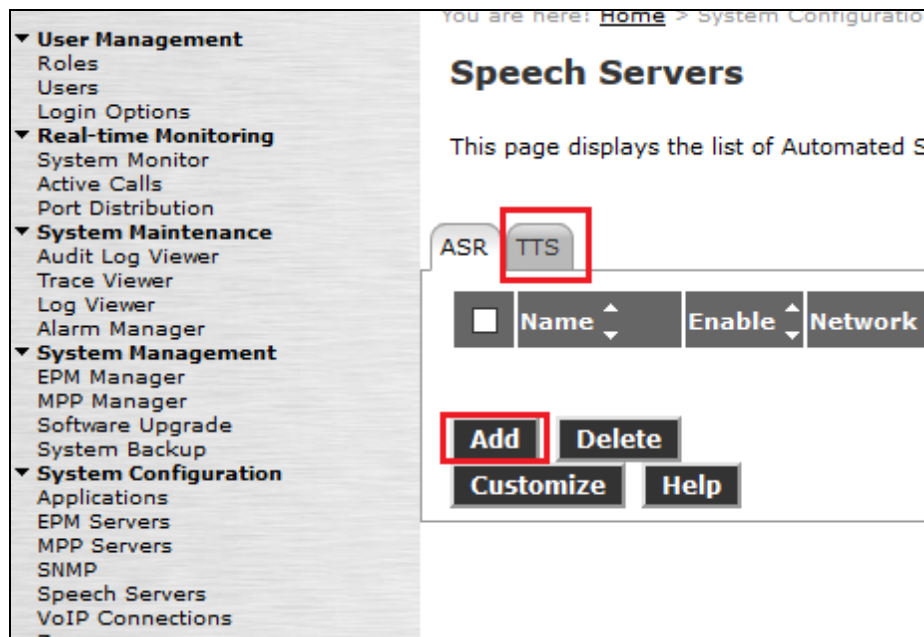
Enable Session XML: ☐ Yes ☒ No

Transport Protocol:

Listener Port:

Save **Cancel** **Help**

To configure the Cedat 85 CereProc TTS server, click **System Configuration** → **Speech Servers**. Select the **TTS** tab and click **Add**.



In the **Add TTS Server** page, select **Loquendo** as the **Engine Type**. Specify the appropriate **Name**, select **Yes** to **Enable**, set **Network Address** to the IP address or Full FQDN of the Cedat 85 CereProc TTS server. Set the **Base Port** to **1554**. The **Total Number of Licensed TTS Resources** should also be set to the number of licenses available on the Cedat 85 CereProc TTS server.

Select the **Languages** to use by highlighting them and move to the right box. In the **MRCP** section, set **Protocol** to **MRCP V1**. Set the **RTSP URL** to “<Network Address of TTS server>/<directory>”.

All other fields were left at their default values. Click **Save**.

Add TTS Server

Use this page to configure Experience Portal to communicate with a new TTS server.

Name: Cedat 85 TTS

Enable: ☒ Yes ☐ No

Engine Type: Loquendo

Network Address: 10.1.10.123

Base Port: 1554

Total Number of Licensed TTS Resources: 5

New Connection per Session: ☐ Yes ☒ No

Voices

- Catalan(Spain) ca-ES Jordi M
- Catalan(Spain) ca-ES Montserrat F
- Dutch(Netherlands) nl-NL Saskia F
- Dutch(Netherlands) nl-NL Wilhelm M
- English(UK) en-GB Elizabeth F
- English(UK) en-GB Kate F
- English(UK) en-GB Simon M
- English(USA) en-US Allison F
- English(USA) en-US Dave M
- English(USA) en-US Kenneth M

Selected Voices

- Cedat85(Italy) it-IT Dario M
- Cedat85(Italy) it-IT Laura F
- Cedat85(USA) en-US Jess F
- Cedat85(USA) en-US William M

MRCP

Ping Interval: 15 seconds

Response Timeout: 4 seconds

Protocol: MRCP V1

RTSP URL: 10.1.10.123:1554/speechsynthesizer

Save **Cancel** **Help**

6.4. Add Applications

To assign Cedat 85 to an Experience Portal application, click **System Configuration** → **Applications** and then click **Add** on the Applications page (not shown). The **Change Application** page shown on the next page highlights the configuration changes.

This configuration assigns the Experience Portal test application deployed on the http server to the called number **10391**. Specify the **Name**, select **Yes** to **Enable**, set **Type** to **VoiceXML** for the MIME and set **VoiceXML URL** to HTTP server address location of the VoiceXML script. Select **Nuance** for **ASR** and **Loquendo** for **TTS** then highlight the appropriate **Languages** to use.

Repeat this procedure to assign Cedat 85 Speech Servers to other Experience Portal applications.

Change Application

Use this page to change the configuration of an application.

Name: Cedat 85 Testing

Enable: ☒ Yes ☐ No

Type: VoiceXML

Reserved SIP Calls: ☒ None ☐ Minimum ☐ Maximum

Requested:

URI

☒ Single ☐ Fail Over ☐ Load Balance

VoiceXML URL: http://10.1.10.98/CEDAT85ENG/menu.vxml **Verify**

Mutual Certificate Authentication: ☐ Yes ☒ No

Basic Authentication: ☐ Yes ☒ No

Speech Servers

ASR: Nuance

Languages: <None>

Selected Languages: English(USA) en-US, Italian(Italy) it-IT

TTS: Loquendo

Voices: <None>

Selected Voices: English(USA) en-US Jess F, English(USA) en-US William M, Italian(Italy) it-IT Dario M, Italian(Italy) it-IT Laura F

Application Launch

☒ Inbound ☐ Inbound Default ☐ Outbound

☒ Number ☐ Number Range ☐ URI

Called Number: 10391 **Add**

Remove

7. Configure Cedat 85 Speech Suite

The Cedat 85 ASR Server and CereProc TTS installation were done by Cedat 85 engineers which will not be detailed here. In this compliance testing, Cedat 85 ASR server runs on CentOS 6.9 whereas Cedat 85 CereProc TTS server runs on CentOS 7.0.

8. Verification Steps

This section provides the verification steps that may be performed to verify that Experience Portal can run VoiceXML applications that use the iFlyTek Server for ASR functionalities.

8.1. Verify Avaya Aura® Experience Portal

From the Experience Portal Manager web interface, click **System Management → MPP Manager**. On the MPP Manager page, verify that the MPP server is **Online**, **Running** and **Config** is **OK**.

Avaya Aura® Experience Portal 7.2.1 (ExperiencePortal)

Expand All | Collapse All

You are here: [Home](#) > System Management > MPP Manager

MPP Manager (Apr 11, 2019 4:15:45 AM PDT)

This page displays the current state of each MPP in the Experience Portal system. To enable it, click the checkbox. To stop it, click the Stop button.

Last Poll: Apr 11, 2019 4:15:25 AM PDT

<input type="checkbox"/>	Server Name	Mode	State	Config	Auto Restart	Restart Schedule	Active Calls		
					Today	Recurring	In	Out	
<input type="checkbox"/>	aaep-mpp	Online	Running	OK	No	No	None	0	0

State Commands

[Start](#) [Stop](#) [Restart](#) [Reboot](#) [Halt](#) [Cancel](#)

Mode Commands

[Offline](#) [Test](#) [Online](#)

Restart/Reboot Options

☒ One server at a time
☐ All servers

From the Experience Portal Manager web interface, click **Real-Time Monitoring** → **Port Distribution** (not shown). Select the appropriate MPP server and click **OK**. On the **Port Distribution Report** page, verify that the **State** of the ports of the MPP server is **In service** and the **Mode** is **Online**.

Avaya Aura® Experience Portal 7.2.1 (ExperiencePortal)

Expand All | Collapse All

You are here: [Home](#) > [Real-Time Monitoring](#) > [Port Distribution](#) > Port Distribution Report

Port Distribution Report (Apr 11, 2019 4:20:11 AM PDT)

This page displays information about how the telephony resources have been distributed to the MP

Servers: aaep-mpp
Total Ports: 10
Last Poll: Apr 11, 2019 4:19:53 AM PDT

Port	Mode	State	Port Group	Protocol	Current Allocation	Base Allocation
10	Online	In service	SM1	SIP_Trunk	aaep-mpp	

[Help](#)

8.2. Verify Cedat 85 Speech Suite

Check the connection of the speech servers to the MPP. From the Experience Portal Manager web interface, click **Real-Time Monitoring** → **System Monitor**.

Avaya Aura® Experience Portal 7.2.1 (ExperiencePortal)

Expand All | Collapse All

You are here: [Home](#) > [Real-Time Monitoring](#) > [System Monitor](#)

System Monitor (Apr 11, 2019 5:34:33 PM PDT)

This page displays the current state of the local Experience Portal system plus any remote Experience Portal sys

Summary [ExperiencePortal Details](#)

Last Poll: Apr 11, 2019 5:34:32 PM PDT

Server Name	Type	Mode	State	Config	Call Capacity			Active Calls		Calls Today	Alarms
					Current	Licensed	Maximum	In	Out		
EPM	EPM	Online	Running	OK							✓
aaep-mpp	MPP	Online	Running	OK	10	10	10	0	0	0	✓
Summary					10	10	10			0	✓

Click on the appropriate MPP which in this test there is only 1 used i.e., **aaep-mpp** and then the **Service Menu** on the next page.

aaep-mpp Details (Apr 11, 2019 5:35:02 PM PDT)

This page displays the detailed status of the selected MPP server.

General Information

Server Name: aaep-mpp
Unique Id: 10000
Host Address: 10.1.10.83
IP Address: 10.1.10.83
Version: 7.2.1.0.0622
Last Successful Poll: Apr 11, 2019 5:34:54 PM PDT

Operational State

Current State: Running (Since Mar 25, 2019 7:53:47 PM PDT)

Operational Mode

Current Mode: Online (Since Mar 4, 2019 12:48:49 AM PST)

Configuration [History](#)

Current State: OK
Last Modified: Mar 27, 2019 10:08:47 PM PDT

Call Status

Current Capacity: 10
Licenses Allocated: 10
Maximum Call Capacity: 10
Active Calls: 0
Calls Today: 0

Resource Status

CPU: 1%
Memory: 9%
Disk: 9%

Miscellaneous

[Service Menu](#)

[Configure](#)

[Help](#)

From the MPP home page shown below, click **Resources** → **Speech Servers**. Verify that both the Cedat 85 ASR and CereProc TTS **Status** are **Server is UP** for both servers.

Avaya Aura® Experience Portal MPP 7.2.1.0.0622 on aaep-mpp.sglab.com

You are here: [Home](#) > [Resources](#) > Speech Servers

Speech Servers

Name	Type	Status	Values	Ports	Errors	Latency
Cedat 85 ASR	ASR	Server is UP	H (Total): 5 M (Simultaneous): 5	Active: 0 Reserve: 0	Timeout: 0 Setup: 0 Application: 0	Average: 0 Maximum: 0 Minimum: 0
Cedat 85 TTS	TTS	Server is UP	H (Total): 5 M (Simultaneous): 5	Active: 0 Reserve: 0	Timeout: 0 Setup: 0 Application: 0	Average: 0 Maximum: 0 Minimum: 0

Thu Apr 11 17:36:39 2019

Home
Activity
Calls
Sessions
Applications
Statistics
Certificates
Configuration
Diagnostics
Logs
Resources
ASR
TTS
Speech Servers
Telephony
Networking

Place a call to Experience Portal that runs a VoiceXML script which uses the Cedat 85 ASR Server for speech recognition and Cedat 85 CereProc TTS Server for Text-To-Speech. Verify that the application recognizes the speech of the caller and is able to synthesize the text in the VXML scripts.

9. Conclusion

These Application Notes describe the configuration steps required for Cedat 85 Speech Suite with Avaya Aura® Experience Portal. Cedat 85 Speech Suite comprise of Automatic Speech Recognition (ASR) and CereProc Text-To-Speech (TTS). All feature and serviceability test cases were completed successfully.

10. Additional References

The following documents are available at <http://support.avaya.com>.

- [1] *Administering Avaya Aura® Experience Portal*, Release 7.2.1, Issue 1, March 2018.
- [2] *Administering Avaya Aura® Communication Manager*, Release 8.0.1, Issue 3, December 2018.
- [3] *Administering Avaya Aura® Session Manager*, Release 8.0, Issue 2, December 2018.

The Cedat 85 Speech Suite documents can be obtained by contacting Cedat 85 S.r.l. as per **Section 2.3**.

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