

Avaya Solution & Interoperability Test Lab

Application Notes for the Autonomy etalk Qfiniti QA Recording with Avaya Proactive Contact using Avaya PG230 Switch - Issue 1.0

Abstract

These Application Notes describe the configuration steps required for the Autonomy etalk Qfiniti QA Recording 3.5 to successfully interoperate with Avaya Proactive Contact 4.0 using Avaya PG230 Switch. Qfiniti QA is a recording solution which uses Avaya Proactive Contact Event Services and the Telephony Services API of Avaya Application Enablement Services to extract agent and call event information, and uses trunk side tapping to record 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 Avaya PG230 Switch (simply referred to as Avaya HardDialer in these Application Notes) and Autonomy etalk Qfiniti QA Recording 3.5 (simply referred to as Qfiniti in these Application Notes). Qfiniti delivers a recording solution that records all calls for compliance management, or selectively captures voice and desktop activity for quality assurance.

Qfiniti uses the Event Service of Avaya HardDialer and the Telephony Services API (TSAPI) of Avaya Application Enablement (AE) Services to receive events concerning particular stations, agents, and agent hunt/skill groups. Qfiniti uses these events as recording triggers. There are many methods that Qfiniti can use for call recording; in this compliance-tested configuration Qfiniti uses trunk side tapping to record calls. The Qfiniti server has an AiLogix Card that taps into a T1 interface between Avaya Communication Manager and Avaya HardDialer to record the audio. Qfiniti records calls between AgentOnCall and AgentNotReady events it receives from the Avaya HardDialer.

Figure 1 shows the configuration used for this compliance testing.

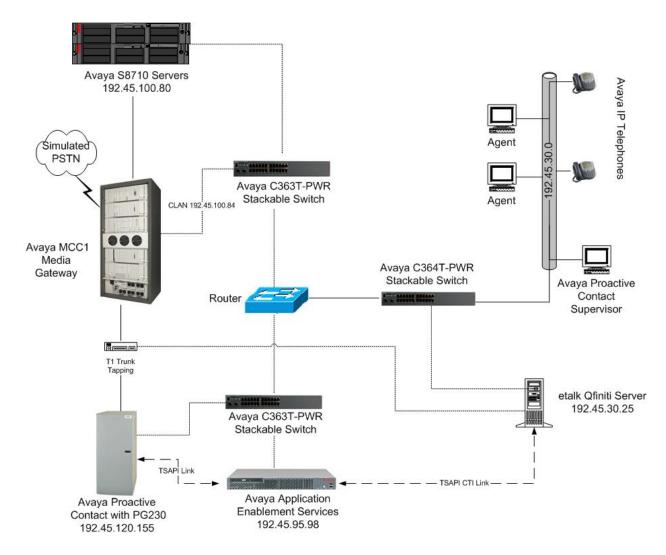


Figure 1: Avaya Proactive Contact, Avaya Communication Manager, Avaya Application Enablement Services and Autonomy etalk Qfiniti Server Configuration

2. Equipment and Software Validated

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

Equipment	Software
HP Proliant DL385G2 and PG230 Digital Switch	Avaya Proactive Contact 4.0.1 Build
	105
Avaya S8700 Media Server	Avaya Communication Manager 5.0
	(R015x.01.1.415.1)
Avaya MCC1 Media Gateway	
TN464 DS1 Interface	HW02, FW019
TN799DP C-LAN Interface	HW01 FW024
TN2302AP IP Media Processor	HW13 FW116
Avaya 4625SW IP Telephone (H323)	2.8.3
Avaya Application Enablement Services Server	4.2
Avaya C363T-PWR Converged Stackable Switch	4.5.14
Qfiniti Server with AiLogix Trunk Card	3.5 sp1 u4 with Quick update 25207

3. Configure Avaya Communication Manager

These Application Notes assume that Avaya Communication Manager is already configured and operational. This section provides the procedures for verifying and configuring Avaya Communication Manager. The following will be configured:

- Verify T1 Link Parameters for Trunk Tapping
- Configure Avaya Communication Manager for Predictive Agent Blending on Avaya HardDialer

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, 2, and 4] for additional details.

3.1. Verify T1 Link Parameters for Trunk Tapping

Step	Description			
1.	Enter the display ds1 xxxxx command, where xxxxx is the location of the DS1			
	circuit pack and verify the following:			
	• Name – Set to any descriptive string value.			
	• Bit Rate – Set to 1.544.			
	• Line Coding – set to ami-zcs.			
	• Framing Mode – set to d4.			
	• Signaling Mode – set to robbed-bit.			
	Gighaning Mode — Set to Tobbed-bit.			
	display dsl lal4			
	DS1 CIRCUIT PACK			
	Location: 01A14 Name: PDS 1-21-1			
	Bit Rate: 1.544 Line Coding: ami-zcs Line Compensation: 1 Framing Mode: d4			
	Signaling Mode: robbed-bit			
	Interface Companding: mulaw			
	Idle Code: 11111111			
	Slip Detection? n Near-end CSU Type: other			

3.2. Configure Avaya Communication Manager for Predictive Agent Blending

Avaya HardDialer via the CTI link monitors the activity on Avaya Communication Manager contact center devices 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.
        Use the display system-parameters customer-options command. On Page 3, verify that
        the Computer Telephony Adjunct Links option is set to v.
         display system-parameters customer-options
                                                                                        Page
                                                                                                 3 of 11
                                                  OPTIONAL FEATURES
              Abbreviated Dialing Enhanced List? n Audible Message Waiting? n
Access Security Gateway (ASG)? n Authorization Codes? n
                   Access Security Gateway (ASG)? n
                                                                          Authorization Codes? n
                   Analog Trunk Incoming Call ID? n Backup Cluster Automatic Takeover? n
          A/D Grp/Sys List Dialing Start at 01? n
                                                                                           CAS Branch? n
         Answer Supervision by Call Classifier? y
                                                                                              CAS Main? n
                                                     ARS? y
                                                                                  Change COR by FAC? n
                               ARS/AAR Partitioning? y Computer Telephony Adjunct Links? y
                      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
                                                   ATMS? n
                                                                                               DS1 MSP? n
                                Attendant Vectoring? n
                                                                             DS1 Echo Cancellation? n
2.
        On Page 6, verify that the ACD and Vectoring (Basic) fields are set to y.
         display system-parameters customer-options
                                                                                         Page
                                                                                                  6 of
                                                                                                         11
                                         CALL CENTER OPTIONAL FEATURES
                                           Call Center Release: 5.0
                                                                                         Reason Codes? n
                                               ACD? y
                                    BCMS (Basic)? n
                                                                          Service Level Maximizer? n
         BCMS (Basic)? n

BCMS/VuStats Service Level? n

BSR Local Treatment for IP & ISDN? n

Business Advocate? n

Service Observing (Remote/By FAC)? y

Business Advocate? n

Service Observing (VDNs)? y

Timed ACW2 n
             Business Advocate? n
Call Work Codes? n

DTMF Feedback Signals For VRU? n
Dynamic Advocate? n
Expert Agent Selection (EAS)? y
Expert Agent Selection (EAS)? y
Forced ACD Calls? n
Least Occupied Agent? n
Lookahead Interflow (LAI)? n

Timed ACW? n
Vectoring (Basic)? y
Vectoring (G3V4 Enhanced)? n
Vectoring (ANI/II-Digits Routing)? n
Vectoring (G3V4 Advanced Routing)? n
Vectoring (CINFO)? n
                   Lookahead Interflow (LAI)? n
                                                                                  Vectoring (CINFO)? n
         Multiple Call Handling (On Request)? n
                                                              Vectoring (Best Service Routing)? n
              Multiple Call Handling (Forced)? n
                                                                              Vectoring (Holidays)? n
            PASTE (Display PBX Data on Phone)? n
                                                                             Vectoring (Variables)? n
```

Step **Description** 3. Add a CTI link using the **add cti-link** *n* command, where *n* is an available CTI link number, and configure as follows: **Extension** – Set to an available extension as per the dial plan. **Type** – Set to **ADJ-IP** Name – Set to any descriptive string value. add cti-link 15 2 Page 1 of CTI LINK CTI Link: 15 Extension: 24998 Type: ADJ-IP COR: 1 Name: AES DEVCON2715 4. Enter the **add hunt-group** n command, where n is an unused hunt group number, and configure as follows: **Group Name** – Set to any descriptive string value. • **Group Extension** – Set to a valid extension provisioned in the dial plan. • ACD – Set to y. • Queue – Set to y. **Vector** – Set to **v**. add hunt-group 402 Page 1 of HUNT GROUP Group Number: 402 ACD? y Group Name: Dialer Inbound Queue? y Group Extension: 50402 Vector? y Group Type: ucd-mia TN: 1 COR: 1 MM Early Answer? n Security Code: Local Agent Preference? n ISDN/SIP Caller Display: On Page 2 of the HUNT GROUP form, set the Skill field to y as shown below. add hunt-group 402 Page 2 of HUNT GROUP Skill? y AAS? n Measured: none Supervisor Extension: Controlling Adjunct: none

Step **Description** 5. Enter the **change vector** n command, where n is the next available vector. Enter the commands to queue to the skill (hunt group) configured in the previous step. change vector 402 Page 1 of 3 CALL VECTOR Number: 402 Name: Dialer Inbound 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 4.0 Enhanced? n
01 queue-to skill 402 pri h
02 wait-time 60 secs hearing ringback 03 04 6. Enter the **add vdn** *n* command, where *n* is an unused VDN, and configure as follows: Name – Set to any descriptive string value. **Vector Number** – Set to the vector configured in the previous step. add vdn 54402 1 of Page VECTOR DIRECTORY NUMBER Extension: 54402 Name: Dialer Inbound Vector Number: 402 Attendant Vectoring? N Meet-me Conferencing? N Allow VDN Override? N COR: 1 TN: 1 Measured: none 1st Skill: 2nd Skill: 3rd Skill:

Step | Description

- 7. Enter the **add agent-loginID** *n* command, where *n* is a valid extension as per the dial plan, and configure as follows:
 - Name Set to any descriptive string value.
 - Auto Answer Set to all.
 - Repeat this step to configure additional agent login IDs.

```
add agent-loginID 25020
                                                                    1 of
                                                                           2
                                                             Page
                                 AGENT LOGINID
               Login ID: 25020
                                                                AAS? n
                   Name: Agent1
                                                               AUDIX? n
                     TN: 1
                                                       LWC Reception: spe
                    COR: 1
                                            LWC Log External Calls? n
                                           AUDIX Name for Messaging:
          Coverage Path:
          Security Code:
                                            LoginID for ISDN Display? n
                                                            Password:
                                              Password (enter again):
                                                        Auto Answer: all
                                                   MIA Across Skills: system
                                           ACW Agent Considered Idle: system
                                           Aux Work Reason Code Type: system
                                             Logout Reason Code Type: system
                       Maximum time agent in ACW before logout (sec): system
```

On **Page 2** of the **AGENT LOGINID** form, specify the list of skills in the **SN** (Skill Number) field and level in the **SL** (Skill Level) field assigned to this agent login ID as shown below.

```
change agent-loginID 25020
                                                             Page 2 of
                               AGENT LOGINID
     Direct Agent Skill:
Call Handling Preference: skill-level
                                                 Local Call Preference? n
  SN
        SL
                    SN SL
                                         SN
                                                           SN
                  16:
                                                         46:
1: 402
                                      31:
           2
2:
                   17:
                                      32:
                                                         47:
                  18:
                                      33:
                                                         48:
3:
 4:
                   19:
                                      34:
                                                         49:
```

Step	Description					
8.	Enter the change station n where n is an already configured agent phone/headset extension					
	used by Avava HardDialer. O	n Page 3 , configure the following button assignments:				
	1					
	unit work agent is rogged on to the phone for outcound cans.					
	 auto-in – agent goes to auto-in to accept inbound calls. after-call –when the agent is in wrap up state after the call has ended. 					
	• release – to drop the	rall				
	<u> </u>					
	Repeat this step to con	nfigure additional agent phone/headset extensions.				
	change station 22720	Page 3 of	4			
		STATION				
	SITE DATA					
	Room:	Headset? n				
	Jack:	Speaker? n				
	Cable:	Mounting: d				
	Floor:	Cord Length: 0				
	Building:	Set Color:				
	Bulluling.					
	ABBREVIATED DIALING					
		List2: List3:				
	ABBREVIATED DIALING					
	ABBREVIATED DIALING List1:					
	ABBREVIATED DIALING List1: BUTTON ASSIGNMENTS	List2: List3:				
	ABBREVIATED DIALING List1: BUTTON ASSIGNMENTS 1: call-appr	List2: List3: 5: aux-work RC: Grp:				

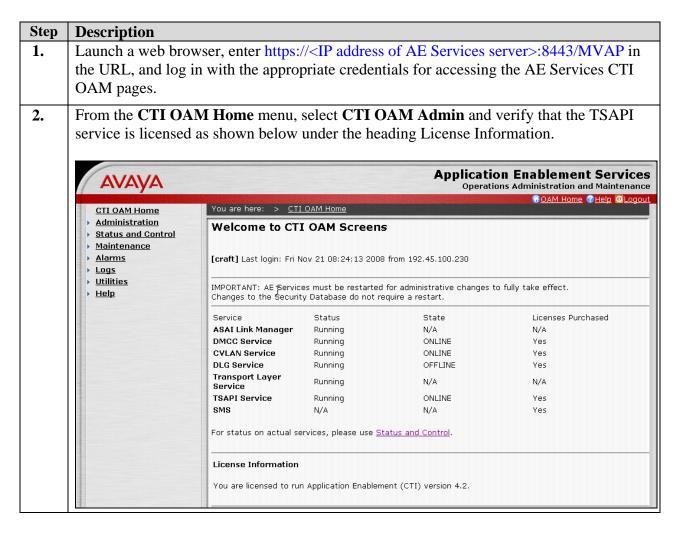
4. Configure Avaya Proactive Contact

These Application Notes assume that the interfaces between Avaya Proactive Contact, Avaya S8710 Servers and Avaya AE Services have been configured and are operational, and that a calling list has been successfully downloaded to the Avaya HardDialer. The following configuration was verified on Avaya HardDialer. Refer to [2, 3, and 4] for additional details.

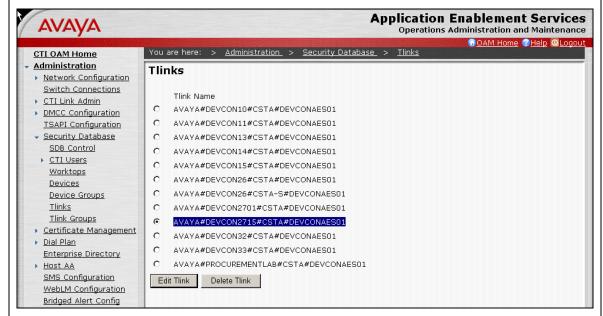
Step	Description
1.	Edit the config/dgswitch.cfg file on Avaya HardDialer and verify that Headset Ports
	are defined. Values 1-8 are port/trunk ids and 264-271 are the timeslots to be used in
	Section 6.2, Step 10.
	#Headset Ports
	H: 1:264 :0::#H:15:1:1-1-21-1-1
	H: 2:265 :0::#H:15:1:1-1-21-1-2
	H: 3 : 266 :0::#H:15:1:1-1-21-1-3
	H: 4:267 :0::#H:15:1:1-1-21-1-4
	H: 5 : 268 :0::#H:15:1:1-1-21-1-5
	H: 6:269 :0::#H:15:1:1-1-21-1-6
	H: 7:270 :0::#H:15:1:1-1-21-1-7
	H: 8:271 :0::#H:15:1:1-1-21-1-8

5. Configure Avaya Application Enablement Services Server

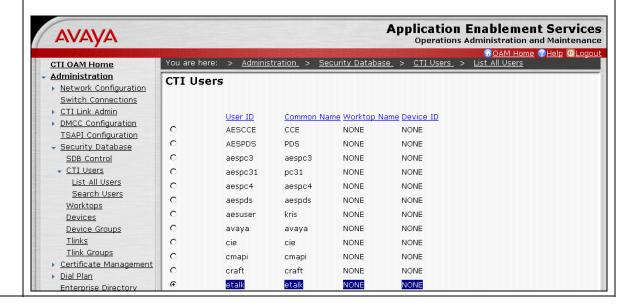
This section displays the already configured values on Avaya AE Services for Qfiniti to receive TSAPI events. Basic configuration related to the switch connection between Avaya Communication Manager and Avaya AE Services is assumed. Refer to [2, 4] for additional details.



3. Navigate to the Tlinks screen by selecting CTI OAM Home →Administration → Security Database → Tlinks and verify a TSAPI link is configured. In this sample configuration, the AVAYA#DEVCON2715#CSTA#DEVCONAES01 string is used by Qfiniti to connect to Avaya AES.



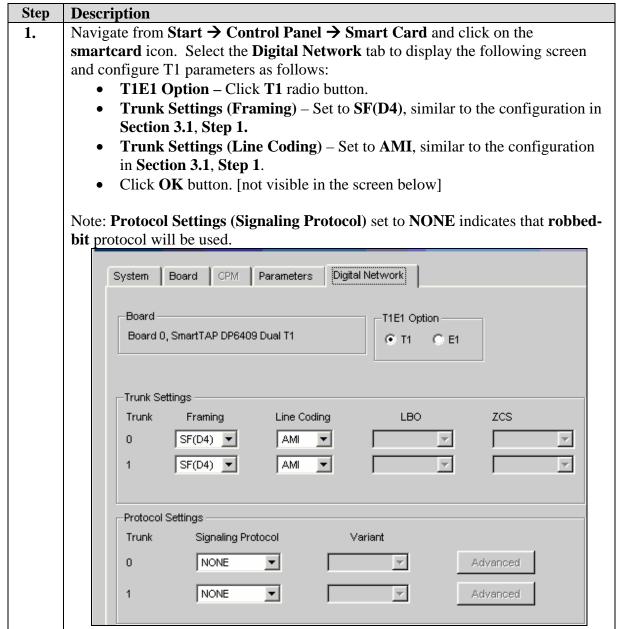
4. Navigate to CTI OAM Home/Administration → CTI Users → List All Users and verify that a user for Qfiniti has been created on the Avaya AE Services server.



6. Configure Qfiniti

The following steps describe the configuration to integrate Qfiniti with Avaya HardDialer. 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. Refer to [7] for additional details.

6.1. Qfiniti T1 Configuration



6.2. Qfiniti System Administration

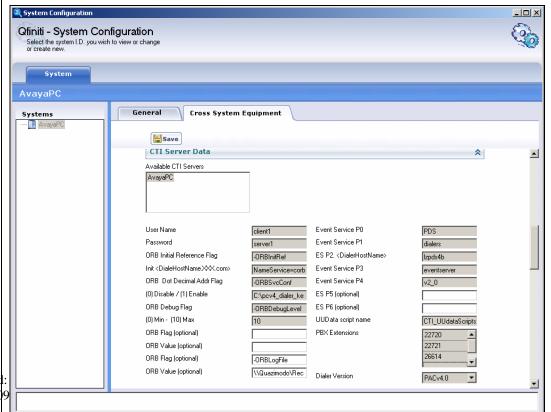
Step	Description			
1.	Verify the hosts file on Qfiniti contains the hostnames of the Avaya Hard Dialer and Avaya AE Services server.			
	# Copyright (c) 1993-1999 Microsoft Corp. #			
	# This is a sample HOSTS file used by Microsoft TCP/IP for Windows. #			
	# This file contains the mappings of IP addresses to host names. Each # entry should be kept on an individual line. The IP address should			
	# be placed in the first column followed by the corresponding host name. # The IP address and the host name should be separated by at least one # space. #			
	# Additionally, comments (such as these) may be inserted on individual # lines or following the machine name denoted by a '#' symbol. #			
	# For example: #			
	# 102.54.94.97 rhino.acme.com # source server # 38.25.63.10 x.acme.com # x client host			
	192.45.120.155 lzpds4b 192.45.95.98 DEVCONAES01			
2.	 Create the folder <dir>:\pcv4_dialer_keys</dir> Copy the following files from <dir>:\Program Files\Qfiniti\bin to <dir>:\pcv4_dialer_keys: corba_svc.conf ProactiveContactCA.pem corbaServer_key.pem </dir></dir> 			
	 corbaServer_cert.pem Edit <dir>:\ pcv4_dialer_keys\corba_svc.conf, pasting the path "<dir>:\ pcv4_dialer_keys\" after "PEM:" in 3 places. This will provide the correct path to the three .pem files listed above.</dir></dir> 			

Step **Description** Click System Configuration icon on the Qfiniti server desktop and select the **3.** Cross System Equipment tab. Click Switch in the right pane and configure as follows: Name – Set to any descriptive string. Switch Model – Choose Avaya Definity from the drop down list. Interface Type – Select Air-Logix Media Boards from the drop down _|_|× **Qfiniti - System Configuration** Cross System Equipment Systems - 📗 AvayaPC Save Switch \Rightarrow **S** Name Туре AvayaCM Switch Model: Avava Definity Vendor: Post Release Delay: 0 Observe Mode: By Extension ┙ Observe String: Interface Type: Ai-Logix Media Boards Switch Data CTI Server × CTI Server Data × **Board Configuration** × **Board Configuration Data** × D-Channel Simulated CTI Events ×

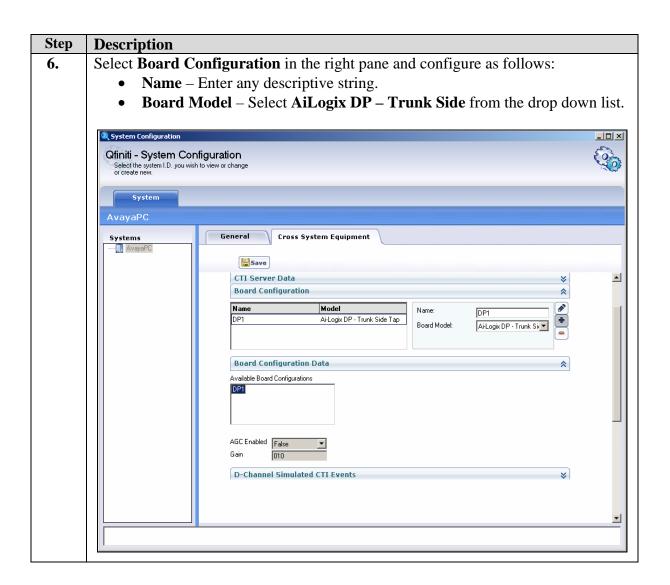
Step **Description** 4. Configuration in this step pertains to receiving events from Avaya HardDialer by connecting to the Event Service. Select CTI Server in the right pane and configure as follows: Name – Set to any descriptive name. **Type** – Select **Avaya Dialer** from the drop down list. **Available Switch** – Select the switch configured in the previous step. System Configuration ___× Qfiniti - System Configuration Select the system I.D. you wish to view or change or create new. System Archiving and Aging AvayaPC General Cross System Equipment Systems AvayaPC Save Switch Switch Data × CTI Server × Туре Name: AvayaPC + Avaya Dialer Available Switch: AvayaCM **CTI Server Data** \wedge **Active Work Server** \wedge **Board Configuration** ٠

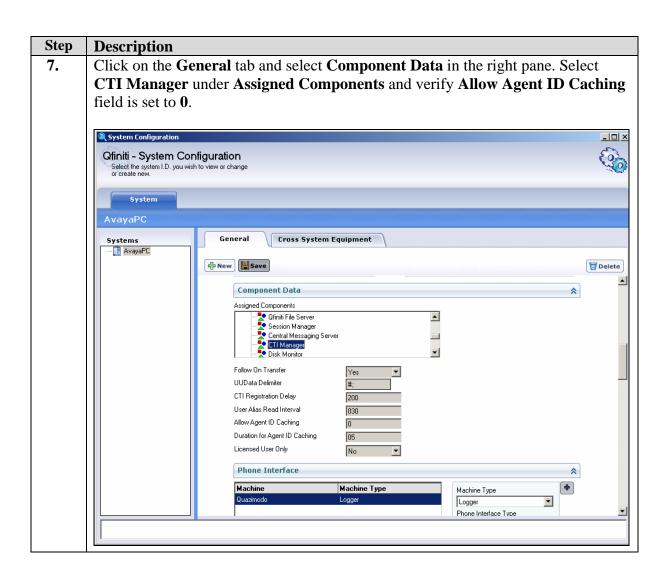
Step Description Select CTI Server Data in the right pane and configure as follows: User Name – Set to the user name configured on Avaya HardDialer for corba connection. Password – Set to the password on Avaya HardDialer for corba connection. Orb Initial Reference Flag – Set to –ORBInitRef. Init <DialerHostName.xxx.com> - Set to

- Init < DialerHostName.xxx.com> Set to NameService=corbaloc:ssliop:<hostname of the Avaya Hard Dialer>:23201/NameService.
- ORB dot Decimal Addr Flag Set to -ORBSvcConf.
- (0)Disable / (1)Enable Set to C:\pcv4_dialer_keys\corba_svc.conf.
- ORB Debug Flag Set to **-ORBDebugLevel**.
- (0)Min (10)Max Set to 10. This is for debug purposes only. Once configuration issues have been resolved, and Observe is receiving dialer CTI events, set the value to 0.
- ORB Flag (optional) Set to -ORBLogFile.
- ORB value (optional) Set to \\Quazimodo\Recordings\Corba.log.
- Event Service P0 Set to PDS.
- Event Service P1 Set to dialers.
- ES P2 < DialerHostName > Set to the hostname of the Avaya HardDialer.
- Event Service P3 Set to eventserver.
- Event Service P4 Set to v2 0.
- **PBX Extensions** Set to the agent extensions to be recorded.
- Dialer Version Set to PACv4.0.



AT: Reviewed SPOC 3/3/200





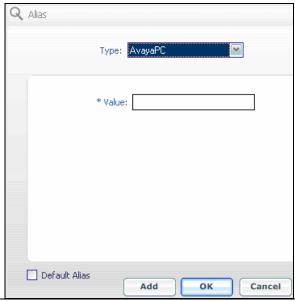
Step **Description** 8. Select Phone Interface and Station Side Logging Data in the right pane and configure as follows: Machine Type – Select Logger from the drop down list. **Phone Interface Type** – Leave blank for recording using trunk tapping. **Total Lines** – Set to 23. **COS Name** – Set to any descriptive string. **Phone** – Select **Trunk Side EandM Immediate Wink** from the drop down list. _ | X Qfiniti - System Configuration Cross System Equipment General - 📗 AvayaPC - New Save Delete Phone Interface ^ Machine Machine Type Machine Type Logger • Phone Interface Type **T** Total Lines 23 Station Side Logging Data ^ Phone Class of Service COS Name: Trunk Side EandM Immediate \ Phone: Record on lights:

Step **Description** 9. Click on VRM in the right pane, select Logger1 under Machines and configure as follows: **VRM Name** – Set to any descriptive string. **Line From** – Set to 1. **Line To** – Set to the **Total Lines** field value configured in the previous **VRM Type** – Select **Logging** from the drop down list. **Interface Type** – Select **Trunk Side** from the drop down list. **Default Class of Service** – Select the **COS Name** field value configured in previous step. **Board Configuration** – Select the **Name** field configured in **Step 6**. **Qfiniti - System Configuration** Cross System Equipment Systems - 📑 AvayaPC - New Save 🗑 Delete Station Side Logging Data × \wedge Machines VRM Name: Logger1 VRM Type: Logging Line From: 1 Line To: 23 Interface Type: Trunk Side (forces consecutive lines) Use Range: Default Class of Service: DP1 **T** DP1 ▼ Board Configuration: Line Data

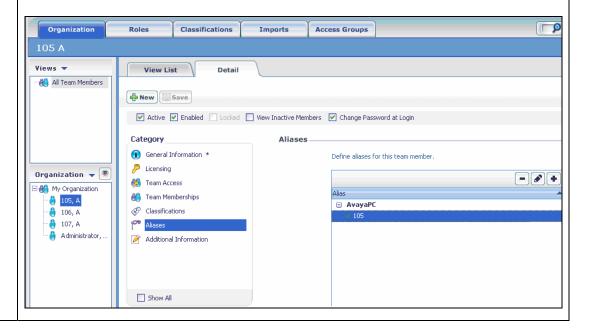
Step **Description** 10. Click on VRM in the right pane, navigate to Quazimodo/Logger1/Line1 under Machines and configure as follows: Extension – Set to the channels configured in Section 4, Step 1 pre-pended by **T0**. In this example the value for channel **264** in **Section 4**, **Step 1** is set as **T0.264**. Class of Service – Select the COS Name field value configured in Step 8. Repeat this step for all the headset channels configured in **Section 4**, **Step** 1. System Configuration _ U × Qfiniti - System Configuration **E** Select the system I.D. you wish to view or change or create new. System AvayaPC General Cross System Equipment - 📗 AvayaPC - New Save Delete VRM × Line Data 🚇 Quazimodo Quazimodo Logger1 VI Line 1 VI Line 3 VI Line 5 VI Line 6 VI Line 7 Copy Extension Allow Extension Duplication T0.264 Class of Service DP1 Supervisor Login Supervisor Password

Step Description

- 11. Click **Qfiniti Desktop** on the desktop and navigate to the **Organization/Detail** tab. Select **Aliases** under **Category** and click on the + sign in the **Aliases** section to display the following **Alias** popup window.
 - Enter the agent id of the Avaya Proactive Contact agent to be recorded in the **Value** field and click **OK**.
 - Repeat this step for additional Avaya Proactive Contact agent ids to be recorded.

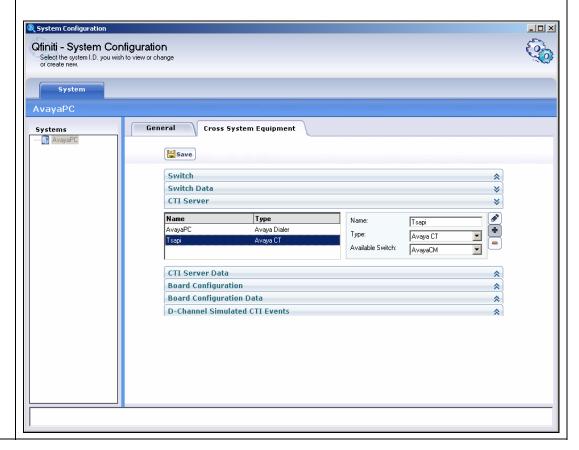


12. Below is a confirmation screen with the aliases defined.

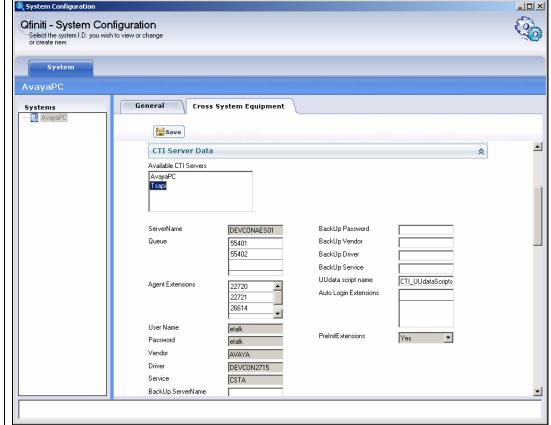


13. For Predictive Agent Blending, a TSAPI client should be installed on the Qfiniti server and the Telephony Servers section in the tslib.ini file should point to the Avaya AE Services server displayed in Step 1. ; This is a list of the servers offering Telephony Services via TCP/IP. ; Either domain name or IP address may be used; default port number is 450 ; The form is: host_name=port_number For example: ; ; tserver.mydomain.com=450 ; 127.0.0.1=450 ; [Telephony Servers] DEVCONAES01=450

- Configuration in this step pertains to receiving events using TSAPI to receive events from Avaya AES. Select **CTI Server** in the right pane and configure as follows:
 - Name Set to any descriptive name.
 - **Type** Select **Avaya CT** from the drop down list. This option appears after the TSAPI client is installed on Qfiniti server.
 - **Available Switch** Select the Switch configured in **Step 3** from the drop down list.

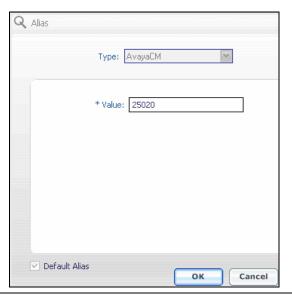


Step **Description 15.** Select **CTI Server Data** in the right pane and configure as follows: Available CTI Servers – Select Tsapi which is the CTI Server configured in the previous step. **ServerName** – Set to the Avaya AE Services server name as displayed in **Step 1** and used in last part of the string displayed in **Section 5**, **Step 3**. Queue – These queues are the VDNs configure in Section 3.2, Step 6. **Agent Extension** – Set to the agent extensions configured in **Section 3.2**, **Step 8** to be recorded. User Name – Set to the user name displayed in Section 5, Step 4. **Password** – Set to the password for the user displayed in Section 5, Step 4. **Vendor** – Set to the first part of the TSAPI string displayed in **Section 5**, Step 3. **Driver** – Set to second part of the TSAPI string displayed in **Section 5**, Service – Set to the third part of the TSAPI string displayed in Section 5, **UUdata script name** – Set to **CTI_UUdataScripts**. _ | U × Qfiniti - System Configuration Select the system I.D. you wish to view or change or create new. System AvavaPC

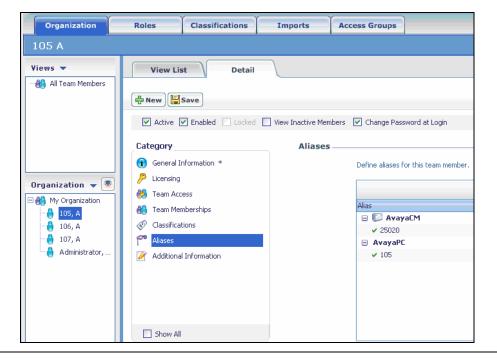


Step Description

- Click **Qfiniti Desktop** on the desktop and navigate to the **Organization/Detail** tab. Select **Aliases** in under **Category** and click on the + sign in the **Aliases** section to display the following **Alias** popup window.
 - Enter the Avaya Communication Manager agent login id in the **Value** field for the ACD agent configured in **Section 3.2**, **Step 7** and click **OK**.
 - Repeat this step for additional ACD agents to be configured.



17. Below is a confirmation screen with an ACD agent configured on Qfiniti server.



7. Interoperability Compliance Testing

This interoperability compliance test covers feature functionality, serviceability and basic stability testing. Feature functionality focused on verifying that Qfiniti could successfully record calls using events from Avaya HardDialer and Avaya AE Services. Serviceability testing verified that the Qfiniti server recovered from adverse conditions, such as rebooting, power failure and network disconnect. Basic stability testing verified that the recording solution 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 HardDialer 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 the Qfiniti desktop interface. During the basic load testing, Avaya HardDialer executed a calling list which delivered calls to the agents for sustained periods.

7.2. Test Results

Qfiniti successfully recorded, stored and played back the calls between the agents and the customers. For serviceability testing, Qfiniti resumed recording calls after restoration of connectivity to the Avaya HardDialer, after network disconnect/re-connect, and after reset of the Qfiniti server. For stability testing, Qfiniti successfully recorded calls for a sustained period of time.

8. Verification

8.1. Avaya Communication Manager

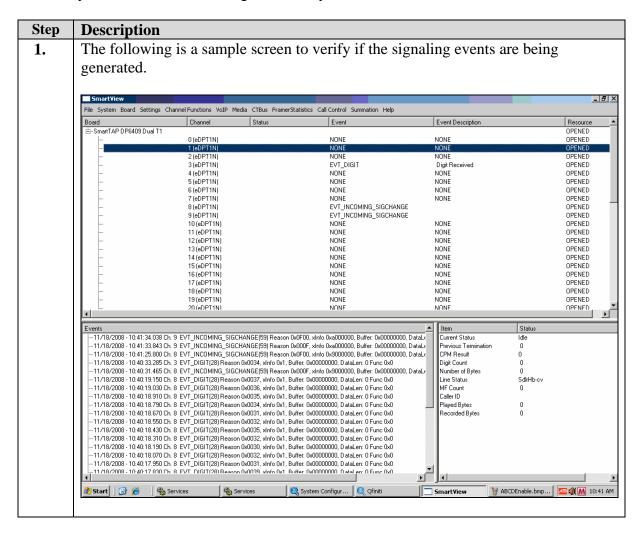
Step	Description					
1.	Execute the test board <i>slot_no</i> , where <i>slot_no</i> is the location of the DS1 card on Avaya					
	Communication Manager gateway. Verify that all the following tests pass after the trunk					
	has been tapped to connect to the Qfiniti T1 card.					
	test board 1a14				Page	1
		Т	EST RESULT	ΓS		
	Port	Mtce Name	Alt. Name	Test No.	Result	Error Code
	01A14	UDS1-BD		138	PASS	
	01A14	UDS1-BD		139	PASS	
	01A14	UDS1-BD		140	PASS	
	01A14	UDS1-BD		141	PASS	
	01A14	UDS1-BD		142	PASS	
	01A14	UDS1-BD		143	PASS	
	01A14	UDS1-BD		144	PASS	
	01A14	UDS1-BD		145	PASS	
	01A14	UDS1-BD		146	PASS	

8.2. Avaya Proactive Contact

Step	Description			
1.	Execute the netstat –a command at the Avaya Proactive Contact server command prompt			
	to verify the communication between Avaya Proactive Contact and the Qfiniti server. The result below shows that the Qfiniti server at 192.45.30.25 is connected to the Avaya			
	Proactive Contact server (lzpds4b).			
	\$ netstat –a			
	Active Internet connections (including servers)			
	Proto Recv-Q Send-Q Local Address Foreign Address (state)			
	tcp 0 0 lzpds4b:enserver_ssl 192.45.30.25:39875 ESTABLISHED			
	tcp 0 lzpds4b:NameService_ssl 192.45.30.25:39874 ESTABLISHED			

8.3. Qfiniti T1 Connectivity

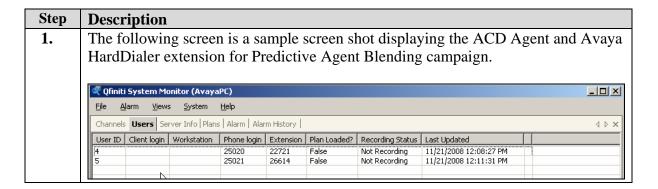
Verify that the light is green on the T1 card on the Qfiniti server which taps into the T1 link between Avaya Communication Manager and Avaya HardDialer.



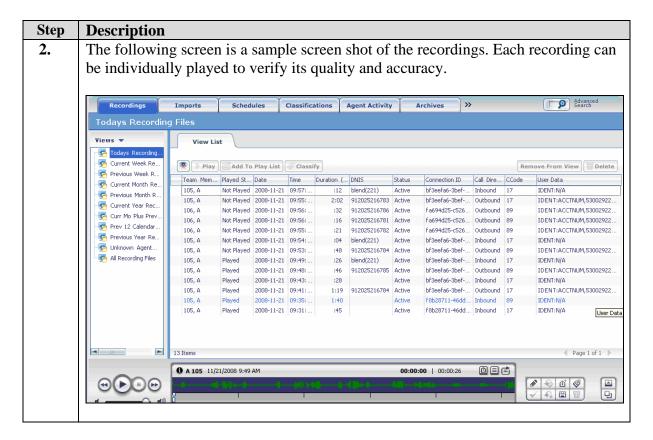
8.4. Qfiniti Recording Status

Step **Description** The following screen is a sample screen shot for verifying which channels are 1. being recorded. This example shows Qfiniti is recording channel 4 with Avaya Proactive Contact agent id 105 and extension 22721. Qfiniti System Monitor (AvayaPC) <u>Al</u>arm <u>Vi</u>ews <u>S</u>ystem Channels Users | Server Info | Plans | Alarm | Alarm History | Machine Channel Rec. Channel Status Extension VRM Name Login ID VRM Type QUAZIMODO 1 Idle Trunk Logger1 Logging QUAZIMODO 2 Idle Idle Trunk Logger1 Logging Idle QUAZIMODO 3 Idle Trunk Logger1 Logging 22721 QUAZIMODO 4 Recording 105 Logger1 Logging QUAZIMODO 5 Idle Idle Trunk Logger1 Logging QUAZIMODO 6 Idle Idle Trunk Logger1 Logging QUAZIMODO 7 Idle Idle Trunk Logger1 Logging Idle OHAZIMODO 8 Idle Trunk Logger1 Logging QUAZIMODO 9 Idle Idle Trunk Logger1 QUAZIMODO 10 Idle Idle Trunk Logger1 Logging QUAZIMODO 11 Idle Idle Trunk Logger1 Logging QUAZIMODO 12 Idle Trunk Logging Idle Logger1 QUAZIMODO 13 Idle Idle Trunk Logger1 Logging QUAZIMODO 14 Idle Idle Trunk Logger1 Logging QUAZIMODO 15 Idle Idle Trunk Logger1 Logging QUAZIMODO 16 Idle Idle Trunk Logger1 Logging QUAZIMODO 17 Idle Idle Trunk Logger1 Logging QUAZIMODO 18 Idle Idle Trunk Logger1 Logging QUAZIMODO 19 Idle Idle Trunk Logger1 Logging QUAZIMODO 20 Idle Idle Trunk Logger1 Logging OUAZIMODO 21 Idle Idle Trunk Logger1 Logging System Running

8.5. Qfiniti ACD Agent Login Status



8.6. Qfiniti Recording Playback



9. Support

For technical support on any Autonomy etalk product, contact Etalk Customer Support at 1-214-981-1979 (International) or 800-346-4436. Technical support email may be sent to techsupport@etalk.com.

10. Conclusion

These Application Notes describe the configuration steps required for Autonomy etalk Qfiniti QA Recording 3.5 to successfully interoperate with Avaya Proactive Contact 4.0 using Avaya PG230 Gateway. All feature functionality and serviceability test cases were completed successfully.

11. Additional References

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

- [1] Administrator Guide for Avaya Communication Manager, Document ID 03-300509, Issue 4, January 2008
- [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
- [5] Sample Avaya Proactive Contact 3.0 Intelligent Call Blending Configuration, Issue 1.0

Autonomy etalk Documentation found on the Installation CDs:

- [6] Installation Guide for Qfiniti 3.5 SP1.pdf
- [7] Configuration Guide for Qfiniti 3.5 SP1.pdf
- [8] Installation Checklist for Qfiniti 3.5 SP1.pdf
- [9] User Guide for Qfiniti 3.5 SP1.pdf
- [10] Administration Guide for Qfiniti 3.5 SP1.pdf

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