

Avaya Solution & Interoperability Test Lab

# Application Notes for CCT ContactPro® 5.2 for Breeze Client SDK 4.1 with Avaya Aura® Session Manager R8, and Avaya Aura® Application Enablement Services R8 - Issue 1.2

## Abstract

These Application Notes describe the configuration steps required for CCT ContactPro® to interoperate with Avaya Aura® Session Manager and Avaya Aura® Application Enablement Services.

CCT ContactPro® is an interaction management application that connects to both Avaya Aura® Session Manager and 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 CCT ContactPro® to interoperate with Avaya Session Manager R8, Avaya Aura® Communication Manager R8 and Aura® Application Enablement Services R8. CCT ContactPro® offers a variety of integrations in an Avaya call center environment supporting different Avaya platforms for multimedia agents as well as for voice only agents. CCT ContactPro® is a solution for agent desktops in an Avaya call center environment focused on voice and multimedia such as email and webchat. CCT ContactPro® can be installed with enabled Presence Services and integrated customer data and empowers agents to efficiently serve customers by allowing agents to have full call control from the agent's screen. CCT ContactPro® is an interaction management application which integrated with Breeze Client SDK 4.1 for SIP voice call control and audio to register as SIP endpoints with Avaya Aura® Session Manager.

# 2. General Test Approach and Test Results

The general test approach was to validate successful handling of inbound skillset/VDN calls using CCT ContactPro®. This was performed by calling inbound to a VDN or outbound from the elite call center using CCT ContactPro®. Where applicable, agent actions were performed using the CCT ContactPro® Agent client.

CCT ContactPro® software is installed on each client PC utilised by an agent. A configuration file on this software points to a database for all further configuration.

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 this Application Note, the interface between Avaya systems and CCT ContactPro® Client used TLS as a security feature.

## 2.1. Interoperability Compliance Testing

The testing focused on the following areas:

- Agent state change- Login, Ready/Not Ready using CCT ContactPro® Agent.
- Inbound Calls Answer calls using CCT ContactPro® Agent.
- Outbound Calls Make calls using CCT ContactPro® Agent.
- Hold/Transfer/Conference Place callers on hold and transfer and conference using CCT ContactPro® Agent.
- **Failover Testing** Verify the ability of CCT ContactPro® Agent to recover from disconnection and reconnection to the Avaya solution.

## **2.2. Test Results**

All test cases passed successfully. The following observations were noted.

- Blind Conference is not supported on CCT ContactPro®.
- CCT ContactPro® does not have log out button.

### 2.3. Support

Support for CCT products can be obtained as follows:

#### WEBSITE

www.cct-solutions.com

#### CONTACT

Phone: +49 69 7191 4969 0 Email: contact@cct-solutions.com

#### SUPPORT

Hotline: +49 821 455152 455 Email: helpdesk@cct-solutions.com

#### **CCT Deutschland GmbH**

Street Tilsterstrasse 1 ZIP 60487 Frankfurt am Main Germany Phone +49 69 7191 4969 0 Fax +49 69 7191 4969 666

Street Werner-von-Siemens-Strasse 6 ZIP 86159 Augsburg Germany Phone +49 821 455 152 700 Fax +49 821 455 152 777

### **CCT Europe GmbH**

Street Sumpfstrasse 26 ZIP 6312 Steinhausen Switzerland Phone. +41 41 748 42 22 Fax +41 41 748 42 23

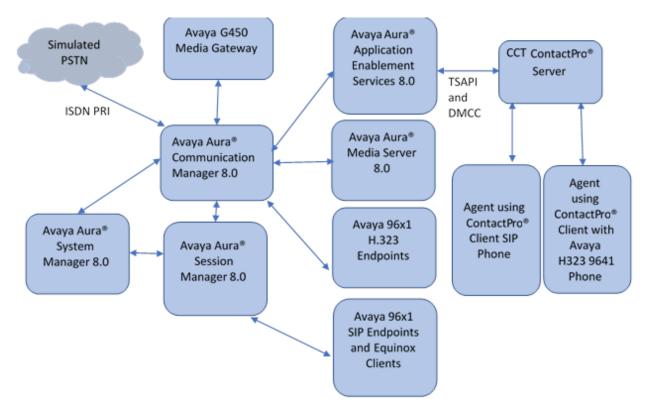
#### **CCT Software LLC**

1801 N.E. 123rd Street, Suite 314 North Miami, 33181 FL United States of America Phone. +1 844 720 3897

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# 3. Reference Configuration

The configuration in **Figure 1** will be used to compliance test ContactPro® with Avaya Aura® Session Manager and Avaya Aura® AES and Avaya Aura® Communication Manager.



- ContactPro® Client to AES Server: AES Third Party Call Control (TSAPI) for Call Control Note 1: Traditional TSPAI Client is not required on the client because it uses CSTA3
- XML version of the TSAPI Protocol which is tunneled through DMCC by AES SDK
  ContactPro® Client to ContactPro® Server: SQL Database Connection to ContactPro® Databases

Figure 1: Connection of CCT Deutschland GmbH ContactPro® with Avaya Aura® Session Manager and Avaya Aura® Application Enablement Services

# 4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® Communication Manager in Virtual Environment	8.0.1.0.0 (8.0 FP1)
Avaya G450 Media Gateway	40.10.1
Avaya Aura® Media Server in Virtual Environment	8.0 SP2
Avaya Aura® Application Enablement Services in Virtual Environment	8.0.1
Avaya Aura® Session Manager	8.0.1
Avaya 9608G & 9641G IP Deskphone (H.323)	6.8
Breeze Client SDK	4.1
CCT Deutschland GmbH ContactPro®	R5.2.0.681
CCT Deutschland GmbH ContactPro® Client Agent Desktop	R5.2.0.447

## 5. Configure Avaya Aura® Communication Manager

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

- Verify license
- Administer CTI link
- Administer vectors and VDNs

## 5.1. Verify License

Log into the System Access Terminal to verify that the Communication Manager license has proper permissions for features illustrated in these Application Notes. Use the "display systemparameters customer-options" command to verify that the **Computer Telephony Adjunct Links** customer option is set to "y" on **Page 4**. If this option is not set to "y", then contact the Avaya sales team or business partner for a proper license file.

```
4 of 12
display system-parameters customer-options
                                                                     Page
                                  OPTIONAL FEATURES
    Abbreviated Dialing Enhanced List? yAudible Message Waiting? yAccess Security Gateway (ASG)? nAuthorization Codes? yAnalog Trunk Incoming Call ID? yCAS Branch? n
 A/D Grp/Sys List Dialing Start at 01? y
                                                                        CAS Main? n
Answer Supervision by Call Classifier? y
                                                              Change COR by FAC? n
                                     ARS? y
                                              Computer Telephony Adjunct Links? y
                  ARS/AAR Partitioning? y
                                              Cvg Of Calls Redirected Off-net? y
           ARS/AAR Dialing without FAC? y
                                                                   DCS (Basic)? y
                                                             DCS Call Coverage? y
           ASAI Link Core Capabilities? y
           ASAI Link Plus Capabilities? y
                                                            DCS with Rerouting? y
        Async. Transfer Mode (ATM) PNC? n
  Async. Transfer Mode (ATM) Trunking? n Digital Loss Plan Modification? y
               ATM WAN Spare Processor? n
                                                                        DS1 MSP? y
                                   ATMS? y
                                                        DS1 Echo Cancellation? y
                    Attendant Vectoring? y
              (NOTE: You must logoff & login to effect the permission changes.)
```

Navigate to Page 7 and verify that the Vectoring (Basic) customer option is set to "y".

```
display system-parameters customer-options
                                                               Page
                                                                        7 of 12
                        CALL CENTER OPTIONAL FEATURES
                         Call Center Release: 7.0
                                                                Reason Codes? v
                               ACD? v
                       BCMS (Basic)? y
                                                     Service Level Maximizer? n
         BCMS/VuStats Service Level? y
                                                  Service Observing (Basic)? y
                                           Service Observing (Remote/By FAC)? y
  BSR Local Treatment for IP & ISDN? y
                 Business Advocate? n
                                                   Service Observing (VDNs)? y
                                                                   Timed ACW? y
                   Call Work Codes? y
      DTMF Feedback Signals For VRU? y
                                                           Vectoring (Basic)? y
                  Dynamic Advocate? n
                                                       Vectoring (Prompting)? y
       Expert Agent Selection (EAS)? y
                                                   Vectoring (G3V4 Enhanced)? y
                            EAS-PHD? y
                                                    Vectoring (3.0 Enhanced)? y
```

## 5.2. 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
CTI Link: 1
Extension: 79999
Type: ADJ-IP
COR: 1
Name: aes8
```

## 5.3. Administer Vector and VDN

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

- VDN
- Hunt Group
- Vector
- Agent

## 5.3.1. Add VDN

To add a VDN type **add vdn x**, where x is a VDN number. Enter a suitable name for example the **VDN 87100** below will be used for the queue.

add vdn 87100		Dago	1 of	2
	MODY NUMPER	Page	I OI	2
VECTOR DIREC	TORI NUMBER			
Extension:	87100			
	Voice Service			
Destination:	Vector Number	100		
Attendant Vectoring?	n			
Meet-me Conferencing?	n			
Allow VDN Override?	n			
COR:	1			
TN*	1			
Measured:	none			
VDN of Origin Annc. Extension*:				
1st Skill*:				
2nd Skill*:				
* Follows VDN Override Rules				

### 5.3.2. 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 **100** 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 2		Page	3	1 of	4	
	HUNT (	GROUP				
Group Number:	2	ACD?	У			
Group Name:	Voice Service	Queue?	У			
Group Extension:	88100	Vector?	У			
Group Type:	ucd-mia					
TN:	1					
COR:	1	MM Early Answer?	n			
Security Code:		Local Agent Preference?	n			
ISDN/SIP Caller Display:						
Queue Limit:	unlimited					
Calls Warning Threshold:	Port:					
Time Warning Threshold:	Port:					

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

HUNT GROUP	Page 2 of 4
<pre>Y Expected Call Handling Time n</pre>	(sec): 180
none	
lone	
After Xfer or Held Call Drop	s? n
	<pre>g Expected Call Handling Time hone</pre>

### 5.3.3. Add Vector

To administer the vector used by the VDN in Section 5.3.1, type change vector  $\mathbf{x}$  where  $\mathbf{x}$  is the vector number. The example below shows the call queuing to skill or hunt group 100 (queue-to skill 100).

```
Page 1 of
change vector 100
                                                                                          6
                                       CALL VECTOR
    Number:100
                                Name: Voice Service
Multimedia? n Attendant Vectoring? n Meet-me Conf? n
                                                                                   Lock? n
     Basic?y EAS? y G3V4 Enhanced? y ANI/II-Digits? y ASAI Routing? y
  Prompting?y LAI? y G3V4 Adv Route? y CINFO? y BSR? y Holidays? y
 Variables?y 3.0 Enhanced? y
01 adjunct routing link 1
02 wait-time 2 secs hearing silence
03 queue-to skill 2 pri m
04 wait-time 10 secs hearing ringback
05 queue-to skill 2 pri m
06 wait-time 10 secs hearing ringback
07 disconnect after announcement none
08
09
```

## 5.3.4. Add Agent

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

```
add agent-loginID 80000
                                                           Page 1 of
                                                                       3
                               AGENT LOGINID
        Login ID: 80000
                                                              AAS? n
            Name: Voice Agent
                                                            AUDIX? n
              TN: 1
                                Check skill TNs to match agent TN? n
             COR: 1
   Coverage Path:
                                                    LWC Reception: spe
                                           LWC Log External Calls? n
   Security Code:
                                         AUDIX Name for Messaging:
                                     LoginID for ISDN/SIP Display? n
                                                         Password:
                                            Password (enter again):
                                                     Auto Answer: station
                                                MIA Across Skills: system
                                        ACW Agent Considered Idle: 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 **2** is added to this agent so when a call for "Voice Service" is initiated, the call is routed correctly to this agent.

add agen	t-loginID	80000			Pa	ge 2	<b>2</b> of	3
			AGENT	LOGINID				
	irect Agen					-	jective?	
Call Han	dling Pref	erence: ski	ill-level		Local Call	l Pref	ference?	n
CN		CN	DI CI	CN	DI CI	CN	DT CT	
SN	RL SL	SN	RL SL	SN	RL SL	SN	RL SL	
1:2	1	16:		31:		6:		
2:		17:		32:	4	7:		
3:		18:		33:	48	8:		
4:		19:		34:	4.9	9:		
5:		20:		35:	50	0:		
6:		21:		36:	51	1:		
7:		22:		37:	52	2:		
8:		23:		38:	53	3:		
9:		24:		39:	54	4:		
10:		25:		40:	55	5 <b>:</b>		
11:		26:		41:	5	6:		
12:		27:		42:	5	7:		
13:		28:		43:	58	8:		
14:		29:		44:	59	9:		
15:		30:		45:	60	0:		

## 6. Configure Avaya Aura® Application Enablement Services

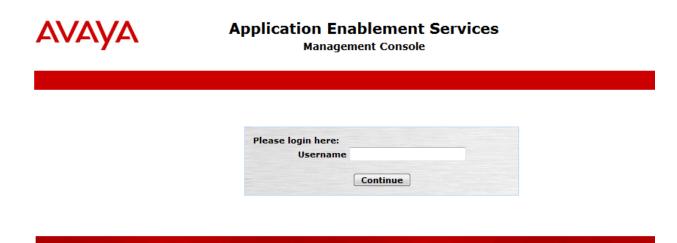
This section provides the procedures for configuring Application Enablement Services. The procedures include the following areas:

- Launch OAM interface
- Verify license
- Administer TSAPI link
- Administer H.323 gatekeeper
- Administer CCT user
- Administer security database
- Administer ports
- Administer TCP settings
- Restart services
- Obtain Tlink name

#### **6.1. Launch OAM Interface**

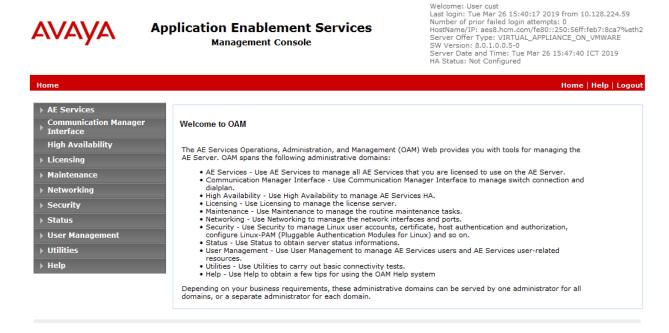
Access the OAM web-based interface by using the URL "https://ip-address" in an Internet browser window, where "ip-address" is the IP address of the Application Enablement Services server.

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



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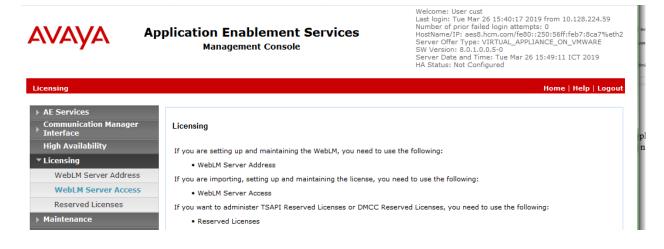
The Welcome to OAM screen is displayed next.



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#### 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.

Verify that there are sufficient licenses for **TSAPI Simultaneous Users and Device Media and Call Control**, as shown below. The TSAPI license is used for device monitoring and the DMCC license is used for the virtual IP softphones. Also verify that there is an applicable advanced switch license, in this case **AES ADVANCED LARGE SWITCH**, which is needed for adjunct routing.

ome Licenses				
icenses ^		You are here: Licensed Products > Application	n_Enablement > Vie	w License Capacity
	Licensed products	License installed on: December 28, 201	3 11·22·53 ΔM +(	07.00
	APPL_ENAB			
	Application_Enablement	License File Host IDs: V0-55-3B-	22-84-26-01	
	View license capacity	License File Host IDS: V0-55-56-	33-84-26-01	
	View peak usage			
	CE	Licensed Features		
	COLLABORATION_ENVIRONMENT			
	COLLABORATION_DESIGNER	13 Items 🖓 Show All 💌		
	Collaboration_Designer	Feature (License Keyword)	Expiration date	Licensed capacity
	MESSAGING	Device Media and Call Control VALUE_AES_DMCC_DMC	permanent	1000
	▶ Messaging	AES ADVANCED LARGE SWITCH VALUE_AES_AEC_LARGE_ADVANCED	permanent	1000
	MSR	AES HA LARGE	permanent	1000
		VALUE_AES_HA_LARGE	,	
	SYSTEM_MANAGER	AES ADVANCED MEDIUM SWITCH VALUE_AES_AEC_MEDIUM_ADVANCED	permanent	1000
	System_Manager	Unified CC API Desktop Edition VALUE_AES_AEC_UNIFIED_CC_DESKTOP	permanent	1000
	► SessionManager	CVLAN ASAI VALUE_AES_CVLAN_ASAI	permanent	1000
	Uninstall license	AES HA MEDIUM VALUE_AES_HA_MEDIUM	permanent	1000
	Server properties	AES ADVANCED SMALL SWITCH	permanent	1000
	Shortcuts	VALUE_AES_AEC_SMALL_ADVANCED		
	Help for Licensed products	VALUE_AES_DLG	permanent	1000
		TSAPI Simultaneous Users VALUE_AES_TSAPI_USERS	permanent	1000
<		CVLAN Proprietary Links VALUE_AES_PROPRIETARY_LINKS	permanent	1000

## 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.

avaya	Application Enablement Services Management Console	Welcome: User cust Last login: Mon Mar 25 17:38:53 2019 from 10.128.224.59 Number of prior failed login attempts: 0 HostName/IP: aes8.hcm.com/fe80::250:56ff:feb7:8ca7%eth2 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.0.1.0.0.5-0 Server Date and Time: Mon Mar 25 17:49:07 ICT 2019 HA Status: Not Configured
AE Services   TSAPI   TS	API Links	Home   Help   Logout
▼ AE Services		
> CVLAN	TSAPI Links	
▶ DLG	Link Switch Connection S	vitch CTI Link # ASAI Link Version Security
► DMCC	Add Link Edit Link Delete Link	
► SMS		
TSAPI		
<ul> <li>TSAPI Links</li> </ul>		
<ul> <li>TSAPI Properties</li> </ul>		

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 "CM8" is selected. For **Switch CTI Link Number**, select the CTI link number from **Section 5.2**. Retain the default values in the remaining fields.

AVAYA	Application Enablement Services Management Console	Welcome: User cust Last login: Mon Mar 25 17:38:53 2019 from 10.128.224.59 Number of prior failed login attempts: 0 HostName/IP: aes8.hcm.com/fe80::250:56ff:feb7:8ca7%eth2 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.0.1.0.0.5-0 Server Date and Time: Mon Mar 25 17:58:54 ICT 2019 HA Status: Not Configured
AE Services   TSAPI   TSA	PI Links	Home   Help   Logo
AE Services     CVLAN     DLG     DMCC     SMS     TSAPI     TSAPI Links     TSAPI Properties     FWS	Add TSAPI Links Link 1 - Switch Connection CM8 - Switch CTI Link Number 1 - ASAI Link Version 9 - Security Unencrypted - Apply Changes Cancel Changes	



Application Enablement Services Management Console Number of prior failed login attempts: 0 HostName/IP: aes95.hcm.com/fe80::250:56ff:feb7:8ca7%eth2 Server Offer Type: VIRTUAL\_APPLIANCE\_ON\_VMWARE SW Version: 8.0.1.0.0.5-0 Server Date and Time: Mon Mar 25 18:01:53 ICT 2019 HA Status: Not Configured

			HA Status: Not	Configured	
Communication Manager Interfac	e   Switch Connections			Home   Help   Log	out
<ul> <li>AE Services</li> <li>Communication Manager Interface</li> <li>Switch Connections</li> </ul>	Switch Connections	Add Connection			
Dial Plan	Connection Name	Processor Ethernet	Msg Period	Number of Active Connections	
High Availability	CM8	Yes	30 1		
► Licensing	Edit Connection Edit PE	/CLAN IPs Edit H.323 Gateke	eper Delete Connec	tion Survivability Hierarchy	-
Maintenance		,	,		
	pplication Enable Management		Number HostNam Server O SW Vers Server D	<ol> <li>Mon Mar 25 17:38:53 2019 from 10.128.</li> <li>of prior failed login attempts: 0</li> <li>e/IP: aes8.hcm.com/fe80::250:56ff:feb7:8</li> <li>ffer Type: VIRTUAL_APPLIANCE_ON_VMW.</li> <li>ion: 8.0.10.0.5-0</li> <li>late and Time: Mon Mar 25 18:01:53 ICT 20</li> <li>s: Not Configured</li> </ol>	ca7%eth ARE
Communication Manager Interfa	ace   Switch Connections			Home   Hel	p   Logo
AE Services     Communication Manager     Interface     Switch Connections	Switch Connections	Add Connection			
Dial Plan	Connection Name	Processor Ethernet	t Msg Period	Number of Active Connection	s
High Availability	CM8	Yes	30	1	
▶ Licensing	Edit Connection Edit	PE/CLAN IPs Edit H.323 G	atekeeper Delete C	onnection Survivability Hierarchy	
Maintenance					
▶ Networking					
	_				

The **Edit H.323 Gatekeeper** screen is displayed next. Enter the IP address of a C-LAN circuit pack or the Processor C-LAN on Communication Manager to use as the H.323 gatekeeper, in this case "10.30.5.93" as shown below. Click **Add Name or IP**.



## 6.5. Administer CCT 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.

	oplication Enal Manageme	blement Servi ent Console	ces	Welcome: User cust Last login: Mon Mar 25 17:38:53 2019 from 10.128.224.59 Number of prior failed login attempts: 0 HostName/IP: aes8.hcm.com/fe80::250:55ff:feb7:8ca7%eth2 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.0.1.0.0.5-0 Server Date and Time: Mon Mar 25 18:10:58 ICT 2019 HA Status: Not Configured
User Management   User Admir	ı   Add User			Home   Help   Logout
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> <li>High Availability</li> <li>Licensing</li> <li>Maintenance</li> <li>Networking</li> <li>Security</li> <li>Status</li> <li>User Management</li> <li>Service Admin</li> <li>Add User</li> <li>Change User Password</li> <li>List All Users</li> <li>Modify Default Users</li> <li>Search Users</li> <li>Utilities</li> <li>Help</li> </ul>	Add User Fields marked with * can r * User Id * Common Name * User Password * Confirm Password Admin Note Avaya Role Business Category Car License CM Home Css Home CT User Department Number Display Name Employee Number Employee Type Enterprise Handle	Not be empty.		

## 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 CCT user from **Section 6.5**.

avaya	Application Enablement Services Management Console	Welcome: User cust Last login: Mon Mar 25 17:43:45 2019 from 10.128.224.59 Number of prior failed login attempts: 0 HostName/IP: aes8.hcm.com/fe80::250:56ff:feb7:8ca7%eth2 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.0.10.0.5-0 Server Date and Time: Mon Mar 25 18:29:44 ICT 2019 HA Status: Not Configured
Security   Security Databas	e   Control	Home   Help   Logout
<ul> <li>AE Services</li> <li>Communication Manage</li> <li>Interface</li> </ul>	SDB Control for DMCC, TSAPI, JTAPI and Telephony V	Neb Services
High Availability	Enable SDB for DMCC Service	
▶ Licensing	Enable SDB for TSAPI Service, JTAPI and Telephony V	Veb Services
▶ Maintenance	Apply Changes	
> Networking		
▼ Security		
Account Management		
▶ Audit		
Certificate Manageme	nt	
Enterprise Directory		
Host AA		
► PAM		
Security Database		
<ul> <li>Control</li> </ul>		

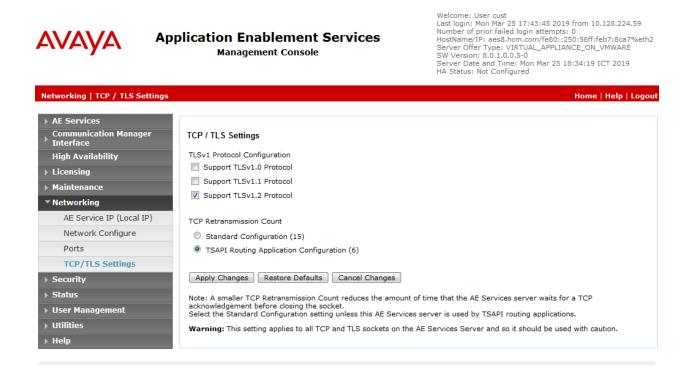
### 6.7. Administer Ports

Select **Networking**  $\rightarrow$  **Ports** from the left pane, to display the **Ports** screen in the right pane. In the **DMCC Server Ports** section, select the radio button for **Unencrypted Port** under the **Enabled** column, as shown below. Retain the default values in the remaining fields.

Networking (Ports       Enabled Disabled         * AE Services       CULAN Ports       Enabled Disabled         * High Availability       Unencrypted TCP Port       9999 <ul> <li>•</li> <li>•</li> <li>• Licensing</li> <li>• Maintenance</li> <li>• Networking</li> <li>DLG Port</li> <li>TCP Port</li> <li>• Security</li> <li>• Status</li> <li>• Status</li> <li>• Utencrypted TCP Port</li> <li>• Status</li> <li>• User Management</li> <li>• Utilities</li> <li>• Help</li> <li>• DMCC Server Ports</li> <li>CP Port Min</li> <li>TCP Port Max</li> <li>1006</li> <li>• CP Port Min</li> <li>1050</li> <li>• CP Port Min</li> <li>1055</li> <li>• CP Port Min</li> <li>1065</li> <li>• CP Port Min</li> <li>1065</li> <li>• CP Port Min</li> <li>1065</li> <li>• CP Port Max</li> <li>1081</li> <li>DMCC Server Ports</li> <li>• Enabled Disabled</li> <li>• • • • • • • • • • • • • • • • • • •</li></ul>	AVAYA 4	Application Enal Manageme	blement Servic ent Console	es	Number of prior failed	l login attem cm.com/fe80 (RTUAL_APPL ).5-0 a: Mon Mar 2	::250:56ff:feb7:8ca7%eth2 ! IANCE_ON_VMWARE
Communication Manager   High Availability   Licensing   Maintenance   Networking   AE Service IP (Local IP)   Network Configure   Ports   TCP/TLS Settings   Security   Status   User Management   Utilities   Help      Method C Server Ports   COP Port Max   1005   TCP Port Max   1006   TCP Port Max   1001	Networking  Ports						Home   Help   Logout
I Licensing   Maintenance   Networking   DLG Port   TCP/TLS Settings   Security   Security   Unencrypted TLNK Ports   TCP/TLS Settings   Unencrypted TLNK Ports   TCP Port Max   1059   TCP Port Max   1066   TCP Port Max   1081   DMCC Server Ports   Enabled Disabled   DMCC Server Ports   TCP Port Max   1081   DMCC Server Ports   Encrypted Port   4721   ©   TR/87 Port   4722   ©   H.323 Ports   TCP Port Max   Local UDP Port Max   20000   Local UDP Port Max   20000	Communication Manager Interface						
> Holensong   > Maintenance   < Networking	High Availability	CVLAN Ports					
Vetworking         AE Service IP (Local IP)         Network Configure         Ports         TCP/TLS Settings         > Security         Status         Unearcypted TLINK Ports         TCP Port Min         TCP Port Max         Incrypted TLINK Ports         TCP Port Max         TCP Port Max         IDBE         DMCC Server Ports         Encrypted Port         TR/87 Port         4723         Incrypted Port         TCP Port Max         DMCC Server Ports         Encrypted Port         TR/87 Port         4723         Incrypted Port         TCP Port Max         Disabled         Incrypted Port         TCP Port Max         DPORT         TCP Port Max         DPORT         TCP Port Max	▶ Licensing		Unencrypted TCP Port	9999	۲	$\odot$	
AE Service IP (Local IP)       DLG Port       TCP Port       5678         Network Configure       Ports       Enabled Disabled         TCP/TLS Settings       TSAPI Service Port       450       Image: Content of Content	▶ Maintenance		Encrypted TCP Port	9998	۲	$\odot$	
Network Configure TSAPI Ports Enabled Disabled   Ports Local TLINK Ports ICP Port Min 1024   TCP Port Min 1024 TCP Port Min 1039   Unencrypted TLINK Ports TCP Port Min 1050   Y Utilities TCP Port Min 1065   Help DMCC Server Ports Enabled Disabled   DMCC Server Ports Encrypted TLINK Ports   TCP Port Max 1081   TCP Port Max 1081   DMCC Server Ports Encrypted Port   Local TLINK Ports Incrypted Port   TCP Port Max 1081   TCP Port Max 1081   DMCC Server Ports Encrypted Port   Local TLINK Ports Incrypted Port   TCP Port Max 1081   TCP Port Max 1081   TCP Port Max 1081   DMCC Server Ports Encrypted Port   H.323 Ports Incrypted Port   TCP Port Min 20000	_	DLG Port	TCP Port	5678			
Ports TSAPI Service Port 450 Image: Construint of the service Port Min service Port Min service Port Min service Port Max   > Status TCP Port Max 1039   > User Management TCP Port Max 1050   > Utilities TCP Port Max 1065   > Help TCP Port Max 1065   TCP Port Max 1065   TCP Port Max 1065   TCP Port Max 1065   TCP Port Max 1081   PMCC Server Ports   Enabled Disabled   Unencrypted Port 4721   Image: Ima		TSAPI Ports			Enabled	Disabled	
TCP/TLS Settings       Local TLINK Ports         TCP Port Min       1024         TCP Port Max       1039         User Management       TCP Port Max         Utilities       TCP Port Max         Help       TCP Port Min         DMCC Server Ports       Enabled Disabled         Unencrypted Port       4721         Encrypted Port       4722         Encrypted Port       4723         TR/87 Port       0000         TCP Port Max       29999         Local UDP Port Max       29999			TSAPI Service Port	450	۲	$\odot$	
Security       TCP Port Min       1024         Status       TCP Port Max       1039         User Management       TCP Port Max       1065         Utilities       Encrypted TLINK Ports         TCP Port Max       1066         TCP Port Max       1081         DMCC Server Ports       Enabled Disabled         Unencrypted Port       4721       Image: Comparison of the temperature of temperature			Local TLINK Ports				
Status       Unencrypted TLINK Ports         > User Management       TCP Port Min         > Utilities       Encrypted TLINK Ports         > Help       TCP Port Max         TCP Port Max       1065         TCP Port Max       1066         TCP Port Max       1081         DMCC Server Ports       Enabled Disabled         Encrypted Port       4721       Image: Im							
> Status   > User Management   > Utilities   > Utilities   > Help     TCP Port Max   1066   TCP Port Max   1081     DMCC Server Ports   Enabled Disabled   Unencrypted Port   4721   Image:				1039			
> Utilities     > Help     TCP Port Max     TCP Port Min   TCP Port Min   TCP Port Max     DMCC Server Ports   Enabled Disabled Unencrypted Port    Unencrypted Port   4721   Image: Comparison of the server ports     Enabled Disabled     Unencrypted Port   4722   Image: Comparison of the server ports     Image: Comparison of the server ports   Image: Comparison of the server ports   Image: Comparison of the server ports   Image: Comparison of the server ports     Image: Comparison of the server ports   Image: Comparison of the server ports   Image: Comparison of the server ports   Image: Comparison of the server ports   Image: Comparison of the server port port port for the server port port port for the server port port port for the server port port port port port port port por	-			1050			
Help       TCP Port Min       1066         TCP Port Max       1081         DMCC Server Ports       Enabled Disabled         Encrypted Port       4721       Image: Comparison of the server o	User Management		TCP Port Max	1065			
TCP Port Max       1081         DMCC Server Ports       Enabled Disabled         Unencrypted Port       4721       Image: Comparison of the compa	▶ Utilities		Encrypted TLINK Ports				
DMCC Server Ports       Enabled Disabled         Unencrypted Port       4721       Image: Comparison of the	▶ Help		TCP Port Min	1066			
Unencrypted Port 4721			TCP Port Max	1081			
Encrypted Port       4722       Image: Comparison of the second s		DMCC Server Ports			Enabled	Disabled	
TR/87 Port     4723       H.323 Ports       TCP Port Min       TCP Port Max       29999       Local UDP Port Min       20000       Local UDP Port Max       29999			Unencrypted Port	4721	۲	0	
H.323 Ports TCP Port Min 20000 TCP Port Max 29999 Local UDP Port Min 20000 Local UDP Port Max 29999			Encrypted Port	4722	۲	$\odot$	
TCP Port Min         20000           TCP Port Max         29999           Local UDP Port Min         20000           Local UDP Port Max         29999			TR/87 Port	4723	۲	$\odot$	
TCP Port Max29999Local UDP Port Min20000Local UDP Port Max29999		H.323 Ports					
Local UDP Port Min 20000 Local UDP Port Max 29999			TCP Port Min	20000			
Local UDP Port Max 29999			TCP Port Max	29999			
			Local UDP Port Min	20000			
			Local UDP Port Max	29999			

### 6.8. Administer TCP Settings

Select Networking  $\rightarrow$  TCP/TLS Settings from the left pane, to display the TCP/TLS Settings screen in the right pane. For TCP Retransmission Count, select TSAPI Routing Application Configuration (6), as shown below.



## **6.9. Restart Services**

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

AVAYA	Application Enabler Management C		Welcome: User cust Last login: Tue Mar 26 14:26:05 2019 from 10.128.224.59 Number of prior failed login attempts: 0 HostName/IP: aesS.hcm.com/fe80::250:56ff:feb7:8ca7%eth2 : Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.0.1.0.0.5-0 Server Date and Time: Tue Mar 26 14:47:14 ICT 2019 HA Status: Not Configured
Maintenance   Service Co	ontroller		Home   Help   Logout
AE Services     Communication Manage     Interface	ger Service Controller		
High Availability	Service	Controller Status	
▶ Licensing	ASAI Link Manager	Running	
▼ Maintenance	DMCC Service	Running	
Date Time/NTP Serv	er CVLAN Service	Running	
Security Database	DLG Service	Running	
Service Controller	Transport Layer Service		
Server Data	TSAPI Service	Running	
▶ Networking	For status on actual services, plea	ase use <u>Status and Control</u>	
<ul> <li>Security</li> </ul>	Start Stop Restart Se	ervice Restart AE Server	Restart Linux Restart Web Server
→ Status			
▹ User Management			
→ Utilities			
▶ Help			

### 6.10. Obtain Tlink Name

Select Security  $\rightarrow$  Security Database  $\rightarrow$  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 ContactPro®

In this case, the associated Tlink name is "AVAYA#CM8#CSTA#AES8". Note the use of the switch connection "CM8 from Section 6.3 as part of the Tlink name.

Welcome: User cust

Αναγα	Application Enablement Services Management Console	Last login: Tue Mar 26 14:26:05 2019 from 10.128.224.59 Number of prior failed login attempts: 0 HostName/IP: aes8.hcm.com/fe80::250:56ff:feb7:8ca7%eth2 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.0.10.0.5-0 Server Date and Time: Tue Mar 26 15:26:16 ICT 2019 HA Status: Not Configured
Security   Security Datab	ase   Tlinks	Home   Help   Logout
<ul> <li>AE Services</li> <li>Communication Manag</li> <li>Interface</li> <li>High Availability</li> </ul>	er Tlinks Tlink Name	
<ul> <li>Licensing</li> </ul>	AVAYA#CM8#CSTA#AES8	
<ul> <li>Maintenance</li> </ul>	Delete Tlink	
▶ Networking		
▼ Security		
Account Management	it	
> Audit		
Certificate Managem	ent	
Enterprise Directory		
> Host AA		
▶ PAM		
Security Database		
<ul> <li>Control</li> <li>CTI Users</li> <li>Devices</li> <li>Device Groups</li> <li>Tlinks</li> </ul>		

## 7. Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Avaya Aura® Session Manager. The procedures include the following areas:

- Launch System Manager
- Administer Users

### 7.1. Launch System Manager

Access the System Manager Web interface by using the URL "<u>https://<IP Address>/SMGR</u>" in an internet browser window, where <IP Address> is the IP address of the System Manager server. Log in using the appropriate credentials.

Recommended access to System Manager is via FQDN.	•
to central login for Single Sign-On	User ID:
f IP address access is your only option, then note that authentication will ail in the following cases:	Password:
<ul> <li>First time login with "admin" account</li> <li>Expired/Reset passwords</li> </ul>	Log On Cancel
Jse the "Change Password" hyperlink on this page to change the password nanually, and then login.	Change Password
Also note that single sign-on between servers in the same security domain s not supported when accessing via IP address.	• Supported Browsers: Internet Explorer 11.x or Firefox 59.0, 60.0 and 61.0
his system is restricted solely to authorized users for legitimate business ourposes only. The actual or attempted unauthorized access, use, or nodification of this system is strictly prohibited.	
Inauthorized users are subject to company disciplinary procedures and or riminal and civil penalties under state, federal, or other applicable domestic and foreign laws.	
he use of this system may be monitored and recorded for administrative and security reasons. Anyone accessing this system expressly consents to such monitoring and recording, and is advised that if it reveals possible evidence of criminal activity, the evidence of such activity may be provided to aw enforcement officials.	
All users must comply with all corporate instructions regarding the protection	

## 7.2. Administer Users

From the dashboard, select Users  $\rightarrow$  User Management  $\rightarrow$  Manage Users

AVAYA Users ~	🗲 Elemen	ts v	Services v   Widgets v S	Shortcuts v		
Administrat	ors	>	x	Notifications		×
28 Directory S	ynchronization	>		No data		
Groups & R	loles	>				
User Manag	gement	>	Manage Users			
User Provisi	ioning Rule		Public Contacts			
	Warning	Normal	Shared Addresses			
Alarms		-	System Presence ACLs	Information		×
	Severity	v	Communication Profile Password Policy	Elements	GNRL Sync Statu	c 🗅
	SourceIP	D	escription	Avaya Aura Device Services		
d l			No data	Avaya Aura Web Gateway	2	
5				Avaya Breeze	1	- 1
				AvayaAuraMediaServer	1	_
				СМ	2	
				MMCS	2	-

#### Click New.

ne User Management					
r Management 🛛 🔨	Home	S ∕ Manage Users			
Manage Users	Search		Q		
Public Contacts	© View	🖉 Edit 🛛 🕂 New	춲 Duplicate 🛍 Delete	More Actions	
hared Addresses		First Name 🖨 🛛	Surname 🖨 💎	Display Name 🖨 🛛	Login Nan
		2010006	TE	2010006 TE	2010006
tem Presence ACLs		2010007	TE	2010007 TE	2010007
munication Profile		2010008 duy	TE duy	2010008 TE duy	2010008
		2010020	TE	2010020 TE	20100200
		2012311	TE	2012311 TE	2012311
		2012312	TE	2012312 TE	20123120
		2012313	TE	2012313 TE	2012313(

On the **Identity** tab enter an identifying **Last Name** and **First Name**, enter an appropriate **Login Name**, set **Authentication Type** to **Basic** and administer a password in the **Password** and **Confirm Password** fields.

Avra® System Manager 8.0 Let Search & Services >   Widgets > Shortcuts > Search & Search & Elements > & Avra® System Manager 8.0						
Home Administrators	User Management					
User Management ^	Home☆ / Users옷 / Manage Users				Help	
Manage Users	User Profile   Add			🗈 Commit & Continue	Commit 🛞 Cancel	
Public Contacts	Identity Communication Profile	Membership C	ontacts			
Shared Addresses	Basic Info	User Provisioning Rule :				
System Presence ACLs	Address	-				
Communication Profile	LocalizedName	* Last Name :	Voice	Last Name (Latin Translation) :	Voice	
		* First Name :	Agent	First Name (Latin Translation):	Agent	
		* Login Name :	70000@devconnect.com	Middle Name :	Middle Name Of User	
		Description :	Description Of User	Email Address :	Email Address Of User	
		Password:		User Type :	Basic v	

Click on the **Communication Profile** tab and enter and confirm a **Communication Profile Password**, this is used when logging in the SIP endpoint.

Aura® System Manager 8.0	Jsers 🗸 🎤 Elements 🗸 🔅 Servic	es v   Widgets v Shortcuts v	1	Search 🔔 🗎 🛛 admin
Home User Management				
User Management ^	User Profile   Add		Commit & Continue	Commit Scancel
Manage Users	Identity Communication Profile	e Membership Contacts		
Public Contacts	Communication Profile Password	Comm-Profile Password	×	Options ~
Shared Addresses	PROFILE SET: Primary V			Domain 🖨 🛛
System Presence ACLs	Communication Address	Comm-Profile Password :		
Communication Profile	PROFILES	8		
	Session Manager Profile	* Re-enter Comm-Profile Password :	<b></b>	
	Avaya Breeze® Profile			
	Equinox Profile		Cancel	
	CM Endpoint Profile			

Click on the **Communication Address**, select **New**.

AVAYA LUSA Aura® System Manager 8.0	ers 🗸 🎤 Elements 🗸	Services 🗸	Widgets v Shortcı	its v	l	Search	🕽 🗮   admi
Home User Management							
User Management ^	User Profile   Add				🗈 Commit & Continue	🖻 Commit	S Cancel
Manage Users	Identity Communica	ation Profile Me	mbership Contacts				
Public Contacts	Communication Profile Pass	sword	+ New 🔟 Delei	ie .			Options V
Shared Addresses	PROFILE SET: Primary	~	Туре	Handle 🖨 🤊	7	Domain 🖨 🏹	Options -
System Presence ACLs	Communication Address			No data	1		
Communication Profile	PROFILES	Select All	~				
	Session Manager Profile						
	Avaya Breeze® Profile						
	Equinox Profile						
	CM Endpoint Profile						

Select **Avaya SIP** from the **Type** drop down box and enter the **Fully Qualified Address** of the new SIP user. Click **Ok** when done.

Communication Address	Add/Edit	×
<b>*</b> Type :	Avaya SIP	~
*Fully Qualified Address:	70000 @ devconnect.com	~
	Cancel	ОК

Scroll down on the same page. Enable **Session Manager Profile** and enter the **Primary Session Manager, Origination Application Sequence, Termination Application Sequence** and **Home Location** relevant to the implementation.

Communication Address	* Primary Session Manager:	SMDev Q	] 0
PROFILES	Secondary Session Manager:	Start typing Q	•
Session Manager Profile	Sur durch little Samuel		1
Avaya Breeze® Profile	Survivability Server:	Start typing Q	•
Equinox Profile	Max. Simultaneous Devices :	1	~
CM Endpoint Profile			
Presence Profile	Block New Registration When Maximum Registrations Active?:		
Conferencing Profile	Application Sequences		
	Origination Sequence:	CM93	~
	Termination Sequence:	CM93	~
	Emergency Calling Application Sequences		
	Emergency Calling Origination Sequence:	Select	~
	Emergency Calling Termination Sequence:	Select	~
	Call Routing Settings		
	* Home Location :	DevConnect	~

Scroll down the page and enable **CM Endpoint Profile** section. Select the Communication Manager system from the **System** drop down box, select **Endpoint** as the **Profile Type**, enter the **Extension** number you wish to use, select **9641SIPCC\_DEFAULT\_CM\_8\_0** as the **Template** and ensure **IP** is configured as the **Port**, click **Commit & Continue** (not shown) when finished.

* System:	CM93 ~	* Profile Type:	Endpoint v
Use Existing Endpoints :		* Extension :	70000 🖵 💋
* Template :	9641SIPCC_DEFAULT_CM_Q	* Set Type :	9641SIPCC
* Sub Type :	Select v	* Terminal Number :	
System ID :	Enter System Id	Security Code:	••••
Port:	IP Q	Voice Mail Number:	
Preferred Handle :	Select ~	Calculate Route Pattern :	
Sip Trunk :	aar	SIP URI:	Select ~
Enhanced Callr-Info display for 1-line phones :		Delete on Unassign from User or on Delete User:	

Click on **Endpoint Editor** in the **CM Endpoint Profile** and on the General options tab set **Type of 3PCC Enabled** as **Avaya**.

Enhanced Call Fwd (E) B	utton Assignment (B)	Profi	le Settings (P)	Group Memb	ership (M)
<ul> <li>Class of Restriction (COR)</li> </ul>	1		* Class Of S	ervice (COS)	1
* Emergency Location Ext	70000		* Message L	amp Ext.	70000
* Tenant Number	1				
* SIP Trunk	Qaar		Type of 3F	CC Enabled	Avaya 💌
Coverage Path 1			Coverage	Path 2	
Lock Message			Localized	Display Name	
Multibyte Language	Not Applicable	-		chability for main Control	system 💌
SIP URI					
Primary Session Manage	er				
IPv4:			IPv6:		
Secondary Session Man	ager				
IPv4:			IPv6:		

Click on **Feature Options** (**F**) tab, scroll down and check **IP SoftPhone.** Click on **Done** to save changes and go back to the **User Communication Profile** screen.

Features	
Always Use           Idle Appearance Preference	
IP Audio Hairpinning     IP SoftPhone	
Bridged Call Alerting           Image: Bridged Call Alerting         Image: Call Alerting	
Bridged Idle Line Preference     CDR Privacy	
Coverage Message Retrieval Precedence Call Waiting	
Data Restriction           Image: Direct IP-IP Audio Connections	
Survivable Trunk Dest H.320 Conversion	
Bridged Appearance Origination Restriction IP Video Softphone	
Restrict Last Appearance Per Button Ring Control	
Turn on mute for remote off-hook attempt	
IP Hoteling	

Main Buttons	Feature Buttons	Button M	odules				
Endpoint		Button Confi Button Featur	e	Argument-1		Argument-2	Argum
	sutton Label		Auto- A/D Auto- A/D		Ring Ring		
		call-appr	Auto- A/D		Ring		
4			Reason Code		Hunt Grp		
6 🗖 7 🗖			auto- in Grp manual- in Grp				
8		after-call	after- call				

Click on **Button Assignment (B)** tab, configure **Button Feature** as following:

Click on **Commit** to save the user.

# 8. Configure CCT Deutschland GmbH ContactPro®

This section outlines the steps required to configure the connections from CCT ContactPro® to the AES.

## 8.1. Create CONTACTPRO® Database and User

A database and database user for ContactPro® must be created on the SQL server.

## 8.1.1. Create Database

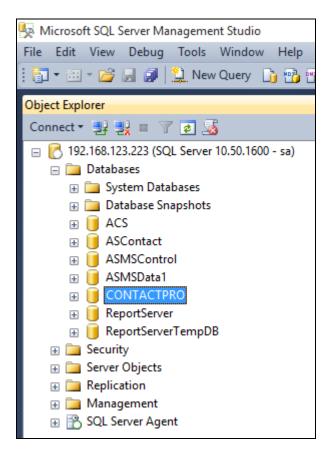
Create a **CONTACTPRO®** database on the same Microsoft SQL Server. Right-click on **Databases** and click on **New Database**.



Give it a suitable **Database name** and click on **OK** at the bottom of the screen.

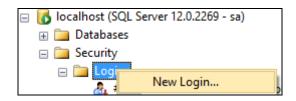
🔒 New Database							_		×
Select a page	Script 👻 🎼 Help								
Poptions Filegroups	Database <u>n</u> ame:			CONTACT	PRO				
	<u>O</u> wner:			<default></default>					
	✓ Use full-text in	dexing							
	Database <u>f</u> iles:								
	Logical Name	File Type	Fileg	iroup	Initial Size (MB)	Autogro	wth / Ma	xsize	
	CONTACTP	ROWS		MARY	3		B, Unlimite		
	CONTACTP	LOG	Not	Applicable	1	By 10 p	ercent, U	nlimited	
Connection									
Server: localhost									
Connection:									
sa <u>View connection properties</u>									
Progress									
Ready	<								>
and the second s					<u>A</u> dd		1	<u>R</u> emove	
	1					Oł	<	Cance	el

The end result will be as shown in the screenshot below where **CONTACTPRO®** database which was just created. The default MS SQL **ReportServer** and **ReportServerTempDB** databases may also be present.



## 8.1.2. Create User

Create a database user named **ContactPro**®. Right-click on **Login** and click on **New Login**.



Click on the **General** tab in the left window and enter the **Login name** and click on **SQL Server authentication** and enter a suitable **Password** for the **ContactPro**® user. Click on **OK** at the bottom of the screen once done.

🔒 Login - New				_		Х
Select a page	🔄 Script 🔻 📑 Help					
Server Roles User Mapping Securables	Login <u>n</u> ame: <u>W</u> indows authentication <u>S</u> QL Server authentication <u>P</u> assword: <u>C</u> onfirm password: <u>Specify old password</u>	contactpro			Search	۱
	Qld password: Enforce password policy Enforce password expira User must change passw Mapped to certificate Mapped to asymmetric key	tion		~		
Connection	Map to Credential			$\sim$		
Server: 192.168.123.223 Connection: sa <u>View connection properties</u>	Mapped Credentials	Credential	Provider			
Progress					Remo	<u>v</u> e
Ready	Default <u>d</u> atabase: Default lan <u>g</u> uage:	master <default></default>		~		
			O	K	Cance	ł:

NAQ; Reviewed SPOC 9/13/2019

Click on **User Mapping** in the left window. For this user, grant public and **db\_owner** access to **CONTACTPRO**® databases. Click on **OK** at the bottom of the page once done.

🚦 Login - New			_		Х	
Select a page	🔄 Script 🔻 🛐 Help					
Server Roles	Users mappe <u>d</u> to this login:					
Securables	Map Database	User	Default Schema		^	
	ACS					
	ASMSControl					
	ASMSData1					
	CONTACTPRO master					
	model					
	msdb					
	Report Server	DD			•	
Connection	Guest account enabled fo	r: CONTACTPRO				
Server:	db_accessadmin					
192.168.123.223	db_backupoperator db_datareader					
Connection:	db_datawriter					
sa <u>View connection properties</u>	db_ddladmin     db_denydatareader     db_denydatawriter					
Progress	db_owner db_securityadmin					
Ready	Depublic					
			ОК	Cancel		

## 8.1.3. Execute CONTACTPRO®.sql script

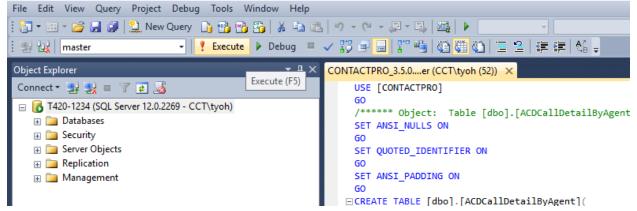
Fill the contents of the **CONTACTPRO**® database, open the provided **CONTACTPRO**®\_3.5.sql script.

🗏 Microsoft SQL Server Management Studio

File	Edit View Debug Tools Window	Help	
Connect Object Explorer			K 山 (1) マーペー 第一号 (2) (2)     K 山 (1) マーページー (2)     K 山 (2)     K 山 (2) (2)     K 山 (2)     K      K
<b>2</b>	Disconnect Object Explorer		<b>▼</b> ₽ <b>X</b>
	New	•	
	Open	•	🎯 Analysis Services Database
	Close		Project/Solution Ctrl+Shift+O
Ē	Close Solution		🚰 File Ctrl+0

Execute the script by clicking the Execute button.

🕵 CONTACTPRO\_3.5.0.sql - T420-1234.master (CCT\tyoh (52)) - Microsoft SQL Server Management Studio



🐺 CONTACTPRO_3.5.0.sql - localhost.master (sa (53)) - Microsoft SQL Server Management Studio
File Edit View Query Project Debug Tools Window Help
! ഈ ﷺ   master
CONTACTPRO_3.5.0.st.master (sa (53)) ×
USE [CONTACTPRO] GO /****** Object: Table [dbo].[ACDCallDetailByAgent] Script Date: 11.08.2015 15:24:47 ******/ SET ANSI_NULLS ON GO
/****** Object: Table [dbo].[ACDCallDetailByAgent] Script Date: 11.08.2015 15:24:47 ******/ SET ANSI NULLS ON
GO SET QUOTED IDENTIFIER ON
GO
GO SET ANSI_PADDING ON
□CREATE TABLE [dbo].[ACDCallDetailByAgent]( [deliveredDateTime] [datetime] NULL,
[agent] [varchar](50) NULL,
[ucid] [varchar](50) NULL, [digits] [varchar](50) NULL,
[uui] [varchar](50) NULL, [alertingDevice] [varchar](50) NULL,
<pre>[callingDevice] [varchar](50) NULL, [calledDevice] [varchar](50) NULL,</pre>
[distributingVDN] [varchar](50) NULL,
[splitSkill] [varchar](50) NULL, [ringTime] [int] NULL,
[talkTime] [int] NULL, [holdTime] [int] NULL,
[acwTime] [int] NULL, [heldCount] [int] NULL,
[rona] [bit] NULL,
100% - <
Messages
(1 row(s) affected)
(1 row(s) affected)
(1 row(s) affected)
Query executed successfully.

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Ū	CO	NT/	ACTPRO
+		Dat	tabase Diagrams
_		Tal	bles
	+		System Tables
	+		FileTables
	+	Ħ	dbo.ACDCallDetailByAgent
	+	Ħ	dbo.C_FEATURES
			dbo.C_SELFSKILLING
	+	Ħ	dbo.C_TRANSLATION_MESSAGES
			dbo.C_TRANSLATION_QUERIES
			dbo.C_WALLBOARD_THRESHOLDS
			dbo.CALL_LOG
	+	Ħ	dbo.CHANNEL
			dbo.EmailDetailByAgent
	_		dbo.EMPLOYEE
	-	_	dbo.EMPLOYEEADDRESS
	_		dbo.EMPLOYEEEMAIL
	_		dbo.EMPLOYEEPHONE
	_		dbo.GROUPMEMBER
	_		dbo.PHONEBOOK
	_		dbo.PHONEBOOK_EMAIL
			dbo.PHONEBOOK_PHONE
	+		dbo.PROPERTY
	+	_	dbo.PROPINSTANCE
	_		dbo.PROPSECTION
	_		dbo.PROPVALUE
	+		dbo.SPEED_DIAL
	+		dbo.TENANT
	+	Ħ	dbo.WORKGROUP

# 8.2. Configure ContactPro® and ContactPro® Manager Connection to the Database

ContactPro® and ContactPro® Manager need the connection settings to the ContactPro® database. This is the typically the only configuration required before deployment of the software to users.

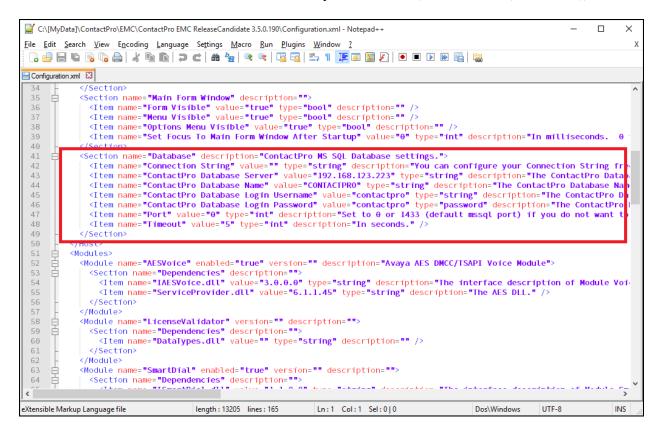
Navigate to the folder where ContactPro® and ContactPro® Manager have been installed. Right click on the file called **Configuration.xml** and open this with a program such as Notepad or **Notepad** ++ as is shown below.

🎍 l 💽 🚺 = l	DevCon	_VoiceOnly_Cont	actPro_N	NEW			_ □	x
File Home Share	View							~ <b>?</b>
⋲ 💿 🔻 🕇 📕 « Der	vConnect_Voice 🕨 DevCon	_VoiceOnly_ContactF	ro_NEW	~ ¢	Search [	)evCon_V	/oiceOnly_C	P
☆ Favorites	Name		Date mo	dified	Туре		Size	^
Desktop	DevCon Doc		27/01/20	)15 11:42	File folder			-
Downloads	Factory Layouts		27/01/20	)15 11:42	File folder			
Recent places	AESVoice.dll		26/01/20	)15 17:08	Application	extens	909 KB	
	AESVoice.pdb		26/01/20	)15 17:08	PDB File		432 KB	
👰 This PC	AgentStatistics.dll		08/01/20	)15 15:21	Application	extens	25 KB	
膧 Desktop	AgentStatistics.pdb		08/01/20	)15 15:21	PDB File		50 KB	
Documents	ApplicationHost.dll		02/12/20	)14 11:47	Application	extens	2,785 KB	≡
🗼 Downloads	ApplicationHost.pdb		02/12/2014 11:47 PDB F		PDB File		302 KB	
🚺 Music	🚳 CallLog.dll		11/11/20	)14 16:39	Application	extens	639 KB	
╞ Pictures	CallLog.pdb	1		)14 16:39	PDB File	1	62 KB	
🛃 Videos	Configuration.xm	Choose default pro	ogram				8 KB	
Local Disk (C:)	ContactPro.exe	Edit					883 KB	
🖄 DVD RW Drive (D:) IF	🚳 IAESVoice.dll 📓	Edit with Notepad+	+			extens	10 KB	
👝 PG_KEY (E:)	S IApplicationFrame	Open with			•	extens	360 KB	
	📄 IApplicationFrame 🚞	Arþive ekle					100 KB	
📬 Network	🚳 ISmartDial.dll 🛛	Arþive ekle "Config	uration.ra	r"		extens	5 KB	
	🚳 log4net.dll 🛛 🗎	Sýkýþtýr ve eposta	gönder			extens	244 KB	
	🚳 PhoneBook.dll 🛛 🚞	Sýkýþtýr "Configuration.rar" ve eposta gönder				extens	1,878 KB	
	PhoneBook.pdb	Restore previous versions					100 KB	
	ServiceProvider.dl	Send to			•	extens	5,325 KB	
	SmartDial.dll	Cut				extens	128 KB	~
31 items   1 item selected	7.04 KB	Сору						<b>=</b>

Once this file is opened navigate to the section regarding the **ContactPro® MS SQL Database settings**. Here the following must be entered correctly.

- ContactPro® Database Server
- ContactPro® Database Name
- ContactPro® Database Login Username
- ContactPro® Database Login Password
- Database **Port**
- Timeout

Once this information has been entered correctly sane the file (File  $\rightarrow$  Save (not shown)).



#### 8.3. Configure Properties with ContactPro® Manager

The ContactPro® Manager allows the configuration of properties for all ContactPro® Clients. Global properties can be set at the **Top System Level** or set different properties at the **Tenant level** or **Workgroup level** or for each **individual Agent**.

Properties only need to be configured in sub levels if different Properties for other Tenants are required.

The following sections describe the minimum required properties to configure for ContactPro® in order to connect successfully to both the Session Manager and AES Server. All other properties may be left at their default values.

#### 8.3.1. Configure the Connection to Avaya Aura® Session Manager

From a Supervisor or Administrator PC where the CCT ContactPro® Manager application was installed double click on the CCT ContactPro® Manager shortcut as shown below. The **ContactPro® Manager** is opened and select **SIP/Server** from the **Sections** window.

The information highlighted below must all be filled in; this information is all obtained from **Section x**. This information is all required to connect successfully to Session Manager.

ContactPro Manager							
Search Sections	Properties						
POM/WrapUp POM/Doseinbound PresenceCPS QuickMenu Remedy Remedy/Screenpop/Knowledge Remedy/Screenpop/Ticket Salesforce/Screenpop/Chat Salesforce/Screenpop/PoM Salesforce/Screenpop/POM Salesforce/Screenpop/Voice Salesforce/Screenpop/Voice Salesforce/Screenpop/Voice SAP/Screenpop/Voice SAP/Screenpop/Voice SAP/StartupTab Screenpop/Chat Screenpop/Chat Screenpop/Chat Screenpop/Calesal Screenpop/General Screenpop/General Screenpop/Calesal Screenpop/Calesal Screenpop/Calesal Screenpop/Calesal Screenpop/Calesal Screenpop/Voice SelfSkilling SendFeedback SIP/Server	Name       Domain       Registrar       SipPort       StunPort       StunServer       Transport	devconnect.com 10.30.5.92 5061 3478 TLS					
SpeedDial							

## **8.3.2.** Configure the Connection to Avaya Aura® Application Enablement Services

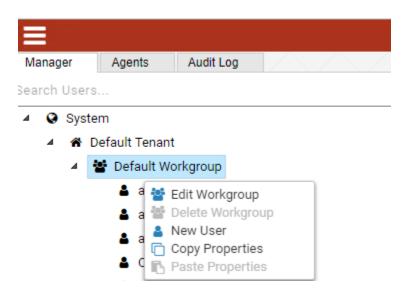
From a Supervisor or Administrator PC where the CCT ContactPro® Manager application was installed double click on the CCT ContactPro® Manager shortcut as shown below. The **ContactPro® Manager** is opened and select **AESVoice/AESServer** from the **Sections** window.

The information highlighted below must all be filled in; this information is all obtained from **Section 6**. This information is all required to connect successfully to the AES and each part is changed by double-clicking on the field that needs to be changed.

ContactPro Manager							
Search Sections		Properties					
[Gateway]	Name		Value				
ACM ACMGateway	Hume		Value				
ACMGateway	AESProtocolVersion	7.1.1					
ACR/AutoTag		0.400					
ACR/Record	PrimaryAESACMConnectionName	CM93					
ActiveDirectory	PrimaryAESIPAddress	10.30.5.95					
ActiveDirectory/ContextMenu	·······,·····						
ActiveDirectory/Search AESVoice	PrimaryAESLoginPassword	*					
AESVoice/AESServer	PrimaryAESLoginUsername	cct					
AESVoice/AgentControls	FilmaryAESLOginOsemanie	CCI					
AESVoice/CallControls	PrimaryAESPort	4721					
AESVoice/General							
AESVoice/Logout AESVoice/StatusBar	PrimaryAESSecureSocket	No					
AESVoice/Voicemail	QuaternaryAESACMConnectionName						
AgentStateLog	quaternaryAEbAbinobinectionname						
AgentStatistics	QuaternaryAESIPAddress						
AgentStatistics/AvgACWThreshHolds		*					
AgentStatistics/AvgHandleTimeThreshHolds AgentStatistics/LiveCallThreshHolds	QuaternaryAESLoginPassword	*					
ApplicationHost	QuaternaryAESLoginUsername						
ApplicationHost/Language							
ApplicationHost/Logging	QuaternaryAESPort	4721					
ApplicationHost/SmartClient	QuaternaryAESSecureSocket	No					
AUXLog CallLog	QuaternaryAESSecureSocket	110					
CoBrowse	SecondaryAESACMConnectionName						
ContextData							
CP/Server	SecondaryAESIPAddress						
CPCallDetailReporting	SecondaryAESLoginPassword	*					
CPChannels CPChat	· · ·						
CPCnat CPChat/AutoTranslation	SecondaryAESLoginUsername						
CPChat/SecureForm	Secondary/AESPort	4701					
CpCore	SecondaryAESPort	4721					
CPCore/AgentControls	SecondaryAESSecureSocket	No					
CPCore/ChannelControls	,						

### 8.4. Configure Users with ContactPro® Manager

For every ContactPro® Client user, you need to create a New Employee. Right-click on a workgroup then click "New User".



The following fields are required.

- Username (This is the Agent ID such as that created in Section 5.4 for example).
- First Name
- Last Name
- Password

Username* 80000		Title	
First Name* Agent		Last Name* Voice	
Phone 70000		Email	
CRM Username			
Active Directory Username			
Agent			~
			*
Password			_
Change Password On Login IsQMAgent			Min. password length: 8 Min. number of characters: 1 Min. number of numbers: 1
Agent ID	Agent Password		Min. number of special Characters: 1

Create employees under different workgroups in different tenants. This allows you to easily manage different Properties for different **Tenants** or **Workgroups** or each individual **Employee**. NOTE: You do not need to duplicate properties. You only need to configure what's different compared to the upper level which could be either the **Top System Level**, **Tenant** or **Workgroup** level.

### 9. Verification Steps

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

#### 9.1. Verify Avaya Aura® Communication Manager

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

1	9	no	aes8	established	14	14		
CTI Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Rcvd		
			AE SERVICES	CTI LINK STAT	US			
status aesvcs cti-link								

Enter the command **list agent-loginID** verify that agent **80000** shown in **Section 5.4** is logged-in to extension **70000** 

list agent-	ginID
	AGENT LOGINID
Login ID	Name Extension Dir Agt AAS/AUD COR Ag Pr SO
	Skil/Lv Skil/Lv Skil/Lv Skil/Lv Skil/Lv Skil/Lv Skil/Lv
80000	Voice Agent 70000 1 lvl
	2/01 / / / / / /

Enter the command **status station 70000** and on **Page 7** verify that the agent is logged-in to the appropriate skill.

status station	status station 1005 P								7
Grp/Mod Grp/Mo 2/AI /	d Grp/Mod /	Grp/Mod /	Grp/Mod /	Grp/Mod /	Grp/Mod / On	ACD	Call?	no	

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

On Application Enablement Services, verify the status of the TSAPI link by selecting Status  $\rightarrow$  Status and Control  $\rightarrow$  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.

avaya	Application Enablement Services Management Console							Welcome: User cust Last login: Tue Mar 26 15:40:17 2019 from 10.128.224.59 Number of prior failed login attempts: 0 HostName/IP: aes3.hcm.com/fe80::250:56ff:feb7:8ca7%eth Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.0.1.0.0.5-0 Server Date and Time: Tue Mar 26 15:49:11 ICT 2019 HA Status: Not Configured					
Status   Status and Control  T	SAPI Servic	e Sun	imary							I	lome   He	lp   Logo	
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> <li>High Availability</li> </ul>			Details e refresh ever	ry 60 <b>▼</b> s	econds								
<ul> <li>Licensing</li> <li>Maintenance</li> <li>Networking</li> </ul>		Link	Switch Name	Switch CTI Link ID	Status	Since	State	Switch Version	Associations	Msgs to Switch	Msgs from Switch	Msgs Period	
→ Security	0	1	CM8	1	Talking	Tue Mar 26	Online	18	0	8	8	30	
▼ Status Alarm Viewer ▶ Logs	Onl		Offline de information,	choose one	of the follo								
Log Manager			vice Status	TLink Sta		ser Status							
▼ Status and Control													
CVLAN Service Summary     DLG Services Summary     DMCC Service Summary     Switch Conn Summary     TSAPI Service Summary	y y												
▶ User Management													
<ul><li>&gt; Utilities</li><li>&gt; Help</li></ul>													

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 – Session Summary screen is displayed.

Verify the User column shows action sessions with the CCT user name from Section 6.5.

Status   Status and Control  DMC	C Service Summary					Home   Help   Logou
<ul> <li>AE Services</li> <li>Communication Manager</li> <li>Interface</li> <li>High Availability</li> <li>Licensing</li> <li>Maintenance</li> <li>Networking</li> <li>Security</li> <li>Status</li> </ul>	DMCC Service Summary - Session Summary         Please do not use back button	ours 57	minutes			
Alarm Viewer	Number of Devices Created Since Service Boot: 1701	1				
Logs	Session ID	<u>User</u>	Application	<u>Far-end Identifier</u>	Connection Type	# of Associated Devices
Log Manager	82ED47D965F1BFBC5 B296764A7EC224C-1860	cct	AESVoice	10.128.224.59	XML Unencrypted	0
Status and Control	Terminate Sessions Show Terminated Sessions					
CVLAN Service Summary     DLG Services Summary     DMCC Service Summary     Switch Conn Summary     TSAPI Service Summary	tem 1-1 of 1 1 Go					
▶ User Management						
▶ Utilities						
▶ Help						

#### 9.3. Verify Login of ContactPro® Client

From the Client PC open the application **ContactPro®**. Once this is opened, select **SETTINGS** and choose **Phone** as **12 – ContactPro® Softphone** (**SIP Avaya**)

ContactPro	LOGIN   SETTINGS	СР	×
€ settings			
ACCOUNTS SERVICES			
Phone			
12 - ContactPro Softphone (SIP Avaya)   Agent   ON   OK			

Click on **OK** to fill following details:

welcome					
		ContactPro			
	A STATE OF A	80000	••••	•••••	
0		Phone			
	1711221117	70000	••••	•••••	
		Agent			
2		80000	•••••	••	
100		Clear	OK	Cancel	
Please enter your					

Click on OK to log in to  $ContactPro{\ensuremath{\mathbb R}}$ 

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### 9.4. Verify Agent Status using ContactPro®

Once logged in, the agent state can be changed using the buttons at the top left highlighted below. Note also the station number (**70000**) and Agent ID (**80000**) once logged in. Click on **Ready** to make the agent ready.

ContactPro - U:80000 - S:70000 - A:80000 - Voice Agent – 🗆 🗙								
File View (	Options Help							
Line 1 Line 2	Line 3	Make Call Agent	Ready AUX ACW					
WorkI 🗜	WorkList		д					
Name Value	Active Typ Status	Skil Nar Cus Sut St	ta' Ass Age UU! Dig AVC					
	Call Log							
	Call Time	Phone Number	Call Type					
	4/8/2019 6:42:26 PM	70009	Accepted Inbou					
	4/8/2019 6:40:03 PM	70009	Outbound Call					
	4/8/2019 6:39:19 PM	70009	Outbound Call 🔶					
	4/8/2019 5:04:16 PM	70009	Accepted Inbou					
	4/8/2019 4:06:36 PM	70009	Accepted Inbou					
	4/8/2019 4:06:13 PM	70009	Accepted Inbou					
	4/8/2019 10:50:44 AM	70009	Missed Inbound					
	4/8/2019 9:57:47 AM	70009	Accepted Inbou					
• Ready (Auto)	00:04	19/0/2013	80000 ₩					

33	Options Help		_		64	1	C	2				2.	
Line 1 Line 2	Line 3			Ma	ke Ca	all Er	nd	Age	ent	Ready	y A	UX	ACW
WorkI 7	WorkList				Chil								Ţ
Name Value	Active	Тур	Status		Skil Nar	Cus	Sut	Sta	Ass	Age	UU:	Dig	AVC
	۷ 🗹	<b>O</b>	Initiating			7		0	0	0			<b>~</b>
	Call Log	1											
													•
	Call Time		~	Phone N	lumb	er			Call	Туре			•
	Call Time 4/8/2019 6:42	:26 Pl		Phone N 70009	lumb	er				Type oted Ir	nbou		~
			M		lumb	er			Accep				¥
	4/8/2019 6:42	:03 PI	M M	70009	lumb	er			Accep Outb	oted Ir	Call		` Ž
	4/8/2019 6:42 4/8/2019 6:40	:03 Pi :19 Pi	M M M	70009 70009	lumb	er			Accep Outb Outb	oted In ound	Call Call		× × ×
	4/8/2019 6:42 4/8/2019 6:40 4/8/2019 6:39	:03 Pf :19 Pf :16 Pf	м м м м	70009 70009 70009	lumb	er			Accep Outb Outb Accep	oted In ound ound	Call Call nbou		, , , , , , , , , , , , , , , , ,
	4/8/2019 6:42 4/8/2019 6:40 4/8/2019 6:39 4/8/2019 5:04	:03 Pf :19 Pf :16 Pf :36 Pf	м м м м	70009 70009 70009 70009	lumb	er			Accep Outb Outb Accep Accep	oted In ound ound oted In	Call Call nbou nbou		$\cdot$
	4/8/2019 6:42 4/8/2019 6:40 4/8/2019 6:39 4/8/2019 5:04 4/8/2019 4:06	:03 Pf :19 Pf :16 Pf :36 Pf :13 Pf	м м м м м	70009 70009 70009 70009 70009	lumb	er			Accep Outb Outb Accep Accep Accep	oted Ir ound ound oted Ir oted Ir	Call Call nbou nbou nbou		
	4/8/2019 6:42 4/8/2019 6:40 4/8/2019 6:39 4/8/2019 5:04 4/8/2019 4:06 4/8/2019 4:06	:03 Pf :19 Pf :16 Pf :36 Pf :13 Pf 0:44 /	M M M M M AM	70009 70009 70009 70009 70009 70009	lumb	er			Accep Outb Outb Accep Accep Accep Misse	oted In ound ound oted In oted In	Call Call nbou nbou nbou	···	

Make a call with the **MakeCall** button.

Make an incoming call from PSTN to a general routing VDN in **Section 5.1.** Verify that the CCT ContactPro® Client can receive incoming call. Answer incoming calls with the **Answer** button.

	ntactPro - U Options Help		70000 - A:	80000 - Void	e Agent	- = X		
Line 1 Line 2	Line 3		Mak	e Call Answer	Agent Read	dy AUX =		
WorkI 🗜	WorkList					д		
Name Value	Active	Typ Status		Skil Nar Cus Sut	Sta Ass Age U	IU. Dig AVC		
	🔊 🔽	A Alerting		7	0 0			
	Call Log	]				•		
	Call Time	-	Phone Nu	umber	Call Type			
	4/8/2019 6:53	3:08 PM	70009		Outbound Ca	all 🔶 Ili		
	4/8/2019 6:42	2:26 PM	70009		Accepted Inb	ou		
	4/8/2019 6:40	):03 PM	70009		Outbound Ca	all 🔶		
	4/8/2019 6:39	:19 PM	70009		Outbound Ca	all 🔶 Ille		
	4/8/2019 5:04	k:16 PM	70009		Accepted Inb	ou 🗸		
	4/8/2019 4:06	5:36 PM	70009		Accepted Inb	ou 🗸		
	4/8/2019 4:06	5:13 PM	70009		Accepted Inb	ou		
	4/8/2019 10:5	60:44 AM	70009		Missed Inbou	Ind X		
	4/8/2019 9:57	7:47 AM	70009		Accepted Inb	ou		
🕟 Ready (Auto)	● Ready (Auto) 01:25							

## **10.** Conclusion

These Application Notes describe the configuration steps required for Deutschland GmbH ContactPro® 5.2 from CCT for Breeze Client SDK to successfully interoperate with Avaya Aura® Session Manager R8, and Avaya Aura® Application Enablement Services R8. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

## **11.Additional References**

This section references the Avaya and CCT Deutschland GmbH 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, Issue 2.0, Nov 2018
- 2. Administering Avaya Aura® Session Manager, Release 8, Issue 2, August 2018
- 3. Administering Avaya Aura® System Manager, Release 8, Issue 4, September 2018
- 4. Administering Avaya Aura® Application Enablement Services, Release 8.0.1, Issue 2, December 2018

Product documentation for CCT Deutschland GmbH may be found at http://cct-solutions.com

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