

Avaya Solution & Interoperability Test Lab

Application Notes for configuring NICE Engage Platform R6.3 to interoperate with Avaya Proactive Contact R5.1 and Avaya Aura® Application Enablement Services R6.3 using DMCC Service Observe and Single Step Conference to record calls - Issue 1.0

Abstract

These Application Notes describe the configuration steps for the NICE Engage Platform to interoperate with the Avaya solution consisting of Avaya Proactive Contact R5.1, Avaya Aura® Communication Manager R6.3, Avaya Aura® Session Manager R6.3, and Avaya Aura® Application Enablement Services R6.3.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as the observations noted in **Section 2.2**, to ensure that their own use cases are adequately covered by this scope and results.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe the configuration steps required for NICE Engage Platform to interoperate with the Avaya solution consisting of Avaya Proactive Contact R5.1, Avaya Aura® Communication Manager R6.3, Avaya Aura® Session Manager R6.3, and Avaya Aura® Application Enablement Services R6.3using Device Media Call Control Service Observation and Single Step Conference to record telephone calls from various jobs running on Proactive Contact.

The Avaya Proactive Contact system is an enterprise outbound solution software application that consists of software, hardware, and network components. The system is comprised of a system cabinet, supervisor workstation, agent workstations with a hardware connection to Avaya Aura® Communication Manager using an ISDN trunk to engage Elite agents on Communication Manager.

The NICE Engage Platform is setup to use Device Media Call Control Service Observation and/or Single Step Conference to record the voice calls of Communication Manager agents on various Proactive Contact Jobs, inbound, outbound and blended. Device Media Call Control (DMCC) works by allowing software vendors to create soft phones, in memory on a recording server, and use them to monitor and record other phones. This is purely a software solution and does not require telephony boards or any wiring beyond a typical network infrastructure.

The NICE Engage Platform is fully integrated into a LAN (Local Area Network), and includes easy-to-use Web based applications (i.e., Nice Application) that works with .NET framework and used to retrieve telephone conversations from a comprehensive long-term calls database. The NICE Engage Platform uses the Communication Manager feature "Service Observe" to observe a call on an extension this way the call is recorded and can be played back at a later time. NICE can also conference into the call and record the call using this method. Both methods of call recording use virtual stations on Communication Manager in order to observe or conference into existing calls in order to record them.

The NICE Engage Platform contains tools for audio retrieval, centralized system security authorization, system control, and system status monitoring. Also included is a call parameters database (Nice Application Server) that tightly integrates via CTI link PABXs and ACD's including optional advanced audio archive database management, search tools, a wide variety of Recording-on-Demand capabilities, and comprehensive long-term call database for immediate retrieval.

2. General Test Approach and Test Results

The interoperability compliance testing evaluated the ability of the NICE Engage Platform to carry out call recording in a variety of scenarios using DMCC Service Observation and/or Single Step Conference with Proactive Contact and AES. The NICE Engage Platform registers with the event server on Proactive Contact in order to receive call and agent events to stop and start call recording.

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.

2.1. Interoperability Compliance Testing

The interoperability compliance test included both feature functionality and serviceability testing. The feature functionality testing focused on placing and recording calls in different call scenarios with good quality audio recordings and accurate call records. The tests included: The testing focuses on the following types of calls:

- **Proactive Contact Outbound job** Recording of all calls types for agents on an outbound job on Proactive Contact, including transfer, conference and forward work.
- **Proactive Contact Managed job** Recording of all calls types for agents on a preview outbound job on Proactive Contact, including transfer, conference and forward work.
- **Proactive Contact Inbound Job-** Recording of all calls types for agents on an inbound job on Proactive Contact, including transfer, conference and forward work.
- **Proactive Contact Agent Blending (PAB)** Recording of agents on a blended job where the agent is switching between answering VDN calls and outbound calls.
- **Proactive Contact Intelligent Call Blending (ICB)** Recording of agents on a blended job where the agent is switching between answering inbound calls and outbound calls.
- **Failover testing** The behaviour of the NICE Engage Platform under different simulated LAN failure conditions on the Avaya solution.

2.2. Test Results

Most functionality and serviceability test cases were completed successfully. The following issues and observations were noted.

The NICE recorder was setup during the testing to record in "Selective" mode only. This is because the recordings cannot be played back when the Proactive Contact is connected to the "headset" i.e., the agent's hard phone when recording in "Total" mode.

Issue 1: Using "Selective" mode with Service Observe will introduce a 5 second delay at the beginning of every conversation due to the Service Observe being initiated for each phone call that is being recorded and this Service Observe tone will overwrite any conversation that takes place. This issue has been documented as a limitation on the NICE Engage Platform Integration Description Document. Please note that calls in Selective mode can be recorded using Single Step Conference or Multiple Registration without introducing a delay.

Issue 2: "Forward Work - Supervised Transfer" [Note Forward Work is when Agent 1 transfers/conferences the call to Agent 2 using the Proactive Contact method "Forward Work"]. When a call is transferred in a supervised fashion using Forward Work, there are two recordings present - Recording 1 has the whole conversation from Agent 1 out to PSTN and the transferred call to agent 2 talking to the PSTN. Recording 2 should contain the "consultation" between agents but there is nothing present to playback. This issue was reproduced in the NICE labs and a hot fix is available from NICE to resolve this issue, note this fix was produced after the completion of compliance testing and was therefore not compliance tested.

Issue 3: "Forward Work - Conference" - PSTN hangs up the call. There are two recordings present; recording 1 has the whole conversation from Agent 1 out to PSTN and the transferred call to agent 2 talking to the PSTN. Recording 2 should contain the "consultation" between agents but there is nothing present to playback. This issue has been documented as a limitation on NICE Engage Platform Integration Description Document.

Issue 4: "Forward Work - Conference" - Agent 1 hangs up the call. The "conference" part of the call is not fully recorded, the recorded portion only starts when agent 1 hangs up the call as the NICE omits the conversation when all three are in conference. The initial conference is viewed as if the call was on hold. This issue has been documented as limitation on NICE Engage Platform Integration Description Document.

Issue 5: "Forward Work - Conference" - Agent 2 hangs up the call. There are two recordings present. The initial call between agent 1 and the PSTN, the recording on the second call is only as long as when Agent 2 hangs up the call. The Conversation between Agent 1 and the PSTN is not recorded after Agent 2 hangs up. This issue has been documented as limitation on NICE Engage Platform Integration Description Document.

Observation 1: "Ordinary Conference" with PSTN hanging up – With a call up between Proactive Contact Agent and a PSTN customer and when there is a conference (either blind or supervised) with a supervisor (ordinary office phone that is also monitored). When the PSTN hangs up the call, all calls are automatically dropped (this is what happens on the Proactive Contact/Communication Manager when the PSTN drops the call). The first leg of the call i.e., the initial call between Agent 1 and PSTN only appears when Agent 1 releases the line.

Observation 2: For an inbound job only, the playback does not contain the consult bit in the main screen, this needs to be played by the segments. This is only happens for inbound jobs and supervised transfer to the PSTN or a Monitored phone.

Observation 3: There is a 7 second delay before the recording stops after CTRL + F7 is pressed. This is the same if F8 is pressed, basically any "release line" event.

2.3. Support

Technical support can be obtained for NICE Engage Platform from the website <u>http://www.nice.com/support-and-maintenance</u>

3. Reference Configuration

The configuration in **Figure 1** was used during the compliance test of the NICE Engage Platform with Avaya Proactive Contact using DMCC Service Observation and/or Single Step Conference to record calls. The NICE Application Server is setup for DMCC Service Observation mode and connects to both the AES and Proactive Contact Event Manager.

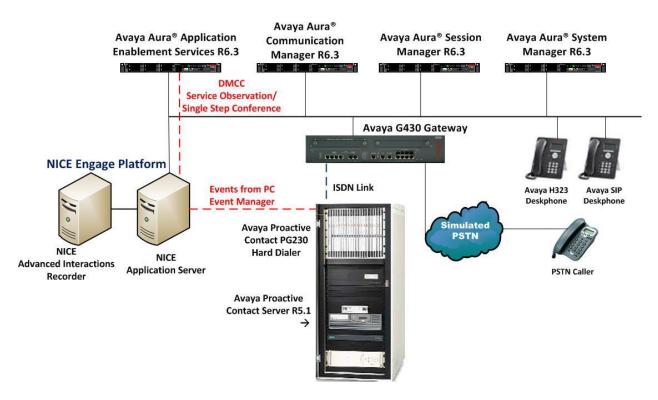


Figure 1: Connection of NICE Engage Platform R6.3 with Avaya Proactive Contact R5.1, Avaya Aura® Communication Manager R6.3 and Avaya Aura® Application Enablement Services R6.3

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Proactive Contact	R5.1
Avaya Proactive Contact PG230 Hard Dialer	R5.1
Avaya Aura® System Manager running on Virtual Server	R6.3.10 [Build 6.3.0.8.5682-6.3.8.4514] [SW Update Rev 6.3.10.7.2656]
Avaya Aura® Session Manager running on Virtual Server	R6.3 (SP9) 6.3.9.0.639011
Avaya Aura® Communication Manager running on Virtual Server	R6.3 SP8 R016x.03.0.124.0 03.0.124.0-21588
Avaya Aura® Application Enablement Services running on Virtual Server	R6.3 Build No - 6.3.3.1.10-0
Avaya G430 Gateway	33.12.0 /1
Avaya 9630 H323 Deskphone	R3.186A
Avaya 9640 SIP Deskphone	R2.6.12.1
NICE Engage Platform Application Server Advanced Interactions Recorder NDM Server 	R6.3

5. Configure Avaya Aura[®] Communication Manager

The information provided in this section describes the configuration of Communication Manager relevant to this solution. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 11**.

The configuration illustrated in this section was performed using Communication Manager System Administration Terminal (SAT).

5.1. Verify System Features

Use the **display system-parameters customer-options** command to verify that Communication Manager has permissions for features illustrated in these Application Notes. On **Page 3**, ensure that **Computer Telephony Adjunct Links?** is set to **y** as shown below.

```
display system-parameters customer-options
                                                             Page
                                                                   3 of 11
                              OPTIONAL FEATURES
   Abbreviated Dialing Enhanced List? y
                                              Audible Message Waiting? y
      Access Security Gateway (ASG)? n
                                               Authorization Codes? y
      Analog Trunk Incoming Call ID? y
                                                            CAS 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? n
         ASAI Link Plus Capabilities? n
                                                    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
```

5.2. Note procr IP Address for Avaya Aura® Application Enablement Services Connectivity

Display the procr IP address by using the command **display node-names ip** and noting the IP address for the **procr** and AES (**aes63vmpg**).

display node-names	s ip	Page	1 of	2
	IP NODE NAMES			
Name	IP Address			
SM100	10.10.40.34			
aes63vmpg	10.10.40.30			
default	0.0.0			
g430	10.10.40.15			
procr	10.10.40.31			

5.3. Configure Transport Link for Avaya Aura® Application Enablement Services Connectivity

To administer the transport link to AES use the **change ip-services** command. On **Page 1** add an entry with the following values:

- Service Type: Should be set to AESVCS.
- Enabled: Set to y.
- Local Node: Set to the node name assigned for the procr in Section 5.2
- Local Port: Retain the default value of 8765.

change ip-	services				Page	1 of	4	
Service Type AESVCS	Enabled Y	Local Node procr	IP SERVICES Local Port 8765	Remote Node	Remote Port			

Go to **Page 4** of the **ip-services** form and enter the following values:

- AE Services Server: Name obtained from the AES server, in this case aes63vmpg.
- **Password:** Enter a password to be administered on the AES server.
- Enabled: Set to y.

Note: The password entered for **Password** field must match the password on the AES server in **Section 6.2**. The **AE Services Server** should match the administered name for the AES server; this is created as part of the AES installation, and can be obtained from the AES server by typing **uname – n** at the Linux command prompt.

change ip-serv	rices			Page	4 of	4
	AE	Services Adminis	stration			
Server ID	AE Services Server	Password	Enabled	Status		
1: 2: 3:	aes63vmpg	* * * * * * *	У	idle		

5.4. Configure CTI Link for TSAPI Service

Add a CTI link using the **add cti-link n** command. Enter an available extension number in the **Extension** field. 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

      CTI LINK

      Extension: 2002

      Type: ADJ-IP

      COR: 1

      Name: aes63vmpg
```

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5.5. Configure Communication Manager for Service Observation

Type display cor x, where x is the COR number in the screen above, to check the existing Class of Restriction. Ensure that **Can be Service Observed** is set to \mathbf{y} , if not type **change cor x** to make a change to the Class or Restriction. This value needs to be enabled in order for Service Observe to work for call recording.

display cor 1		Page 1 of 23
(LASS OF RESTRICTION	-
COR Number: 1		
COR Description:		
FRL: 0	APLT?	У
Can Be Service Observed? y	Calling Party Restriction:	all-toll
Can Be A Service Observer? y	Called Party Restriction:	none
Time of Day Chart: 1	Forced Entry of Account Codes?	n
Priority Queuing? n	Direct Agent Calling?	У
Restriction Override: all	. Facility Access Trunk Test?	n
Restricted Call List? n	Can Change Coverage?	n
Unrestricted Call List: 1		
Access to MCT? y	Fully Restricted Service?	n
Group II Category For MFC: 7	Hear VDN of Origin Annc.?	n
Send ANI for MFE? n	Add/Remove Agent Skills?	n
MF ANI Prefix:	Automatic Charge Display?	n
Hear System Music on Hold? y	PASTE (Display PBX Data on Phone)?	n
Can Be	e Picked Up By Directed Call Pickup?	У
	Can Use Directed Call Pickup?	У
	Group Controlled Restriction:	inactive

Type **change feature-access-codes** to access the feature codes on Communication Manager. Scroll to **Page 5** in order to view or change the **Service Observing** access codes. Note the **Service Observing Listen Only Access Code** is **#43**; this will be required in **Section 7.1** during the setup of the NICE Engage Platform.

change feature-access-codes	Page	5 of	10
FEATURE ACCESS CODE (FAC)	5 -		
Call Center Features			
AGENT WORK MODES			
After Call Work Access Code: #36			
Assist Access Code:			
Auto-In Access Code: #38			
Aux Work Access Code: #39			
Login Access Code: #40			
Logout Access Code: #41			
Manual-in Access Code: #42			
SERVICE OBSERVING			
Service Observing Listen Only Access Code: #43			
Service Observing Listen/Talk Access Code: #44			
Service Observing No Talk Access Code:			
Service Observing Next Call Listen Only Access Code:			
Service Observing by Location Listen Only Access Code:			
Service Observing by Location Listen Only Access Code:			
Service Observing by location histen/lark Access code.			
AACC CONFERENCE MODES			
Restrict First Consult Activation: De	eactivat	ion:	
	activat		

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5.6. Configure H323 Stations for Service Observation

All endpoints that are to be monitored by NICE will need to have IP Softphone set to Y. IP Softphone must be enabled in order for DMCC Service Observe and Single Step Conference to work. Type **change station x** where x is the extension number of the station to be monitored also note this extension number for configuration required in **Section 7.1.** Note the **Security Code** and ensure that **IP SoftPhone** is set to **y**.

change station x			Page	1 of	6
		STATION			
Extension: x		Lock Messages? n	1	BCC: 0	
Type: 9630		Security Code: 1234		TN: 1	
Port: S00101		Coverage Path 1:		COR: 1	
Name: Recorder		Coverage Path 2:	(COS: 1	
		Hunt-to Station:			
STATION OPTIONS					
		Time of Day Lock Table:			
Loss Group:	19	Personalized Ringing Pattern:	1		
		Message Lamp Ext:			
Speakerphone:	-	Mute Button Enabled?	У		
Display Language:	english				
Survivable GK Node Name:					
Survivable COR:		Media Complex Ext:			
Survivable Trunk Dest?	У	IP SoftPhone?	У		
		ID Video Softphere?	n		
	Short /	IP Video Softphone? Prefixed Registration Allowed:		1+	
	SHOFL/	rielixed Registration Allowed:	uerau	LL	

5.7. Configure SIP Stations for Service Observation

The configuration of SIP phones on Communication Manager must be carried out from System Manager. Access the System Manager using a Web Browser by entering http://<FQDN >/SMGR, where <FQDN> is the fully qualified domain name of System Manager or http://<IP Address >/SMGR. Log in using appropriate credentials.

🖉 System Manager - Windows Internet Explorer		×
COO - ktps://smgr63vmpg.devconnect.local/securityserver/UI/Login?org=dc=norte	i, dc=com8goto=https://smgr63vmpg.devconnect.local: 💌 😵 Certificate Error 🫛 🚱 🔀 🔂 Bing	-
File Edit View Favorites Tools Help		
🚖 Favorites 🛛 🚔 🙋 SMGR62 🙋 NICE Perform® 🙋 SMGR63VMPG 🙋 RP_SMGR 🙋 A	Naya-Nortel PEP Library	
System Manager	🛐 👻 🔂 👘 🗹 Page 🗸 Safety 🛩 Tools 👻 🔞 🗸	**
AVAVA		
Aura [®] System Manager 6.3		
	User ID: admin	
This is Paul's PBX so unless you have his permission to enter	Password:	
please go away.		
	Log On Reset	
	Supported Browsers: Internet Explorer 8.x, 9.x or 10.x or Firefox 19.0, 20.0 or 21.0.	

From the home page click on **User Management** highlighted below.

Aura [®] System Manager 6.3		Last Logged on at April 28, 2014 3:26 PM Help About Change Password L og off admin
Home Routing ×		
au Users	🔩 Elements	🖏 Services
Administrators	Collaboration Environment	Backup and Restore
Directory Synchronization	Communication Manager	Bulk Import and Export
Groups & Roles	Communication Server 1000	Configurations
User Management	Conferencing	Events
User Provisioning Rule	IP Office	Geographic Redundancy
	Meeting Exchange	Inventory
	Messaging	Licenses

Click on Manager Users in the left window. Select the station to be edited and click on Edit.

AVAYA Aura [®] System Manager 6.3					Last Logger	1 on at November 18, 2014 12:15 PM
Home User Management	×					
👻 User Management 4	Home / Users / User Management /	Manage Users				0
Manage Users			\odot			Help ?
Public Contacts			<u> </u>			
Shared	User Management					
Addresses	User Management					
System						
Presence ACLs	Users					
Communication Profile	View /Edit ONew	Duplicate	Opelete More Actions •			Advanced Search 💿
Password Policy	31 Items 💝 Show 15 🔽					Filter: Enable
	Last Name	First Name	🔺 Display Name	Login Name	SIP Handle	Last Login
	SIP SIP	EXT1000	SIP, EXT1000	1000@devconnect.local	1000	
	SIP	EXT1001	SIP, EXT1001	1001@devconnect.local	1001	
	SIP SIP	EXt3399	SIP, EXt3399	3399@devconnect.local	3399	

PG; Reviewed: SPOC 2/23/2015 Solution & Interoperability Test Lab Application Notes ©2015 Avaya Inc. All Rights Reserved. 11 of 78 NICE63_PC51SO Click on the **Communication Profile** tab. Ensure that the **Communication Profile Password** is known and if not click on edit to change it.

AVAYA	Last Logged on at November 18, 2014 12:	15 PM 🖌
Aura [®] System Manager 6.3	🔑 Log off add	min
Home User Management X		
🔻 User Management 🖣 Ho	iome / Users / User Management / Manage Users	0
Manage Users	Help	?
Public Contacts	User Profile Edit: 1000@devconnect.local Commit & Continue Commit & Continue Commit & Continue Commit Cancel	- 11
Shared		
Addresses	Identity * Communication Profile Membership Contacts	
System	Communication Profile .	112
Presence ACLs	Communication Profile Password: Edit	
Communication		
Profile	New Operate Concel	
Password Policy	Name	
	Primary	11
	Select : None	
	* Name: Primary	
	Default :	

From the same page scroll down to **CM Endpoint Profile** and enter the **Security Code**, note this should be the same as the password above and will be required again in **Section 7.1** during the configuration of the NICE Engage Platform. Click on **Endpoint Editor** to make further changes.

CM Endpoint Profile 🖲	
* Sys	смезумрд 🗸
* Profile T	Type Endpoint
Use Existing Endpo	pints
* Extens	sion Q,1000 Endpoint Editor
Temp	Select/Reset
Set T	Sype 9621SIP
Security C	Code •••••
	Port 9 \$00002
Voice Mail Num	nber
Preferred Har	ndle (None)
Enhanced Callr-Info display for 1-line pho	ones 🔲
Delete Endpoint on Unassign of Endpoint User or on Delete U	
Override Endpoint Name and Localized Na	ame 🗹

In the **General Options** tab ensure that **Type of 3PCC Enabled** is set to **Avaya** as is shown below. Also that Class of Restriction is set to that configured in **Section 5.5**.

AVAYA Aura [®] System Manager 6.3				Last Logged on at November 18, 2014 12:15 PM
Home User Management	×			
🔻 User Management 🖣	Home / Users / User Management / Manage Users			0
Manage Users				Help ?
Public Contacts	Edit Endpoint			Dana Cancel
Shared				D <u>o</u> ne <u>C</u> ancel
Addresses				[Save As Template]
System				
Presence ACLs				
Communication	System	CM63VMPG	Extension	1000
Profile	Template	Select	Set Type	9621SIP
Password Policy	Port	S00002	Security Code	•••••
	Name	SIP, EXT1000		
	General Options (6) * Feature Options Group Membership (M)	(F) Site Data (S) Abbreviated	d Call Dialing (A) Enhanced Call Fwd (E) Butto	on Assignment (B) Profile Settings (P)
	* Class of Restriction (COR)	1 ×	* Class Of Service (COS)	1
	* Emergency Location Ext	1000	* Message Lamp Ext.	1000
	* Tenant Number	1		
	* SIP Trunk	Q.1	Type of 3PCC Enabled	Avaya
	Coverage Path 1		Coverage Path 2	
	Lock Message		Localized Display Name	SIP, EXT1000
	Multibyte Language	Not Applicable		
	*Required			

Click on the **Feature Options** tab and ensure that **IP Softphone** is ticked as shown. Click on **Done** once this is set (not shown).

General Options (G) * Feature O	Options (F) Site Data (S) A	bbreviated Call Dialing (A)	Enhanced Call Fwd (E)	Button Assignment (B)	Profile Settings (P)
Group Membership (M)					
Active Station Ringing MWI Served User Type Per Station CPN - Send Calling Number IP Phone Group ID	single V qsig-mwi V None V	Cov	o Answer erage After Forwarding olay Language t-to Station	none V system V english V	
Remote Soft Phone Emergency Calls LWC Reception AUDIX Name	as-on-local V	Loss	s Group vivable COR e of Day Lock Table	19 internal V None V	
EC500 State Short/Prefixed Registration Allowed	enabled V default V		ation se Mail Number		
Music Source					
Always Use			Idle Appearance Prefer	rence	
□ IP Audio Hairpinning					
Bridged Call Alerting					
Bridged Idle Line Preference CDR Privacy					
✓ Coverage Message Re	trieval				
Data Restriction					
Survivable Trunk Dest	t		H.320 Conversion		
Bridged Appearance O	Drigination Restriction		IP Video Softphone		
Restrict Last Appearar	nce		Per Button Ring Contro	ol	

Solution & Interoperability Test Lab Application Notes ©2015 Avaya Inc. All Rights Reserved. Click on **Commit** once this is done to save the changes.

AVAYA	Last Logged on at November 18, 2014 12:15 PM
Aura [®] System Manager 6.3	Log off admin 🖌 لوم
Home User Management X	
🔻 User Management 🖣	ome / Users / User Management / Manage Users
Manage Users	Help ?
Public Contacts	User Profile Edit: 1000@devconnect.local Commit & Continue Commit & Continue Commit & Continue
Shared	
Addresses	Identity * Communication Profile Membership Contacts
System	Communication Profile
Presence ACLs	Communication Profile Password:
Communication	
Profile	SNew Delete EDone Cancel
Password Policy	Name
	Primary
	Select : None
	* Name: Primary
	Default :
	Default -

5.8. Configure Virtual Stations for Single Step Conference and Service Observation

Add virtual stations to allow NICE Engage Platform record calls using Single Step Conference and Service Observe. Type **add station x** where x is the extension number of the station to be configured also note this extension number for configuration required in **Section 7.1**. Note the **Security Code** and ensure that **IP SoftPhone** is set to **y**. Note also the **COR** for the stations, this will be set to that configured in **Section 5.5**.

add station 28902		Page	1 of 6
		STATION	
Extension: 28902		Lock Messages? n	BCC: 0
Type: 4624		Security Code: 1234	TN: 1
Port: S00101		Coverage Path 1:	COR: 1
Name: Recorder		Coverage Path 2:	COS: 1
		Hunt-to Station:	
STATION OPTIONS			
		Time of Day Lock Table:	
Loss Group:	19	Personalized Ringing Pattern:	1
		Message Lamp Ext:	28902
Speakerphone:	2-way	Mute Button Enabled?	У
Display Language:	english		_
Survivable GK Node Name:			
Survivable COR:	internal	Media Complex Ext:	
Survivable Trunk Dest?	У	IP SoftPhone?	У
		IP Video Softphone?	n
	Short/1	Prefixed Registration Allowed:	default

6. Configure Avaya Aura® Application Enablement Services

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

- Verify Licensing
- Create Switch Connection
- Administer TSAPI link
- Identify Tlinks
- Enable TSAPI Ports
- Create CTI User
- Set Up Security Database on AES
- Associate Devices with CTI User

6.1. Verify Licensing

To access the AES Management Console, enter **https://<ip-addr>** as the URL in an Internet browser, where <ip-addr> is the IP address of AES. At the login screen displayed, log in with the appropriate credentials and then select the **Login** button.

AVAYA	Application Enablement Services Management Console	
		Неір
	Please login here: Username Password Login	
	© Copyright © 2009-2012 Avaya Inc. All Rights Reserved.	

The Application Enablement Services Management Console appears displaying the **Welcome to OAM** screen (not shown). Select **AE Services** and verify that the TSAPI Service is licensed by ensuring that **TSAPI Service** is in the list of **Services** and that the **License Mode** is showing **NORMAL MODE**. If not, contact an Avaya support representative to acquire the proper license for your solution.

	Application Enablement Services Management Console			Welcome: User craft Last login: Wed Dec 12 10:45:16 Number of prior failed login atter HostName/IP: aceS2vmgo.devco Server Offer Type: SWONLY SW Version: r6-2-0-18-0 Server Date and Time: Thu Dec	mpts: 0 innect.local/10.10.40.10
AE Services					Home Help Lo
▼ AE Services					
> CVLAN	AE Services				
> DLG					
> DMCC	IMPORTANT: AE Services must be restarted fo Changes to the Security Database do not regu		take effect.		
> SMS					
		Status	State		
► TSAPI	Service	Status	State	License Mode	Cause*
> TSAPI	ASAI Link Manager	N/A	Running	N/A	Cause*
▶ TWS					
▶ TWS Communication Manager	ASAI Link Manager	N/A	Running	N/A	N/A
 TWS Communication Manager Interface 	ASAI Link Manager CVLAN Service	N/A ONLINE	Running Running	N/A NORMAL MODE	N/A N/A
TWS Communication Manager Interface Licensing	ASAI Link Manager CVLAN Service DLG Service	N/A ONLINE OFFLINE	Running Running Running	N/A NORMAL MODE N/A	N/A N/A N/A
TWS Communication Manager Interface Licensing Maintenance	ASAI Link Manager CVLAN Service DLG Service DMCC Service	N/A ONLINE OFFLINE ONLINE	Running Running Running Running	N/A NORMAL MODE N/A NORMAL MODE	N/A N/A N/A N/A
TWS Communication Manager Interface Licensing	ASAI Link Manager CVLAN Service DLG Service DMCC Service TSAPI Service	N/A ONLINE OFFLINE ONLINE ONLINE N/A	Running Running Running Running Running	N/A NORMAL MODE N/A NORMAL MODE NORMAL MODE	N/A N/A N/A N/A N/A

6.2. Create Switch Connection

From the AES Management Console navigate to **Communication Manager Interface** \rightarrow **Switch Connections** to set up a switch connection. Enter a name for the Switch Connection to be added and click the **Add Connection** button.

> AE Services ↓ Communication Manager Interface Switch Connections CM63VMPG Add Connection > Dial Plan Connection Name Processor Ethernet Msg Period Number of Active Connections	10.10.40.140 N_VMWARE UTC 2013
Communication Manager Interface Switch Connections Switch Connections CM63VMPG Dial Plan Connection Name Processor Ethernet Msg Period Number of Active Connections	lp Logout
Connection Name Processor Etherniet Pisg Period Number of Active Connections	
> Licensing	
Maintenance Edit Connection Edit PE/CLAN IPs Edit H.323 Gatekeeper Delete Connection Survivability Hierarchy	
> Security	
→ Status	
User Management	
> Utilities	
> Help	

In the resulting screen enter the **Switch Password**; the Switch Password must be the same as that entered into Communication Manager AE Services Administration screen via the **change ip-services** command, described in **Section 5.3**. Default values may be accepted for the remaining fields. Click **Apply** to save changes.

AVAYA	Application Enablement Services Management Console			Welcome: User craft Last login: Thu Nov 14 10:22:12 2013 from 10.10.40.14 Number of prior failed login attempts: 16 HostName/IP: AESGSVMPG Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.00.212-0 Server Date and Time: Tue Dec 3 15:35:47 UTC 2013
Communication Manager Interfa	ce Switch Connections			Home Help Logou
AE Services Communication Manager Interface Switch Connections Dial Plan	Connection Details -	•••••		
Licensing	Msg Period	30 Min	utes (1 - 72)	
 Maintenance 	SSL			
▶ Networking	Processor Ethernet			
▹ Security	Apply Cancel			
▶ Status				
▹ User Management				
▶ Utilities				
▶ Help				

From the **Switch Connections** screen, select the radio button for the recently added switch connection and select the **Edit PE/CLAN IPs** button (not shown, see screen at the bottom of page 10). In the resulting screen, enter the IP address of the procr as shown in **Section 5.2** that will be used for the AES connection and select the **Add/Edit Name or IP** button.

AVAYA	Application Enablement Services Management Console	Welcome: User craft Last login: Thu Nov 14 10:22:12 2013 from 10.10.40.140 Number of prior failed login attempts: 16 HostName/IP: AESSOWMEG Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.00.212-0 Server Date and Time: Tue Dec 03 15:36:31 UTC 2013
Communication Manager Interfac	ce Switch Connections	Home Help Logout
→ AE Services	Edit Processor Ethernet IP - CM63vmpg 10.10.40.31 Add/Edit Name or IP	
Dial Plan	Name or IP Address	Status
 Licensing Maintenance 	10.10.40.31 Back	In Use
 Networking 	Dack	
▹ Security		
▶ Status		
▹ User Management		
▶ Utilities		
▶ Help		

6.3. Administer TSAPI link

From the Application Enablement Services Management Console, select AE Services \rightarrow TSAPI \rightarrow TSAPI Links. Select Add Link button as shown in the screen below.

AVAYA	Application Enablement Services Management Console	Welcome: User craft Last login: Thu Dec 15 19:28:13 2011 from 10.10. HostName/IP: devconaes611/10.10.16.29 Server Offer Type: TURNKEY SW Version: r6-1-1-30-0
AE Services TSAPI TS	API Link	Home Help Logout
► AE Services	TSAPI Links	
> DLG	Link Switch Connection Switch CTI Lin	nk # ASAI Link Version Security
DMCC SMS	Add Link Edit Link Delete Link	
TSAPI		
TSAPI Links		
 TSAPI Properties 		
Communication Manage Interface	ger	

On the **Add TSAPI Links** screen (or the **Edit TSAPI Links** screen to edit a previously configured TSAPI Link as shown below), enter the following values:

- Link: Use the drop-down list to select an unused link number.
- Switch Connection: Choose the switch connection CM63vmpg, which has already been configured in Section 6.2 from the drop-down list.
- Switch CTI Link Number: Corresponding CTI link number configured in Section 5.4 which is 1.
- **ASAI Link Version:** This can be left at the default value of **5**.
- Security: This can be left at the default value of **Both**.

Once completed, select Apply Changes.

Αναγα	Application Enablement Services Management Console	Last login: Thu Nev 14 10:22:12 2013 from 10.10.40.140 Number of prior failed login attempts: 16 HostName/IP: AESG3MPG Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.0.0.212-0 Server Date and Time: Tue Dec 03 15:37:38 UTC 2013
AE Services TSAPI TSAPI Links	•	Home Help Logout
	Edit TSAPI Links Link 1 Switch Connection CM63vmpg Switch CTI Link Number 1 ASAI Link Version 5 Security Both V Apply Changes Cancel Changes (Advanced Settings)	

Another screen appears for confirmation of the changes made. Choose **Apply**.

AVAYA	Application Enablement Services Management Console	Welcome: User craft Last login: Thu Dec 15 19:28:13 2011 from 10.10.16.62 HostName/IP: devconaes611/10.10.16.29 Server Offer Type: TURNKEY SW Version: r6-1-1-30-0
AE Services TSAPI T	SAPI Link	Home Help Logout
► AE Services ► CVLAN ► DLG ► DMCC	Apply Changes to Link Warning! Are you sure you want to apply the changes? These changes can only take effect when the TSAPI server n Please use the Maintenance -> Service Controller page to re	
SMS TSAPI TSAPI Links TSAPI Properties Communication Mana Interface		

When the TSAPI Link is completed, it should resemble the screen below.

Αναγα	Applica	Application Enablement Services Management Console			The Dec 3 15:32:14 2013 from 10.10.40.225 f prior failed login attempts: 17 /IP: AESS3WIPG fer Type: VIRTUAL_APPLIANCE_ON_VMWARE n: 6.3.0.0.212-0 te and Time: Tue Dec 03 16:34:53 UTC 2013
AE Services TSAPI TSAPI Li	nks				Home Help Logout
▼ AE Services	TSAPI Links				
▶ DLG	Link	Switch Connection	Switch CTI Link #	ASAI Lin	k Version Security
▶ DMCC	⊙ 1 CM6	i3vmpg	1	5	Both
▶ SMS	Add Link Edit	Link Delete Link			
▼ TSAPI					
 TSAPI Links TSAPI Properties 					

The TSAPI Service must be restarted for the changes made in this section to take effect. From the Management Console menu, navigate to **Maintenance** \rightarrow **Service Controller**. On the Service Controller screen, tick the **TSAPI Service** and select **Restart Service**.

avaya 🔺	pplication Enablement Services Management Console	Welcome: User craft Last login: Thu Dec 15 19:28:13 2011 from 10.10.16.6 HostName/P: devconaes611/10.10.16.29 Server Offer Type: TURNKEY SW Version: r6-1-1-30-0
Maintenance Service Control	ler	Home Help Logo
▶ AE Services Communication Manager Interface	Service Controller	
▶ Licensing	Service Controller Status	
▼ Maintenance	ASAI Link Manager Running	
Date Time/NTP Server	DMCC Service Running	
Security Database	CVLAN Service Running	
Service Controller	DLG Service Running	
▶ Server Data	Transport Layer Service Running	
▶ Networking	TSAPI Service Running	
▶ Security	For status on actual services, please use Status and Control	
▶ Status	Start Stop Restart Service Restart AE Server	Restart Linux Restart Web Server
▶ User Management		

6.4. Identify Tlinks

Navigate to **Security** \rightarrow **Security Database** \rightarrow **Tlinks**. Take note of the value of the **Tlink Name**, it will be needed later to configure the NICE CTI Connection in **Section 8.1**.

Αναγα	Application Enablement Services Management Console
Security Security Database Th	inks
 AE Services Communication Manager Interface 	Tlinks
Licensing	
 Maintenance Networking 	 AVAYA#CM63VMPG#CSTA#AES63VMPG AVAYA#CM63VMPG#CSTA-S#AES63VMPG
▼ Security	Delete Tlink
Account Management	
▶ Audit	
› Certificate Management	
Enterprise Directory	
▶ Host AA	
▶ PAM	
Security Database	
Control	
 Devices 	
 Device Groups 	
 Tlinks 	

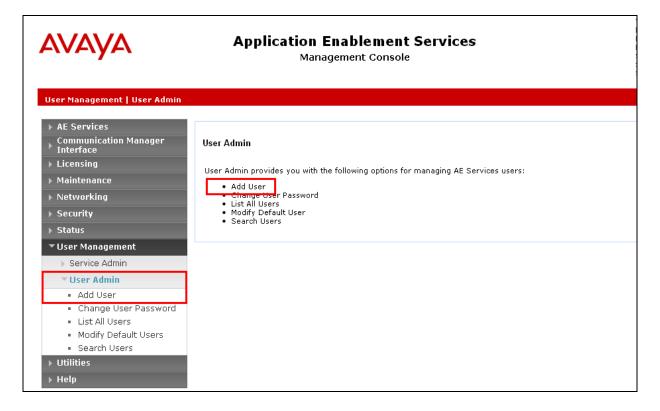
6.5. Enable TSAPI Ports

To ensure that TSAPI ports are enabled, navigate to **Networking** \rightarrow **Ports**. Ensure that the TSAPI ports are set to **Enabled** as shown below. Ensure that the **DMCC Server Ports** are also **Enabled** and take note of the **Unencrypted Port 4721** which will be used later in **Section 8.1**.

Αναγα	Application Enablement Services Management Console				Number of prior failed login attempts: 0 Number of prior failed login attempts: 0 HostName/IP: AES63VMPG/10.10.40.30 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 5.3.3.10-0 Server Date and Time: Mon Dec 01 16:06:19 GMT 2014 HA Status: Not Configured
Networking Ports					Home Help Logout
> AE Services					
Communication Manager	Ports				
High Availability	CVLAN Ports			Enabled Disabled	
 Licensing 		Unencrypted TCP Port	9999	• •	
 Maintenance 		Encrypted TCP Port	9998	• •	
▼ Networking					
AE Service IP (Local IP)	DLG Port	TCP Port	5678		
Network Configure	TSAPI Ports			Enabled Disabled	
Ports		TSAPI Service Port	450	• •	
TCP Settings		Local TLINK Ports			
▶ Security		TCP Port Min TCP Port Max	1024 1039		
▶ Status		Unencrypted TLINK Ports			
User Management		TCP Port Min	1050		
 Utilities 		TCP Port Max	1065		
		Encrypted TLINK Ports			
▶ Help		TCP Port Min	1066		
		TCP Port Max	1081		
	DMCC Server Ports			Enabled Disabled	
	brice berrer rolls	Unencrypted Port	4721		
	•	Encrypted Port	4722	\odot \bigcirc	
		TR/87 Port	4723		

6.6. Create CTI User

A User ID and password needs to be configured for the NICE Engage Platform to communicate with the Application Enablement Services server. Navigate to the User Management \rightarrow User Admin screen then choose the Add User option.



In the **Add User** screen shown below, enter the following values:

- User Id This will be used by the NICE Engage Platform setup in Section 8.1.
- Common Name and Surname Descriptive names need to be entered.
- User Password and Confirm Password This will be used with NICE Engage Platform setup in Section 8.1.
- **CT User -** Select **Yes** from the drop-down menu.

Complete the process by choosing **Apply Changes** at the bottom of the screen (not shown).

AVAYA	Application Enablement Management Console			Welcome: User cust Last login: Thu Nov 27 13:38:43 2014 from 10.10.60.50 Number of prior failed login attempts: 0 HostName/IP: AFSSWMPG/10.10.40.30 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Verrion: 63.33.11.0-0 Server Date and Time: Mon Dec 01 16:03:36 GMT 2014 HA Status: Not Configured
User Management User Admin Lis	st All Users			Home Help Logout
 AE Services Communication Manager Interface 	Edit User			
High Availability	* User Id	nice		
▶ Licensing	* Common Name	nice		
▶ Maintenance	* Surname	nice		
▶ Networking	User Password			
▹ Security	Confirm Password			
▶ Status	Admin Note		_	
▼ User Management	Avaya Role	None	•	
Service Admin	Business Category			
▼ User Admin	Car License			
 Add User 	CM Home Css Home			
 Change User Password 	CT User	Yes 🗸	-	
List All Users	Department Number	Tes •		
 Modify Default Users Search Users 	Display Name			
Utilities	Employee Number			
> Help	Employee Type			

6.7. Associate Devices with CTI User

Navigate to Security \rightarrow Security Database \rightarrow CTI Users \rightarrow List All Users, select nice under User ID, and click on Edit.

	Application Enablement Services Management Console		Last login: Thu Nov 27 13:33:43 2014 from 10.10.60. Number of prior failed login attempts: 0 HostName/IP: AES63VMPC/10.10.40.30 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.3.1.10-0 Server Date and Time: Mon Dec 01 16:05:02 GMT 201 HA Status: Not Configured Home Help Logo		
AE Services Communication Manager Interface	CTI Users			nome nep Logo	
High Availability	<u>User ID</u>	Common Name	Worktop Name	Device ID	
Licensing	O asc	asc	NONE	NONE	
Maintenance	C cube	cube	NONE	NONE	
 Networking Security 	0 emc	emc	NONE	NONE	
Account Management	🔿 jacada	jacada	NONE	NONE	
Audit Certificate Management	• nice	nice	NONE	NONE	
Enterprise Directory	O presence	presence	NONE	NONE	
Host AA PAM Control Control CTI Users List All Users	Edit List All	JL	JL.	J[]	

In the main window ensure that **Unrestricted Access** is ticked. Once this is done click on **Apply Changes**.

AVAYA	••	blement Services ent Console	Last login: Thu Nov 27 13:38:43 2014 from 10.10.60.50 Number of prior failed login attempts: 0 HostName/JP: AESG3VMPG/10.10.40.30 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 6.3.3.1.10-0 Server Date and Time: Mon Dec 01 16:05:37 GMT 2014 HA Status: Not Configured		
Security Security Database C	TI Users List All Users		Home Help Logout		
AE Services Communication Manager	Edit CTI User				
▶ Interface	Euremost				
High Availability	User Profile:	User ID	nice		
▶ Licensing		Common Name	nice		
Maintenance		Worktop Name			
 Networking 		Unrestricted Access			
 Security 	Call and Device Control:	Call Origination/Termination and Device Status	None 🗸		
Account Management					
> Audit	Call and Device Monitoring:	Device Monitoring	None V		
Certificate Management		Calls On A Device Monitoring	None 🗡		
		Call Monitoring			
Enterprise Directory					
Host AA	Routing Control:	Allow Routing on Listed Devices	None 🗸		
► PAM	Apply Changes Cancel Changes				
Security Database					
Control					
CTI Users					
List All Users					

7. Configure Avaya Proactive Contact

It is assumed that a fully operational Proactive Contact is in place and the connection is made to Communication Manager in order to acquire agents. Documentation on the Installation and Configuration of Proactive Contact may be found in **Section 11** of these Application Notes.

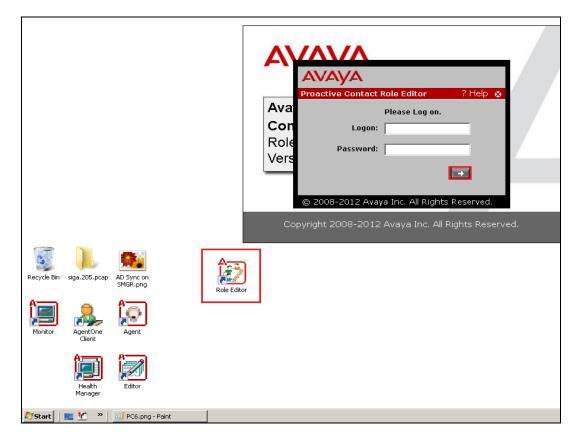
7.1. Obtain Proactive Contact Certificates

NICE Engage Platform is required to register certificates from Avaya Proactive Contact and these certificates can be obtained as follows:

- 1. On the Proactive Contact server, go to /opt/avaya/pds/openssl
- Copy the following files /private/corbaServer_key.pem /certificate/corbaServer_cert.pem /cacertificate/ProactiveContactCA.pem
- 3. Paste the above three files into the C:\Certificates folder on the NICE Engage Platform.

7.2. Check Proactive Contact Event User Details

Proactive Contact is installed with 10 pre-configured agents Agent 01-10 with corresponding passwords. The default client1 was used to register for events from Proactive Contact. To check on these users open Proactive Contact **Role Editor**, enter the correct credentials and click on the login icon highlighted.



PG; Reviewed: SPOC 2/23/2015 Solution & Interoperability Test Lab Application Notes ©2015 Avaya Inc. All Rights Reserved. 25 of 78 NICE63_PC51SO Click on **User Management** at the top left of the screen and select the correct **Tenant** from the main window. A list of **Tenant Users** is then displayed in the right window with **Client1** highlighted as shown. If this user is not present a different user may be used to monitor events. Note this Client1 user will be used later in **Section 8.3**.

Proactive Contact Administration Tool- [Tenant Management: Default - Active]								
File Edit View Sett	ings Help							
] 🖩 X ¥ 🖪 💡	•							
Role Management	Tenant Managemer	nt: Default - Active						
User Management				1				
	Tenant Name Ten01	Tenant Description First Alternative Tenant	Dialer DEVCONHD501	Version Active	Attribute Blend Domain Group	Δ	Attribute Value	
*	Default	Default Tenant	DEVCONHD501	Active	Calling Lists		978	
	Derauk	Delauk Tehank	DEVCONINDION	Active	Completion Codes		210-999	
					Description		Default Tenant	
Reports					Tenant Users			
					User Name	🔺 🛛 User Type		Tenant Administrator
					admin	system		
					agent1	agent		
					agent10	agent		
					agent2	agent		
					agent3	agent		
					agent4	agent		
					agent5	agent		
					agent6	agent		
					agent7	agent		
					agent8	agent		
					agent9	agent		
					analysis	pcanal		
					auditor	auditor		
					client1	agent		
					cust1	system		
					dadmin	system		
					leadadm	leadadm		
					roleadm	rbac		
					rsync	system		
					sysadm	sysadm		
					system	system		
					ten01adm	sysadm		

7.3. Start Proactive Contact Jobs running

To start a job on Proactive Contact open Proactive Contact **Editor**, enter the correct credentials and click on the login icon highlighted.

Recycle Bin Image: Siga 205, pcap Monitor Image: Siga 205, pcap Monitor Image: Siga 205, pcap Image: Siga 205, pcap <t< th=""><th>Image: Constant Supervisor image: Constant S</th></t<>	Image: Constant Supervisor image: Constant S
🔊 Start 📋 📰 🐮 \Rightarrow 🗍 🧭 PC1.png - Paint	

Once logged in click on any job that requires starting for example **outbnd2** as is highlighted below and right-click on that job and select **Run**. That will start that particular job and allow the Proactive Contact agents to join that job.

🖋 Editor - [Jobs: Active outbnd2]									
ile Edit View Settings	· · · ·								
devconhd501 📃 💌	🕼 Default	_	🗅 📂 📑		$ \rightarrow $	0 X 🗏	<u>ð</u> ?		
Contact Management	Jobs: Active	outbnd2						Job Detail	
<u>ര</u> ം	Job	Job type	File Version	Outbound list	Inbou	nd list	Status	Setting	Value
\mathbf{w}	outbnd3	Outbound	Active	devconhd501-list10			Running	🖃 Basic	
Strategies	outbnd4	Outbound	Active	devconhd501-list6			Running	Job	generic
ondioglos	outbnd6	Outbound	Active	devconhd501-list8			Running	Tagged	
a, sa an	NiceBlend	Blend	Active	devconhd501-list11	devco	onhd501-inbnd6	Stopped	Percenta	0
	blend	Blend	Active	devconhd501-list1	devco	onhd501-inbnd1	Stopped	Line	REG
Selections	blendPG	Blend	Active	devconhd501-list4	devco	onhd501-inbnd5	Stopped	Earliest	08:00
	inbnd1	Inbound	Active		devco	onhd501-inbnd4	Stopped	Latest	23:57
	inbnd2	Inbound	Active		devco	onhd501-inbnd2	Stopped	Calling	
Selection Reports	inbnd4	Inbound	Active		devco	onhd501-inbnd6	Stopped	Calling	
Selection nepolts	inbnd5pg	Inbound	Active		devco	onhd501-inbnd5	Stopped	Require	
	inbnd6	Inbound	Active		devco	onhd501-inbnd6	Stopped	Transacti	93
	infinity10	Outbound	Active	devconhd501-list10			Stopped	🗆 Call	
Jobs	managed	Managed	Active	devconhd501-list10			Stopped	Call	Expert Calling Ratio
	outbnd	Outbound	Active	devconhd501-list1			Stopped	Expert	W0
<u>a</u>	outbnd2	Outbound	Active	devconhd501-list10			Stopped	Initial hit	50
	outbnd5	Outbound	Active	devconhd501-list7		New	Stopped	Minimum	20
Job Templates	verify	Outbound	Active	devconhd501-list1		Verify	Stopped	Cell	0
	virtual	Virtual	Active	devconhd501-list1		Run	Stopped	Files	
	ManagedPG1	Managed	Active	devconhd501-list10		Stop	Stopped	Outboun	devconhd501-list10
	InboundPG1	Inbound	Active		devo	Delete 6	Stopped	Record	all
								Outboun	list1
								Agent	ag_cmd1
								Do Not	DNC
								Name of	
								Name of	inbnd1
								Interact	
								Allow	
								IVB	
								Initial	
								Script to	
								🗆 Job	

8. Configure NICE Engage Platform

The installation of NICE Engage Platform is usually carried out by an engineer from NICE and is outside the scope of these Application Notes. For information on the installation of the NICE Engage Platform contact NICE as per the information provided in **Section 2.3**.

The following sections will outline the process involved in connecting the NICE Engage Platform to the Avaya Solution. All configuration of the NICE Engage Platform for connection with the AES is performed using a web browser connecting to the NICE Engage Application Server. Open a web browser as shown navigate to

<u>http://<NICEEngageApplicationServerIP>/Nice</u> as shown below and enter the proper credentials and click on **Login**.



Once logged in expand the **Administration** dropdown menu and click on **System Administrator** as highlighted.

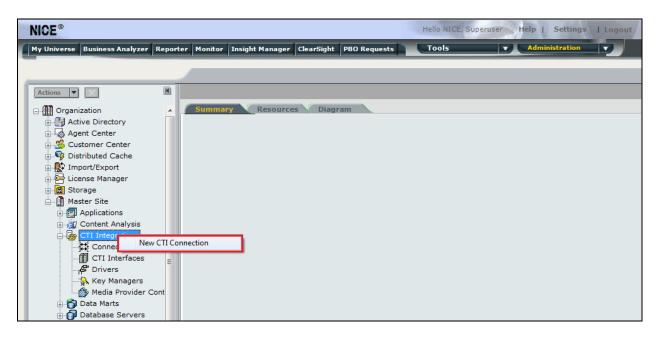
Attp://niceapp-win2012/NiceApplications/Desktop/XbapAp	plications/NiceDesktop.xbap 🛛 🗸 🕈 🖉 niceapp-win2012	×	ĥ ☆ [∰]
NICE®	Helio tICE, Superuser	Help Settings Logo	Business Analyzer
My Universe Business Analyzer Reporter Monitor Insight Mana	ger ClearSight PBO Requests Tools 🔻	Administration	
		Backup Manager	WOS
Interactions	Table View Graph View	Channel Monitoring	KICE
			⁄₀ 🔽 Within results
Interactions 🕀 🛱 Queries	Results for Query:	Rules Manager Authentication Center	🚉 📑 😓 🗈 Preferences
i- 🔛 Saved Items	Group By: 👻	System Administrator	04 4 22 22 27 28 6 1 2 2
Evaluations		Users Administrator	
Q		users reader	
Audit Trail			
Clips			
æ			
Packages			
Feedback			
regularx			

Before any changes can be made, switch to **Technician Mode** by clicking into **Settings** at the top of the screen as shown below.

Hello NICE, Superuser Help Setting	5 Logout Change Password Technician Mode	System Administrator

8.1. New CTI Connection

Navigate to **Master Site** \rightarrow **CTI Integration** in the left window then right-click on CTI Integration and select **New CTI Connection** as shown below.



The **New CTI Connection Wizard** is opened and this will go through the 16 steps required to setup the connection to the AES for DMCC Service Observation and Single Step Conference type of call recording. Click on **Next** to continue.

NICE®	F	ello NICE, Superuser Help Settings Lo	gout System Administrator
My Universe Business	Analyzer Reporter Monitor Insight Manager ClearSight PBO Requests	Tools Administration	
Actions V	New CTI Connection		Apply 🍪 🗎
	Set New CTI Connection Wizard Stage 1 of 16		
Organization Active Direc	Introduction		
Agent Cente			
🕀 🗳 Customer C	This wizard will guide you through the process of configuring a new CTI connection	·	
Distributed 0	1. Interactions Center and Telephony Switch definitions		
⊕ 🕵 Import/Expo ⊕ 🖙 License Man	2. CTI Interface selection		
	3. Interfaces configuration		
🗄 🔐 Master Site	4. Devices configuration		
Applicatio Applicatio Applicatio	5. Monitored Devices configuration		
CTI Integ	6. Selection of optional features		
Conn			
- П сті і	7. Location Requirements		
	8. Summary		
Media			
🗈 🌍 Data Mar			
🗈 👩 Database			
🕀 🕞 Insight to 🕀 🗐 Interactio			
🗈 🔡 Logger O			
🗄 🗍 Logger S			
🗈 👰 Media Int			
🕕 🛃 Media Lib			
Hecorder		Back Next Cancel	
	· · · · · · · · · · · · · · · · · · ·		
Security			
System N	apping -		
	F III		

Solution & Interoperability Test Lab Application Notes ©2015 Avaya Inc. All Rights Reserved. The value for Regular Interactions Center is a value that was already created during the installation of the NICE Engage platform. This value is therefore pre-chosen for the CTI connection being created below.

The **Telephony Switch** must be selected, under **Switch Type** select **Avaya CM** from the dropdown menu. Enter a suitable name for this **Switch Name**. Click on **Next** to continue.

New CTI Connection	
Set New CTI Connection Wiza	ard Stage 2 of 16
Interactions Center Switch	
Attach CTI to Interactions Center Server:	•]
Operation Define new Telephony Switch:	
Switch Type:	Avaya CM 👻
Switch Name:	DevConnectCM
	Advanced >>
1	
	Back Next Cancel

Select **AES TSAPI** for the **Avaya CM CTI Interface**, ensure that **Active Recording** is ticked and select the **DMCC** (**Advanced integration Recorder**) from the dropdown menu. Click on **Next** to continue.

New CTI Connection							
Set New CTI Connection Wizard Stage 3 of 16							
Interface Type							
CTI Interface Type							
Avaya CM CTI Interface:	AES TSAPI						
	Avaya Communication Manager Avaya Application Enablement Services (AES) / Avaya CT - TSAPI						
VoIP Mapping:	AES SMS *						
Additional VoIP Mapping:	Generic SIP Mapper v						
Active Recording:	DMCC (Advanced Interaction Recorder)						
	Avaya Communication Manager Device Media and Call Control						
	Back Next Cancel						

Solution & Interoperability Test Lab Application Notes ©2015 Avaya Inc. All Rights Reserved. Each of the values below must be filled in. Double-click on each **Parameter** to enter a value for that parameter.

New CTI Connection		—					
Set New CTI Connection Wizard Stage 4 of 16							
Interface Parameters							
CTI Interface Details							
Interface Connection Details							
Mandatory fields are marked in bold							
Parameter	Value						
ServerName							
LoginID							
Password							
UseWarmStandBy	No						
Description: Server connection name.							
Additional Interface Parameters		3					
		Back Next Cancel					

Double-click on ServerName and enter the TSAPI link Value from Section 6.4. Click on OK.

New	CTI Connection				23
S	et New C	LI C	onnecti	on Wizard Stage 4 of 16	
In	nterface Par	ame	ters		
c	CTI Interface	e Deta	ils		
	Interface C	onne	ction Deta	ils	
	Mandatory fie	lds ar	Set Paramet	er Value	
	Parameter			face Connection Parameter	
	ServerName		Set Pa	rameter Value	
	LoginID		Jetru		
	Password				
	UseWarmStar	ndBy	Name:	ServerName	
	Description:	Serve			
			Value:	AVAYA#CM63VMPG#CSTA#AES63VMPG	
	Additional I				
	Additional 1	nteri			9
				OK Cancel	
		L.			
				Back	lext Cancel

Double-click on LoginID and enter the username that was created in Section 6.6. Click on OK.

New CTI	Connection				X
Set	New CT	[Con	nectio	n Wizard Stage 4 of 16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Inter	rface Para	meters	5		
CTI	I Interface [Details			
In	nterface Cor	nectio	n Detail	5	
Ma	andatory field	. ar		11	
110	andatory field	Set I	Parameter	Value 🛛	
	arameter			ace Connection Parameter	
	erverName		Set Para	ameter Value	-
	oginID assword	_	out i art		
	assword seWarmStand	By Na	ame:	LoginID	
		-		3	
De	escription: U	Jser			
			alue:	nice	
Ac	dditional In	terf			
				OK Cancel	
			_		9
				Bac	k Next Cancel

Double-click on **Password** and enter the value for the password that was created in **Section 6.6**. Click on **OK** to continue.

New	CTI Connection			X
S	et New CT	I C	onnectio	on Wizard Stage 4 of 16
In	iterface Para	nmet	ers	
r'	CTI Interface	Deta	ils	
	Interface Co	nneo	tion Detail	ls
	Mandatory field	ds arr		
	Parameter		Interf	ace Connection Parameter
	ServerName LoginID		Set Para	ameter Value
	Password			
	UseWarmStand	dBy	Name:	Password
	Description:	User		
			Value:	*****
	Additional In	nterf		
		l		OK
				Back Next Cancel

Solution & Interoperability Test Lab Application Notes ©2015 Avaya Inc. All Rights Reserved. Click on **Next** once all values have been filled in.

New 0	CTI Connection	×
S	et New CTI Connection Wiza	ard Stage 4 of 16
In	terface Parameters	
ī	CTI Interface Details	
	Interface Connection Details	
	Mandatory fields are marked in bold	
	Mandatory fields are marked in bold	
	Parameter	Value
	ServerName	AVAYA#CM63VMPG#CSTA#AES63VMPG
	LoginID Password	nice
	UseWarmStandBy	No
	Description: Is warm standby supported?	
	Additional Interface Parameters	
		Back Next Cancel

The values below must be filled in by double-clicking on each **Parameter**.

New CTI Connection							
Set New CTI Connection Wizard Stage 8 of 16							
Active Recording							
Active Recording Interface Details							
Interface Connection Details							
Mandatory fields are marked in bold							
Parameter	Value						
PrimaryAESServerAddress	=						
PrimaryAESDMCCPort	4722						
PrimaryAESUserName							
PrimaryAESPassword	TOUE						
Description:							
Additional Interface Parameters	() ()						
Media Provider Controllers - Location	8						
	Back Next Cancel						

Enter the	Value for	the AESSer	verAddress.	Click on Ol	K.
-----------	-----------	------------	-------------	-------------	----

New CTI Connection		8
Set New CTI Connec	tion Wizard Stage 8 of 16	18-211141
Active Recording		
Active Recording Interface	Details	
Interface Connection De	tails	
Mandatory fields are marked	in bold	
Parameter	Set Parameter Value	<u>^</u>
PrimaryAESServerAddress	Interface Connection Parameter	=
PrimaryAESDMCCPort PrimaryAESUserName	Set Parameter Value	
PrimaryAESPassword Description: AES Server IP /	Name: PrimaryAESServerAddress	
Additional Interface Para	Value: 10.10.40.30	8
Media Provider Controllers		8
	OK Cancel	
	Back Next	Cancel

Enter the **Value** for the **AESDMCCPort**, note this will be the same port that was configured in **Section 6.5**. In this example the unencrypted port **4721** is entered.

New CT	T Connection						8
Set	t New CTI C	onnectio	n Wizard Stage 8	3 of 16		in the	
Acti	ive Recording						
Ac	ctive Recording I	nterface De	tails				
T	nterface Conne	tion Detail	5				
						6	
	1andatory fields ar	Set Parameter	Value			La La	<u></u>
	Parameter	Interfa	ace Connection P	arameter	111111		_^
	PrimaryAESServerA PrimaryAESDMCCP	Set Para	ameter Value				E
	Primary AESUserNar						
	PrimaryAESPasswoi	Name:	PrimaryAESDMCCPort				+
	Description: DMC						
		Value:	4721		-		
A	dditional Interf						8
Mo	dia Provider Co			OK Car	cel		
Pier	dia Provider co						
_					Back	Next	ancel

Solution & Interoperability Test Lab Application Notes ©2015 Avaya Inc. All Rights Reserved. As before enter the username that was created in **Section 6.6** and click on **OK**.

New	CTI Connection			X
S	et New CTI C	onnectio	n Wizard Stage 8 of 16	and the Plants
A	ctive Recording			
L.	Active Recording 1	nterface De	tails	
	Interface Conne		-	
	Mandatory fields ar	Set Parameter	Value	
	Parameter		ace Connection Parameter	*
	PrimaryAESDMCCP PrimaryAESUserNar	Set Par	ameter Value	=
	PrimaryAESPasswor PrimaryAESSecured	Name:	PrimaryAESUserName	-
	Description: User	Value:	nice	
	Additional Interf			S
N	Media Provider Co		OK Cancel	3
				1
_			Back	Next Cancel

Enter the password that was created in **Section 6.6** and click on **OK**.

New CTI Connection		X
Set New CTI C	onnection Wizard Stage 8 of 16	and the spirit
Active Recording		
Active Recording	Interface Details	
Interface Conne	ction Details	8
Mandatory fields a	Set Parameter Value	
Parameter		
PrimaryAESDMCCP	Interface Connection Parameter	
PrimaryAESUserNa	Sot Daramotor Valuo	E
PrimaryAESPasswo		
PrimaryAESSecure	Name: PrimaryAESPassword	-
Description: Pass		
Additional Inter		
Additional Inter		
Media Provider Co	OK Cancel	8
		•
	Back	Next Cancel

Since unencrypted port was chosen, select **False** for the **PrimaryAESSecuredConnection**. Click on **OK** and then **Next** (not shown) to continue.

New CTI Connection		23
Set New CTI C	onnection Wizard Stage 8 of 16	
Active Recording		
Active Recording	nterface Details	
Interface Conne	tion Details	
Mandatory fields ar	Set Parameter Value	
Parameter	Interface Connection Parameter	· ·
PrimaryAESDMCCP PrimaryAESUserNa	Set Parameter Value	
PrimaryAESPasswo PrimaryAESSecured	Name: PrimaryAESSecuredConnection	
Description: India		on must be set)
	Value: FALSE -	
Additional Inter		
Media Provider Co	OK Cancel)
		ack Next Cancel

Click on **Additional Interface Parameters**, then to change the Service Observation Code double-click on **ObservationCode**.

New CTI Connection	×
Set New CTI Connection Wi	zard Stage 8 of 16
Active Recording	
Active Recording Interface Details	
Interface Connection Details	0
Additional Interface Parameters	
Mandatory fields are marked in bold	
Parameter	Value
EnableNATManipulation	no
ObservationCode	
LinkFIFOSize	500
ResourceCleanupDelay	0
Description:	
Media Provider Controllers - Locatio	n
	Back Next Cancel

Enter the **Value** that was created in **Section 5.5**. This was the Service Observing Listen Only Access Code **#43**. Click on **OK** to continue.

New	CTI Connection					23
S	et New CTI C	onnectio	n Wizard Stage 8 o	of 16		
A	ctive Recording					
ſ	Active Recording 1	Interface De	tails			
	Interface Conne	ction Detail	5			8
	Additional Interf	ace Parame	ters			
	Mandatory fields ar	Set Parameter	Value			
	Mandatory fields ar	Interfa	ace Additional Para	meter	neto o	
	Parameter	Sot Dar:	ameter Value			<u>^</u>
	EnableNATManipula	SetPara	ameter value			E
	ObservationCode					
	LinkFIFOSize	Name:	ObservationCode			
	ResourceCleanupD					
	Description: The	Value:	#43		servation)	
	Description. me		**5			
	Media Provider Co			OK Car	ncel	8
_					Back Next	Cancel

Click on Media Provider Controllers – Location to expand this field.

New CTI Connection		— ×
Set New CTI Connection	Wizard Stage 8 of 16	A State State
Active Recording		
Active Recording Interface Deta	ils	
Interface Connection Details		8
Additional Interface Paramete	rs	(
Mandatory fields are marked in bol	i	
Parameter	Value	<u> </u>
EnableNATManipulation	no	E
ObservationCode		
LinkFIFOSize	500	
ResourceCleanup Delay	0	.
Description:		
Media Provider Controllers - Loc	ation	3
	_	Back Next Cancel

Enter the **Server IP/Hostname** of the Nice Active Server. Click on the + icon to add this entry. The **Connection Manager Port** should already be filled in with the value shown below.

New CTI Connection			×				
Set New CTI Conne	ction Wizard Stage 8 o	of 16					
Active Recording							
Active Recording Interfa	e Details						
Interface Connection D	etails		8				
Additional Interface Pa	rameters						
Media Provider Controlle	s - Location						
Media Provider Location			Ĭ				
Server IP/Hostname	NICEActive2012						
Connection Manager Port:	62094						
Media Provider Controllers:							
IP/Hostname	CM Port						
			Back Next Cancel				

Click on **Next** to continue.

New CTI Connection		X
Set New CTI Connection Wiz	zard Stage 8 of 16	
Active Recording		
Active Recording Interface Details		
Interface Connection Details		8
Additional Interface Parameters		Sec. 1
Media Provider Controllers - Location	1	Additional Interface Parameters
Media Provider Location Server IP/Hostname		
Connection Manager Port: 62094	×	
Media Provider Controllers:		A
IP/Hostname	CM Port	
NICEActive2012	62094	
		Back Next Cancel

On the following screen, click on Add, to add the Communication Manager devices.

lew CTI Connection					
Set New CTI Connection Wizard Stage 10 of 16					
Devices					
Available Devices Provide telephony switch avai	lable devices				
0 devices		Add Range Add From Switch			
Device Number/IP	CTI Trunk ID	Туре			
		Back Next Cancel			

The **Device Type** should be **Extension** and insert the correct extension number, this is the station number configured in **Section 5.6**. Expand **Advanced Device Parameters** and ensure that the **Value** for **Observation Type** is set to **Resourced-Based**. Click on **OK** to continue.

	Available Device		
New CTI Connection			E State
Set New CTI Co	Add Device		
Devices			
Available Devices Provide telephony swite 0 devices	Name Device Type: Device Number:	* Extension	ange Add From Switch
Device Number/IP	IP:		
	Advanced Device Para	_	
	Name	Value	
	Observation Type	Resource-Based	
		ation Type. Non-Resource- - can be recorded without the	k Next Cancel
		OK Cancel	

For Service Observe and Single Step Conference virtual extensions need to be added. These are the virtual extensions that were created in **Section 5.7**. Ensure that **Device Type** is set to **Virtual Extension** and add the correct extension for **Device Number**. Each of the **Parameters** highlighted at the bottom of the screen need to be configured and these are done by double-clicking on each parameter.

* Virtual Extension * 28902
Virtual Extension
* 28902
eters
ation 📝
Value
None
n
on Type. Non-Resource-

Enter the correct **Value** for **SymbolicName**. Double-click on **SymbolicName** to set the value. This should be the same as the switch name entered in **Section 6.2**.

	Available Device		X	
New CTI Connection		and the second se		X
Set New CTI C	Add Device			
Devices				
	Name		[
Available Devices	Set Parameter Value			
Provide telephony swit	Device Additional	Parameter	E. Martin	
0 devices		Turumeter		ge Add From Switch
	Set Parameter Value			
Device Number/IP				
	Name: SymbolicName			
	Value: CM63vmpg			
		OK	Cancel	
		ОК	Cancel	
	Name	Value	^	
	ObservationType	Non-Resource-Based	=	
	SymbolicName			
	Password Codecel ist	0	-	
	Description: Symbolic !		*	
			-	
			k	Next Cancel
		ОК	Cancel	

Enter the correct **Password**. This is the station password which was entered during the creation of the station. A printout of an extension can be found in **Section 5.6** and **Section 5.7** of these Application Notes.

	Available Device			8	
New CTI Connection				and the second of the	23
Set New CTI Co	Add Device				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Devices					
Available Devices Provide telephony swit 0 devices	Name Device Type:	* (Extension	-	19e Add From Switch
Device Number/IP	Driver Addi	tional Dar	amotor		
Device Number/1P	DIIVEI Aud	uonai Pai	ameter		
	Set Paramete	r Value			
	Name: Passwo Value: ****	rd			
			ОК	Cancel	
L.	SymbolicName	CMG	3vmpg		T'
	Password				
	Codecel iet	n		*	
	Description:	Registration pas	sword.	*	
					k Next Cancel
			ОК	Cancel	

Double-click on **CodecsList** and ensure that all the values are ticked as shown below. Click on **OK** to continue.

	Availabl	e Device				23	
New CTI Connection		Set Parame	ter Values		E		X
Set New CTI Co	Add	Code	ecsList				and the surger
Devices		Set Pa	arameter	Values			
Available Devices	Nar	List of su	pported cod	lecs.			
Provide telephony swite	De					Ь	
	De	Name				Ľ	
0 devices	De	G711A					ange Add From Switch
Device Number/IP	IP:	V G711U					
		 G729					
		✓ G729A					
		V G723					
	Adv						
	D			ОК	Cancel	1	
	Nar	ne		Value		~	
	Pas	sword		••••			
	Cod	lecsList		0		=	
	Enc	AgList		0		-	
	Des	cription:	List of supp	ported codecs.		* *	
							k Next Cancel
				(DK Ca	ncel	

Double-click on **EncAlgList** and ensure both options are ticked as shown below. Click on **OK** to continue.

	Available Device		2	5
New CTI Connection	Set Parame			X
Set New CTI Co	Ada			
Devices	Set Pa	arameter Values		
	Nai			
Available Devices Provide telephony swite		pported encryption algo	rithms.	
0 devices				ange Add From Switch
o devices	De Name			ange Add From Switch
Device Number/IP		28_COUNTER		
		ICRIPTION		
	Adv			
		ОК	Cancel	
	Nar		Cancer	
	Password CodecsList	31		
	EncAlgList	0	E	
	Description:	List of supported encryp algorithms.	otion	
				k Next Cancel
			OK Cancel	

Under **Available Devices**, select the new extension and click on the >> icon as shown. Click on **Next** to continue.

New CTI Connection				×
Set New CTI Co	onnection Wizard	Stage 11	of 16	1 and the shirts
Monitor				
Please select the device Double click on a monit	es to be monitored tored device for further co	ofiguration		
		Ingulation		
Available Devices:	0 devices		Monitored Devices:	1 devices
Device	Туре	P	Device	Туре
		>>	2001	Extension
		>		
		<		
		<<		
				Back Next Cancel

This is optional, but for better analysis tick on **Call Flow Analysis**. For the connection to Proactive Contact **Rejected Devices** must also be ticked, then click on **Next** to continue.

New CTI Connection
Set New CTI Connection Wizard Stage 12 of 16
Optional
Select optional features relevant to integration. Some options may require further configuration.
 SIP Trunk Correlation Rejected Devices Filter Calls
Call Flow Analysis
Back Next Cancel

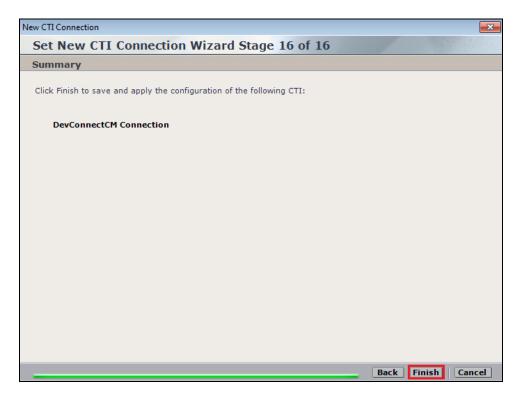
Enter the trunk number of the trunk that connects the Proactive Contact to Communication Manager. In the example below this is 3 so T3#* (Trunk 3 all channels) is added and selected. Click on Next to continue.

New CTI Connection					х
Set New CTI	Connection Wiza	ard Stage 1	4 of 17		
Rejected Devices	;				
Please select the dev	ices to be rejected				
Available Devices:	0 devices		Rejected Devices:	1 devices	
Device	Туре	P	Device	Туре	
		>>	T3#*	RejectedDevice	
		>			
		<			
		<<			
	>				
				Back Next Cance	

Select a different **Port** number as shown below **62095** is chosen simply because **62094** was already in use.

New CTI Connection	×
Set New CTI Connection Wizard Stage 15 of 16	and the states
Requirements	
The Interactions Center server selected already has a Connection Manager. Create a new Connection Manager, or select an existing one.	
Oreate a new Connection Manager Port: 5205	
Select available Connection Manager Ports in use:	
62094	
	Back Next Cancel

Click on Finish to complete the New CTI Wizard.



Click on **Apply** at the top right of the screen to save the new connection.

NICE®				Hello NICE, Supe	ruser Help Setting	s Logout	System Administrator
My Universe Business Analyzer Re	porter Mo	nitor Insight Manager Cl	earSight PBO Requests	Tools	Administration		
Actions V	Data h	as been saved, but not applied.	Click 'Apply' to make the changes effe	ective.			Apply 🊷 🕒 🗐
Organization	Su	mmary Resources	Diagram				
Active Directory							
Agent Center	De	evConnectCM					
🗄 🗳 Customer Center	0	× 10					
🖶 🗣 Distributed Cache		Component Type	Component Name		IP Address/Host Name		
🗄 🅵 Import/Export					IF Address/Host Name		
🗄 🔤 License Manager		CTI Interface	DevConnectCM AES TSAPI I				
🗄 🖪 Storage		CTI Interface	DevConnectCM DMCC (Adva				
- Master Site		Connection Manager	DevConnectCM niceapp-win2				
Applications		Connection Manager	DevConnectCM niceapp-win2		niceapp-win2012		
🖅 Content Analysis		Driver	DevConnectCM niceapp-win2		niceapp-win2012		
CTI Integrations		Media Provider Controller	DevConnectCM niceapp-win2	012 MPC 1	niceapp-win2012		
Data Marts							
Database Servers							
🕀 🕞 Insight to Impact							

Click on **Yes** to proceed.

Data has been saved, but not applied. C	Data has been saved, but not applied. Click 'Apply' to make the changes effective.				
Summary Resources	Diagram				
DevConnectCM					
Component Type	Component Name	IP Address/Ho	ost Name		
CTI Interface CTI Interface	Apply Configuration				
Connection Manager			2		
Connection Manager Driver	This updates devices and mapping config may take several minutes and affect rec		2 2		
Media Provider Controlle	This step is recommended when the syst in use. Do you want to proceed?	em is not	2		
	in user bo you mant to proceed				
	Yes No				

The following shows that the save was successful. Click on **OK** to continue.

Data has been saved, but not applied. Click 'Apply' to make the changes effective.					
Summary Resources	Diagram				
DevConnectCM					
Component Type	Component Name	IP Address/Host Name			
CTI Interface	DevConnectCM AES TSAPI Interface				
CTI Interface	Apply Complete	×			
Connection Manager	Apply complete	2			
Connection Manager		2			
Driver	All components have been notified	2			
Media Provider Controlle		2			

From the NICE Application Server, open **Services** and restart the **NICE Integration Dispatch Service**.

Q.	Ser	vices			_ [x
File Action View	Help					
) 🛃 🚺 🖿 🕨 💵 💵					
🎑 Services (Local)	Name 🔶	Description	Status	Startup Type	Log On As	^
	🔍 Network Location Awareness	Collects an	Running	Automatic	Network S	
	🔍 Network Store Interface Service	This service	Running	Automatic	Local Service	
	🔍 NICE AA Search Controller	Audio Anal	Running	Automatic	.\administr	
	🔍 NICE Agent Center	Monitors an	Running	Automatic	.\administr	
	🔍 NICE Audit Trail Service	Enables add	Running	Automatic	.\administr	
	🔍 Nice BSF Server	Enables the	Running	Automatic	.\administr	
	🔍 NICE Coaching Server	Manages C	Running	Automatic	.\administr	
	🔍 NICE Deployment Manager Agent	NICE Deplo	Running	Automatic	.\administr	
	🔍 NICE Enrollment Service	NICE Enroll	Running	Automatic	.\administr	
	🔍 NICE Evaluation Forms Server	Manages Ev	Running	Automatic	.\administr	=
	🔍 NICE FTF Ouerv Server	Performs a	Runnina	Automatic	.\administr	
	SINCE Integration Dispatch Service	Launches a	Running	Automatic	.\administr	
	Sector Core NICE Interactions Center Core	Acts as the	Running	Automatic	.\administr	
	🔍 NICE Interactions Center DBSrvr	Manages th	Running	Automatic	.\administr	
	🔍 NICE Interactions Center Monitor	Report failo	Running	Automatic	.\administr	
	🔍 NICE Interactions Center RCM	Responsible	Running	Automatic	.\administr	
	🔍 NICE Interactions Center TRS	Insert missi	Running	Automatic	.\administr	
	🔍 NICE Investigations Server	Manages an	Running	Automatic	.\administr	
	🔍 NICE IP Phone Applications	Performs IP	Running	Automatic	.\administr	
	🔍 NICE Keep Alive Service	Nice Keep A	Running	Automatic	.\administr	
	🔍 NICE Logging Service	A service de	Running	Automatic	.\administr	
	🔍 NICE Media Provider Control Manager	An online re	Running	Automatic	Local Syste	
	NICE MediaCollectionServer	Manages an	Running	Automatic	.\administr	
	Allocate to a		- · ·		A 4 4 4 4	Ľ

8.2. System Mapping

From the web browser navigate to Master Site \rightarrow System Mapping \rightarrow Recorder Pools. In the main window click on New Pool.

NICE®				Hello NICE, Superus	er Help	Settings Lo	gout
My Universe Business Analyzer Repor	ter Monitor Ins	sight Manager ClearSight	PBO Requests	Tools	Admin	istration 🗾 🔻	
Actions V K		but not applied. To complete eraction Recorder Pool S	-	CTI Integrations branch and	click Apply.		
Organization Organization Organization Organization Organization Organization	This system has	:		License Type	Availa	ble Licenses	
Customer Center	Total Recorder Mapped:	pools: 0 0		Audio Screen	94 100		
Import/Export		Unmapped: 0 Available Recorders: 0			100 100		
Storage	Advanced Interac	tion Recorder Pools	_				
Applications Grant Analysis Content Analysis Grant Content Analysis	Group by: No			(Clear		New Pool	
Data Marts	Mapped	Name			∆ Туре	No. of Recorders	
Database Servers	Yes	AIR Act			Basic		1
insight to Impact	Yes	pass			Basic		1
🗄 🗐 Interactions Centers	Yes	PhisycPassive			Basic		1
 ☐ Logger Servers ☑ Media Interconnect ☑ Media Ibrary Servers ☑ Playback ☑ Playback ☑ Resolitency ☑ Resolitency ☑ Security 							
System Mapping	AIR Act Propertie	s					
1. Recorder Pools 2. Source Pools 4. Source Pools 5. Recording Profiles	Pool type:	Basic					

Enter a suitable **Name** for the **Recorder Pool** and select the **Active_Logger** from the list of **Available Recorders** and click on **Update** to continue.

📅 Edit Advanced In	teraction Recorder P	Pool	- ×
Name:	AIR Act		
Pool type:	Basic		
Interactions Center:	IC	-	
Recorder.		A basic pool must have a minimum of 1 Selected Recorders Active_Logger	
		Update	ancel

From the left navigation window select **Source Pools** and from the main window click on **New Pool**.

NICE®		Hello NICE, Superuser	Help Settings Logout
My Universe Business Analyzer Repor	ter Monitor Insight Manager ClearSight PBO Requests	Tools	Administration
Actions Criganization	Data was saved but not applied. To complete changes select the O Source Pool Summary This system has: Total source pools: 0 Mapped: 0 Unmapped: 0	TI Integrations branch and click License Type Audio Screen Encryption Redundancy	Acoly. Available Licenses 94 100 100 100
	Source Pools Group by: None Find: Mapped Name Media Type	D Clear	New Pool
Obtabase Servers Obta	Mapped Name Media Type	Source Type	switch
System Mapping 1. Recorder Pools 2. Source Pools 3. Recording Profiles	Properties		

Click on **Next** to continue to add a new **Source Pool**.

💷 New Source Pool Wizard	×
Introduction	
This wizard helps you create a new source pool.	
Important: - In this wizard, screen sources can be defined. All audio sources must be defined before running this wizard. - When configuring the source pool, the switch must be associated with the same Interactions Center selected for the Recorder pool.	
1. Define the name, media type, switch, and source type.	
2. Select the relevant sources.	
3. Verify the summary and approve it.	
Next	1

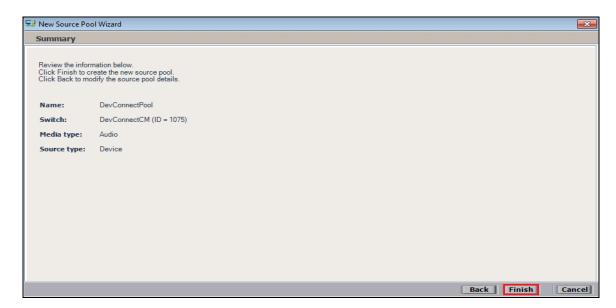
Enter a suitable **Name**, remaining values were left as default. Click on **Next** to continue.

😒 New Source Pool Wizard							
Define Source	e Pool						
Define the source	Define the source pool details. After completing this wizard, the media type, switch, and source type cannot be changed.						
Name:	DevConnectPool						
Media type:	Audio						
Switch:	DevConnectCM (ID = 1075)						
Source type:	Device 🔹						
	Back Next Cancel	1					

Select the extensions that were created in **Section 8.1**, note only one extension number is shown in the example below but this is not typical. Click on **Next** to continue.

💀 New Source Pool Wizard					×
Select Sources					
Find: Clear			Selected: 3	1/1 Select All	Clear Selection
Name	Device Number	Unique Device ID		IP Address	
	2001				
				Back Nex	t Cancel

Click on Finish to complete the New Source Pool Wizard.



To implement these new changes, navigate to **Master Site** \rightarrow **CTI Integrations** in the left window and in the main window click on **Apply** at the top right of the window.

NICE®				Hello NICE, Su	peruser Help Settings Lo	gout System Administrator
My Universe Business Analyze	er Repo	rter Monitor Insight Manager	ClearSight PBO Requests	Tools	Administration	
_						
Actions 💌 🔀	M					Apply 🏨 🗈 🖺
		Summary Resource	es Diagram			
Active Directory						
Agent Center		DevConnectCM				
🛓 🥵 Customer Center						
Distributed Cache						
🖶 🅵 Import/Export						
📄 🔤 License Manager						
Storage						
🖮 👔 Master Site						
- Applications						
Content Analysis						
CTI Integrations						
🕀 🏠 Data Marts						
Database Server						
Insight to Impact						
Interactions Cent	ers					

The following screen shows the changes were saved correctly. Click on **OK** to continue.

	Apply 🛞
Summary Resources Diagram	
DevConnectCM 🛞	
(to the formulate (
Apply Complete	
All components have been notified	
С С С С С С С С С С С С С С С С С С С	

From the left window navigate to **Master Site** \rightarrow **System Mapping** \rightarrow **Recording Profiles** and in the main window click on **New Profile**.

NICE®		Hello NICE, Superuse	r Help Settings Logout
My Universe Business Analyzer Repor	rter Monitor Insight Manager ClearSight PBO Requ	uests Tools	Administration
(
Actions V K	Data was saved but not applied. To complete changes s	elect the CTI Integrations branch and cl	ick Apply.
□	Recording Profile Summary		
Active Directory	This system has:	License Type	Available Licenses
Agent Center	Number of recording profiles: 0	Audio	
E 🗳 Customer Center		Screen	94 100
Distributed Cache		Encryption	100
🗄 🅵 Import/Export		Redundancy	100
License Manager		Redundancy	100
⊕ 🛅 Storage	Recording Profiles		
🖃 🛄 Master Site	Recording Frontes		
Applications	Group by: None - Find:	(Clear	New Profile
Content Analysis Orlintegrations	Group by. None 🗘 Thia.		
Data Marts	Name Δ Recording Type	Capture Type Sour	rce Pool Recorder Pool
Data Marts			
Interactions Centers			
🕂 🔡 Logger Channel Mapping			
Logger Servers			
💮 🔂 Media Interconnect			
🗄 🖓 Media Library Servers			
Playback			
Recorders			
Resiliency			
E Security	Properties		
System Mapping			

Click on Next to continue with the New Recording Profile Wizard.

🟹 New Recording Profile Wizard		×
Introduction		
This wizard helps you map a recording profile. Important:		
Before configuring the recording profile, verify that the Interaction Center that was selected in the Recorder pool is associated with the switch selected in the source pool.		
Recording type and capture type cannot be changed after completing this wizard.		
1. Define the recording profile name.		
2. Map the source pool to the Recorder pool.		
 Select the relevant recording type and the capture type. Select the relevant compression, summation and encryption options. 		
Verify the summary and approve it.		
	Next	Cancel

Enter a suitable **Name** for the Recording profile.

🟹 New Recording Profile Wizard		×			
Define the Recording Profile Name					
Enter a meaningful recording profile name. After completing this wizard, the mapping and t recording type cannot be changed.	the				
Name: DevConnectRecording]				
Back	Next	Cancel			

Select the correct **source pool** and **Recorder pool**, then click **Next** to continue.

🟹 New Recording Profile Wizard	
Define Mapping	
Select one source pool and then select the rele	vant Recorder pool.
DevConnectPool	AIR Act
Available source pools	Available Recorder pools
DevConnectPool	AIR Act
	pass PhisycPassive
	Back Next Cancel

For recording with Proactive Contact, select **Interaction-based** as the **Recording type**. For Service Observation the **Capture type** used is **Active DMCC VE By Device**, selected this from the drop-down box. Compression is selected as default and can be left like this. Click on **Next** to continue.

1	New Recording Profile Wizard		— X—				
	Define Recording Profile						
	Define the recording profile details. After completing this wizard, the recording type and capture type cannot be changed.						
	Recording type:	Interaction-based 🔹					
	No. of allocated licenses: De	termined by the number of sources in the source pool					
	Capture type: Active DMCC VE By Device 🔻						
	Secondary Capture Type:						
	Select all applicable options:						
	Compression						
	Summation						
	Encryption						
		Back	Cancel				

Note: The only difference in the setup for Single Step Conference is with both the choice of **Recording type** which is set to **Interaction-based** and **Capture type** which will be **Active DMCC VE By Call** as shown below. The **No. of allocated licenses** is directly correlated to the number of virtual extensions that are configured for the system as per **Section 5.8**.

🛛 New Recording Profile Wizard 🛛 💌				
Define Recording Profile				
Define the recording profile deta type cannot be changed.	ils. After completing this wizard	l, the recor	ding type and capture	
Recording type:	Interaction-based	-	Depending on number	
No. of allocated licenses:		12	Depending on number of Virtual Extensions	
Capture type:	Active DMCC VE By Call	-		
Secondary Capture Type:		Ŧ		
Select all applicable options	:			
Compression				
Summation				
Encryption				
			Back Next Cancel	

Click on Finish to complete the New Recording Profile Wizard.

11 N	2 New Recording Profile Wizard					
S	Summary					
	Review the mapping inf Click Finish to create th Click Back to modify th	ormation below. ne new recording profile. e recording profile details.				
	Name:	DevConnectRecording				
	Source pool:	DevConnectPool				
	Recorder pool:	AIR Act				
	Recording type:	Total				
	Capture type:	Active DMCC VE By Device				
	No. of allocated licer	ses: Determined by the number of sources in the source	pool			
	Compression					
	Summation					
	Encryption					
		[Back Finish	Cancel		

Navigate to Master Site \rightarrow CTI Integrations and from the main window click on Apply. Then click on Yes to proceed.

NICE®			Hello NICE, Superuse	Help Settings	Logout	System Administrator
My Universe Business Analyzer Repo	rter Monitor Insight Manager	ClearSight PBO Requests	Tools	Administration		
Actions V 📉						Apply 🚷 👘 🗒
⊡- III Organization	Summary Resource	es Diagram				÷
Active Directory	Avaya PC / PDS					
Agent Center	Avaya PC / PDS					
Guatomer Center	And a chi					
Import/Export						
Eicense Manager		Apply Configuration	on			
B Storage						
Applications			and mapping configura			
Content Analysis		may take several min This step is recomme	utes and affect recordi ided when the system	is not		
CTI Integrations		in use. Do you want to	proceed?			
⊡;C Connection Managers]++[Avaya CM NICEAc						
]+[Avaya CM niceapp		Yes	No			

This concludes the setup of the NICE Application Server for DMCC Service Observe and Single Step Conference recording. The following sections show the extra steps required to setup the Proactive Contact connection in order to obtain events from Proactive Contact in order to start and stop call recordings for Proactive Contact calls.

8.3. Add CTI Connection for Proactive Contact

Another New CTI Connection is required for Proactive Contact. From the left window navigate to Master Site \rightarrow CTI Integrations and right-click on CTI Integrations and select New CTI Connection.



Click on **Next** to continue.

ew CTI Connection				— ×
Set New CTI Connection Wizard Stage 1 of 16				
Introduction				
This wizard will guide you through the process of configuring a new CTI con	nection.			
1. Interactions Center and Telephony Switch definitions				
2. CTI Interface selection				
3. Interfaces configuration				
4. Devices configuration				
5. Monitored Devices configuration				
6. Selection of optional features				
7. Location Requirements				
8. Summary				
	F	Back	Next	Cancel

As with the previous CTI Connection there is only one **Interactions Center** available for selection, this was created during the initial installation. Select **Avaya PC/PDS** as the **Switch Type** and enter a suitable **Switch Name**. Click on **Next** to continue.

New CTI Connection		
Set New CTI Connection Wi	zard Stage 2 of 16	
Interactions Center Switch		
Attach CTI to Interactions Center Server:		T
O Use existing Telephony Switch:	Avaya CM	•
Oefine new Telephony Switch:		
Switch Type:	Avaya PC / PDS	•
Switch Name:	Avaya PC / PDS	
		Advanced >>
		Back Next Cancel

Event Service should already be chosen by default, verify that this is the case and click on **Next** to continue.

New CTI Connection					
Set New CTI Connection Wizard Stage 3 of 16					
Interface Type					
CTI Interface Type					
Avaya PC / PDS CTI Interface:	Event Service				
	Avaya Proactive Contact / Predictive Dialer System (formerly MOSAIX) Event Service				
VoIP Mapping:	· · · · · · · · · · · · · · · · · · ·				
Active Recording:					
_ Adare Recording.					
	Back Next Cancel				

The following parameters need to be set for the connection to Proactive Contact, each of these values are set by double-clicking on each individual parameter.

New CTI Connection		
Set New CTI Connection W	izard Stage 4 of 16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Interface Parameters		
CTI Interface Details		
Interface Connection Details		
Mandatory fields are marked in bold		
Parameter	Value	<u> </u>
AvayaPD Version Event Service Host Name Naming Service Host Name AvayaPD Client Username		E
Description:		
Additional Interface Parameters		S
		Back Next Cancel

Select the version of the Proactive Contact from the drop-down box and click on **OK** to continue.

New 0	CTI Connection	Set Parameter	Value 🛛	8
Se	et New CTI Connection Wiz	Interfa	ace Connection Parameter	13/
In	terface Parameters	Set Para	ameter Value	
-	CTI Interface Details	Name:	AvayaPD Version	
	Interface Connection Details			
	Mandatory fields are marked in bold	Value:	PC5	
	Parameter			
	AvayaPD Version		OK Cancel	
	Event Service Host Name			
	Naming Service Host Name			
	AvayaPD Client Username			-
	Description: AvayaPD Version: PC3 , PC	.4.		
	Additional Interface Parameters		(8)	2
_			Back Next Cance	el

Enter the IP address or hostname of the Proactive Contact for the **Event Service Host Name**. Click on **OK** to continue.

New CTI Connection				23		
Set New CTI Connection W	izard Sta	ge 4 of 16		1.91		
Interface Parameters	Set Parameter Value					
CTI Interface Details	Interf	Interface Connection Parameter				
Interface Connection Details	Set Para	ameter Value		8		
Mandatory fields are marked in bold	Name:	Event Service Host Name				
Parameter AvayaPD Version Event Service Host Name	Value:	10.10.16.95		* III		
Naming Service Host Name AvayaPD Client Username			OK Cancel	-		
Description: Event Service Host Name.						
Additional Interface Parameters				3		
			Back Next Cano	el :		

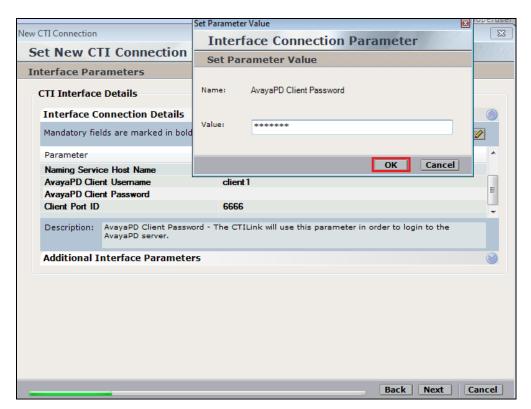
Enter the IP address or hostname of the Proactive Contact for the **Naming Service Host Name**. Click on **OK** to continue.

New	CTI Connection	Set Parameter	Value 🛛	23
S	et New CTI Connection Wiz	Interfa	ace Connection Parameter	191
I	nterface Parameters	Set Para	ameter Value	
ſ	CTI Interface Details	Name:	Naming Service Host Name	
	Interface Connection Details			
	Mandatory fields are marked in bold	Value:	10.10.16.95	
	Parameter			
	AvayaPD Version Event Service Host Name		OK Cancel	8
	Naming Service Host Name			
	AvayaPD Client Username			_
	ABD Clinet Deserved			
	Description: Naming Service Host Name			
	Additional Interface Parameters			
			Back Next Cance	el

Enter the **AvayaPD Client Username**. This user that will be used to monitor events from Proactive Contact and this will be the same username that was displayed in **Section 7.2**. Click on **OK** to continue.

New (CTI Connection	Set Parameter	Value 🛛	8
S	et New CTI Connection V	Interfa	ace Connection Parameter	11/3/
In	terface Parameters	Set Para	ameter Value	
ſ	CTI Interface Details	Name:	AvayaPD Client Username	
	Interface Connection Details			
	Mandatory fields are marked in bold	Value:	client1	2
	Parameter			<u> </u>
	AvayaPD Version Event Service Host Name		OK Cancel	=
	Naming Service Host Name 10.10.16.95			
	AvayaPD Client Username			
	Description: AvayaPD Client User Na AvayaPD server.	ime - The CTI	Link will use this parameter in order to login to the	
	Additional Interface Parameters	5		8
			Back Next Ca	ancel

Enter the **AvayaPD Client Password**. This will be the same password that was displayed in **Section 7.2**. Click on **OK** to continue.



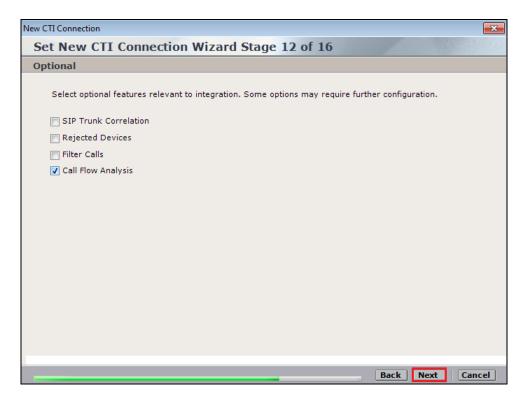
With this information correctly filled in click on **Next** to continue.

New CTI Connection	×
Set New CTI Connection Wiza	ard Stage 4 of 16
Interface Parameters	
CTI Interface Details	
Interface Connection Details	
Mandatory fields are marked in bold	
Parameter	Value
Naming Service Host Name	10.10.16.95
AvayaPD Client Username	client 1
AvayaPD Client Password Client Port ID	6666
Description: AvayaPD Client Password - T AvayaPD server.	he CTILink will use this parameter in order to login to the
Additional Interface Parameters	Sector 201
	Back Next Cancel

The actual devices to be monitored were already added in **Section 8.1**. Click on **Next** to continue.

New CTI Connection		×
Set New CTI Connectio	n Wizard St	age 10 of 16
Devices		
Available Devices Provide telephony switch available of	lavicas	8
0 devices	Jevices	Add Add Range Add From Switch
Device Number/IP	CTI Trunk ID	Туре
		Back Next Cancel

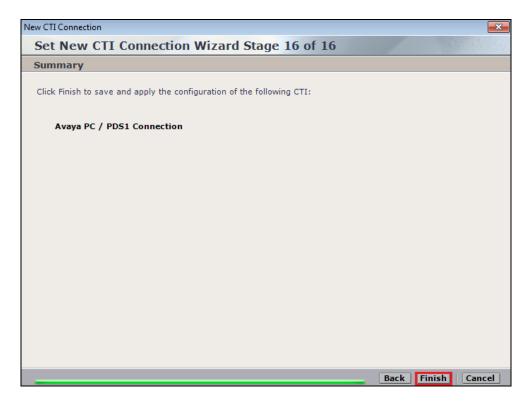
Call Flow Analysis can be added as an option, click on Next to continue.



Ensure that a unique **Port** is set for the **new Connection Manager**, then click on **Next** to continue.

New CTI Connection		×
Set New CTI Connection Wizard Stage 15 of 16		
Requirements		
The Interactions Center server selected already has a Connection Manager. Create a new Connection Manager, or select an existing one.		
Create a new Connection Manager		
Port: 62096		
💿 Select available Connection Manager		
Ports in use:		
62094 62100		
62095		
	Back Next	Cancel

Click on **Finish** to complete the Proactive Contact CTI connection.



9. Verification Steps

This section provides the steps that can be taken to verify correct configuration of the NICE Engage Platform and both Avaya Proactive Contact and Avaya Aura® Application Enablement Services.

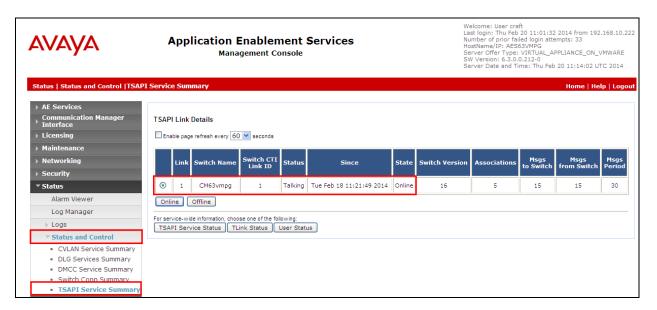
9.1. Verify Avaya Aura® Communication Manager CTI Service State

Before the connection between the NICE Engage Platform and the AES is check the connection between Communication Manager and AES can be check to ensure it is functioning correctly. Check the AESVCS link status by using the command **status aesvcs cti-link**. Verify the **Service State** of the CTI link is **established**.

statu	s aesvcs ct	i-link				
			AE SERVICES	CTI LINK STATUS		
CTI Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Rcvd
1	4	no	aes63vmpg	established	18	18

9.2. Verify TSAPI Link

On the AES Management Console verify the status of the TSAPI link by selecting Status \rightarrow Status and Control \rightarrow TSAPI Service Summary to display the TSAPI Link Details screen. Verify the status of the TSAPI link by checking that the Status is Talking and the State is Online.



9.3. Verify Proactive Contact services are running

Using putty open an SSH connection to Proactive Contact and **login** using the appropriate credentials as shown below.

```
login as: admin
*** WARNING NOTICE ***
This system is restricted solely to Avaya authorized users for legitimate
business purposes only. The actual or attempted unauthorized access, use,
or modification of this system is strictly prohibited by Avaya. Unauthorized
users are subject to Company disciplinary proceedings and/or criminal and
civil penalties under state, federal, or other applicable domestic and
foreign laws. The use of this system may be monitored and recorded for
administrative and security reasons. Anyone accessing this system expressly
consents to such monitoring and is advised that if monitoring reveals possible
evidence of criminal activity, Avaya may provide the evidence of such activity
to law enforcement officials. All users must comply with Avaya Security
Instructions regarding the protection of Avaya's information assets.
  Using keyboard-interactive authentication.
Password:
```

Once logged in correctly type **check_pds** as shown below.

# ID Sev Short Text Instance Last Instance Count State	Enabled	First
3 QPC000D0001 Info Services started - PDS 16:06:48 2012-03-01 16:06:48 1 ACTIVE	Yes	2012-03-01
4 QPC000D0002 Info Services started - MTS 16:31:39 2012-02-29 16:31:39 1 ACTIVE	Yes	2012-02-29
5 QPC000D0003 Info Services started - DB	Yes	2012-02-29
16:30:30 2012-02-29 16:30:30 1 ACTIVE 25 QPC000D0023 Warning Illegal agent logoff 18:48:20 2012-03-01 16:25:58 431 ACTIVE	Yes	2011-05-24
Found '4' ACTIVE or RETIRED alarms. DEVCONHD(admin)@/opt/avaya/pds [992] \$ check pds		

The following screen should show All processes running!.

root	28532	1	0 M	Mar01	?	00:00	00:00	agent -d
admin	28543	1	0 M	Mar01	?	00:00	00:0	ao_recall
admin	28539	1	0 M	Mar01	?	00:00	00:0	recall_rmp
admin	28529	1	0 M	Mar01	?	00:00	00:0	listserver
admin	28216	1	0 M	Mar01	?	00:00	00:0	opmon
root	28238	1	0 M	Mar01	?	00:00	00:00	evmon
root	28125	28116	0 M	Mar01	?	00:00	00:0	/opt/avaya/pds/bin/enforcer -ORB
root	28106	1	0 M	Mar01	?	00:00	00:0	bridgeSmEnf -ORBSvcConf /opt/ava
admin	28101	1	0 M	Mar01	?	00:00	00:0	switcher
admin	28069	1	0 M	Mar01	?	00:00	00:00	job_strter
root	28054	1	0 M	Mar01	?	00:00	00:0	agentcount
root	28037	1	0 M	Mar01	?	00:04	4:00	enserver -ORBSvcConf /opt/avaya/
root	28565	1	0 M	Mar01	?	00:01	1:20	dccserver -ORBSvcConf /opt/avaya
admin	28044	1	0 M	Mar01	?	00:00	80:C	datamgr
admin	28025	1	0 M	Mar01	?	00:00	00:0	soe_routed
admin	28027	28025	0 M	Mar01	?	00:00	00:0	soe_routed
root	28062	1	0 M	Mar01	?	00:00	00:0	signalit
admin	28030	1	0 M	Mar01	?	00:00	00:0	conn_mgr
root	28571	1	0 M	Mar01	?	00:01	1:08	hdsc -ORBSvcConf /opt/avaya/pds/
>>> All	process	ses run	ning	g!				
DEVCONHE	(admin))@/opt/	avay	ya/pds	5 [9	93]		
\$								

Check the database is running correctly by typing **check_db** as shown. **All processes are running and the database is opened to the users!** should be returned.

```
DEVCONHD(admin)@/opt/avaya/pds [993]
$ check_db
Checking for required database processes...
Found:
oracle 29897 1 0 Feb29 ? 00:00:21 ora_smon_orastd
oracle 29893 1 0 Feb29 ? 00:00:54 ora_lgwr_orastd
oracle 29895 1 0 Feb29 ? 00:00:12 ora_pmon_orastd
oracle 29895 1 0 Feb29 ? 00:00:12 ora_pmon_orastd
oracle 29891 1 0 Feb29 ? 00:00:11 ora_dbw0_orastd
oracle 29899 1 0 Feb29 ? 00:00:00 ora_recc_orastd
oracle 29893 1 0 Feb29 ? 00:00:00 ora_gmnc_orastd
oracle 29891 1 0 Feb29 ? 00:00:00 ora_gmnc_orastd
oracle 29903 1 0 Feb29 ? 00:00:00 ora_gmnc_orastd
oracle 29901 1 0 Feb29 ? 00:00:00 ora_gmnc_orastd
oracle 29809 1 0 Feb29 ? 00:00:00 ora_mman_orastd
oracle 29809 1 0 Feb29 ? 00:00:00 ora_s000_orastd
oracle 29903 1 0 Feb29 ? 00:00:20 ora_mmon_orastd
oracle 29905 1 0 Feb29 ? 00:00:10 ora_mmon_orastd
admin 29881 1 0 Feb29 ? 00:00:00 /opt/dbase/OraHomel/bin/tnslsnr
Verifying Database availability...
>>> All processes are running and the database is opened to the users!
DEVCONHD(admin)@/opt/avaya/pds [994]
$
```

Type check_mts, this should return All processes are running as shown.

# ID Sev Short Text	Enabled	First
Instance Last Instance Count State		
3 QPC000D0001 Info Services started - PDS 16:06:48 2012-03-01 16:06:48 1 ACTIVE	Yes	2012-03-01
4 QPC000D0002 Info Services started - MTS	Yes	2012-02-29
16:31:39 2012-02-29 16:31:39 1 ACTIVE 5 QPC000D0003 Info Services started - DB 16:30:30 2012-02-29 16:30:30 1 ACTIVE	Yes	2012-02-29
25 QPC000D0023 Warning Illegal agent logoff 18:48:20 2012-03-01 16:25:58 431 ACTIVE	Yes	2011-05-24
Found '4' ACTIVE or RETIRED alarms.		
DEVCONHD(admin)@/opt/avaya/pds [992] \$ check_mts		
>>> All processes are running! \$		

9.4. Verify Avaya Proactive Contact jobs are running

Before an agent is logged into a job verify that the correct jobs are running. Open Proactive Contact **Editor**.

	Ava Ava Con Edite Vers
Recycle Bin siga.205.pcap AD Sync on SMGR.png	
Edi Monitor AgentOne Agent	or
Role Editor Health Manager	

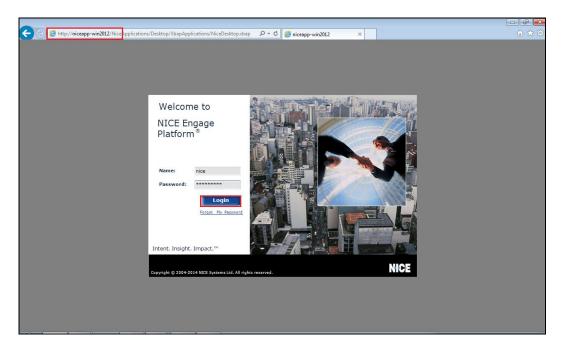
Once logged in click on jobs as shown below and ensure that the correct jobs are up and running. **Jobs** cab be started and stopped using the icons highlighted in the screen shot below.

Edit View Setting	gs Tools Help		-					
evconhd 📃	- 🗋 🚔 🔲 🗏	He 📑 🕂 🖌 🗸		X 🗏 🖉 🛛	?			
ntact Management	Jobs: Active c	outbrid					Job Detail	
@	Job	Job type	File Version	Outbound list	Inbound list	Status	Setting	Value
w 🛛	blend	Blend	Active	devconhd-list1	devconhd-inbnd3	Stopped	- Basic	
Strategies	blendPG	Blend	Active	devconhd-list1	devconhd-inbnd3	Stopped	Job	generic
onatogico	inbnd1	Inbound	Active		devconhd-inbnd4	Stopped	Tagged	
a de la comercia de l	inbnd2	Inbound	Active		devconhd-inbnd2	Stopped	Percenta	0
1000	inbnd3PG	Inbound	Active		devconhd-inbnd3	Running	Line	REG
	managed	Managed	Active	devconhd-list1		Stopped	Earliest	00:01
[manana]	outbnd	Outbound	Active	devconhd-list1		Stopped	Latest	23:59
	outbnd2	Outbound	Active	devconhd-list4		Running	Calling	
election Reports	outbrd3	Managed	Active	devconhd-list4		Stopped	Calling	
cicculori ricpons	outbrid4	Outbound	Active	devconhd-list5		Stopped	Require	
	outbnd5	Outbound	Active	devconhd-list7		Stopped	Transacti	93
	outbnd6	Outbound	Active	devconhd-list8		Stopped	🖃 Call	
Jobs	verify	Outbound	Active	devconhd-list1		Stopped	Call	Expert Calling Ratio
	virtual	Virtual	Active	devconhd-list1		Stopped	Expert	W0
	1						Initial hit	50
							Minimum	20
							Cell	0

9.5. Verify calls are being recorded

From any of the monitored Avaya endpoints make a series of inbound and outbound calls. Once these calls are completed they should be available for playback through a web browser to the NICE Application Server.

Open a browser session to the NICE Application Server as is shown below. Enter the proper credentials and click on **Login**.



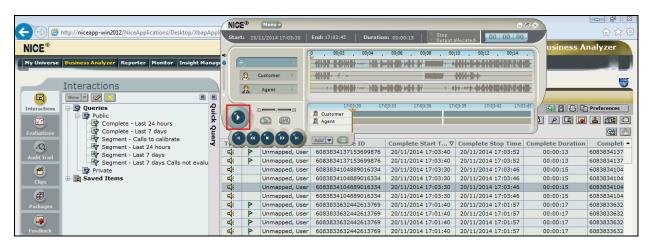
Click on **Business Analyser** at the top of the screen. Select **Interactions** from the left window and then navigate to **Queries** \rightarrow **Public**.

NICE®		Helio JICE Superuser Help Settings Logout	Business Analyzer
My Universe Business Analyzer Reporter Monitor Insig	nt Manager ClearSight PBO Requests	Tools Administration	
Interactions	Table View Graph View		NCE
	Search for words	Search Exact Phras ▼ Min. Certainty 75 % 👽 Within results	
Interactions	Results for Query:		🕰 🛅 🔒 💽 Preferences
Complete - Last 24 hours	Group By:) 🗈 🖬 🔊 🖧 💭 🗶 🔍 🕑	3 📝 🌮 🛅 🗈 🖻 🖾
Evaluations Complete - Last 7 days	Query		🔒 🚨 📼 🔂 🕙
Q Segment - Last 24 hours	7		
Audit Trail			
Clips			
Packages			
Feedback			

Click on **Complete – Last 24 hours**. This should reveal all the recordings that took place over the previous 24 hours. Select the required recording from the list and double-click on this to play the recording.

NICE®			Hello LICE, Superus	er Help Settings	l Logout	Business A	nalyzer
My Universe Business Analyzer Reporter Monitor Insight Man	ger ClearS	ight PBO Requests	Tools	Administration			
	_						WOF
Interactions	Table Vie	w Graph View					KICE
🕅 New 🔻 📝 🔀	Search fo	r words	Search Exa	act Phras 🔻 Min. Certain	ity 75 % 📝 Within re		
Interactions 🖂 🛱 Queries	Results	for Ouery: Compl	ete - Last 24 hours				Preferences
Interactions	Group	By: None	 150 Records found 	🕟 💹 🔜 🔊	Q 🖬 🖭 📖 🚀		
Complete - Last 24 hours		by. None	· ISO Records round	V 🔤 🔤 📷			
Evaluations							🖻 🔂 🕙
Segment - Cans to Cambrate		lag Full Name	Complete ID		Complete Stop Time		Complet A
Audit Trail		 Unmapped, User 	6083834137153699876	20/11/2014 17:03:40	20/11/2014 17:03:52	00:00:13	6083834137
🚽 🖓 Segment - Last 7 days Calls not evalu		Unmapped, User	6083834137153699876	20/11/2014 17:03:40	20/11/2014 17:03:52	00:00:13	6083834137
Private	4	Unmapped, User	6083834104889016334	20/11/2014 17:03:30	20/11/2014 17:03:46	00:00:15	6083834104
Clips Baved Items	4	Unmapped, User	6083834104889016334	20/11/2014 17:03:30	20/11/2014 17:03:46	00:00:15	6083834104
	4	Unmapped, User	6083834104889016334	20/11/2014 17:03:30	20/11/2014 17:03:46	00:00:15	6083834104
æ	4	Unmapped, User	6083834104889016334	20/11/2014 17:03:30	20/11/2014 17:03:46	00:00:15	6083834104
Packages		Unmapped, User	6083833632442613769	20/11/2014 17:01:40	20/11/2014 17:01:57	00:00:17	6083833632
	- v -	Unmapped, User	6083833632442613769	20/11/2014 17:01:40	20/11/2014 17:01:57	00:00:17	6083833632
	4	Unmapped, User	6083833632442613769	20/11/2014 17:01:40	20/11/2014 17:01:57	00:00:17	6083833632
Feedback	- v -	Unmapped, User	6083833632442613769	20/11/2014 17:01:40	20/11/2014 17:01:57	00:00:17	6083833632
	4	Unmapped, User	6083833492908605474	20/11/2014 17:01:14	20/11/2014 17:01:27	00:00:13	6083833492
	4	Unmapped, User	6083833492908605474	20/11/2014 17:01:14	20/11/2014 17:01:27	00:00:13	6083833492
	4	Unmapped, User	6083833456348954628	20/11/2014 17:00:59	20/11/2014 17:01:10	00:00:11	6083833456
	4	Unmapped, User	6083833456348954628	20/11/2014 17:00:59	20/11/2014 17:01:10	00:00:11	6083833456
	4	Unmapped, User	6083833456348954628	20/11/2014 17:00:59	20/11/2014 17:01:10	00:00:11	6083833456
	4	Unmapped, User	6083833456348954628	20/11/2014 17:00:59	20/11/2014 17:01:10	00:00:11	6083833456
	4	Unmapped, User	6083829101252116483	20/11/2014 16:44:05	20/11/2014 16:44:37	00:00:32	6083829101
		Unmapped, User	6083829101252116483	20/11/2014 16:44:05	20/11/2014 16:44:37	00:00:32	6083829101
	4	Unmapped, User	6083828714705059842	20/11/2014 16:42:35	20/11/2014 16:42:55	00:00:20	6083828714
	4	Unmapped, User	6083828714705059842	20/11/2014 16:42:35	20/11/2014 16:42:55	00:00:20	6083828714
	4	Unmapped, User	6083828555791269889	20/11/2014 16:41:58	20/11/2014 16:42:28	00:00:30	6083828555
	4	Unmapped, User	6083828555791269889	20/11/2014 16:41:58	20/11/2014 16:42:28	00:00:30	6083828555
		Unmapped, User	6083828167149158429	20/11/2014 16:40:31	20/11/2014 16:40:36	00:00:05	6083828167
	4	Unmapped, User	6083828167149158429	20/11/2014 16:40:31	20/11/2014 16:40:36	00:00:05	6083828167
	4	Unmapped, User	6083828137084387354	20/11/2014 16:40:24	20/11/2014 16:40:27	00:00:03	6083828137
< •	•						•

The NICE player is opened and the recording is presented for playback. Click on the **Play** icon highlighted below to play back the recording.



9.6. Verify NICE Services

If these recordings are not present or cannot be played back the NICE services may not be running or may need to be restarted. There are two separate servers as a part of this NICE Engage Platform. The NICE Application Server and the NICE Active Logger, both servers can be logged into and checked to ensure all services beginning with NICE are running correctly. As a last resort both servers may need a reboot after the initial configuration.

		Se	rvices		_ 0
ile Action View Help					
🔿 🔝 🖸 🛃 📓 🖬 🕨 🖬 🕨					
Services (Local) Name	Description Status	Startup Type	Log On As		
🔍 NICE AA Search Controller	Audio Anal Running	Automatic	.\administr		
🔍 NICE Agent Center	Monitors an Running	Automatic	.\administr		
🔍 NICE Audit Trail Service	Enables add Running	Automatic	.\administr		
🔍 Nice BSF Server	Enables the Running	Automatic	.\administr		
🔍 NICE Coaching Server	Manages C Running	Automatic	.\administr		
🔍 NICE Deployment Manager Agent	NICE Deplo Running	Automatic	.\administr		
🔍 NICE Enrollment Service	NICE Enroll Running	Automatic	.\administr		
NICE Evaluation Forms Server	Manages Ev Running	Automatic	.\administr		
🔍 NICE FTF Query Server	Performs q Running	Automatic	.\administr		
🔍 NICE Integration Dispatch Service	Launches a Running	Automatic	.\administr		
👒 NICE Interactions Center Core	Acts as the Running	Automatic	.\administr		
🔍 NICE Interactions Center DBSrvr	Manages th Running	Automatic	.\administr		
端 NICE Interactions Center Monitor	Report failo Running	Automatic	.\administr		
SINCE Interactions Center RCM	Responsible Running	Automatic	.\administr		
NICE Interactions Center TRS	Insert missi Running	Automatic	.∖administr		
🔍 NICE Investigations Server	Manages an Running	Automatic	.\administr		
🛸 NICE IP Phone Applications	Performs IP Running	Automatic	.\administr		
🔍 NICE Keep Alive Service	Nice Keep A Running	Automatic	.\administr		
🔍 NICE Logging Service	A service de Running	Automatic	.\administr		
🔍 NICE Media Provider Control Manager	An online re Running	Automatic	Local Syste		
SICE MediaCollectionServer	Manages an Running	Automatic	.\administr		
🔍 NICE Monitor Server	Performs pl Running	Automatic	.\administr		
🔍 NICE MyUniverse	Host for My Running	Automatic	.\administr		
🔍 NICE NBA	Performs q Running	Automatic	.\administr		
Service Notification Service	Generates N Running	Automatic	.\administr		
NICE Playback Administration	Manages A Running	Automatic	.\administr		
🔍 NICE Playback Streaming	Manage Me Running	Automatic	.\administr		
👒 NICE Reporter Engine	Nice Report Running	Automatic	.\administr		
🔍 NICE Reporter Scheduler	Nice Report Running	Automatic	.\administr		
🔍 NICE Retention Service	Performs re Running	Automatic	.\administr		
🔍 NICE Rule Engine	Perform rul Running	Automatic	.\administr	Activate Windows	
🔍 NICE Rules Manager Service	Manages wr Running	Automatic	.\administr	Go to System in Control Panel to	activate
MICE Storage Center Service	Nice Senvice Running	Automatic	\administr	Windows,	
Extended A Standard /					
					12:3
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PG; Reviewed: SPOC 2/23/2015

10. Conclusion

These Application Notes describe the configuration steps required for NICE Engage Platform to successfully interoperate with Avaya Proactive Contact R5.1 using Avaya Aura® Application Enablement Services R6.3 to connect to using DMCC Service Observation and Single Step Conference to record calls. All feature functionality and serviceability test cases were completed successfully with some issues and observations noted in **Section 2.2**.

11. Additional References

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

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

- [1] Administering Avaya Aura® Communication Manager, Document ID 03-300509
- [2] Avaya Aura® Communication Manager Feature Description and Implementation, Document ID 555-245-205
- [3] Avaya Aura® Application Enablement Services Administration and Maintenance Guide Release 6.3
- [4] Avaya Aura® Session Manager Overview, Doc # 03603323Avaya Aura ® Contact Centre SIP Commissioning, Doc # NN44400-511, Release 6.3
- [5] Implementing Avaya Proactive Contact R5.1

Product documentation for NICE products may be found at: http://www.nice.com

Appendix

Avaya 9620 H.323 Deskphone

This is a printout of the Avaya 9620 H.323 Deskphone used during compliance testing.

display station 2001		Pag	ge 1 of	5
	STATION			
Extension: 2001		Messages? n	BCC:	0
Type: 9620	Secu	rity Code: *	TN:	1
Port: S00000	Covera	ge Path 1: 2	COR:	1
Name: Paul 2001	Covera	ige Path 2:	COS:	1
		Station:	Tests?	V
STATION OPTIONS				-
Location:	Ti	me of Day Lock Table:		
Loss Group:		ized Ringing Pattern:	1	
±		Message Lamp Ext:		
Speakerphone:	2-way	Mute Button Enabled?		
Display Language:			-	
Survivable GK Node Name:	5			
Survivable COR:	internal	Media Complex Ext:		
Survivable Trunk Dest?	V	IP SoftPhone?	V	
	-		-	
		IP Video?	n	
	Short/Prefixed	Registration Allowed:	default	
		5		
		Customizable Labels?	У	
display station 2001		Pag	ge 2 of	5
display station 2001	STATION	Pag	ge 2 of	5
display station 2001 FEATURE OPTIONS	STATION	Pag	ge 2 of	5
FEATURE OPTIONS LWC Reception:	spe Au	to Select Any Idle App	pearance? 1	n
FEATURE OPTIONS LWC Reception: LWC Activation?	spe Au Y	-	pearance? 1	n
FEATURE OPTIONS LWC Reception:	spe Au Y	to Select Any Idle App Coverage Msg Re	pearance? 1	1 7
FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy?	spe Au Y n n	to Select Any Idle App Coverage Msg Re Auto Data Rest	pearance? etrieval? Answer: criction? 1	1 V none 1
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FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy? Redirect Notification? Per Button Ring Control?	spe Au Y n n Y n	to Select Any Idle App Coverage Msg Re Auto Data Rest	pearance? r etrieval? y Answer: r criction? r eference? r	n V none n
FEATURE OPTIONS LWC Reception: LWC Activation? LWC Log External Calls? CDR Privacy? Redirect Notification? Per Button Ring Control? Bridged Call Alerting?	spe Au y n n y n n	to Select Any Idle App Coverage Msg Re Auto Data Rest Idle Appearance Pre	pearance? r etrieval? y Answer: r criction? r eference? r eference? r	n Y none n n
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display station 2001	Page	3 of	5					
STATION								
Conf/Trans on Primary Appearance? n								
Bridged Appearance Origination Restriction? n								
Call Appearance Display Format: inter-location								
IP Phone Group ID:								
Enhanced Callr-Info Display for 1-Line Phones? n								
ENHANCED CALL FORWARDING								
Forwarded Destination	1	Active						
Unconditional For Internal Calls To: 4000		n						
External Calls To: 4000		n						
Busy For Internal Calls To: 4202		n						
External Calls To: 4202		n						
No Reply For Internal Calls To: 2101		n						
External Calls To: 2101		n						
SAC/CF Override: n								

display station 2001		Page	4 of	5		
	STATION					
SITE DATA						
Room:		Headset? n				
Jack:		Speaker? n				
Cable:	Mounting: d					
Floor:	Cord Length: 0					
Building:	Set Color:					
ADDDEVIAMED DIALING						
ABBREVIATED DIALING List1:	List2:	List3:				
LISCI.	LISCZ.	LISUS.				
BUTTON ASSIGNMENTS						
1: call-appr	4: ma	anual-in Grp:				
2: call-appr	5: at	fter-call Grp:				
3: auto-in	Grp: 6: au	ax-work RC: Grp:				
voice-mail						

Avaya Agent LoginID

This is a printout of one of the agents used during compliance testing.

AGENT LOGINID Login ID: 4400 AAS? n Name: Paul AUDIX? n TN: 1 LWC Reception: spe COR: 1 LWC Log External Calls? n Coverage Path: AUDIX Name for Messaging: Security Code: LoginID for ISDN/SIP Display? n
Name: PaulAUDIX? nTN: 1LWC Reception: speCOR: 1LWC Log External Calls? nCoverage Path:AUDIX Name for Messaging:Security Code:AUDIX Name for Messaging:
Name: PaulAUDIX? nTN: 1LWC Reception: speCOR: 1LWC Log External Calls? nCoverage Path:AUDIX Name for Messaging:Security Code:AUDIX Name for Messaging:
TN: 1 LWC Reception: spe COR: 1 LWC Log External Calls? n Coverage Path: AUDIX Name for Messaging: Security Code:
COR: 1 LWC Log External Calls? n Coverage Path: AUDIX Name for Messaging: Security Code:
Coverage Path: AUDIX Name for Messaging: Security Code:
Security Code:
4
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: :

display agent-loginID 4400 Page 2 of 3						
AGENT LOGINID						
Dire	Direct Agent Skill: Service Objective? n					
Call Handling Preference: skill-level Local Call			Preference? n			
SN H	RL SL	SN RL SL	SN	RL SL	SN RL SL	
1: 33	1 16	:	31:	46:		
2: 34	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:		
11:	26	:	41:	56:		
12:	27	:	42:	57:		
13:	28	:	43:	58:		
14:	29	:	44:	59:		
15:	30	:	45:	60:		

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