

Avaya Solution & Interoperability Test Lab

Application Notes for Verint Impact 360 with Avaya Proactive Contact and Avaya Communication Manager Using Service Observing – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Verint Impact 360 to interoperate with Avaya Proactive Contact and Avaya Communication Manager using Service Observing. Verint Impact 360 is a call recording solution for contact centers. In the compliance testing, the Verint Impact 360 used the Event Services interface from Avaya Proactive Contact to obtain information on agent states and outbound calls, and used the Avaya Communication Manager Service Observing feature via the Avaya Application Enablement Services Device, Media, and Call Control interface to capture the media associated with the outbound calls for call recording.

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 Verint Impact 360 to interoperate with Avaya Proactive Contact and Avaya Communication Manager using Service Observing. Verint Impact 360 is a call recording solution for contact centers. In the compliance testing, the Verint Impact 360 used the Event Services interface from Avaya Proactive Contact to obtain information on agent states and outbound calls, and used the Avaya Communication Manager Service (AES) Device, Media, and Call Control (DMCC) interface to capture the media associated with the outbound calls for call recording.

The Avaya Proactive Contact Event Services interface is used by Verint Impact 360 to monitor the states and outbound calls for the agents. When the agent logs into Avaya Proactive Contact to service outbound calls, Verint Impact 360 receives the notification and initiates a Service Observing request to Avaya Communication Manager via the Avaya AES DMCC interface, to add a virtual IP softphone to the dedicated audio connection between the agent and Avaya Proactive Contact. The virtual IP softphone will stay connected to the agent until the agent logs out of Avaya Proactive Contact.

When an outbound call is delivered to the agent, the Verint Impact 360 is informed of the call via call events from the Avaya Proactive Contact Event Services interface, and therefore starts the call recording using the media from the virtual IP softphone that is connected to the agent. The call events from the Avaya Proactive Contact Event Services interface are also used to determine when to stop the call recording.

Verint Impact 360 only uses the Avaya Proactive Contact Event Services to record outbound calls, therefore the compliance test only covered the recording of outbound calls from Avaya Proactive Contact.

1.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on verifying the following on the Verint Impact 360:

- Handling of real-time agent states and call events from Avaya Proactive Contact.
- Use of Avaya AES DMCC registration services to register and un-register the virtual IP softphones.
- Use of Avaya AES DMCC physical device services to activate Service Observing for the virtual IP softphones.
- Use of Avaya AES DMCC monitoring services and media control events to obtain the media from the virtual IP softphones.
- Proper recording, logging, and playback of outbound calls for scenarios involving basic, hold, reconnect, simultaneous, conference, and transfer calls.

The serviceability testing focused on verifying the ability of Verint Impact 360 to recover from adverse conditions, such as disconnecting/reconnecting the Ethernet cable to Verint Impact 360.

1.2. Support

Technical support on Verint Impact 360 can be obtained through the following:

- **Phone:** (800) 776-2462
- Email: <u>contactcenter@verint.com</u>

2. Reference Configuration

Verint Impact 360 can be configured on a single server or with components distributed across multiple servers. The compliance test configuration used two servers to host Verint Impact 360 components, as shown in **Figure 1**.

The detailed administration of basic connectivity between Avaya Communication Manager and Avaya AES, and between Avaya Communication Manager and Avaya Proactive Contact, are not the focus of these Application Notes and will not be described.

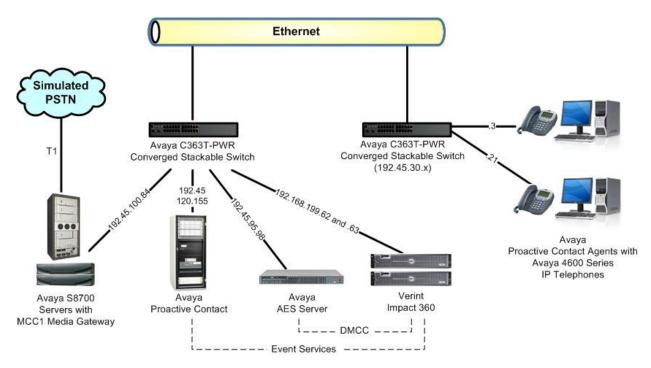


Figure 1: Verint Impact 360 with Avaya Proactive Contact and Avaya Communication Manager Using Service Observing

3. Equipment and Software Validated

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

Equipment	Software
Avaya S8700 Servers	Avaya Communication Manager 5.1.2, R015x.01.2.416.4
 Avaya MCC1 Media Gateway TN799DP C-LAN Circuit Pack TN2302AP IP Media Processor 	HW01 FW024 HW13 FW116
Avaya Application Enablement Services	4.2
Avaya Proactive Contact with PG230 Switch	4.0
Avaya 4600 Series IP Telephones (H.323)	2.9
Verint Impact 360 • Verint Impact 360 HUB • Verint Impact 360 VoIP	ULTRA 10 SP3 ULTRA 10 SP3

4. Configure Avaya Communication Manager

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

- Verify Avaya Communication Manager License
- Administer DMCC CTI link
- Administer feature access codes
- Administer class of restriction
- Administer agent stations
- Administer virtual IP softphones

4.1. Verify Avaya Communication Manager License

Log into the System Access Terminal (SAT) to verify that the Avaya Communication Manager license has proper permissions for features illustrated in these Application Notes. Use the "display system-parameters customer-options" command to verify that the **Service Observing** (Basic) customer option is set to "y" on Page 6. If this option is not set to "y", then contact the Avaya sales team or business partner for a proper license file.

```
display system-parameters customer-options Page 6 of 11
CALL CENTER OPTIONAL FEATURES
Call Center Release: 5.0
ACD? y Reason Codes? y
BCMS (Basic)? y Service Level Maximizer? y
BCMS/VuStats Service Level? y Service Observing (Basic)? y
BSR Local Treatment for IP & ISDN? n Service Observing (Remote/By FAC)? y
Business Advocate? n Service Observing (VDNs)? y
Call Work Codes? y Timed ACW? y
```

Navigate to Page 10, and verify that there is sufficient IP_Soft license.

1 1			5	10 0	1 1
display sys	tem-parameters o	-	2	10 of	ΤT
	MAXIMU	JM IP REGISTRATIONS BY PRODUCT II)		
Product ID	Rel. Limit	Used			
AgentSC	: 12000	0			
IP API A	: 12000	0			
IP_API_B	: 100	0			
IP_API_C	: 100	0			
IP_Agent	: 12000	0			
IP_IR_A	: 100	0			
IP_Phone	: 12000	4			
IP_ROMax	: 12000	0			
IP_Soft	: 12000	0			
IP_eCons	: 128	0			
oneX_Comm	: 12000	0			
	: 0	0			

4.2. Administer DMCC CTI Link

Add a CTI link using the "add cti-link n" command, where "n" is an available CTI link number. Enter an available extension number in the **Extension** field. Note that the CTI link number and extension number may vary. Enter "ADJ-IP" in the **Type** field, and a descriptive name in the **Name** field. Default values may be used in the remaining fields.

```
add cti-link 15 Page 1 of 3
CTI LINK
CTI Link: 15
Extension: 24998
Type: ADJ-IP
COR: 1
COR: 1
```

4.3. Administer Feature Access Codes

Use the "change feature-access-codes" command, to enter an available feature access code for the **Service Observing Listen Only Access Code** field.

```
change feature-access-codes
                                                                Page 5 of 10
                               FEATURE ACCESS CODE (FAC)
                         Automatic Call Distribution Features
                   After Call Work Access Code: *13
                            Assist Access Code:
                           Auto-In Access Code: *15
                          Aux Work Access Code: *16
                             Login Access Code: *17
                            Logout Access Code: *20
                         Manual-in Access Code: *12
      Service Observing Listen Only Access Code: *05
      Service Observing Listen/Talk Access Code: *06
         Service Observing No Talk Access Code: *07
                   Add Agent Skill Access Code:
                Remove Agent Skill Access Code:
            Remote Logout of Agent Access Code:
```

4.4. Administer Class of Restriction

Enter the "change cor n" command, where "n" is the class of restriction (COR) number used for integration with Verint Impact 360. Set the **Can Be Service Observed** and **Can Be A Service Observer** fields to "y", as shown below. For the compliance testing, this COR was assigned to the physical stations used by the Avaya Proactive Contact agents and to the virtual IP softphones used by Verint Impact 360.

```
change cor 7 Page 1 of 22

CLASS OF RESTRICTION

COR Number: 7

COR Description:

FRL: 7 APLT? y

Can Be Service Observed? y Calling Party Restriction: none

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? y

Restriction Override: none Facility Access Trunk Test? n

Restricted Call List? n Can Change Coverage? y
```

4.5. Administer Agent Stations

Modify each physical station used by the Avaya Proactive Contact agents to allow the station to be service observed. Change the agent station using the "change station n" command, where "n" is the station extension number. For the COR field, enter the COR from **Section 4.4**, which allows the station to be service observed.

Repeat this section for all agent stations. In the compliance testing, two physical agent stations with extensions of "22721" and "26614" were modified.

```
change station 22721
                                                                         Page 1 of 5
                                         STATION
                                         Lock Messages? n
Security Code: *
Coverage Path 1:
Extension: 22721
                                                                                BCC: 0
     Type: 4621
                                                                                 TN: 1
     Port: S00011
                                                                                COR: 7
     Name: Customer
                                          Coverage Path 2:
                                                                                 COS: 1
                                          Hunt-to Station:
STATION OPTIONS
                                               Time of Day Lock Table:
               Loss Group: 19 Personalized Ringing Pattern: 1

      Speakerphone: 2-way
      Message Lamp Ext: 22721

      Display Language: english
      Expansion Module? n

 Survivable GK Node Name:
      ivable GK Node Name:
Survivable COR: internal
                                                    Media Complex Ext:
                                                           IP SoftPhone? n
   Survivable Trunk Dest? y
                                                                IP Video? n
                                                    Customizable Labels? y
```

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4.6. Administer Virtual IP Softphones

Add a virtual softphone using the "add station n" command, where "n" is an available extension number. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Type:** "4602+"
- Name: A descriptive name.
- Security Code: A desired value.
- **COR:** The class of restriction number from **Section 4.4**.
- IP SoftPhone: "y"

add station 22991	Ра	ge 1	of	4
	STATION			
Futersiers 22001		-		0
Extension: 22991	Lock Messages? n		BCC:	
Type: 4602+	Security Code: 12345		TN:	
Port: S00147	Coverage Path 1:		COR:	
Name: Verint Virtual	Softphone 1 Coverage Path 2:	(COS:	1
	Hunt-to Station:			
STATION OPTIONS				
	Time of Day Lock Table:			
Loss Group:	-			
	Message Lamp Ext:			
Speakerphone:	1-way Mute Button Enabled?	V		
Display Language:		-		
Survivable GK Node Name:				
Survivable COR:	internal Media Complex Ext:			
Survivable Trunk Dest?				
Survivable frunk Dest:	y if Soltfille:	Y		
	ID Midaa Coftabaaa	~		
	IP Video Softphone?	11		

Repeat this section to administer the desired number of virtual softphones, using sequential extension numbers and the same security code for all virtual softphones. For the compliance testing, two virtual softphones were administered as shown below, to allow for two simultaneous recordings.

list station	22991 cc	unt 2				
		STAI	TIONS			
Ext/ Hunt-to	Port/ Type	Name/ Surv GK NN	Move	Room/ Data Ext	Cv1/ COR/ Cable/ Cv2 COS Jack	
22991	S00147 4602+	Verint Virtual S	Softphone 1 no		7 1	
22992	S00139 4602+	Verint Virtual S	Softphone 2 no		7 1	

5. Configure Avaya Application Enablement Services

This section provides the procedures for configuring Avaya AES. The procedures include the following areas:

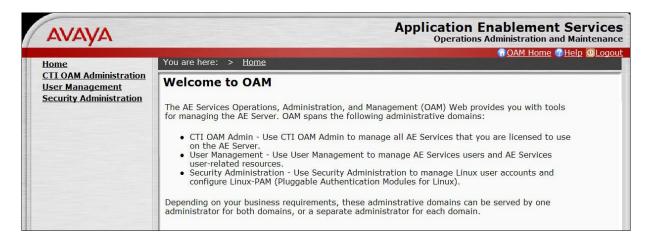
- Verify AES license
- Obtain H.323 gatekeeper
- Administer Verint user

5.1. Verify AES License

Access the AES OAM web-based interface by using the URL "https://ip-address:8443/MVAP" in an Internet browser window, where "ip-address" is the IP address of the AES server. The **Logon** screen is displayed as shown below. Log in with the appropriate credentials.

Application Enablement Service	es 🣍 Hel
Please log on.	
Logon:	
Password:	

The Welcome to OAM screen is displayed next. Select CTI OAM Administration from the left pane.



The **Welcome to CTI OAM Screens** is displayed. Verify that AES is licensed for the **DMCC Service**, as shown below. If the service is not licensed, contact the Avaya sales team or business partner for a proper license file.

Ανάγα			Applicati	on Enablement Services ations Administration and Maintenance
	You are here: > CTI	OAM Home		G OAM Home @ Help @ Logou
<u>Administration</u> <u>Status and Control</u>	Welcome to CT	I OAM Screen	S	
Logs	[craft] Last login: Weo	l Feb 4 10:34:15 200	9 from 192.168.199.73	
	IMPORTANT: AE Service Changes to the Security		for administrative changes t quire a restart.	to fully take effect.
	Service	Status	State	Licenses Purchased
	ASAI Link Manager	Running	N/A	N/A
	DMCC Service	Running	ONLINE	Yes
	CVLAN Service	Running	ONLINE	Yes
	DLG Service	Running	ONLINE	Yes
	Transport Layer Service	Running	N/A	N/A
	TSAPI Service	Running	ONLINE	Yes
	SMS	N/A	N/A	Yes
	For status on actual se	rvices, please use <u>Sta</u>	atus and Control.	
	License Information			
	You are licensed to run	Application Enablem	ent (CTI) version 4.2.	

5.2. Obtain H.323 Gatekeeper

Select Administration > Switch Connections from the left pane. The Switch Connections screen shows a listing of the existing switch connections. Locate the connection name associated with the relevant Avaya Communication Manager, in this case "devcon2715", and select the corresponding radio button. Click Edit H.323 Gatekeeper.

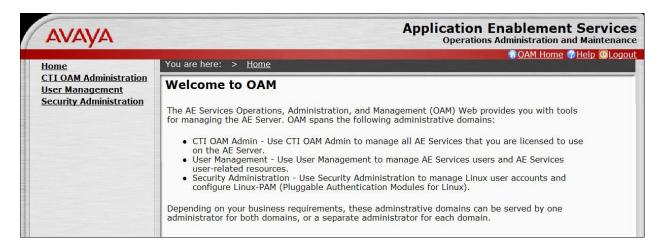
	Application Enablement Services Operations Administration and Maintenance
You are here: > <u>Administration</u> >	Switch Connections
Switch Connections	
	Add Connection
Connection Name	Number of Active Connections
O devcon11	0
O devcon13	1
O devcon14	0
O devcon26	2
devcon2715	2
	0
	0
Edit Connection Edit CLAN IPs	Edit H.323 Gatekeeper Delete Connection
	Switch Connections Connection Name devcon11 devcon13 devcon14

The **Edit H.323 Gatekeeper** screen is displayed. Note the IP address, for this value will be used later to configure the Verint Impact 360 server.

Αναγα	Application Enablement Services Operations Administration and Maintenance
CTI OAM Home	You are here: > <u>Administration</u> > <u>Switch Connections</u>
Administration Network Configuration Switch Connections CTI Link Admin	Edit H.323 Gatekeeper - devcon2715 Add Name or IP
DMCC Configuration <u>TSAPI Configuration Security Database Certificate Management </u>	Name or IP Address 192.45.100.84 Delete IP

5.3. Administer Verint User

Administer a new user account for Verint Impact 360, which is created from the AES User Management web pages. Select **OAM Home**, located at the upper right corner of the screen, to display the **Welcome to OAM** screen below. Select **User Management** from the left pane.



The Welcome to the User Management home page screen is displayed, as shown below.

Αναγα	Application Enablement Services Operations Administration and Maintenance
User Management Home	You are here: > <u>User Management Home</u>
User Management Service Management	Welcome to the User Management home page
▶ <u>Help</u>	User Management provides you with the following tools for managing user-related information for AE Services:
	 User Management Use the User Management tools to manage all AE Services users (add, change or delete users). Service Management Use the Service Management tools for managing the User Management service itself (for example, synchronizing events between the AE Services user database and the Security database).

Select User Management > Add User from the left pane. In the Add User screen shown below, enter descriptive values for the User Id, Common Name, Surname, User Password, and Confirm Password fields. For the CT User field, select "Yes" from the drop-down list. Retain the default value in the remaining fields. Click Apply at the bottom of the screen (not shown below).

ΑνΑγΑ			Application Enablement Services Operations Administration and Maintenance
User Management Home - User Management List All Users Add User Search Users Modify Default User Change User Password - Service Management - Help	You are here: > Use Add User Fields marked with * c * User Id * Common Name * User Password * User Password * User Password * User Password * User Password Admin Note Avaya Role Business Category Car License CM Home CSs Home CT User Department Number Display Name	verint verint ••••••• ••••••• ••••••• None • · <th>GOAM Home @Help OLogout</th>	GOAM Home @Help OLogout

6. Configure Verint Impact 360

This section provides the procedures for configuring Verint Impact 360. The procedures include the following areas:

- Launch Configuration Manager
- Administer acquisition configuration
- Administer recording control
- Generate and distribute configuration
- Launch IntelliLink Configuration
- Administer Communication Manager connection
- Administer Proactive Contact connection

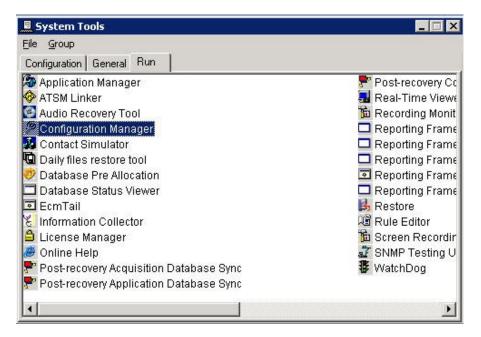
The configuration of Verint Impact 360 is performed by Verint technicians. The procedural steps are presented in these Application Notes for informational purposes.

6.1. Launch Configuration Manager

From the Verint Impact 360 server running the HUB component, double-click on the **System Tool** icon shown below, which is created as part of the installation.



The **System Tools** screen is displayed. Select the **Run** tab, followed by **Configuration Manager** to launch the application.



Solution & Interoperability Test Lab Application Notes ©2009 Avaya Inc. All Rights Reserved. In the Configuration Manager Login screen, enter the appropriate credentials.

Enter Passv	vord:	

The **Open Site Configuration** screen is displayed next. Select the appropriate site under **Sites** and click **Open Site**. Note that the applicable sites are created by the Verint technicians as part of the initial configuration.

IVAYA PC	Name:	AVAYA_PC
	Site ID:	2002
	Primary Site:	Yes
	Description:	A
		- -
	Version:	10.1.1301
	Release:	1

6.2. Administer Acquisition Configuration

The Configuration Manager screen is displayed. Select Recording and Call Flow > Acquisition Configuration > Acquisition Unit 2 from the left pane, to display the Acquisition Configuration – Acquisition Unit 2 screen. Enter the following values for the specified fields, and retain the default values for the remaining fields. Click Save.

- No. of Channels:
- Tapping Mode:

- The number of virtual softphones from Section 4.6. "Delivery - CMAPI"
- VoIP Compression:
- Number of simultaneous contacts: The number of virtual softphones from Section 4.6. Select a desired VoIP compression.

ile	
System Machines/Subsystems General System Configuration Recording and Call Flow Acquisition Configuration Acquisition Unit 1 Acquisition Unit 1 Acquisition Unit 2 Acquisition Director Acquisition Director Acquisition Features Field Names Data Access Services Directory Database Database Backup Dat	Acquisition Configuration - Acquisition Unit 2 Save General Acquisition Type: VolP Image: Comparison of the second s

6.3. Administer Recording Control

From the **Configuration Manager** screen, select **Recording and Call Flow > Recording Control > Acquisition Unit 2** from the left pane, to display the **Recording Control** – **Acquisition Unit 2** screen. Select the **CMapi** tab. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Virtual extensions start at: The starting virtual softphone extension from Section 4.6.
- Silent observation code: The Service Observing Listen Only code from Section 4.3.
- Connector server address: The IP address of the Avaya AES server.
- Switch address:
- The IP address of the H.323 gatekeeper from Section 5.2.
- Login password:
- The password for the virtual softphones from Section 4.6.

Configuration Manager - D:\Comverse\t File Comverse	Jconf\Bin\Sites\A¥A¥A_PC.ucf		- - >
System Machines/Subsystems General System Configuration Recording and Call Flow Acquisition Configuration Recording Control Acquisition Unit 1 Acquisition Unit 1 Acquisition Director Acquisition Director Acquisition Director Acquisition Features Multiple Sites Applications Application Features Data Access Services Directory Database Backup Database Purging and Maintenance Alarms Alarms Data Warehouse	Recording Control - Acquiding General CMapi General CMapi Connector server port: Capture Nic IP address: SoftPhone preferred codec: Virtual extensions start at: UDP ports for recording start at: Silent observation code: Connector server address: Switch address: Login password: Encryption:	isition Unit 2 4721 192.168.199.63 G729 22991 9000 *05 192.45.95.98 192.45.100.84 ****** None	Save
			Authorize

6.4. Generate and Distribute Configuration

Click on the Generate and Distribute Configuration To Site icon circled below.

Configuration Manager - D:\Comve	erse\Uconf\Bin\Sites\AVAYA_PC.ucf	b	
File			
🗆 🛄 System	Recording Control - Acq	uisition Unit 2	Save
	General CMapi		
白- 自 Acquisition Configuration Acquisition Unit 1 	Connector server port: Capture Nic IP address:	4721	
Acquisition Unit 1	SoftPhone preferred codec:	G729	

The Generation and Distribution of Configuration screen is displayed. Click Select All, followed by Distribute Configurations to distribute the updated configuration to all components. Reboot all Verint Impact 360 servers.

Subsystem	ID	IP Address	
Acquisition Database		- Å.	
	1	10.61.21.53	
Acquisition Director			
	1	10.61.21.70	
Acquisition Unit(s) on			
		10.61.21.53	
		10.61.21.70	
Application Database			
	1	10.61.21.53	
Applications			
	1		
Distribute Configurations		Select All	Clear All

6.5. Launch IntelliLink Configuration

From the Verint Impact 360 server running the VoIP component, double-click on the **System Tool** icon shown below, which is created as part of the installation.



The System Tools screen is displayed. Select the Configuration tab, followed by IntelliLink Configuration to launch the application.

System Tools	_ 🗆 X
Eile Group	
Configuration General Run	
留 Add Users Group to ULTRA's Virtual Folders 经 Add Users Group to Virtual Folders 館 Encryption Utility	3
IntelliLink Analyzer	
建 IT Tool Key Retriever Łog Manager	
 Security Configuration Utility VoIP Nic Manager 	

6.6. Administer Communication Manager Connection

The IntelliLink Configuration Utility screen is displayed. Right click on IntelliLink in the left pane, and select New to create a new switch connection.

CINTELLINK Configuration U	ility
⊡ - IntelliLink	Active CTI General Advanced Troubleshooting IntelliLink API Web Service Truncate Data Events Filter Recording Mode
	Save Changes OK

The IntelliLink Configuration Wizard screen is displayed (not shown). Select Avaya Communication Manager, and click Next.

In the subsequent screen (not shown), select **TSAPI** for protocol, and click **Next**. Note that the TSAPI selection includes the DMCC.

The screen below is displayed. Enter a desired name for Switch Name, and click Next.

witch Name-		
CM5	-	
	 - 22 - 22	

The IntelliLink Configuration Utility screen is displayed again, and updated with the newly added switch connection shown in the left pane. Select CM5 (Switch1) > TSAPI from the left pane. Select the General tab in the right pane. For Login ID and Password, enter the Verint user credentials from Section 5.3. Click Save Changes.

DintelliLink Configuration Utility IntelliLink IntelliLink CM5 (Switch1) IntelliC SAPI	General Advanced			×
- O Devices - O Channel Mapping - Custom Data	Server Name Login ID Password	verint1	=	
	Dptional Backup Server Name Login ID Password			
	_		Save Changes	ок

Select CM5 (Switch1) > Channel Mapping from the left pane. Use the Add/Modify Modules and Channels and the Map Channels sections to assign the physical agent stations from Section 4.5 to relevant modules and channels. This will associate a virtual softphone with each physical agent station. In the compliance testing, two channels for module "2" were used, with module "2" denoting audio recording. The screen below is shown after entering the values and clicking Save Changes.

IntelliLink CM5 (Switch1) CM5 (Switch1) Channel Mapping Custom Data	# Module Channel Device 1 2 1 26614 2 2 2 22721	Add/Modify Modules and Channels From module: to: Channels per module: Add/Modify
		Map Channels Map module: From channel: Map From device: Map
		Unmap Channels Select the channels to unmap and click Unmap.
		Delete Module Delete
		File Options Append Export Import

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6.7. Administer Proactive Contact Connection

From the **IntelliLink Configuration Utility** screen, right-click on **IntelliLink** in the left pane, and select **New** to create a new switch connection.

IntelliLink Configuration Utility		- 🗆 ×
 IntellLink CM5 (Switch1) Devices Channel Mapping Custom Data 	Active CTI General Advanced Troubleshooting IntelliLink API Web Service Truncate Data Events Filter Recording Mode Station Side Image: Comparison of the comparison of t	
	Save Changes	OK

The IntelliLink Configuration Wizard screen is displayed (not shown). Select Avaya PDS, and click Next.

The screen below is displayed. For **Switch Name**, select the same switch name from **Section 6.6**, and click **Next**.

efine the switcl Switch Name-	n name or select switch from the
CM5	
	· · · · · · · · · · · · · · · · · · ·
<- <u>B</u> ack	Next -> Cancel

The IntelliLink Configuration Utility screen is displayed again, and updated with the newly added switch connection shown in the left pane. Select CM5 (Switch2) > CM5 from the left pane. Select the General tab in the right pane. Enter the following values for the specified fields, and retain the default values for the remaining fields. Click Save Changes.

- Server Name: The host name of the Avaya Proactive Contact server.
- Switch ID: The switch number for the Communication Manager connection.
- Server version: "4"

⊡ IntelliLink È ● CM5 (Switch1)	General Advanced			
 TSAPI Devices Channel Mapping Custom Data CM5 (Switch2) CM5 Custom Data 	Server Name Port Switch ID Server version	Izpds4b 23201 1 4		
			Save Changes	

7. General Test Approach and Test Results

The feature test cases were performed both automatically and manually. Upon start of the Verint Impact 360 application, the application automatically registers the virtual IP softphones to Avaya Communication Manager using Avaya AES DMCC, obtains the current status on Avaya Proactive Contact using Event Services, and initiates Service Observing to add a virtual IP softphone to each logged in agent using Avaya AES DMCC.

For the manual part of the testing, each outbound call was handled manually on the agent with generation of unique audio content for the recordings. Necessary agent actions such as hold and reconnect were performed from the agent desktop to test the different call scenarios.

The serviceability test cases were performed manually by disconnecting/reconnecting the Ethernet cables to the Verint Impact 360 servers.

The verification of tests included using the Verint Impact 360 logs for proper message exchanges, and using the Verint Impact 360 web interface for proper logging and playback of the calls.

All test cases were executed and passed.

8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya Communication Manager, Avaya AES, and Verint Impact 360.

Follow the procedures in **Section 6.5** to launch **System Tools** from the Verint Impact 360 server running the VoIP component, and select **IntelliLink Analyzer**.

The IntelliLink Analyzer screen is displayed. Verify that the Running and Connected to CTI status are "Yes", as shown below. Also verify that the Switch Specific Connection Status section shows both switch connections to be "Connect".

IntelliLink Analyzer		_ 🗆 🗙
IntelliLink Status Running: Yes Connected to CTI: Yes Switch Specific Connection Status: Switch 1 - Connect (PID 4200) Switch 2 - Connect (PID 4412) Segments per Hour: 0 Total Failed Devices: 0 Failed Devices:	Queries Find: Agent and Trunk By: Extension: Extension: Query Results Query:	Quit
IntelliLink Events InfolinkClient::Init() returned FALSE, client's keep 00:37:49 Connection Callback - Connection: 00:37:51 Switch 1 - Connect (PID 4200) 00:37:51 Switch 2 - Connect (PID 4412)	Show <u>D</u> etailed Events Expand Event <u>Pane</u>	<u>C</u> lear

Launch an outbound job on Avaya Proactive Contact, and log an agent in to handle an outbound call. Launch the Verint Impact 360 web interface with the hostname or IP address of the Verint Impact 360 server running the VoIP component, and log in with the appropriate credentials.

The **Contacts** screen displays a list of the call recordings. Verify that the first entry reflects the last call, with proper values in the **Start Time**, **Duration**, **Dial To (DNIS)**, and **Extension** fields. Double click on the entry to view the details.

IMPACT360 Contacts				Preferences Help				
Contacts: 1 - 50	Sorte	l By: Start	Time		Next >		Save	e Search
Contacts								
Start Time🗢	Play	Duration	Agent	Û	Dialed From (ANI)	Dialed To (DNIS)	Extension	Data
2/23/2009 5:25:48.2 PM	00	00:01:22				912025216781	22721	0
2/23/2009 5:25:33.6 PM	00	00:00:20				912025216781	22721	0
2/23/2009 5:20:42.3 PM	00	00:17:04					26614	8
2/23/2009 5:18:05.4 PM	00	00:02:26				912025216783	26614	0
2/23/2009 5:16:25.5 PM	00	00:09:08				912025216784	22721	
2/23/2009 5:14:59.8 PM	00	00:01:19				912025216785	22721	0
2/23/2009 5:04:24.1 PM	00	00:13:46				912025216783	26614	8
2/23/2009 5:04:23.5 PM	00	00:10:41				912025216785	22721	0
2/11/2009 1:25:48.6 AM	00	00:00:31				912025216786	22721	
2/11/2009 1:23:12.5 AM	00	00:01:06				912025216782	22721	0

Click the play icon highlighted below to verify the proper playback of the call recording.

IMPACT360 Contacts		Home Search B	ack to list	Preferences Help			
Customer Xperience Flags Se	nd Download						
Contact (5:25:48 PM) Segment 1 💌 📥	Segment Information	í _		 Contact Information 	5		
Segment 1/1 - (Start 5:25:48 PM)	Acquisition Module	2		Contact Analysis Exception	False		
PBX ID: agent1	Channel	2		Contact ID	9103626435323	22002012	
	Start Time	2/23/2009		Contact duration	00:01:17		
	Start Hille	5:25:48 PM		Number of Holds	0		
	End Time	2/23/2009	-	Number of Transfers	0		
		5:27:10 PM		Number of Conferences	0		
	Local Start Time	2/23/2009 5:25:48 PM		Total Hold Time	00:00:00		
	Local End Time	0.20.40111		Start Time	2/23/2009		
	Screen Acquisition Module	0			5:25:48 PM		
	Dialed From (ANI)						
	Dialed To (DNIS)	912025216781					
	Extension	22721					
in the advantation of the state	PBX ID	agent1					
I see state and a make a set in the state	Switch	CM5					
	Switch Call ID	0020010541000000	v				
topped 00:00 / 01:2							

9. Conclusion

These Application Notes describe the configuration steps required for Verint Impact 360 to successfully interoperate with Avaya Proactive Contact and Avaya Communication Manager using Service Observing. All feature and serviceability test cases were completed.

10. Additional References

This section references the product documentation relevant to these Application Notes.

- 1. *Administrator Guide for Avaya Communication Manager*, Document 03-300509, Issue 4.0, Release 5.0, January 2008, available at <u>http://support.avaya.com</u>.
- 2. Avaya MultiVantage Application Enablement Services Administration and Maintenance Guide, Release 4.2, Document ID 02-300357, Issue 10, May 2008, available at http://support.avaya.com.
- **3.** Avaya Proactive Contact Release 4.0 Administering Avaya Proactive Contact, January 2008, available at http://support.avaya.com.
- 4. Verint Impact 360 documentation is available upon request to Verint technical support.

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