

Avaya Solution & Interoperability Test Lab

Application Notes for Engelbart esuits² Special Purpose Console Framework 1.2.1 with Avaya Aura® Communication Manager 8.1 and Avaya Aura® Application Enablement Services 8.1– Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Engelbart esuits² Special Purpose Console Framework 1.2.1 to interoperate with Avaya Aura® Communication Manager 8.1.3.4 and Avaya Aura® Application Enablement Services 8.1.3.4. Engelbart esuits² Special Purpose Console Framework used the Java Telephony Application Programming Interface and System Management Service Web Service from Avaya Aura® Application Enablement Services.

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 Engelbart esuits² Special Purpose Console (SPC) Framework 1.2.1 to interoperate with Avaya Aura® Communication Manager 8.1.3.4 and Avaya Aura® Application Enablement Services 8.1.3.4.

Engelbart esuits² SPC Framework used the Java Telephony Application Programming Interface (JTAPI) from Avaya Aura® Application Enablement Services for basic call control via a web-based agent interface.

Engelbart esuits² SPC Framework used Application Enablement Service System Management Service (SMS) to access Communication Manager configuration data to monitor agent states, calls in VDN, and allow agents to select skills at login and supervisor can change agent status or move them to a different skill.

2. General Test Approach and Test Results

The feature test cases were performed manually. Incoming ACD calls were placed with available agents running the web based Engelbart esuits² SPC Framework on the desktops. Manual call controls were exercised from Engelbart esuits² SPC Framework to verify proper call actions such as answer and transfer.

For the SMS testing, manually change the skills of agent on Communication Manager and on Engelbart esuits² SPC Framework. Verify agent status and skills list update in Engelbart esuits² SPC Framework.

The serviceability test cases were performed manually by disconnecting/reconnecting the Ethernet connections to the Engelbart esuits² SPC Framework server and to the agent desktop.

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 Engelbart esuits² SPC Framework did not include use of any specific encryption features as requested by Engelbart.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing. The feature testing focused on verifying the following on Engelbart esuits² SPC Framework:

- Handling of JTAPI/TSAPI messages in the areas of event notifications, value queries, and set agent states.
- Use of JTAPI/TSAPI call control services to support call control actions such as answer and transfer from the agent desktops.
- Proper handling of call scenarios involving inbound, outbound, ACD, non-ACD, transfer, conference, multiple agents, multiple calls, and long duration.
- Verify agent can select skills at login. SPC can show all agent's status in each skill.
- Verify supervisor can change agent status or move them to a different skill.

The serviceability testing focused on verifying the ability of Engelbart esuits² SPC Framework to recover from adverse conditions, such as disconnecting/reconnecting the Ethernet connections to the Engelbart esuits² SPC Framework server and to the agent desktop.

2.2. Test Results

All test cases were executed and verified successfully.

2.3. Support

Technical support on Engelbart esuits² SPC Framework can be obtained through the following:

Engelbart Software GmbH

Alpenstrasse 12

6300 Zug

Switzerland

Tel: +41 41 511 35 02

E-Mail: info@engelbart-software.com

Parkstrasse 40

88212 Ravensburg

Germany

Tel: +49 751 7642 4300

E-Mail: info@engelbart-software.com

NAQ; Reviewed: Solution SPOC 9/29/2022

3. Reference Configuration

The configuration used for the compliance testing is shown in **Figure 1**. The detailed administration of basic connectivity between Communication Manager and Application Enablement Services is not the focus of these Application Notes and will not be described. In the compliance testing, Engelbart esuits² SPC Framework monitored the agent station extensions shown in the table below.

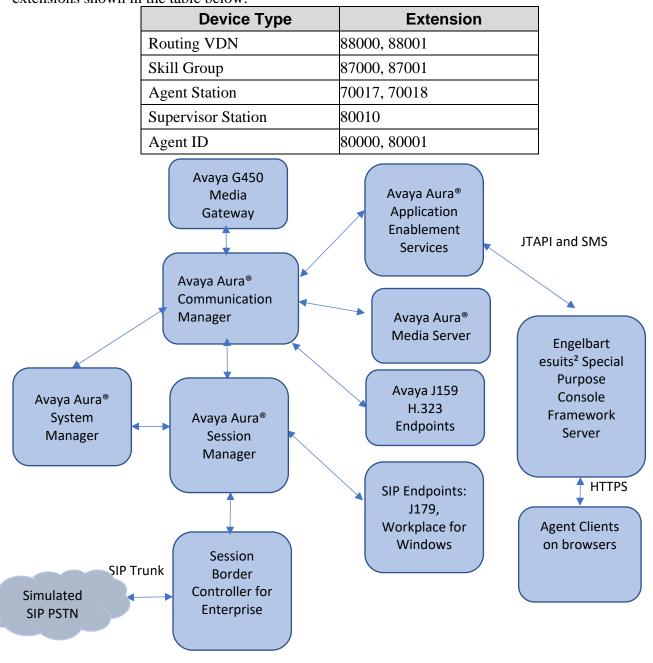


Figure 1: Compliance Testing Configuration

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	8.1.3.4.1014185
Avaya Aura® Session Manager in Virtual Environment	8.1.3.4.813401
Avaya Aura® Communication Manager in Virtual Environment	8.1.3.4 - 01.0.890.0-27348
Avaya G450 Media Gateway	41.34.1
Avaya Aura® Media Server in Virtual Environment	8.0 SP2
Avaya Aura® Application Enablement Services in Virtual Environment	8.1.3.4.0.2-0
Avaya Session Border Controller for Enterprise	8.1.3
Avaya Workplace Client for Windows	3.22.0
Avaya J179 IP Phone (SIP)	4.0.9
Avaya J159 IP Deskphone (H.323)	6.8.5
Engelbart esuits² Special Purpose Console (SPC) Framework - Avaya JTAPI Client	1.2.1 8.1.3

5. Configure Avaya Aura® Communication Manager

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

- Administer CTI link
- Administer Reason Codes
- Administer hunt group and agent
- Add new user on Communication Manager for SMS service

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

CTI Link

CTI Link: 1

Extension: 79999

Type: ADJ-IP

COR: 1

Name: aes95
```

5.2. Administer Reason Codes

For contact centers that use reason codes, enter the **change reason-code-names** command. Configure the **Aux Work** and **Logout** reason codes as desired. The compliance testing used the default values used by Engelbart esuits² Special Purpose Console (SPC) Framework, which are shown below.

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

5.3. Administer Hunt Group and Agent

This section shows the steps required to add a new service or skill on Communication Manager. Services are accessed by calling a Vector Directory Number (VDN), which points to a vector. The vector then points to a hunt group associated with an agent. The following sections give step by step instructions on how to add the following

- Hunt Group
- Agent

5.3.1. Add Hunt Group

To add a new skillset or hunt group type, **add hunt-group x**, where **x** is the new hunt group number. For example, hunt group **1** is added for the **Voice Service** queue. Ensure that **ACD**, **Queue** and **Vector** are all set to **y**. Also, that **Group Type** is set to **ucd-mia**.

```
add hunt-group 1
                                                                          Page
                                                                                 1 of 4
                                  HUNT GROUP
            Group Number: 1
                                                   ACD? y
             Group Name: VoiceService
                                                   Queue? y
                                                   Vector? y
        Group Extension: 87000
              Group Type: ucd-mia
                      TN: 1
                     COR: 1
                                                   MM Early Answer? n
          Security Code:
                                                   Local Agent Preference? n
ISDN/SIP Caller Display:
              Oueue Limit: unlimited
Calls Warning Threshold:
                              Port:
Time Warning Threshold:
                               Port:
```

On Page 2 ensure that Skill is set to y as shown below.

```
Add hunt-group 1

Skill? y

AAS? n

Measured: none
Supervisor Extension:

Controlling Adjunct:

Multiple Call Handling: none

Timed ACW Interval (sec):

After Xfer or Held Call Drops? n
```

5.3.2. Repeat this section to create hunt-group 2 with Group Extension 87001Add Agent

In the compliance testing, the agents 80000 and 80001 were created.

To add a new agent, type **add agent-loginID** x, where x is an available login id for the new agent.

```
add agent-loginID 80000
                                                                        1 of3
                                       Page
                                       AGENT LOGINID
                                                                      AAS? n
             Login ID: 80000
                 Name: Voice Agent
                                                                    AUDIX? n
                   TN: 1
                                       Check skill TNs to match agent TN? n
                  COR: 1
        Coverage Path:
                                                    LWC Reception: spe
        Security Code:
                                                  LWC Log External Calls? n
                                                 AUDIX Name for Messaging:
                                             LoginID for ISDN/SIP Display? n
                                                            Password: ****
                                               Password (enter again): ****
MWI Served User Type: sip-adjunct
                                                      Auto Answer: station
AUX Agent Remains in LOA Queue: system
                                                MIA Across Skills: system
AUX Agent Considered Idle (MIA): system ACW Agent Considered Idle: system
Work Mode on Login: system
                                         Aux Work Reason Code Type: system
                                         Logout Reason Code Type: system
Maximum time agent in ACW before logout (sec): system
                                       Forced Agent Logout Time:
WARNING: Agent must log in again before changes take effect
```

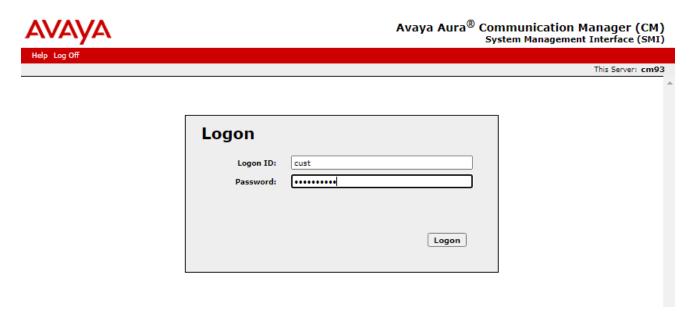
On **Page 2**, add the required skills. Note that the skill **1** and skill 2 are added to this agent so when a call for **Voice Service** is initiated, the call can be routed to this agent.

ado	add agent-loginID 80000 AGENT LOGINID					Page	2 of	3
Cai	Direct Agent Skill: Call Handling Preference: skill-level			Service Objective? n Local Call Preference? n				
	SN	RL SL	SN	RL SL	SN	RL SL	SN RL	SL
1:	1	1	16:		31:	46:		
2:	2	1	17:		32:	47:		
3 :			18:		33:	48:		
4:			19:		34:	49:		
5 :			20:		35:	50:		
6:			21:		36:	51:		
7:			22:		37:	52:		
8:			23:		38:	53:		
9:			24:		39:	54:		
10:			25:		40:	55 :		

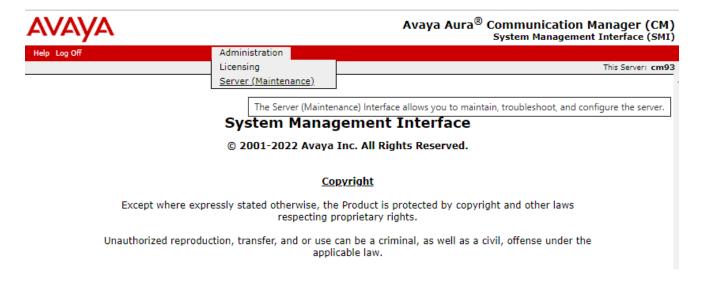
Repeat this section to add another agent **80001**.

5.4. Add new user on Communication Manager for SMS service

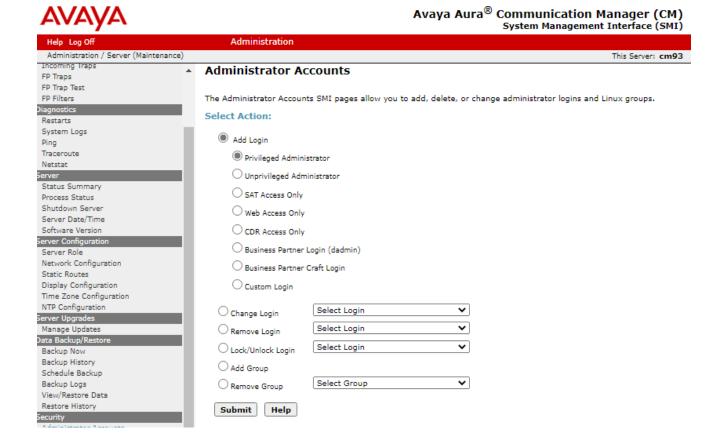
A new user for SMS service needs to be created on Communication Manager. Open a browser session to Communication Manager and log in as shown below. Enter the proper credentials and click on Logon



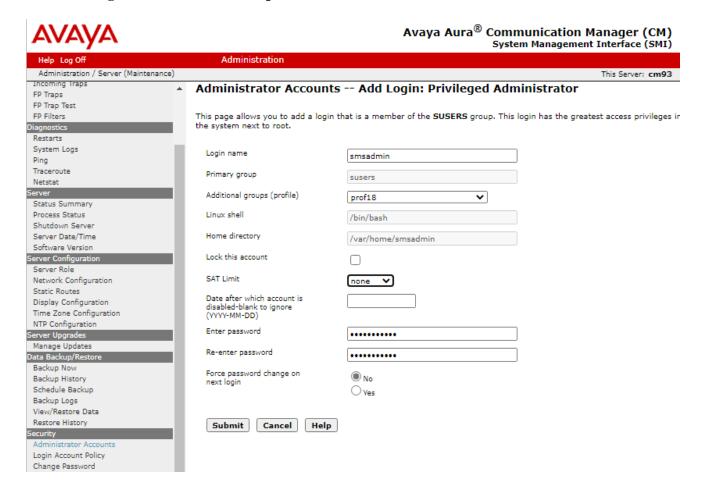
Once logged in click on **Administration** at the top of the page and select **Server (Maintenance)** from the drop-down menu.



Login, for the compliance testing **Privileged Administrator** was chosen to read and write to the fields in Communication Manager. Select **Submit** when done.



Enter the **Login name** and a suitable **password**. Click on **Submit** when done.



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 Engelbart user
- Administer security database
- Restart services
- Obtain Tlink name
- Configure SMS

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.



The **Welcome to OAM** screen is displayed next.



Management Console

Welcome: User cust

Last login: Wed Jul 20 15:13:05 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: 8.1.3.4.0.2-0

Server Date and Time: Fri Jul 29 18:49:40 ICT 2022

HA Status: Not Configured

Home Home | Help | Logout



Welcome to OAM

The AE Services Operations, Administration, and Management (OAM) Web provides you with tools for managing the AE Server. OAM spans the following administrative domains:

- AE Services Use AE Services to manage all AE Services that you are licensed to use on the AE Server.
- Communication Manager Interface Use Communication Manager Interface to manage switch connection and dialplan.
- . High Availability Use High Availability to manage AE Services HA.
- · Licensing Use Licensing to manage the license server.
- Maintenance Use Maintenance to manage the routine maintenance tasks.
- Networking Use Networking to manage the network interfaces and ports.
- Security Use Security to manage Linux user accounts, certificate, host authentication and authorization, configure Linux-PAM (Pluggable Authentication Modules for Linux) and so on.
- . Status Use Status to obtain server status informations.
- User Management Use User Management to manage AE Services users and AE Services user-related resources,
- · Utilities Use Utilities to carry out basic connectivity tests.
- . Help Use Help to obtain a few tips for using the OAM Help system

Depending on your business requirements, these administrative domains can be served by one administrator for all domains, or a separate administrator for each domain.

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).



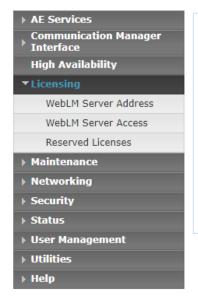
Management Console

Welcome: User cust Last login: Wed Jul 20 15:13:05 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: 8.1.3.4.0.2-0 Server Date and Time: Fri Jul 29 18:50:20 ICT 2022

HA Status: Not Configured

Licensing Home | Help | Logout



Licensing

If you are setting up and maintaining the WebLM, you need to use the following:

· WebLM Server Address

If you are importing, setting up and maintaining the license, you need to use the following:

· WebLM Server Access

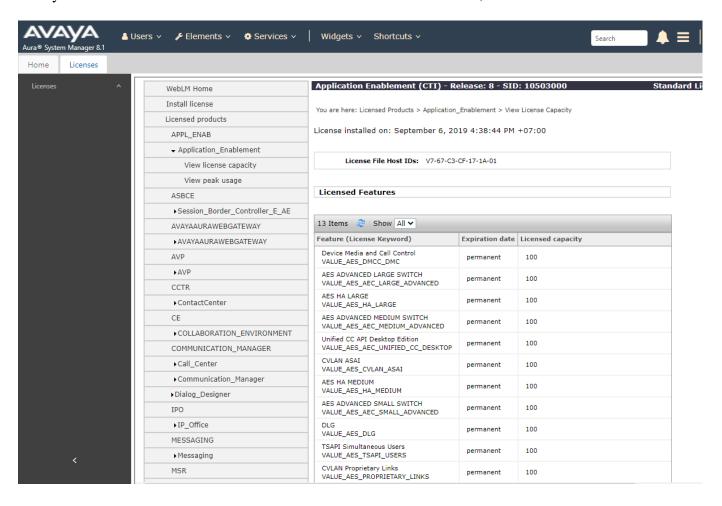
If you want to administer TSAPI Reserved Licenses or DMCC Reserved Licenses, you need to use the following:

Reserved Licenses

NOTE: Please disable your pop-up blocker if you are having difficulty with opening this page $\,$

Select Licensed products \rightarrow APPL_ENAB \rightarrow Application_Enablement in the left pane, to display the Licensed Features screen in the right pane.

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

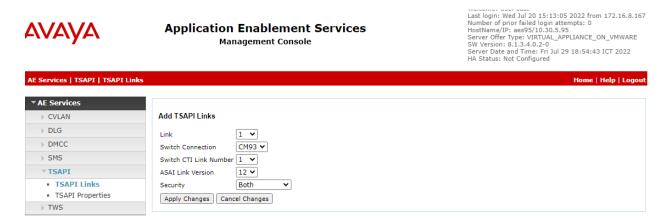


6.3. Administer TSAPI Link

Select **AE Services** → **TSAPI** → **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**.



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 5.2**. Retain the default values in the remaining fields.



6.4. Administer Engelbart 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.



Application Enablement Services Management Console

Welcome: User cust Last login: Fri Jun 24 11:40:32 2022 from 172.16.8.167 Number of prior failed login attempts: 1 HostName/IP: aes95/10.30.5.95 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.1.3.4.0.2-0

Server Date and Time: Mon Jun 27 16:38:34 ICT 2022 HA Status: Not Configured

User Management | User Admin | Add User Home | Help | Logout ▶ AE Services Communication Manager Interface Add User Fields marked with * can not be empty. **High Availability** * User Id engelbart **▶** Licensing * Common Name engelbart Maintenance * Surname engelbart ▶ Networking * User Password ▶ Security ••••• * Confirm Password Status Admin Note None ▼ User Management Avaya Role **Business Category** Service Admin Car License ▼ User Admin CM Home Add User Change User Password Css Home List All Users Yes 🕶 CT User Modify Default Users Department Number Search Users Display Name Utilities Employee Number ▶ Help Employee Type

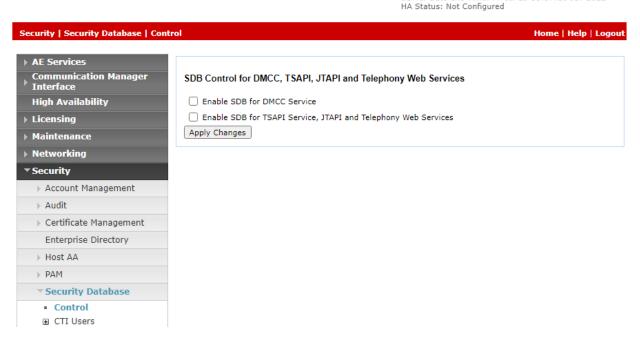
6.5. Administer Security Database

Select Security → Security Database → 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 Engelbart user from Section 6.4.



Welcome: User cust
Last login: Wed Jul 20 15:13:05 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: 8.1.3.4.0.2-0
Server Date and Time: Fri Jul 29 18:57:18 ICT 2022

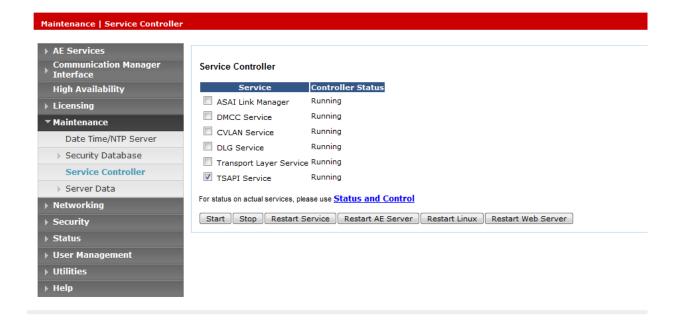


6.6. Restart Services

Select Maintenance → Service Controller from the left pane, to display the Service Controller screen in the right pane. Check TSAPI Service, and click Restart Service.



Application Enablement Services Management Console



6.7. Obtain Tlink Name

Select Security Security Database Tlinks from the left pane. The Tlinks screen shows a listing of the Tlink names. A new Tlink name is automatically generated for the TSAPI service. Locate the Tlink name associated with the relevant switch connection, which would use the name of the switch connection as part of the Tlink name. Make a note of the associated Tlink name, to be used later for configuring Engelbart esuits² SPC Framework.

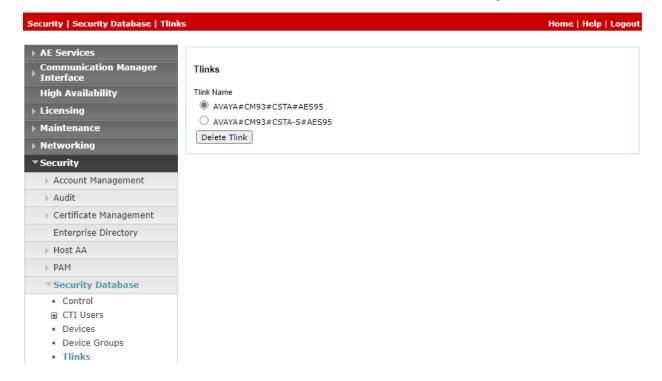
In this case, the associated Tlink name is **AVAYA#CM93#CSTA#AES95**. Note the use of the switch connection **CM93** from **Section 6.3** as part of the Tlink name.



Application Enablement Services

Management Console

Welcome: User cust
Last login: Wed Jul 20 15:13:05 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: 8.1.3.4.0.2-0
Server Date and Time: Fri Jul 29 18:58:58 ICT 2022
HA Status: Not Configured



6.8. Configure SMS

Select **AE Services** → **SMS** → **SMS Properties**. Configure all fields as in screenshot with **Default CM Host Address** using Communication Manager IP address, and **Default CM Admin Port** with 5022

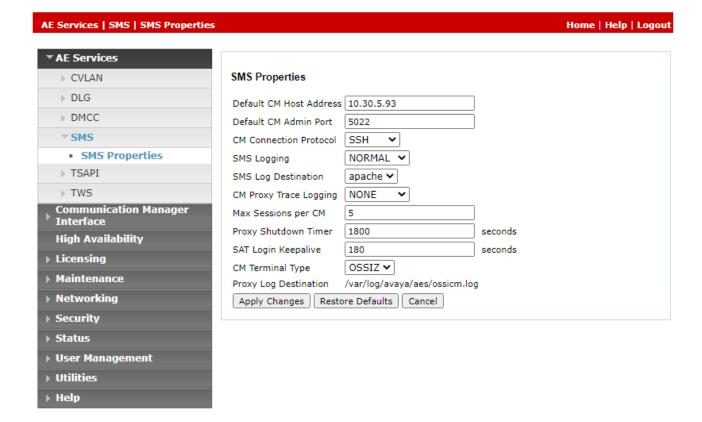


Management Console

Welcome: User cust Last login: Mon Aug 15 13:26:39 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: 8.1.3.4.0.2-0

HA Status: Not Configured

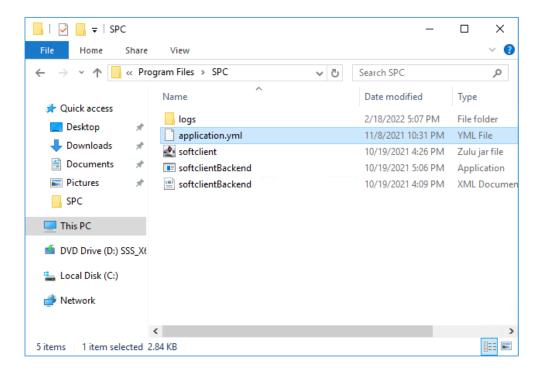
Server Date and Time: Wed Aug 31 18:59:48 ICT 2022



7. Configure Engelbart esuits² Special Purpose Console Framework

This section shows the steps required configuration for working with Application Enablement Services. All installation and basic configuration related to Engelbart esuits² SPC Framework is performed by to Engelbart engineers and, thus, is not documented.

From Engelbart esuits² SPC Framework Server, go to the SPC installation folder, i.e C:\Program Files\SPC.



Select **application.yml** file and edit. Scroll down and provide information for avaya jtapi and sms **jtapi:**

- **service-name**: Tlink name in **Session 6.7**
- user: The Engelbart user credentials from Section 6.4.
- password: The engelbart user credentials from Section 6.4.
- address: IP address of Application Enablement Services.

sms:

- **default-uri:** SMS URL with AES IP address.
- **username:** The smsadmin user credentials from **Section 5.5**.
- password: The smsadmin user credentials from Section 5.5.

```
avaya:
    jtapi:
        service-name: AVAYA#CM93#CSTA#AES95
        user: engelbart
        password:
        servers:
        - address: 10.30.5.95
            port: 450

sms:
        default-uri: https://10.30.5.95/smsxml/SystemManagementService.php
        username: smsadmin
        password:
```

8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Communication Manager, Application Enablement Services, and Engelbart esuits² SPC Framework.

8.1. Verify Avaya Aura® Communication Manager

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

```
Status aesvcs cti-link

AE SERVICES CTI LINK STATUS

CTI Version Mnt AE Services Service Msgs Msgs Link Busy Server State Sent Rcvd

1 12 no aes95 established 14 14
```

Enter the command **list agent-loginID** verify that agent **80000** and **80001** shown in **Section 5.3** is logged-in to extension **70017** and **70018**.

list agent-loginID									
	AGENT LOGINID								
Login ID	Name	Extensi	on Dir A	Agt AAS/A	AUD	COR	Ag Pr SO		
	Skil/Lv S	Skil/Lv Skil	/Lv Skil/Lv	Skil/Lv S	Skil/Lv :	Skil/Lv	/ Skil/Lv		
80000	Voice Ager	nt 70017				1	lvl		
	1/01	/	/ /	/	/	/			
80001	Voice Ager	nt1 70018				1	lvl		
	1/01	/	/ /	/	/	/			

8.2. Verify Avaya Aura® Application Enablement Services

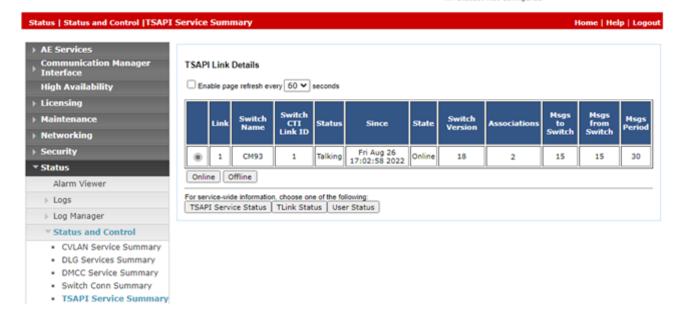
On Application Enablement Services, verify the status of the TSAPI link by selecting **Status Status and Control TSAPI Service Summary** from the left pane. The **TSAPI Link Details** screen is displayed.

Verify the **Status** is "Talking" for the TSAPI link administered in **Section 6.3**. and that the **Associations** column reflects the number of agents that are logged in.



Application Enablement Services Management Console

Welcome: User cust
Last login: Wed Aug 31 18:59:35 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: 8.1.3.4.0.2-0
Server Date and Time: Wed Aug 31 19:17:18 ICT 2022
HA Status: Not Configured

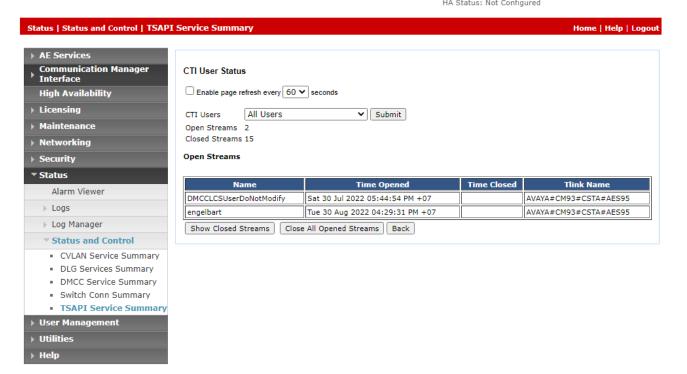


Verify the CTI user status by selecting Status → Status and Control → TSAPI Service Summary → User Status. The Open Streams section of this page displays open stream created by the engelbart user with the Tlink.



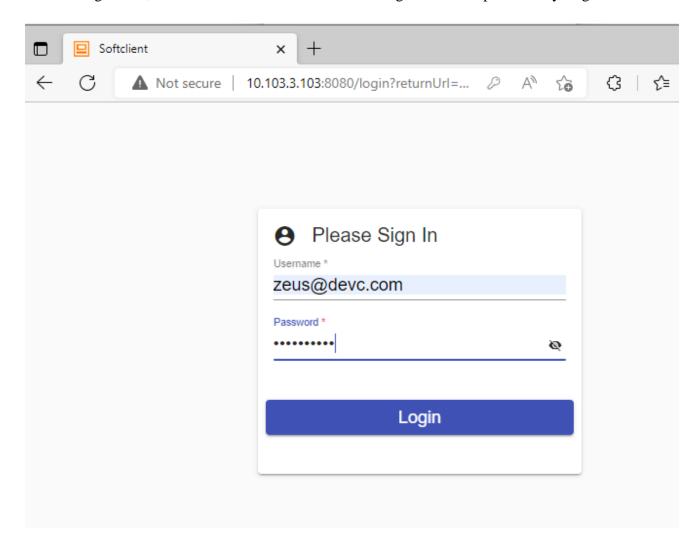
Application Enablement Services Management Console

Welcome: User cust Last login: Wed Aug 31 18:59:35 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: 8.1.3.4.0.2-0 Server Date and Time: Wed Aug 31 19:19:09 ICT 2022 HA Status: Not Configured

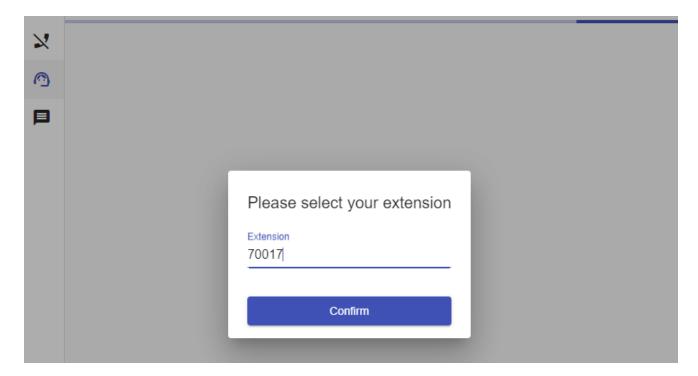


8.3. Verify Engelbart esuits² Special Purpose Console (SPC) Framework

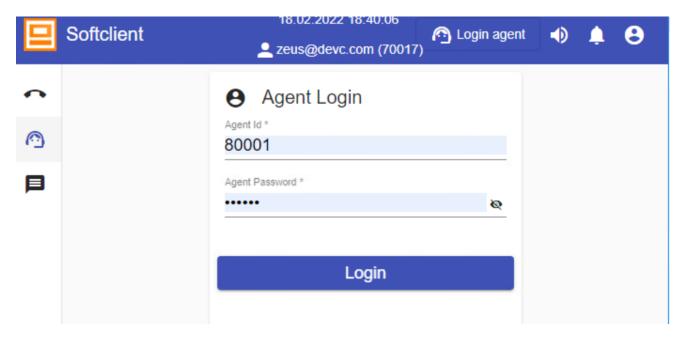
From the agent PC, launch the web-based interface and login with user provided by Engelbart.



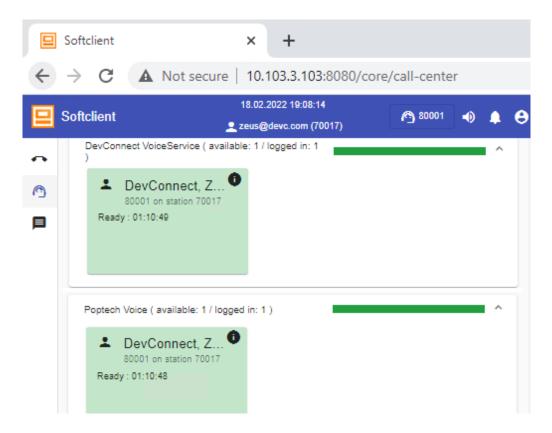
After logged in, enter relevant station extension from **Section 3**.



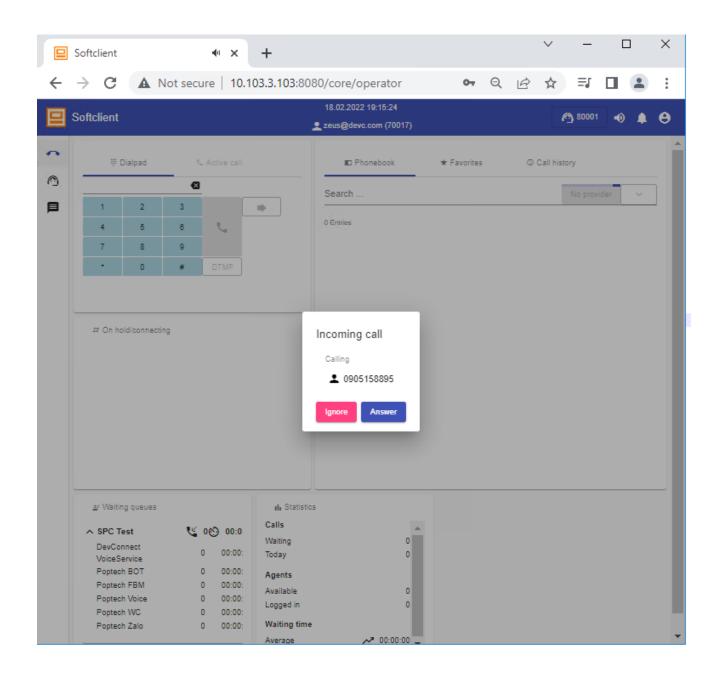
Press Login agent in top right and enter relevant agent ID and password from Section 3.



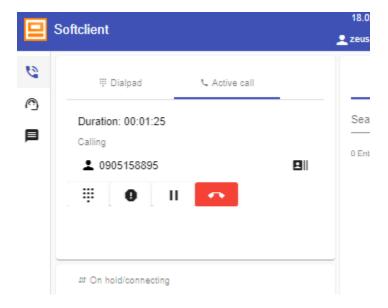
After login successfully Engelbart esuits² SPC Framework will show all skills assigned to agent in **Section 5.3.2**.



Make an incoming ACD call from the PSTN. Verify that the call is ringing at the available agent's telephone. Also verify that a pop-up box is displayed on the agent desktop with proper call information, as shown below.



Press **Answer** to accept the call. Verify that the agent is connected to the PSTN with two-way talk path, and that the agent screen is updated with line as shown below.



9. Conclusion

These Application Notes describe the configuration steps required for the Engelbart esuits² Special Purpose Console Framework 1.2.1 to successfully interoperate with Avaya Aura® Communication Manager 8.1.3.4 and Avaya Aura® Application Enablement Services 8.1.3.4. All feature and serviceability test cases were completed without any observations.

10. Additional References

This section references the Avaya and Engelbart esuits² SPC Framework product documentation that are relevant to these Application Notes.

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

- 1. Administering Avaya Aura® Communication Manager, Release 8.1.x, Issue 12, July 2021
- 2. Administering Avaya Aura® Session Manager, Release 8.1.x, Issue 10, Sept 2021
- 3. Administering Avaya Aura® System Manager, Release 8.1.x, Issue 17, Nov 2021
- 4. Administering Avaya Aura® Application Enablement Services, Release 8.1.x, Issue 12, Oct 2021

Product Documentation for Engelbart products may be found at https://www.engelbart-software.com/

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