

Avaya Solution & Interoperability Test Lab

Application Notes for Verint Impact 360 Compliance Package and Avaya Proactive Contact using Computer Telephony Interface - Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Verint Impact 360 Compliance Package 7.8 to successfully interoperate with Avaya Proactive Contact 4.0 using Computer Telephony Interface. Verint Impact 360 Compliance Package is a call recording solution capable of capturing audio from Avaya Communication Manager using a variety of integration mechanism. Verint Impact 360 Compliance Package uses Avaya Proactive Contact Event Services to extract call event information and DMCC interface to Avaya Application Enablement Services Server to obtain the audio.

Information in these Application Notes has been obtained through interoperability 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 a compliance-tested configuration comprised of Avaya Proactive Contact 4.0.1 using Computer Telephony Interface (CTIDialer) and Verint Impact 360 Compliance Package 7.8 using PDS connector 3.0.2 (Impact360 CP). Impact360 CP uses the Event Service of Avaya CTIDialer to extract call event information and DMCC interface to Avaya Application Enablement Services Server (AES) to obtain the audio from Avaya Communication Manager. Impact360 CP uses the CMAPI extensions on Avaya Communication Manager to service observe the stations/extensions to be recorded. Additionally, Impact360 CP uses the DMCC interface to Avaya AES to receive inbound call information for Predictive Agent Blending (PAB) campaign. For Outbound and Managed campaigns, Avaya CTIDialer interacts directly with Avaya Communication Manager. The Avaya CTIDialer is a software only solution. Figure 1 shows the configuration used for the compliance testing.

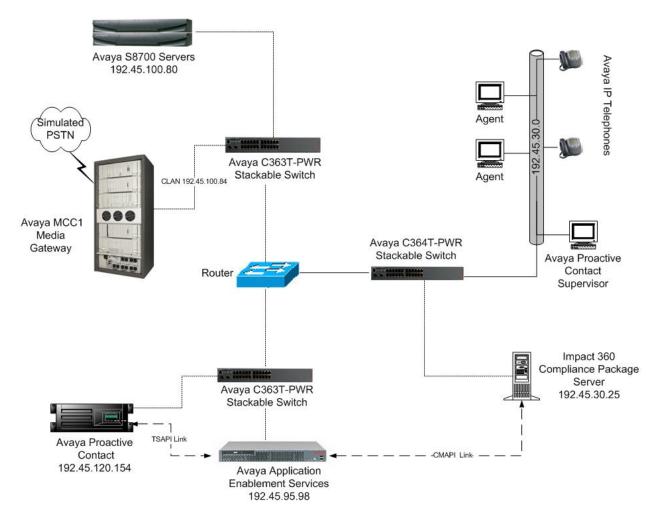


Figure 1: Avaya Proactive Contact, Avaya Communication Manager, Avaya AES and Impact 360 Compliance Package Configuration

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2. Equipment and Software Validated

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

Equipment	Software
HP Proliant DL385G2	Avaya Proactive Contact 4.0.1
	Build 105
Avaya S8700 Media Server	Avaya Communication Manager
	4.0 (R014x.00.0.730.5)
Avaya MCC1 Media Gateway	
TN464 DS1 Interface	HW02, FW019
TN799DP C-LAN Interface	HW01 FW024
TN2302AP IP Media Processor	HW13 FW116
Avaya 4610 (H323)	2.1.3
Avaya Application Enablement Services Server	4.2
Avaya C363T-PWR Converged Stackable Switch	4.5.14
Impact 360 Compliance Package	7.8
Impact 360 Compliance Package PDS connector	3.0.2

3. Configure Avaya Communication Manager

This section provides the procedures for verifying and configuring Avaya Communication Manager. The following will be configured:

- Verify Avaya Communication Manager is configured for Computer Telephony Interface (CTI)
- Configure Avaya Communication Manager for the Adjunct Route for Avaya CTIDialer
- Configure Avaya Communication Manager for Predictive Agent Blending on Avaya CTIDialer
- Configure Service Observing feature
- Configure CMAPI stations

Configuration in the following sections is only for the fields where a value needs to be entered or modified. Default values are used for all other fields. These steps are performed from the Avaya Communication Manager System Access Terminal (SAT) interface and all changes are saved. Refer to [1] for additional details.

3.1. Verify Avaya Communication Manager is configured for Computer Telephony Interface

р	Description			
	Use the display system-parameters custome	r-options command. On Page 3, verify th		
	the Computer Telephony Adjunct Links option is set to y.			
		•		
	display system-parameters customer-option	ns Page 3 of 11		
		FEATURES		
	Abbreviated Dialing Enhanced List? n	Audible Message Waiting? r		
	Access Security Gateway (ASG)? n	Authorization Codes? r		
	Analog Trunk Incoming Call ID? n	Backup Cluster Automatic Takeover?		
	A/D Grp/Sys List Dialing Start at 01? n	CAS Branch? 1		
	Answer Supervision by Call Classifier? y	CAS Main? r		
	ARS? y	Change COR by FAC? n		
	ARS/AAR Partitioning? y	Computer Telephony Adjunct Links?		
	ARS/AAR Dialing without FAC? y	Cvg Of Calls Redirected Off-net? n		
	ASAI Link Core Capabilities? n	DCS (Basic)? n		
	ASAI Link Plus Capabilities? n	DCS Call Coverage? n		
	Async. Transfer Mode (ATM) PNC? n	DCS with Rerouting? n		
	Async. Transfer Mode (ATM) Trunking? n			
	ATM WAN Spare Processor? n	Digital Loss Plan Modification? n		
	-	DOI MODO		
	ATMS? n			
	-	DS1 MSP? r DS1 Echo Cancellation? r g (Basic) fields are set to y.		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin	DS1 Echo Cancellation? r g (Basic) fields are set to y.		
	ATMS? n Attendant Vectoring? n	DS1 Echo Cancellation? r g (Basic) fields are set to y.		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option	DS1 Echo Cancellation? r g (Basic) fields are set to y. ns Page 6 of 1: IONAL FEATURES		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT	DS1 Echo Cancellation? 1 g (Basic) fields are set to y. ns Page 6 of 1: IONAL FEATURES lease: 4.0 Reason Codes? 1		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n	DS1 Echo Cancellation? 1 g (Basic) fields are set to y. ns Page 6 of 1: IONAL FEATURES lease: 4.0 Reason Codes? 1 Service Level Maximizer? 1		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n BCMS/VuStats Service Level? n	DS1 Echo Cancellation? r g (Basic) fields are set to y. ns Page 6 of 1: IONAL FEATURES lease: 4.0 Reason Codes? r Service Level Maximizer? r Service Observing (Basic)? y		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n BCMS/VuStats Service Level? n BSR Local Treatment for IP & ISDN? n	DS1 Echo Cancellation? r g (Basic) fields are set to y. ns Page 6 of 1: IONAL FEATURES lease: 4.0 Reason Codes? r Service Level Maximizer? r Service Observing (Basic)? y Service Observing (Remote/By FAC)? y		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n BCMS/VuStats Service Level? n BSR Local Treatment for IP & ISDN? n Business Advocate? n	DS1 Echo Cancellation? n g (Basic) fields are set to y. ns Page 6 of 12 IONAL FEATURES lease: 4.0 Reason Codes? n Service Level Maximizer? n Service Observing (Basic)? y Service Observing (VDNs)? y		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n BCMS/VuStats Service Level? n BSR Local Treatment for IP & ISDN? n Business Advocate? n Call Work Codes? n	DS1 Echo Cancellation? r g (Basic) fields are set to y. ns Page 6 of 12 IONAL FEATURES lease: 4.0 Service Level Maximizer? r Service Observing (Basic)? y Service Observing (VDNs)? y Timed ACW? r		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n BCMS/VuStats Service Level? n BSR Local Treatment for IP & ISDN? n Business Advocate? n Call Work Codes? n DTMF Feedback Signals For VRU? n	DS1 Echo Cancellation? r g (Basic) fields are set to y. ns Page 6 of 12 IONAL FEATURES lease: 4.0 Service Level Maximizer? r Service Observing (Basic)? y Service Observing (VDNs)? y Timed ACW? r Vectoring (Basic)? y		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n BCMS/VuStats Service Level? n BSR Local Treatment for IP & ISDN? n Business Advocate? n Call Work Codes? n DTMF Feedback Signals For VRU? n Dynamic Advocate? n	DS1 Echo Cancellation? r g (Basic) fields are set to y. ns Page 6 of 12 IONAL FEATURES lease: 4.0 Service Level Maximizer? r Service Observing (Basic)? y Service Observing (VDNs)? y Timed ACW? r Vectoring (Basic)? y		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n BCMS/VUStats Service Level? n BSR Local Treatment for IP & ISDN? n Business Advocate? n Call Work Codes? n DTMF Feedback Signals For VRU? n Dynamic Advocate? n Expert Agent Selection (EAS)? y	DS1 Echo Cancellation? r g (Basic) fields are set to y. ns Page 6 of 1: IONAL FEATURES lease: 4.0 Service Level Maximizer? r Service Observing (Basic)? y Service Observing (VDNs)? y Timed ACW? r Vectoring (Basic)? y Vectoring (Prompting)? y Vectoring (G3V4 Enhanced)? r		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n BCMS/VUStats Service Level? n BSR Local Treatment for IP & ISDN? n Business Advocate? n Call Work Codes? n DTMF Feedback Signals For VRU? n Dynamic Advocate? n Expert Agent Selection (EAS)? y EAS-PHD? n	DS1 Echo Cancellation? r g (Basic) fields are set to y. ns Page 6 of 12 IONAL FEATURES lease: 4.0 Service Level Maximizer? r Service Observing (Basic)? y Service Observing (VDNs)? y Timed ACW? r Vectoring (Basic)? y Vectoring (G3V4 Enhanced)? r Vectoring (3.0 Enhanced)? r		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n BCMS/VUStats Service Level? n BSR Local Treatment for IP & ISDN? n Business Advocate? n Call Work Codes? n DTMF Feedback Signals For VRU? n Dynamic Advocate? n Expert Agent Selection (EAS)? y EAS-PHD? n Forced ACD Calls? n	DS1 Echo Cancellation? r g (Basic) fields are set to y. ns Page 6 of 1: IONAL FEATURES lease: 4.0 Service Level Maximizer? r Service Observing (Basic)? y Service Observing (VDNs)? y Timed ACW? r Vectoring (Basic)? y Vectoring (G3V4 Enhanced)? r Vectoring (ANI/II-Digits Routing)? r		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n BCMS/VUStats Service Level? n BSR Local Treatment for IP & ISDN? n Business Advocate? n Call Work Codes? n DTMF Feedback Signals For VRU? n Dynamic Advocate? n Expert Agent Selection (EAS)? y EAS-PHD? n Forced ACD Calls? n Least Occupied Agent? n	DS1 Echo Cancellation? r g (Basic) fields are set to y. ns Page 6 of 12 IONAL FEATURES lease: 4.0 Reason Codes? r Service Level Maximizer? r Service Observing (Basic)? y Service Observing (VDNs)? y Timed ACW? r Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (G3V4 Enhanced)? r Vectoring (3.0 Enhanced)? r Vectoring (G3V4 Advanced Routing)? r		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n BCMS/VUStats Service Level? n BSR Local Treatment for IP & ISDN? n Business Advocate? n Call Work Codes? n DTMF Feedback Signals For VRU? n Dynamic Advocate? n Expert Agent Selection (EAS)? y EAS-PHD? n Forced ACD Calls? n Least Occupied Agent? n Lookahead Interflow (LAI)? n	DS1 Echo Cancellation? r g (Basic) fields are set to y. ns Page 6 of 12 IONAL FEATURES lease: 4.0 Reason Codes? r Service Level Maximizer? r Service Observing (Basic)? y Service Observing (VDNs)? y Timed ACW? r Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (G3V4 Enhanced)? r Vectoring (3.0 Enhanced)? r Vectoring (ANI/II-Digits Routing)? r Vectoring (G3V4 Advanced Routing)? r Vectoring (CINFO)? r		
	ATMS? n Attendant Vectoring? n On Page 6, verify that the ACD and Vectorin display system-parameters customer-option CALL CENTER OPT Call Center Re ACD? y BCMS (Basic)? n BCMS/VUStats Service Level? n BSR Local Treatment for IP & ISDN? n Business Advocate? n Call Work Codes? n DTMF Feedback Signals For VRU? n Dynamic Advocate? n Expert Agent Selection (EAS)? y EAS-PHD? n Forced ACD Calls? n Least Occupied Agent? n	DS1 Echo Cancellation? r g (Basic) fields are set to y. ns Page 6 of 12 IONAL FEATURES lease: 4.0 Reason Codes? r Service Level Maximizer? r Service Observing (Basic)? y Service Observing (VDNs)? y Timed ACW? r Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (Basic)? y Vectoring (G3V4 Enhanced)? r Vectoring (3.0 Enhanced)? r Vectoring (G3V4 Advanced Routing)? r		

display syst	em-parameters customer-options ASAI ENHANCED FEATURES	Page	9 of
	CTI Stations? y		
In	ncreased Adjunct Route Capacity? y Phantom Calls? y		
	ASAI PROPRIETARY FEATURES		
	Agent States? y		

3.2. Configure Avaya Communication Manager for the Adjunct Route for Avaya CTIDialer

A vector and VDN are configured in Avaya Communication Manger to handle the calls initiated by the Avaya CTIDialer using the CTI link to Avaya AES.

Step	Description				
1.	Add a CTI link using the add cti-		e n is an avai	lable C	ΓI link
	number and configure as follows:				
	• Extension – Set to an avail	ilable extension as per t	he dial plan.		
	• Type – Set to ADJ-IP	_	_		
	• Name – Set to any descrip	otive name.			
	add cti-link 15		Page	1 of	2
		CTI LINK			
	CTI Link: 15				
	Extension: 24998				
	Type: ADJ-IP				
					COR: 1
					COR· I

2.	Enter the change vector n command, where n is an unused vector number. This vector will use the CTI link configured in Step 4 . For this compliance test, a vector is configured with an adjunct routing link . This vector will be used by CTIDialer to make outbound calls.
	change vector 400 Page 1 of 3 CALL VECTOR
	Number: 400Name: Dialer Adjunct RouteMultimedia? nMeet-me Conf? nLock? nBasic? yEAS? yG3V4 Enhanced? yANI/II-Digits? yASAI Routing? yPrompting? yLAI? yG3V4 Adv Route? yCINFO? yBSR? nHolidays? nVariables? n3.0 Enhanced? n01 adjunctrouting link 152secs hearing silence030405060707000000
3.	Enter add vdn <i>n</i> command, where <i>n</i> is an unused VDN and configure as follows:
5.	 Name – Set to any descriptive name. Vector Number – Set the vector configured in Step 6. Note: This VDN is also configured on Avaya CTIDialer and passed to Avaya Communication Manager to make outbound calls for an Outbound campaign.
	add vdn 54400 Page 1 of 2 VECTOR DIRECTORY NUMBER
	Extension: 54400 Name: Dialer Adjunct Route Vector Number: 400
	Meet-me Conferencing? n Allow VDN Override? n COR: 1 TN: 1 Measured: none
	VDN of Origin Annc. Extension: 1st Skill: 2nd Skill: 3rd Skill:

3.3. Configure Avaya Communication Manager for Predictive Agent Blending

Avaya CTIDialer via the CTI link monitors the activity on Avaya Communication Manager, such as the inbound VDN and hunt groups, and uses this information to determine when to acquire agents for outbound calling and when to release the agents to handle inbound calls.

Step	Description					
1.	Below shows a table of the Vector Directory Numbers (VDN), Vectors, Hunt groups,					
	Phantom Stations and Agent Logins configured for the Avaya CTIDialer during					
	compliance testi	compliance testing for PAB campaign. Dialer Acquire-Out is used to determine when an				
	outbound agent	is to be acquired by	the Avaya CTIDia	aler to handle outbo	ound calls.	
	Similarly, Diale	r Inbound is used t	o route inbound ca	alls to the extension	s on Avaya	
	Communication	Manager in PAB ca	ampaign.		-	
			Dialer	Dialer Inbound		
			Acquire-Out			
		VDN	54401	54402		
		Vector	401	402		
		Skill Ext/ Hunt	50401/401	50402/402		
		group				
		Phantom	22516-22520			
		Stations				
		Agent Login	25020-25024			

2.	Enter add hunt-group <i>n</i> command, where <i>n</i> is an unused hunt group number and				
	configure as follows:				
	• Group Name – Set to any descriptive name.				
	• Group Extension – Set to a valid extension provisioned in the dial plan.				
	• $ACD - Set to y.$				
	• Queue – Set to y.				
	• Vector – Set to y.				
	add hunt-group 401 Page 1 of 3				
	HUNT GROUP Group Number: 401 ACD? y				
	Group Name: Dialer Acquire-Out Queue? y				
	Group Extension: 50401 Vector? y				
	Group Type: ucd-mia TN: 1				
	COR: 1 MM Early Answer? n				
	Security Code: Local Agent Preference? n ISDN/SIP Caller Display:				
	ISDN/SIF Callel Display.				
	On Page 2 of the HUNT GROUP form, set the Skill field to y as shown below.				
	add hunt-group 401 Page 2 of 3				
	HUNT GROUP				
	Skill? y				
	AAS? n				
	AAS? n Measured: none				
	AAS? n				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none				
3.	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound .				
3.	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound . Enter change vector <i>n</i> command, where <i>n</i> is associated to hunt group 401 . Enter the				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound .				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound . Enter change vector <i>n</i> command, where <i>n</i> is associated to hunt group 401 . Enter the commands to queue to skill 401 as shown below.				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound . Enter change vector <i>n</i> command, where <i>n</i> is associated to hunt group 401 . Enter the				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound . Enter change vector <i>n</i> command, where <i>n</i> is associated to hunt group 401 . Enter the commands to queue to skill 401 as shown below. Change vector 401 CALL VECTOR Number: 401 Name: Dialer Acquire-Out				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound . Enter change vector <i>n</i> command, where <i>n</i> is associated to hunt group 401 . Enter the commands to queue to skill 401 as shown below. Change vector 401 Page 1 of 3 CALL VECTOR Number: 401 Name: Dialer Acquire-Out Attendant Vectoring? n Meet-me Conf? n Lock? n				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound . Enter change vector <i>n</i> command, where <i>n</i> is associated to hunt group 401 . Enter the commands to queue to skill 401 as shown below. Change vector 401 CALL VECTOR Number: 401 Name: Dialer Acquire-Out				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound . Enter change vector <i>n</i> command, where <i>n</i> is associated to hunt group 401 . Enter the commands to queue to skill 401 as shown below. Change vector 401 Page 1 of 3 CALL VECTOR Number: 401 Name: Dialer Acquire-Out Attendant Vectoring? n Meet-me Conf? n Lock? n Basic? y EAS? y G3V4 Enhanced? n ANI/II-Digits? n ASAI Routing? y Prompting? y LAI? n G3V4 Adv Route? n CINFO? n BSR? n Holidays? n Variables? n 3.0 Enhanced? n				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound . Enter change vector <i>n</i> command, where <i>n</i> is associated to hunt group 401 . Enter the commands to queue to skill 401 as shown below. Change vector 401 CALL VECTOR Number: 401 Name: Dialer Acquire-Out Attendant Vectoring? n Meet-me Conf? n Lock? n Basic? y EAS? y G3V4 Enhanced? n ANI/II-Digits? n ASAI Routing? y Prompting? y LAI? n G3V4 Adv Route? n CINFO? n BSR? n Holidays? n Variables? n 3.0 Enhanced? n 01 queue-to skill 401 pri h				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound . Enter change vector <i>n</i> command, where <i>n</i> is associated to hunt group 401 . Enter the commands to queue to skill 401 as shown below. Change vector 401 Page 1 of 3 CALL VECTOR Number: 401 Name: Dialer Acquire-Out Attendant Vectoring? n Meet-me Conf? n Lock? n Basic? y EAS? y G3V4 Enhanced? n ANI/II-Digits? n ASAI Routing? y Prompting? y LAI? n G3V4 Adv Route? n CINFO? n BSR? n Holidays? n Variables? n 3.0 Enhanced? n				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound . Enter change vector <i>n</i> command, where <i>n</i> is associated to hunt group 401 . Enter the commands to queue to skill 401 as shown below. Change vector 401 Page 1 of 3 CALL VECTOR Number: 401 Name: Dialer Acquire-Out Attendant Vectoring? n Meet-me Conf? n Lock? n Basic? y EAS? y G3V4 Enhanced? n ANI/II-Digits? n ASAI Routing? y Prompting? y LAI? n G3V4 Adv Route? n CINFO? n BSR? n Holidays? n Variables? n 3.0 Enhanced? n 01 queue-to skill 401 pri h 02 wait-time 60 secs hearing ringback				
	AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none Repeat the above step to create a hunt group with hunt-group extension 50402 for Dialer Inbound . Enter change vector <i>n</i> command, where <i>n</i> is associated to hunt group 401 . Enter the commands to queue to skill 401 as shown below. Change vector 401 Page 1 of 3 CALL VECTOR Number: 401 Name: Dialer Acquire-Out Attendant Vectoring? n Meet-me Conf? n Lock? n Basic? y EAS? y G3V4 Enhanced? n ANI/II-Digits? n ASAI Routing? y Prompting? y LAI? n G3V4 Adv Route? n CINFO? n BSR? n Holidays? n Variables? n 3.0 Enhanced? n Ol queue-to skill 401 pri h O2 wait-time 60 secs hearing ringback O3				

		ter a descriptive name mber – Set to the vector con	figured in Step 4
	Note: This VDN is	s also configured on Avaya C	TIDialer and passed to Avaya
		lanager to make outbound ca	* *
	add vdn 5440	VECTOR DIF Extension Name Vector Number Attendant Vectoring Meet-me Conferencing Allow VDN Override COF	e: Dialer Acquire-Out e: 401 f? N f? N f? N f? N f? N f? 1 f: 1 f: none f: 1 f: none
 7. Repeat the above step for the VDN 54402 pointing to Skill 402 for Dialer Inbound 8. Enter change announcement n command, where n is an announcement number. Configure four announcements for the messages that will used by CTIDialer to play the agent's telephone. In the sample configuration, announcement numbers 6 throug were used with extensions 20206, 20207, 20208, and 20209. The following four messages in the table below should be administered and recorded. 			ting to Skill 402 for Dialer Inbound .
8.	Configure four and the agent's telepho were used with ext messages in the tal	nouncements for the message one. In the sample configurati tensions 20206, 20207, 2020 ble below should be administ	s that will used by CTIDialer to play on on, announcement numbers 6 through 9 8, and 20209. The following four ered and recorded.
8.	Configure four and the agent's telepho were used with ext messages in the tal Announcement	nouncements for the message one. In the sample configurati tensions 20206, 20207, 2020	s that will used by CTIDialer to play on on, announcement numbers 6 through 9 8, and 20209. The following four
8.	Configure four and the agent's telepho were used with ext messages in the tal Announcement Extension	nouncements for the message one. In the sample configuration tensions 20206, 20207, 2020 ble below should be administ Message Type	s that will used by CTIDialer to play on on, announcement numbers 6 through 9 8, and 20209. The following four ered and recorded. Recorded Message
8.	Configure four and the agent's telepho were used with ext messages in the tal Announcement Extension 20206	nouncements for the message one. In the sample configurati tensions 20206, 20207, 20203 ble below should be administMessage TypeGreeting	s that will used by CTIDialer to play on on, announcement numbers 6 through 9 8, and 20209. The following four ered and recorded. Recorded Message "Welcome to Proactive Contact"
8.	Configure four and the agent's telepho were used with ext messages in the tal Announcement Extension	nouncements for the message one. In the sample configuration tensions 20206, 20207, 2020 ble below should be administ Message Type	s that will used by CTIDialer to play on on, announcement numbers 6 through 9 8, and 20209. The following four ered and recorded. Recorded Message
8.	Configure four and the agent's telepho were used with ext messages in the tal Announcement Extension 20206 20207	nouncements for the message one. In the sample configurati tensions 20206, 20207, 20203 ble below should be administMessage TypeGreetingInbound	s that will used by CTIDialer to play on on, announcement numbers 6 through 9 8, and 20209. The following four ered and recorded.
8.	Configure four and the agent's telepho were used with ext messages in the tal Announcement Extension 20206 20207 20208 20209	mouncements for the message one. In the sample configuration tensions 20206, 20207, 2020 ble below should be administ Message Type Greeting Inbound Outbound Not Logged In	s that will used by CTIDialer to play on on, announcement numbers 6 through 9 8, and 20209. The following four ered and recorded. Recorded Message "Welcome to Proactive Contact" "You are now in inbound mode" "You are now in outbound mode" "You are not logged in"
8.	Configure four and the agent's telepho were used with ext messages in the tal Announcement Extension 20206 20207 20208 20209 change announceme	mouncements for the message one. In the sample configuration tensions 20206, 20207, 2020 ble below should be administ Message Type Greeting Inbound Outbound Not Logged In	s that will used by CTIDialer to play on on, announcement numbers 6 through 9 8, and 20209. The following four ered and recorded.
8.	Configure four and the agent's telepho were used with ext messages in the tal Announcement Extension 20206 20207 20208 20209	nouncements for the message one. In the sample configuration tensions 20206, 20207, 20203 ble below should be administed Message Type Greeting Inbound Outbound Not Logged In	s that will used by CTIDialer to play on on, announcement numbers 6 through 9 8, and 20209. The following four ered and recorded.
8.	Configure four and the agent's telepho were used with ext messages in the tal Announcement Extension 20206 20207 20208 20209 Change announceme Ann. No. Ext. Typ 5 20205 int	mouncements for the message one. In the sample configuration tensions 20206, 20207, 20203 ble below should be administed Message Type Greeting Inbound Outbound Not Logged In	s that will used by CTIDialer to play on on, announcement numbers 6 through 9 8, and 20209. The following four ered and recorded.
8.	Configure four and the agent's telepho were used with ext messages in the tal Announcement Extension 20206 20207 20208 20209 Change announceme Ann. No. Ext. Typ 5 20205 int 6 20206 int	nouncements for the message one. In the sample configuration tensions 20206, 20207, 20203 ble below should be administed Message Type Greeting Inbound Outbound Not Logged In	s that will used by CTIDialer to play on on, announcement numbers 6 through 9 8, and 20209. The following four ered and recorded.
8.	Configure four and the agent's telepho were used with ext messages in the tal Announcement Extension 20206 20207 20208 20209 Change announceme Ann. No. Ext. Typ 5 20205 int 6 20206 int 7 20207 int 8 20208 int	nouncements for the message one. In the sample configuration tensions 20206, 20207, 20203 ble below should be administed Message Type Greeting Inbound Outbound Not Logged In ents 5 ANNOUNCEMENTS/AUX De COR TN Name tegrated 1 1 annouce05 tegrated 1 1 annouce06	s that will used by CTIDialer to play on on, announcement numbers 6 through 9 8, and 20209. The following four ered and recorded.

9.	Phantom Stations are used for PAB campaigns to put the agents in aux-work mode when switching from inbound to outbound mode. Enter add station n command, where n is a valid extension to configure the phantom stations.				
	• Type – Set to CTI .				
	• Name – Enter any descriptive name				
	add station 22516	Page	l of 4		
		STATION			
	Extension: 22516 Type: CTI	Lock Messages? n Security Code:	BCC: 0 TN: 1		
	Port: X	Coverage Path 1:	COR: 1		
	Name: Phantom1 for CTIDialer	Coverage Path 2:	COS: 1		
		Hunt-to Station:			
10.	Repeat the above step to configure addition	al Phantom Stations.			
11.	Enter the change reason-code-names cort Code 1 to Outbound Work . The reason for outbound calls and put into the aux-wo	code will be used when the ag			
	change reason-code-names				
	REASON	CODE NAMES			
	Aux Work	Logout			
	Reason Code 1: Outbound Work Reason Code 2:				
	Reason Code 3:				
	Reason Code 4:				
	Reason Code 5:				
1					

12.	Enter the add agent-loginID n	command, where	<i>n</i> is valid extension as per	the dial plan
	and configure as follows:			
	• Name - Enter any descri	iptive name.		
	• Auto Answer - Set to al	11.		
	add agent-loginID 25020		Page	1 of 2
		AGENT LOG	INID	
	Login ID: 25			AS? n
	Name: Ag	gent1		IX? n
	TN: 1		LWC Recepti	-
	COR: 1		LWC Log External Cal	
	Coverage Path: Security Code:		AUDIX Name for Messagi	ng:
	Security code:		LoginID for ISDN Displ	av? n
			Passwo	
			Password (enter agai	n):
			Auto Answ	er: all
			MIA Across Skil	ls: system
			ACW Agent Considered Id	le: system
			Aux Work Reason Code Ty	pe: system
			Logout Reason Code Ty	pe: system
	Maxin	mum time agent :	in ACW before logout (se	c): system
	On Page 2 of the AGENT LOG Number) field and level in the S below.		ield assigned to this agent	login as shown
	change agent-loginID 25020		Page 2 o	£ 2
	Direct Agent Skill:	AGENT LOGINID		
	Call Handling Preference: skill	l-level	Local Call Preference?	n
	SN SL SN	SL SN	SL SN SL	
	1: 401 1 16:	31:	46:	
	2: 402 2 17:	32:	47:	
	3: 18: 4: 19:	33: 34:	48: 49:	
13.	Repeat the above step to configu			

• auto-in – agent goes t	ogged on to the phone fo o auto-in to accept inbound agent is in wrap up state a	r outbound cal nd calls.	ls.		
change station 22720			Page	3 of	4
	STATION				
SITE DATA					
Room:		Heads	set? n		
Jack:		Speal	ker? n		
Cable:		Mount	ing: d		
Floor:		Cord Leng	gth: 0		
Building:		Set Co	lor:		
ABBREVIATED DIALING					
List1:	List2:	List	:3:		
BUTTON ASSIGNMENTS					
1: call-appr	5: aux-	work RC:	Grp:		
2: call-appr	6: auto	-in	Grp:		
3: call-appr	7: afte		Grp:		
			015		

3.4. Configure Service Observing

Impact360 CP uses Avaya Communication Manager Service Observing feature to record calls on agent telephones. Implementation of the required Service Observing feature on Avaya Communication Manager can be achieved using the following steps.

Step	Description				
1.	Enter change system-parameters customer-options and configure as follows:				
	• Service Observing (Basic) – Set to y.				
	• Service Observing (Remote/By FAC) – Set to y.				
	Note: A license is required to activate these features change system-parameters customer-options Page 6 of 11				
	CALL CENTER OPTIONAL FEATURES				
	Call Center Release: 12.0				
	ACD? y PASTE (Display PBX Data on Phone)? y				
	BCMS (Basic)? y Reason Codes? y				
	BCMS/VuStats Service Level? y Service Level Maximizer? n				
	BSR Local Treatment for IP & ISDN? n Service Observing (Basic)? y				
	Business Advocate? n Service Observing (Remote/By FAC)? y				
	Call Work Codes? y Service Observing (VDNs)? y				
	DTMF Feedback Signals For VRU? n Timed ACW? y				
	Dynamic Advocate? n Vectoring (Basic)? y				
	Expert Agent Selection (EAS)? y Vectoring (Prompting)? y				
	EAS-PHD? y Vectoring (G3V4 Enhanced)? y				
	Forced ACD Calls? n Vectoring (ANI/II-Digits Routing)? y				
	Least Occupied Agent? n Vectoring (G3V4 Advanced Routing)? y				
	Lookahead Interflow (LAI)? y Vectoring (CINFO)? y				
	Multiple Call Handling (On Request)? y Vectoring (Best Service Routing)? n				
	Multiple Call Handling (Forced)? y Vectoring (Holidays)? n				
	Vectoring (Variables)? n				
	(NOTE: You must logoff & login to effect the permission changes.)				
2.	Enter change feature-access-codes and set Service Observing No Talk Access Code to				
	*07.				
	change feature-access-codes Page 5 of 8				
	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:				
	Nemese Legoue of figure neeess code.				
L					

3.5. Configure CMAPI stations for Impact360 Compliance Package

CMAPI stations on Avaya Communication Manager are required to record telephone calls by Impact360 CP. CMAPI stations are configured as follows:

Step	Description									
1.	Enter change cor 5 and configure as follows:									
	• COR Description – Enter any descriptive string value.									
	• Can Be a Service Observer – Set to y.									
	change cor 5 Page 1 of 4 CLASS OF RESTRICTION									
	CLASS OF RESTRICTION									
	COR Number: 5									
	COR Description: Impact360 Server									
	FRL: 7 APLT? y									
	Can Be Service Observed? n Calling Party Restriction: none Can Be A Service Observer? y Called 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? n									
	Restriction Override: all Facility Access Trunk Test? n									
	Restricted Call List? y Can Change Coverage? n									
	Access to MCT? y Fully Restricted Service? n									
	Group II Category For MFC: 7 Send ANI for MFE? n Add/Remove Agent Skills? 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 Picked Up By Directed Call Pickup? n									
	Can Use Directed Call Pickup? n Group Controlled Restriction: inactive									
2.	Enter add station <i><</i> s <i>></i> , where s is an unused extension and configure as follows:									
2.	 Type – Set to 4610. 									
	• Name – Set to any descriptive string value.									
	• COR – Set to the class of restriction configured in Step 1 .									
	STATION									
	Extension: 23301 Lock Messages? n BCC: 0									
	Type: 4610 Security Code: ***** TN: 1									
	Port: IPCoverage Path 1:COR: 5Name: CMAPI Recording line 1Coverage Path 2:COS: 1									
	Hunt-to Station:									
	STATION OPTIONS									
	Time of Day Lock Table: Loss Group: 19 Personalized Ringing Pattern: 1									
	Message Lamp Ext: 23301									
	Speakerphone: 2-way Mute Button Enabled? y									
	Display Language: english Survivable GK Node Name:									
	Survivable GK Node Name. Survivable COR: internal Media Complex Ext:									
	Survivable Trunk Dest? y IP SoftPhone? y									
	IP Video Softphone? n									

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tep	Description			
•	Go to Page 4 of the STA ASSIGNMENTS .	ATION form and add s	erv-obsrv in the BUTT	ON
	add station 23301		Page 4 or	E 6
		STATION		
	SITE DATA			
	Room:		Headset? n	
	Jack:		Speaker? n	
	Cable:		Mounting: d	
	Floor:		Cord Length: 0	
	Building:		Set Color:	
	ABBREVIATED DIALING			
	List1:	List2:	List3:	
	BUTTON ASSIGNMENTS			
	1: call-appr	7:		
	2: call-appr	8:		
	3: call-appr	9:		
	4: conf-dsp	10:		
	5: serv-obsrv	11:		
	6: no-hld-cnf	12:		

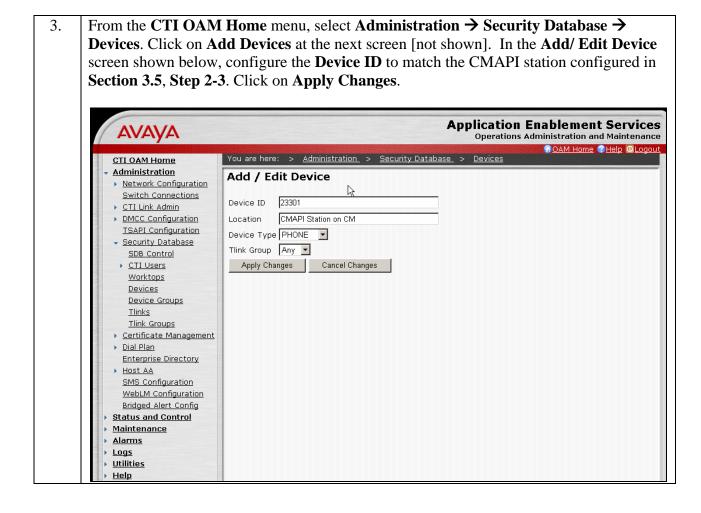
4. Configure Avaya Proactive Contact

These Application Notes assume that the interfaces between the Avaya Proactive Contact, Avaya S8700 Media Server and Avaya AES have been configured and are operational, and that a calling list has been successfully configured on Avaya CTIDialer. Avaya CTIDialer uses a TSAPI link to Avaya AES to monitor the inbound calls coming into Avaya Communication Manager.

5. Configure Avaya Application Enablement Services Server

This section provides the procedures for configuring Avaya Application Enablement Services. Basic configuration related to the switch connection between Avaya Communication Manager and Avaya Application Enablement Services is assumed. Configuration in the following sections is only for the fields where a value needs to be entered or modified. Default values are used for all other fields.

Step	Description										
1.	Launch a web brow	vser, enter https:/	// <ip address<="" th=""><th>s of AES server>:</th><th>8443/MVAP in the</th></ip>	s of AES server>:	8443/MVAP in the						
	URL, and log in with the appropriate credentials for accessing the AES CTI OAM pages.										
2.	From the OAM Home menu, select CTI OAM Home and verify that the CMAPI service										
Ζ.				•							
	is licensed as show	II below under th			11.						
	Αναγα				on Enablement Services ons Administration and Maintenance						
	CTI OAM Home	You are here: > <u>CTI</u>	OAM Home		OAM Home CHelp OLogout						
	Administration	Welcome to CTI	OAM Screen	5							
	Status and Control Maintenance										
	Alarms Logs	[craft] Last login: Fri N	ov 21 08:24:13 200	8 from 192.45.100.230							
	 ▶ <u>Utilities</u> ▶ <u>Help</u> 	d for administrative changes t equire 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	OFFLINE	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 S	itatus and Control.							
		License Information									
		You are licensed to rur	Application Enabler	nent (CTI) version 4.2.							



4.	From the User Man	agement Home Menu, navigate t	to User Management->Add User
	and configure as fol	lows:	
	• User Id	- Set to any descriptive value.	
		n Name – Set to any descriptive v	alue.
		e - Set to any descriptive value.	
		• •	
		sword – Set to a valid password.	
		Password – Set to the same value	e in User Password field.
	Click Ap	oply.	
	Αναγα		Application Enablement Services
	User Management Home	You are here: > <u>User Management</u> > <u>Add User</u>	
	 <u>User Management</u> List All Users 	Add User	
	Add User	Fields marked with * can not be empty.	
	Search Users Modify Default User	* User Id cmapi	
	Change User Password	* Common Name cmapi	
	Service Management Help	* Surname [cmapi	
	, <u>ricip</u>	* User Password	
		* Confirm Password	
		Admin Note	
		Avaya Role None	
		Business Category	
		Car License	
		CM Home	
		Css Home	

6. Configure Impact 360 Compliance Package Server

The following steps describe the configuration to integrate Impact360 CP with Avaya Proactive Contact Avaya CTIDialer.

6.1. Impact 360 Compliance Package Server System Administration

The steps in this section describe the system configuration of Impact360 CP.

Step	Description
1.	Launch a web browser, enter http:// <ip address="" contact="" of="" server="" store="">:8080/ in the URL.</ip>
2.	Login into Impact360 CP using proper credentials.
	VERINT IMPACT360
	ContactStore
	for Communication Manager
	VERINT Witness Actionable Solutions
	© 2007 Verint Systems Inc. All Rights Reserved Worldwide. Confidential and Proprietary Information of Verint Systems Inc. The Verint Systems Inc. products are protected by one or more of the following U.S. European or International Patents: USPN 5,659,768; USPN 5,790,798; USPN 6,2728,978; USPN 6,270,574; USPN 6,640,857; USPN 6,724,887; USPN 6,712,203; USPN 6,952,093; USPN 6,952,723; USPN 6,959,405; USPN 7,742,296; USPN 7,149,768; USPN 7,149,769; USPN 7,149,769; USPN 7,216,162; European Patent 0 833 489; GB 2374249; and other provisional rights from one or more of the following Published US Patent Applications: US 10/061,469; US 10/061,469; US 11/368,654; US 11/388,654; US 11/369,471; US 11/369,471; US 11/168,77; US 10/161,4630; US 11/129,811; US 11/477,124; US 11/609,553; US 11/569,554; US 11/569,554; US 11/569,554; US 11/569,551; US 11/569,369; US 11/359,369; US
	11/540,900; US 10/610,780; US 10/632,509; US 11/608,340; US 11/608,350; US 11/608,358; US 10/771,315; US 10/771,409. Other U.S. and International Patents Pending. VERINT, the VERINT logo, ACTIONABLE INTELLIGENCE, POWERING ACTIONABLE INTELLIGENCE, STAR-GATE, RELIANT, VANTAGE, X-TRACT, NEXTWA, JULTRA, AUDIOLOG, WITNESS, the WITNESS logo, IMPACT 360, the IMPACT 360 logo, IMPROVE EVERYTHING, EQUALITY, CONTACTSTORE, and CLICK2STAFF are trademarks or registered trademarks of Verint Systems Inc. or its subaidiaries. Avaya, the Avaya logo and Communication Manager are the trademarks (registered or otherwise) of Avaya Inc. Other trademarks methioned are the property of their respective owners.
	Login Information
	Username admin
	Password *****
	OK RESET

Step	Description
3.	Following screen is displayed after logging on to the system.
	ContactStore for Communication Manager powered by AVAVA
	Replay System Administration
	Search and Replay Use the links at the left to access the various areas of the system administration suite. Administration
	System Settings License Server
	Communication Manager Security Users Port Allocations On Demand Meeting Station Bulk
	Station Executive Conferenced Quality Unify/External Phone Replay Live Monitor Status Alarms and Events System Overview Port States Peak Activity Audit Trail
4.	Select Server tab on the System Administration screen at Step 3 to configure the URL(s) of Unify/External Control port(s) to connect to field. The port number should match the value of CSCMRecorder.Port, configured in Section 6.2 .
	URL(s) of Unify/External control port(s) to connect to Enter the node and port number(s) of the Unify or external server(s) that this recorder provides recording services to. Separate entries with a semi-colon. For example, unify.bigco.com:1414;myapp.bigco.com:1414 Close Window, Enter

tep	Description									
•	Select Commu	inication Manager tab on the System Administration	n screen at Step							
		s screen and verify the following:	····· ·							
	 Default Avaya Communication Manager Name – Set to host name for 									
			lost name for							
	Avaya	Avaya Communication Manager.								
	AE Ser	ver Address (es) – Set to the IP address of the Avay	a AES server.							
		Username – Set to the User Id field value configur								
	Step 4.	osername set to the oser ru nera value configur	cu in section s,							
	-									
	DMCC	Password – Set to the User Password field value c	onfigured in							
	Section	1 5, Step 4.								
	IP Stat	ion Security Code – Set to the Security Code field	value in Section							
	3.5, Ste									
		-								
		Observe Feature Access Code – Set to the field value								
	Observ	ving No Talk Access Code field in Section 3.4, Step	2.							
	Ports/Pe	ort range specified in the screen should match the CM	API stations							
		0								
	defined in Section 3.5, Step 2-3. In this example, Port range specified is									
		3301 to 23304 .								
		3301 to 23304 .								
		3301 to 23304 .								
	from 23	a								
	from 23	e								
	from 23	ε τ _{ον} αναγά								
	from 23	e								
	from 23	ε τ _{ον} αναγά								
	from 23	e Iby AVAVA Communication Manager Settings	Setting							
	from 23	E Tay AVAYA Communication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager	Setting devcon27							
	from 23	P AVAYA Communication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP	devcon27 192.45.30.25							
	from 23	Per AVAYA Communication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es)	devcon27 192.45.30.25 192.45.95.98							
	from 23	Computing AVAVA Computing the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username	devcon27 192.45.30.25 192.45.95.98 cmapi							
	from 23	Computing AVAVA Computing the new the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Variante DMCC Password	devcon27 192.45.30.25 192.45.95.98 cmapi *****							
	from 23	P ty AVAVA Communication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Password Encrypt Media Streams	devcon27 192.45.30.25 192.45.95.98 cmapi ***** No							
	from 23	P NY AVAVA Communication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Password Encrypt Media Streams IP Station Security Code	devcon27 192.45.30.25 192.45.95.98 cmapi ***** No *****							
	from 23	Prov AVAVA Communication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Username DMCC Password Encrypt Media Streams IP Station Security Code Avaya CT Server(s)	devcon27 192.45.30.25 192.45.95.98 cmapi ***** No ***** Not defined							
	from 23	Per AVAYA Communication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Username DMCC Vassword Encrypt Media Streams IP Station Security Code Avaya CT Server(s) Avaya CT Service Identifier(s)	devcon27 192.45.30.25 192.45.95.98 cmapi ***** No ***** Not defined Not defined							
	from 23	Per AVAYA Communication Manager Settings These settings determine how the recorder contacts and Interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Password Encrypt Media Streams IP Station Security Code Avaya CT Service Identifier(s) Avaya CT Service Login ID	devcon27 192.45.30.25 192.45.95.98 cmapi ****** No ****** Not defined Not defined Not defined							
	from 23	Explore Explore Computication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Password Encrypt Media Streams IP Station Security Code Avaya CT Service Identifier(s) Avaya CT Service Login ID Avaya CT Service password	devcon27 192.45.30.25 192.45.95.98 cmapi ***** No ***** Not defined Not defined Not defined Not defined							
	from 23	P They AVAVA Computinication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Password Encrypt Media Streams IP Station Security Code Avaya CT Service Identifier(s) Avaya CT Service Login ID Avaya CT Service password Service Observe Feature Access Code	devcon27 192.45.30.25 192.45.95.98 cmapi ***** No ***** Not defined Not defined Not defined Not defined *07							
	from 23	P AVAVA Communication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Usermame DMCC Password Encrypt Media Streams IP Station Security Code Avaya CT Service Identifier(s) Avaya CT Service Login ID Avaya CT Service password Service Observe Feature Access Code Extensions assigned to recorder	devcon27 192.45.30.25 192.45.95.98 cmapi ***** No ***** Not defined Not defined Not defined Not defined Not defined *07 4							
	from 23	P They AVAVA Computinication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Password Encrypt Media Streams IP Station Security Code Avaya CT Service Identifier(s) Avaya CT Service Login ID Avaya CT Service password Service Observe Feature Access Code	devcon27 192.45.30.25 192.45.95.98 cmapi ****** No ****** Not defined Not defined Not defined Not defined *07							
	from 23	Prov AVAVA Computing and the recorder contacts and interacts with your Avaya Communication Manager These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Them Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Password Encrypt Media Streams IP Station Security Code Avaya CT Service Identifier(s) Avaya CT Service Login ID Avaya CT Service password Service Observe Feature Access Code Extensions assigned to recorder Unassigned Capacity The table below lists the range(s) of station numbers that the recorder will register its ports as. These must ma	devcon27 192.45.30.25 192.45.95.98 cmapi ***** No No ****** Not defined Not defined Not defined Not defined *07 4 158							
	from 23	Prov AVAVA Communication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Username DMCC Vaseword Encrypt Media Streams IP Station Security Code Avaya CT Server(s) Avaya CT Service Identifier(s) Avaya CT Service Identifier(s) Avaya CT Service Login ID Avaya CT Service Pastword Service Observe Feature Access Code Extensions assigned to recorder Unassigned Capacity The table below lists the range(s) of station numbers that the recorder will register its ports as. These must make a station for the service of the servic	devcon27 192.45.30.25 192.45.95.98 cmapi ***** No ***** Not defined Not defined Not defined Not defined Not defined Not defined Not defined 158 atch the station numbers you have							
	from 23	Pror AVAYA Communication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Vassword Encrypt Media Streams IP Station Security Code Avaya CT Service Identifier(s) Avaya CT Service Identifier(s) Avaya CT Service Identifier(s) Avaya CT Service Login ID Avaya CT Service password Service Observe Feature Access Code Extensions assigned to recorder Unassigned Capacity The table below lists the range(s) of station numbers that the recorder will register its ports as. These must me Avaya Communication Manager. No.	devcon27 192.45,30.25 192.45,95.98 cmapi ***** No ***** Not defined Not defined Not defined Not defined *07 4 158							
	from 23	Proc AVAyA Communication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Username DMCC Password Encrypt Media Streams IP Station Security Code Avaya CT Service Identifier(s) Avaya CT Service Login ID Avaya CT Service Login ID Avaya CT Service Dassword Service Observe Feature Access Code Extensions assigned to recorder Unassigned Capacity The table below lists the range(s) of station numbers that the recorder will register its ports as. These must maxaves Select Port(s) No. 23301-23304 4	devcon27 192.45.30.25 192.45.95.98 cmapi ***** No ***** Not defined Not defined Not defined Not defined Not defined Not defined Not defined 158 atch the station numbers you have							
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	from 23	Proc AVAyA Communication Manager Settings These settings determine how the recorder contacts and interacts with your Avaya Communication Manager Item Avaya Communication Manager Name IP address on this server to use for RTP AE Server Address(es) DMCC Username DMCC Username DMCC Password Encrypt Media Streams IP Station Security Code Avaya CT Service Identifier(s) Avaya CT Service Login ID Avaya CT Service Login ID Avaya CT Service Dassword Service Observe Feature Access Code Extensions assigned to recorder Unassigned Capacity The table below lists the range(s) of station numbers that the recorder will register its ports as. These must maxaves Select Port(s) No. 23301-23304 4	devcon27 192.45.30.25 192.45.95.98 cmapi ***** No ***** Not defined Not defined Not defined Not defined Not defined *07 4 158 atch the station numbers you have							

Step	Description											
6.	Select Station B	ulk tab on the System Adminis	stration screen at s	Step 3 to display								
	•											
	this screen and verify the following:											
	• Audio format – Set to G.729A.											
	• Record calls that do NOT have a VDN number? – Set to Yes.											
	 Filter calls by VDN and/or Skill Hunt Group? – Set to ALL Calls with a 											
	• Filter ca	lls by VDN and/or Skill Hunt (Group? – Set to A	LL Calls with								
	VDN.											
	• Station/S	tation range specified in the scre	een should match	ha Agant								
		e i		U								
	headset e	extensions to be recorded by Imp	pact360 CP. In this	s example,								
		ange specified is from 22720 to		-								
	Station											
	ContactStore	<u> </u>										
	ContactStore for Communication Manager											
	powered	by AVAVA										
	Replay	Station Bulk Recording										
	Search and Replay											
		The settings below summarize how ports using this mode are configured.										
	Administration	Recording Mode Setup Apply Beep Tone within recorder		Setting No								
	System Settings	Audio format		G.729A (8kbps)								
	<u>License</u>	Delete Recording by entering		Not defined								
	Server	Record calls that do NOT have a VDN number?	Yes									
	<u>Communication Manager</u>	Filter calls by VDN and/or Skill Hunt Group?		ALL Calls with a VDN								
	Security Users	Ports Configured		3								
	Port Allocations	Unassigned Capacity		97								
	On Demand	The stations listed below will have their calls recorded automatically	in accordance with the VDN/Skill rules se	above. DO NOT ENTER VDN, SKI								
	Meeting	only station numbers. Select Station(s)⊽▲	No.⊽∆	Detail⊽∆								
	Station Bulk		2	Detait								
	Station Executive	26614	1									
	Conferenced Quality	Add station range, Delete selected station range(s)	1									
	Unify/External											
	Phone Replay											
	Live Monitor											
	Status											
	Alarms and Events											
	Alarms and Events System Overview Port States											
	Alarms and Events System Overview											

6.2. Impact 360 Compliance Package PDS Connection Configuration

For Impact360 CP to work with the Avaya CTIDialer, the PDS Connector needs to be configured as follows:

- Login into the Impact360 CP Server as **witness**.
- Edit the /opt/witness/properties/pdscon.properties file to modify the following:
 - **PDS.UserName** User name created on the Avaya CTIDialer.
 - **PDS.Password** Password corresponding to the **Username**.
 - **PDS.DialerHost** Name of the Avaya CTIDialer. This name should be defined in /etc/hosts file.
 - **OAIAddress** IP address of Impact360 CP Server.
 - **PCS.Secure** Set to **true** for this compliance test.
 - **CSCMRecorder.Port** Set to the port no. of the URL in Section 6.1, Step 4.
 - Save the changes.
- Start/restart the PDS connector service by issuing the command service pdscon start.

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7. Interoperability Compliance Testing

This interoperability compliance test covers feature functionality, serviceability and basic load testing. Feature functionality focused on verifying that Impact360 CP could successfully record calls when using events from Avaya CTIDialer Event Service. Serviceability testing verified that the Impact360 CP server recovered from adverse conditions, such as rebooting, power failure and network disconnect. Basic load testing verified that Impact360 CP could successfully record calls for an extended period of time.

7.1. General Test Approach

Serviceability and basic functionality test cases were performed manually. During the manual tests, outbound calls were placed by Avaya CTIDialer and routed to an available agent. The agent accepted the call and the conversation between the customer and the agent was recorded. The recordings were viewed using Impact360 CP web interface. During the basic load testing, Avaya CTIDialer executed a calling list which delivered calls to the agents for sustained periods.

7.2. Test Results

Impact360 CP successfully recorded, stored and played back the calls between the agents and the customers. Impact360 CP was successfully able to record and correlate calls put on hold. For transfers and conferences, only first part of the call prior to completion of transfer is properly tagged. For serviceability testing, Impact360 CP was able to resume recording calls after restoration of connectivity to the Avaya CTIDialer, after network disconnect/re-connect, and after reset of Impact360 CP. For stability testing, Impact360 CP successfully recorded calls for a sustained period of time.

Following observations were made during testing:

- Impact360 CP is not able to connect back to the Avaya CTIDialer after the PDS connector on Impact360 CP is stopped and restarted.
- Agent needs to logoff and log back on after the Avaya CTIDialer restarts.

8. Verification

8.1. Connection between Avaya AES to Impact360 CP

On Avaya AES CTI OAM Home screen under Status and Control/Service Summary, verify the status of DMCC service. Connection to Contact Store application indicates that Avaya AES and Impact360 CP are communicating with each other.



Additionally, on Impact360 CP the system status should indicate that link to DMCC is active.

Replay	System Overvie	W ACTIVE **	* NOT VIA	BLE ***			
Search and Replay	The table below shows the cu	rrent state of this server.	Click the refresh lin	k to update th	e table.		
	Item				Valu	9	
Administration	Link to DMCC at 192.45.9	5.98			ACTI	/F	
System Settings	Link to Avaya CT/JTAPI a	t Not available			DOW	4	
<u>License</u>	Link to Unify/External Cor		-25		UP		
Server	Total call segments recor				977.0	08	
Communication Manager					1		
Security	(or since restart if today)	, ,					
<u>Users</u>	Date of oldest call held or	n disk			09/14	/08 05:26:31 AM	
Port Allocations							
On Demand	The table below shows how m			_			
Meeting	Mode	Faulty	Starting	Idle	Setup	Connected	Active
Station Bulk	Station Bulk	0	0	0	0	0	2 (100%)
Station Executive	Total	0	0	0	0	0	2 (100%
Conferenced							
Quality							
Unify/External							
Phone Replay							
Live Monitor							
Status							
Alarms and Events							
System Overview							
Port States							
Peak Activity							
Audit Trail							

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8.2. Port States

On the Impact360 CP Administration interface, click on **Port States** to make sure that the ports configured in **Section 6.1**, **Step 4** are recording the Agent extensions to be supervised as configured in **Section 6.1**, **Step 5**.

powered by AVAVA Port States										
Replay	Port S	States								
Search and Replay	The table i	below shows the st	ate of all ports at the	time the page w	as requested. Click the refresh li	nk above or below i	he table to unda			
Administration		seletti sheris the su		ante ale page n						
System Settings	Port⊽▲	Mode⊽∆	Controller⊽∆	Media⊽∆	Recording Enabled⊽△	State⊽∆	Recording			
License	23301	Station Bulk		No	Yes	Connected	22720			
Server	23302	Station Bulk		No	Yes	Connected	22721			
Communication Manager	23303	Station Bulk		Yes	Yes	Active	26614			
Security	<u>Reset All,</u>									
<u>Users</u>										
Port Allocations										
<u>On Demand</u>										
Meeting										
Station Bulk										
Station Executive										
Conferenced										
Quality										
Unify/External										
Phone Replay										
Live Monitor										
Status			R							
Alarms and Events										
System Overview										
Port States										
Peak Activity										
Audit_Trail										

8.3. PDS Connector Link

Login into the Impact360 CP Server as **witness** and verify in the /opt/witness/logs/pdscon.log file that there is an entry **PDS Connector – checkTimeout : connected to PDS true** indicating that the connectivity to the Avaya CTIDialer has been established.

8.4. Impact360 CP Recording Playback

Step	Description						
Ι.	-	e search crite		on interface [not shown], on a select the recording to be			
	ContactStore for Communication Manager powered by A	waya 🕨				Change Pass	bout vord gout
	Administration	Results				Select All Sele	ct Non
	Administer System	4 Call Start⊽▲ Len	⊽∆ Agent	t⊽∆ Parties⊽∆	Service⊽∆	Univ. Call IDV	
	Search Filters Call Start Range	O 09/26/08 02:25:36 PM 00:1	.0 N/A	22721 (Customer), 12025234567 (IP TRUNK TO DEVCON3)	54400 (PC4- Izpds4 Adjunct Link)	<u>2706224</u> <u>1222440008</u>	
	09/26/08 02:25:00 PM	O 09/26/08 02:25:52 PM 00:0	8 N/A	22720 (Shailja's station 22720), 1202523456 (IP TRUNK TO DEVCON3)	⁷ N/A	<u>2706224</u> <u>1222440008</u>	
	Parties	C 09/26/08 02:27:02 PM 00:0	3 N/A	22721 (Customer)	N/A	<u>2706229</u> 1222440108	
		O9/26/08 02:27:31 PM 00:0	17 N/A	22721, 12025234567 (IP TRUNK TO DEVCON 912025234567		<u>910033</u> 2718032722	
	Agent	02:27:44 PM	6 N/A	22720 (Shailja's station 22720), 1202523456 (IP TRUNK TO DEVCON3)	N/A	2706231 1222440122	
	Length	02:30:37 PM	.2 N/A	22721, 12025234567 (IP TRUNK TO DEVCON 912025234567		<u>910043</u> 2718032722	
	Service	O 09/26/08 02:30:55 PM 00:2		12025234567 (IP TRUNK TO DEVCON3), 227 (Shailja's station 2), 22721, 912025234567	115 (outbild)	<u>910043</u> 2718032722	
		© 09/26/08 02:30:55 PM 00:1	.7 N/A	12025234567 (IP TRUNK TO DEVCON3), 227 (Shailja's station 2), 22721 (Customer)	²⁰ N/A	2706236 1222440309	
	Universal Call ID						
	Call Set						
							
	SEARCH						

9. Support

For technical support on any Verint product, contact Customer Support at 1-631-962-9600.

10. Conclusion

These Application Notes describe the configuration steps required for Verint Impact 360 Compliance Package 7.8 to successfully interoperate with the Avaya CTIDialer. All feature functionality and serviceability test cases were completed successfully.

11. Additional References

The following documents may be found at <u>http://support.avaya.com</u>:

- [1] *Administrator Guide for Avaya Communication Manager*, Document ID 03-300509, Issue 4.0, February 2007
- [2] Implementing Proactive Contact 4.0, May, 2008
- [3] Administering Avaya Proactive Contact (Linux-based Interface), January 2008
- [4] Sample Avaya Proactive Contact 3.0 with CTI Installation and Configuration, Issue 1.0

Witness Documentation:

[5] Witness Contact Store 7.8 documentation can be accessed using online help

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