

Avaya Solution & Interoperability Test Lab

Application Notes for Viable Resources Customer Experience Reporting with Avaya Aura[™] Communication Manager and Avaya Aura[™] Application Enablement Services – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Customer Experience Reporting to interoperate with Avaya AuraTM Communication Manager and Avaya AuraTM Application Enablement Services. Customer Experience Reporting is a web-based contact center management solution. Customer Experience Reporting uses real-time data from Communication Manager to monitor and produce reports on phone activity for agents and ACD/skill groups.

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

1. Introduction

Viable Resources' Customer Experience Reporting is a web-based contact center management solution. Customer Experience Reporting uses real-time data from Avaya AuraTM Communication Manager to monitor and produce reports on phone activity for agents and ACD/skill groups. It enables supervisors to monitor activities as they happen in a contact center and provide historical, statistical, and graphic reports on specific activities over time.

The interoperability of Customer Experience Reporting Version 1.1 with Avaya AuraTM Communication Manager is accomplished through Avaya AuraTM Application Enablement Services. These Application Notes describe the compliance test configuration used to test Customer Experience Reporting Version 1.1, with Communication Manager running on an Avaya S8300 Server and an Avaya G350 Media Gateway.

1.1. Interoperability Compliance Testing

The Compliance testing focused on the following areas:

- Installation & Configuration
- Customer Experience Reporting/Avaya Feature Functionality Verification
- Failover and Serviceability Tests

The installation and configuration testing focused on the setup of all components and the ability to interoperate. It also covered the ability to remove the application from the Customer Experience Reporting server.

The functionality testing focused on verifying Customer Experience Reporting ability to receive and parse real-time data from Communication Manager, and the use of the data in various reports as well as the production of historical reports.

The serviceability testing focused on verifying the ability of Customer Experience Reporting to recover from and report on adverse conditions.

1.2. Support

Technical support on Customer Experience Reporting can be obtained through the following:

- **Phone:** (513) 518-2775
- Email: <u>inquiries@ccscallcenters.com</u>

2. Reference Configuration

The interoperability of Customer Experience Reporting Version 1.1 with Communication Manager is accomplished through Application Enablement Services. The compliance test configuration used to test Customer Experience Reporting Version 1.1 includes the Avaya S8300 Server, the Avaya G350 Media Gateway, Application Enablement Services, Windows 2003 Server for Customer Experience Reporting, PCs for the clients, and telephones. **Figure 1** provides a high level topology.



Figure 1: Customer Experience Reporting Compliance Test Sample Configuration

3. Equipment and Software Validated

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

Hardware/Software Component	Version/Description
Avaya S8300 Server and G350 Media Gateway	Avaya Aura TM Communication Manager 5.2 (R015x.02.0.947.3) with Service Pack 17534
Avaya Aura [™] Application Enablement Services	Release 4.2.3
Avaya 9600 Series IP Telephones	9620, 9630, 9640 H.323 Avaya One-X Terminals R2.0
Avaya IP Agent, Avaya One-X Agent	R6, R1
Viable Solutions' Customer Experience	Version 1.1 with Windows IIS Services
Reporting running on Windows 2003 (32-bit)	5.1, .NET Framework 3.5, and Internet
Server	Explorer 6.0

4. Configure Avaya Aura[™] Communication Manager

All the configuration changes in this section for Communication Manager are performed through the System Access Terminal (SAT) interface. For more information on configuring Communication Manager, refer to the Avaya product documentation, Reference [1].

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

- Administer Processor Ethernet Interface for Application Enablement Services connectivity
- Administer CTI link with TSAPI service

The detailed administration of contact center entities, such as VDN, Vector, Skill, Logical Agents and Station Extensions are assumed to be in place and are not covered in these Application Notes.

4.1. Administer Processor Ethernet Interface for Application Enablement Services Connectivity

Verify the entry for the Processor Ethernet Interface in the node-names form.

• Enter the **change node-names ip** command. In this case, **procr** and **10.64.10.10** are already populated as **Name** and **IP Address** for the Processor Ethernet Interface that will be used for connectivity to the Application Enablement Services server. The actual IP address may vary. Submit these changes.

🚥 Telnet 10.64.10	.10						<u>_ </u>
change node-n	ames ip				Page	1 of	2 🔺
		IP NODE	NAMES				
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(4 of 4	administered node-na	mes were	disnlaved	>			
Use 'list nod	e-names' command to	see all t	the adminis	, tered node-	-names		
Use 'change n	ode-names ip xxx' to	change a	a node-name	'xxx' or a	add a no	ode-nam	ie
ESC-x=Cancel	Esc-e=Submit Esc-p=P	rev Pg E:	sc-n=Next P	g Esc-h=Hel	lp Esc-ı	r=Refre	sh 🔼

On an S8300 server, the Processor Ethernet Interface should already be in the ip-interface list.

• Either the **display ip-interface procr** command or the **list ip-interface all** command will display the parameters of the Processor Ethernet Interface on the S8300.



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Add an entry for IP Services with the following values for fields on Page 1, as displayed below:

- Enter the **change ip-services** command.
- In the Service Type field, type AESVCS.
- In the **Enabled** field, type y.
- In the Local Node field, type the Node name procr for the Processor Ethernet Interface.
- In the Local Port field, retain the default of 8765.



Go to Page 3 of the IP Services form, and enter the following values:

- In the **AE Services Server** field, type the name obtained from the Application Enablement Services server, in this case **AES**.
- In the **Password** field, type the same password to be administered on the Application Enablement Services server, in this case **aes1password**.
- In the **Enabled** field, type **y**.

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change ip-ser	rvices				Page	3 of	3 🔺
		AE Servi	ces Administra	tion			
Server ID	AE Service Server	es Pa	ssword	Enabled	Status		
1: 2: 3: 4: 5: 6: 7: 8: 9: 10: 11: 12: 13: 14: 15:	Server AES	aes1	password	y	in use		
16:							
ESC-x=Cancel	Esc-e=Submit	Esc-p=Prev	Pg Esc-n=Next	Pg Esc-h=He	elp Esc-r	=Refre	sh 🔽

Note that the name and password entered for the **AE Services Server** and **Password** fields must match the name and password on the Application Enablement Services server. The administered name for the Application Enablement Services server is created as part of the Application Enablement Services installation, and can be obtained from the Application Enablement Services server by typing **uname** – **n** at the Linux command prompt. The same password entered above will need to be set on the Application Enablement Services server using **Administration** > **Switch Connections** > **Edit Connection** > **Set Password**.

4.2. Administer Computer Telephony Integration (CTI) Link

It is assumed that Communication Manager is enabled with feature licenses for Vectoring, ASAI Link Core Capabilities, and Computer Telephony Adjunct Links.

This section provides the steps required for configuring a CTI Link.

Enter the display system-parameters customer-options command.

• On Page 3, verify that the **Computer Telephony Adjunct Links** field is set to **y** for yes. If not, contact an authorized Avaya account representative to obtain the license.

🕰 Telnet 10.64.10.10			>	×
display system-parameters customer-opti	lon	s Page 3 of	11	•
UPIION	L	FEHIURES		
Abbreviated Dialing Enhanced List?	n	Audible Message Waiting?	n	
Access Security Gateway (ASG)?	n	Authorization Codes?	n	
Analog Trunk Incoming Call ID?	Π	CAS_Branch?	n	
A/D Grp/Sys List Dialing Start at 01?	Π	CAS Main?	n	
Answer Supervision by Call Classifier?	Π	Change COR by FAC?	n	
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Async, Transfer Mode (ATM) Trunking?	n	Digital Loss Plan Modification?	n	
ATM WAN Spare Processor?	n	DS1 MSP?	n	
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(NOTE: You must lawoff & lawin	t a	offect the normination changes)		
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ESC-x=Cancel Esc-e=Submit Esc-n=Prev Po	ſF	sc-n=Next Pg Esc-h=Help Esc-r=Refre	sh	-

Enter the **add cti-link <link number>** command, where **<link number>** is an available CTI link number.

- In the Extension field, type <station extension>, where <station extension> is a valid station extension.
- In the **Type** field, type **ADJ-IP**.
- In the **Name** field, type a descriptive name.



Enter the **list cti-link** command to verify that the CTI Link is correctly configured. All configured links will show in this screen. In the snapshot below, Link 1 is the link of interest added above.

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list Link	Ext	Type	CTI Port	LINKS Name		ÇOR	2-Dgt AuxRC	1
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ESC-x	=Cancel Esc-e=S	ubmit Esc	-p=Prev Pg	g Esc-n=Next	Pg Esc-h=Help Es	c-r=R	efresh	

5. Configure Avaya Aura[™] Application Enablement Services

Application Enablement Services enables Computer Telephony Interface (CTI) applications to monitor and control telephony resources on Communication Manager. The Application Enablement Services server receives requests from CTI applications and forwards them to Communication Manager. Conversely, the Application Enablement Services server receives responses and events from Communication Manager and forwards them to the appropriate CTI applications.

This section assumes that the installation and basic administration of the Application Enablement Services server has already been performed. For more information on administering Application Enablement Services, refer to the Avaya product documentation, Reference [2].

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



The Login screen is displayed as shown below. Log in with the appropriate credentials.

AES Login - Microsoft Internet Explorer					
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	Logon:				
	Password:				
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1					
	©2009 Avaya, Inc. All Right	s Keserved.			
Done				🔒 🥑 Inter	net 🥠

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



Solution & Interoperability Test Lab Application Notes ©2010 Avaya Inc. All Rights Reserved. The **Welcome to CTI OAM Screens** screen is displayed. Verify that Application Enablement Services is licensed for the TSAPI service, as shown in the bottom of the screen below. If the TSAPI service is not licensed, contact the Avaya sales team or business partner for a proper license file.

Welcome to CTI OAM Screens - Microsoft Internet Explorer			
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Address 🕘 https://10.64.10.20/MVAP/forms/cti/ctiHome.jsp			🔽 ラ Go 🛛 Links 🎽
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Αναγα		Application I Operations A	Enablement Services
CTI OAM Home You are here: > CT	I OAM Home		OAM Home (7Help OLogout
 Administration Status and Control Maintenance Alarms Logs Utilities Help Important: AE Service CASAI Link Manager DMCC Service CVLAN Service DLG Service Transport Layer Service TSAPI Service SMS For status on actual s License Information You are licensed to rule 	D CTI OAM	Screens 9 from 10.64.10.15 for administrative changes to fully equire a restart. State N/A ONLINE ONLINE N/A ONLINE N/A tatus and Control. ent (CTI) version 4.2.	y take effect. Licenses Purchased N/A Yes Yes N/A Yes Yes Yes
Done			🔒 🥥 Internet 🧠

To administer a TSAPI link, select **Administration > CTI Link Admin > TSAPI Links** from the left pane. The **TSAPI Links** screen is displayed, as shown below. Click **Add Link**.

https://10.64.10.20/MVAP/forms/	/cti/tsapiLinks.jsp - Micr	osoft Internet Explorer			
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Address 🚳 https://10.64.10.20/MVAP/forms	s/cti/tsapiLinks.jsp				💙 🄁 Go 🛛 Links 🎽
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Αναγα			Applicat Opera	tion Enablem	ent Services
CTI OAM Home	You are here: > <u>A</u>	dministration_ > _CTI Link	<u> Admin</u> > <u>TSAPI Link</u>	00AM Hi <u>(s</u>	ome @Help OLogout
Administration Network Configuration Switch Connections	TSAPI Link	(S			
	Link	Switch Connection	Switch CTI Link #	ASAI Link Version	Security
TSAPI Links	① 1	S8300	1	4	Unencrypted
CVLAN Links DLG Links	Add Link Edit Lin	k Delete Link			v
e					🔒 🥝 Internet 🔢

The Add / Edit TSAPI Links screen is displayed next. The Link field is only local to the Application Enablement Services server, and may be set to any available number. For Switch Connection, select the relevant switch connection from the drop-down list. In this case, the existing switch connection S8300 is selected. For Switch CTI Link Number, select the CTI link number previously administered. Click Apply Changes.

AVAYA	Application Enablement Services Operations Administration and Maintenance
CTI OAM Home Administration Network Configuration Switch Connections CTI Link Admin TSAPI Links CVLAN Links DLG Links DMCC Configuration TSAPI Configuration Security Database Certificate Management Dial Plan Enterprise Directory Host AA SMS Configuration WebLM Configuration Bridged Alert Config Status and Control Maintenance Alarms Logs Utilities Help	Converting > CT1 Link Admin > TSAP1 Links Link: 1 Switch Connection: S8300 Switch CT1 Link Number: 1 ASAI Link Version 4 Security Unencrypted Apply Changes Mancel Changes
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The Apply Changes to Link screen is displayed. Click Apply.



Next, add a CTI User, as Customer Experience Reporting requires a CTI user to access Application Enablement Services. Select **OAM Home > User Management > Add User** from the left pane.

In the Add User screen, enter the following values:

- In the User Id field, type a meaningful user id.
- In the **Common Name** field, type a descriptive name.
- In the **Surname** field, type a descriptive surname.
- In the User Password field, type a password for the user.
- In the **Confirm Password** field, re-enter the same password for the user.
- In the Avaya Role field, retain the default of None.
- In the CT User field, select Yes from the dropdown menu.
- Click **Apply** at the bottom of the screen (not shown here).

ΑνΑγΑ		Application Enablement Ser
	You are here: > User Management > Add U	G <u>OAM Home</u> (<u>Help</u>)
User Management List All Users	Add User	
<u>Add User</u> <u>Search Users</u>	Fields marked with * can not be empty.	
Modify Default User	* User Id viable	
Service Management	* Common Name viable	
• <u>Help</u>	* Surname viable	
	* User Password	
	* Confirm Password	
	Admin Note	
	Avaya Role None	
	Business Category	
	Car License	
	CM Home	
	Css Home	
	CT User Yes -	
	Department Number	
	Display Name	

Solution & Interoperability Test Lab Application Notes ©2010 Avaya Inc. All Rights Reserved. Select Administration > Security Database > Tlinks from the left pane. The Tlinks screen shows a listing of the Tlink names. A new Tlink name is automatically generated by the Application Enablement Services server, upon creation of a new switch connection. Locate the Tlink name associated with the relevant switch connection, which would use the name of the switch connection as part of the Tlink name. Make a note of the associated Tlink name, to be used later for configuring the Customer Experience Reporting server.

In this case, the associated Tlink name is "AVAYA#**S8300**#CSTA#AES". Note the use of the switch connection "S8300" as part of the Tlink name.

https://10.64.10.20/MVAP/forms/	/cti/tlinks.jsp - Microsoft Internet Explorer	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> e	lp	
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Google	🗸 🛟 Search 🔹 🧭 🗸 🏈 🖶 😵 🛠 🏠 Bookmarks 🔹 🛸 🔌 🔩 🕤 Sign In 🔹	🌀 SnagIt 📑
Αναγα	Application Enablement Se Operations Administration and Main	rvices ntenance
CTI OAM Home	GOAM Home @Help You are here: > <u>Administration</u> > <u>Security Database</u> > <u>Tlinks</u>	OLogout
Administration Network Configuration Switch Connections	Tlinks	
<u>CTI Link Admin</u>	Tlink Name	
DMCC Configuration	AVAYA#S8300#CSTA#AES	
<u>TSAPI Configuration</u> <u>Security Database</u>	Edit Tlink Delete Tlink	×
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6. Configure Customer Experience Reporting

This section provides the procedures for configuring Customer Experience Reporting. The procedures include the following areas:

- Launch and Configure Administrator Console
- Launch Customer Experience Reporting Web Interface
- Administer Skills
- Administer Vectors
- Administer VDNs
- Administer Agents
- Administer Supervisor(s)
- Web Client Installation
- Accessing Instant Messaging

The configuration of Customer Experience Reporting is typically performed by Viable Resources support technicians. The procedural steps are presented in these Application Notes for informational purposes.

6.1. Launch and Configure Administrator Console



The first screen that appears is not a login screen. The console does not require a login, but it does require some configuration.

🚊 Admin Console - View1		
System View Window Help		
2 7 7 7 8		
View1		X
Server1 ACD Admin AMS AVAYAC Database NCTS System	k₹	
Ready	System Status: Network Status: Logged in	11.

Configure the Site Info Tab under the Admin Tab.

• Fill in boxes for Name, Address, City, State, Zip Code, First Name, Last Name, Phone Number, and E-Mail Address.

📕 Admin Console - View1		
System View Window Help		
944		
View1		
Views Server1 ACD Admin AMS AVAYAC Database NCTS B- System	Site Info E-Mail Setting Error Alert Registration Number: DEVCONNET Site ID: 00000 NOTE: To apply all the changes once, click the Apply button below. Site Information Name: Avaya DevConnect	
Pearty	Apply System Status: Consection	

Configure the E-Mail Setting Tab under the Admin Tab.

- Choose the **System Name** from the pull-down menu. Populate the **System E-Mail Address** box and the **SMTP Interface IP Address** for the network management elements, if required for alerting. Hit **Apply**.
- E-mail was not populated in the screen shot below as it was not needed for the interoperability testing.

Admin Console - View1	_ D ×
<u>System View Window Help</u>	
View1	
View1 Server1 Admin Admin Avis System Name: Server1 PBX System E-Mail Address System E-Mail Address: System E-Mail Address: System E-Mail Address: 127 · 0 · 0 · 1 Apply	
Ready System Status: Network Status: Logged in	1.

Configure the Error Alert Tab under the Admin Tab.

- Choose the **System Name** from the pull-down menu. Populate the **Add E-Mail Address** box and choose which error logs and alerts the customer requires, if needed. Hit **Apply**.
- E-mail was not populated in the screen shot below as it was not needed for the interoperability testing.

System Yew Window Help View Server1 Server1 System Name: Server1 ESK NOTE: To apply all the charges once, click the AcD AcD Adding AvAvAcC Database Comments & Alerts: Destination E-Mail Address (up to 10) Frimay Destination E-Mail Address Add E-Mail Address: (up to 50 chars) Frimay Destination E-Mail Address Add Remove Selected E-Mail Address: Remove From Log & Alert Selections Select Mig No. Description Server Status. Information Informa	💻 Admin Console - View1		
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Stite Info E-Mail Setting Error Alert Admin Admin Admin AdvarAc Database NCTS B- System NCTS B- System System Status: Destination E-Mail Address (up to 10) Primacy Destination E-Mail Address (up to 10) Primacy Destination E-Mail Address (up to 50 chars) Add E-Mail Address: Remove Add - Remove Selected E-Mail Address: Remove Error Log & Alert Selections Select Msg No. Description Severity E-Mail Subject Comments/Action To be Ta. + 1 Information 1 Server Status. Adam 1 Server Connection er Information 1 Server Status. Adam 1 Server Connection er Information 2 Status Adam 2 Status A	View1		
Error Log & Alert Selections Select Msg No. Description Select Msg No. Description 1 Informage 10 Server Status. 11 Server Status. 30 AMS SNNP alerts. 31 AMS F9600 alerts. 10000 SQL Dbase access. Critical Er	Server1 Admin Admin AMS AVAYAC Database NCT5 System	Site Info E-Mail Setting Error Alert System Name: Server1 PBX NDTE: To apply all the changes once, click the Apply button below. System Errors & Alerts : Destination E-Mail Address (up to 10) Add E-Mail Address: (up to 50 chars) Primary Destination E-Mail Address Add E-Mail Address: (up to 50 chars) Remove Selected E-Mail Address: Remove	
Select Msg No. Description Severity E-Mail Subject Comments/Action To be Ta. Image: Information Information Information Information Image: Information Information Information Image: Information Information Information Image: Information Image: Information Image: Image		Error Log & Alert Selections	
		Select Msg No. Description Severity E-Mail Subject Comments/Action To be Ta. Image: Information 10 Server Status. Information 11 Server Status. Information 30 AMS SNMP alerts. Alarm 1000 SQL Dbase access. Critical Er Eddt Eddt	

Configure the Avaya portion under the AVAYAC tab.

• Choose the **System Name** from the pull-down menu. Populate the **Maintenance Interface** information with the **IP Address**, **Login Name**, and **Password** from the Communication Manager.

<u>NOTE</u>: A standard login is recommended with privileges similar to the dadmin login created below, but Viable does not recommend using dadmin in a production environment.

• Populate the **CTI Interface** information with the **IP Address/Port**, **Avaya CTI Link ID**, the TLINK name for the **AES Connection ID**, the **Login Name**, and **Password** from the Application Enablement Server. Hit **Apply**.

🚊 Admin Console - View1	-	
<u>System ⊻iew W</u> indow <u>H</u> elp		
g = = = =		
View1		
View1 Server1 ACD Admin AMS Admin AMS Admix AMAYAC Database NCTS - System	System Name: Server1 PBX Reset Maintenance Interface Apply IP Address: 10 . 64 . 10 . 10 Login Name: dadmin Password: reserverse PIN: reserverse CTI Interface IP Address / Port: IP Address / Port: 10 . 64 . 10 . 20 / 450 Avaya CTI Link ID: 01 . AES Connection ID: AVAYA#\$8300#CSTA#AES Login Name: avaya Password: reserverse	
Ready	System Status: Network Status: Logged in	11.

To view system status in the Admin Console, click on **System -> Active Service**. This page gives the full system status including Network Status, PBX status, and CTI Link Status.



6.2. Launch Customer Experience Reporting

Access the Customer Experience Reporting web-based interface using the URL http://ipaddress/acdclient in an Internet browser window, where ip-address is the IP address of the Customer Experience Reporting server. The Log In screen is displayed as shown below. Log in using the appropriate credentials.



After entering a valid login and password, the user is prompted to choose a server. In this configuration, there is only one choice.

• Check the box labeled **Select**, and hit **Submit**.



The next screen is the Main Menu. From here, the Supervisor can do the Configuration for the system.

🖉 http://10.64.10.15/ - Customer Experience Reporting Supervisor : SUPERUSER - Windows Internet Explorer 📃 🔍									
Main Menu: Configuration Reports Real Time	Contact Center Solutions Customer Experience Reporting Supervisor Version 1.1.ACDCL 5								
	Copyright© 2009 to Present, Contact Center Solutions, LLC. All rights reserved.								
Done	Trusted sites								

6.3. Administer Skills

From the Main Menu, select Configuration -> Skills from the left pane.



Populate the **Skill Configuration** fields based on the information from the Communication Manager S8300 Server.

- Choose the ACD System from the pull-down menu. Populate the fields for Skill Number, Skill Name, Extension, and COR. Set other parameters as needed. Hit Submit.
- For test purposes, the fields ACD System, Skill No., Skill Name, Extension, and COR were populated. Total Calls Waiting thresholds were set to TH1 = 5, TH2 = 10, and TH3 = 15. This was essential for testing the real-time reports. The rest of the fields were left at the default values.

<i>[[]</i> http://10.64.10.15/ - Skil	l Configuration - Wind	ows Intern	et Explorer					_	
	Skil	l Config	uration						*
ACD System	Server1 PBX		-		:	Shift Schedu	les(00:0	00-23:59)	
Skill Information						T:	Start	End	
Skill No.	10					First Shift	00:00	23:59	
Skill Name	TESTHUNT					Second Shif	t 00:00	00:00	
Extension	5510	COR	1			Third Shift	00:00	00:00	
Calculation Intervals						Fourth Shift	00:00	00:00	
ASA, SVL	10 Minutes 💌					Time in Stat	e (mm:s	s)	
% Abandoned Calls(AB	3) 10 Minutes 💌						TH1	ŤH2	
Call Waiting	TH1	TH2	TH3	Bell	Miscellaneous	AVAIL	02:00	05:00	
Total Calls Waiting	¹ 6	10	15 1	N 💌	Ans Time (Rings):	ACW	02:00	05:00	
Call Waiting Time	60	120	1	N 💌		ACD IN	02:00	05:00	
Longest Call Waiting	60	120	1	N 💌	Max Calls Oueued:	EXT OUT	02:00	05:00	
Average Speed Of Ans	wer(ASA) 30		1	N 💌	20	INTERNAL	02:00	05:00	
Service Level (SVL)	20					AUX	02:00	05:00	
% Grade of Service (G	OS) 80		1	N 💌	Redurect to VDN:	EXT IN	02:00	05:00	
% Abandoned (AB)	5		1	N 💌		HOLD	02:00	05:00	
% Waiting Calls	5	10	1	N 💌	After Call Work	RING	02:00	05:00	
% AVAIL Agents	20	50	1	N 💌		UNAVAIL	02:00	05:00	
						DIAL	00:00	00:00	
Submit	Insert Mode								
Subilit									_ 1
				_	Trusted	sites		100%	•

As you populate multiple skills, these can be accessed using the pull-down menu. The skill can be modified using either the **Skill No.** or **Skill Name**.

<pre>//10.64.10.15/ - Skill Configuratio</pre>	on - Windo ws Internet Explorer			
	Skill Configuration			4
ACD System Server1 PE	BX 💌		Shift Schedules(00:00-23:59)
Skill Information	1	d	Sta	rt End
Skill No. 10 -	TESTHUNT	-	First Shift 00:	00 23:59
Skill Name 🗟 10			Second Shift 00:	00 00:00
Extension 5510	COR 1		Third Shift 00:	00 00:00
Calculation Intervals	_		Fourth Shift 00:	00 00:00
ASA, SVL 10 Minutes	s 💌		Time in State (m	m:ss)
% Abandoned Calls(AB) 10 Minutes	s 💌		TH	1 TH2
Call Waiting	TH1 TH2 TH3 Bell	Miscellaneous	AVAIL 02:	00 05:00
Total Calls Waiting	5 10 15 N 💌	Ans Time (Rings)	ACW 02:	00 05:00
Call Waiting Time	60 120 N 💌		ACD IN 02:	00 05:00
Longest Call Waiting	60 120 N 💌	Max Calls Queued	EXTOUT 02:	00 05:00
Average Speed Of Answer(ASA)	30 N 💌	20	INTERNAL 02:	00 05:00
Service Level (SVL)	20	De freeder HEDN	AUX 02:	00 05:00
% Grade of Service (GOS)	80 N 💌	Redurect to VDN:	EXT IN 02:	00 05:00
% Abandoned (AB)	5 N 💌		HOLD 02:	00 05:00
% Waiting Calls	5 10 N 💌	After Call Work	RING 02:	00 05:00
% AVAIL Agents	20 50 N 💌	(AC W) IIIIC.	UNAVAIL 02:	00 05:00
Last Modified : 12/21/2009	9 4:17:26 PM		DIAL 00:	00 00:00
Submit Insert	Delete < Previous	Next >		
				-
Done		🛛 👔 💦 🗸 Truste	ed sites	

6.4. Administer Vectors

From the Main Menu, select **Configuration** -> **Vectors** from the left pane.

<i>[[</i>] http://10.64.10.15/ - Cu	ustomer Experience Reporting Sup	ervisor : SUPERUSER - Windows Internet Explorer
Main Menu: ConfigAration (h) Reports Real Time	Skills Teams Desktop Templates Agents Vectors	Contact Center Solutions
	VDNe	r Experience Reporting Supervisor
	Trunks	Version 1.1 ACDCL 5
	DNIS	
	Reason Codes	
	Supervisor	
	System Parameters	
	After Call Work Codes	
	Compression	Present, Contact Center Solutions, LLC. All rights reserved.
	Change Password	
	Recover Password	
Done		✓ Trusted sites 🐴 • 🔍 100% • //

Populate the Vector Configuration Fields based on the information from the Communication Manager S8300 Server.

• Choose the ACD System from the pull-down menu. Populate the fields for Vector Number, Vector Name, and Vector Steps. Hit Submit.

<i>[[]</i> http://10	.64.10.	15/ - Vector Con	figura	tion - Windows Internet Ex	plorer			
				Vector Configur	ation			Submit
ACD Sys	tem	Server1 PBX		*				Cancel
Vector In	forma	tion						Insert Mode
Vector I	No	1					Schedule >	
Vector I	Name	TestVector1					Activate/Override	>
Add Ste	p D	elete Step					Sync To ACD Sys	>
	No	Command						
Select	1	wait-time	Ŧ	0 secs 💌 hearing	silence			
Select	2	route-to	Ŧ	number 💌 5510	with	n cov 🗖 🔽 if	unconditionally	
Select	3	stop	•					
Select	4		v					
Select	5		v					
Select	6		Ŧ					
Select	7		Ŧ					
Select	8		Ŧ					
Select	9		Ŧ					
Select	10		Ŧ					
Select	11		Ŧ					
Select	12		Ŧ					
Select	13		~					
Select	14		~					
Select	15		Ŧ					
Select	16		Ŧ					
					1			
•								>
Done							/ Trusted sites	🐴 🕶 🔍 100% 🔹 🎢

6.5. Administer VDNs

From the Main Menu, select **Configuration** -> **VDNs** from the left pane.



Populate the VDN Configuration Fields based on the information from the Communication Manager S8300 Server.

- Choose the ACD System from the pull-down menu. Populate the fields for VDN Number, VDN Name, Vector No, and any other thresholds that need to be set. Hit Submit.
- For test purposes, the fields ACD System, VDN No., VDN Name, Vector No., and COR were populated. The rest of the fields were left at the default values.

///10.64.10.15/ - VDN Configuration - Wir	dows Internet Explore	r						
VDN Configuration Vector >								
ACD System Server1 PBX	• Sort	VDN by Numb	er VDN List All					
VDN Information								
VDN Number 5610 Te	stVDN 💌	Vector No 🛛	•					
VDN Name TestVDN		Automatic	Scheduling 🗆 Record is InActive					
Allow Override								
Call Threshold	Collection Interval	TH1 TH2	Bell COR					
Total Number of Call Waiting(NCW)		0 0	N 💌 1					
Call Waiting Threshold(CWT)		0 0	N 💌 1st Skill					
Number of Calls Rerouted(CRR)	10 Minutes 💌	0 0						
Number of Calls Abandoned(ABN)	10 Minutes 💌	0 0						
Number of Calls Handled(NCH)	10 Minutes 💌	0 0	N 2nd Skill					
Number of Calls Offered(NCO)	10 Minutes 💌	0 0						
Average Speed of Answer(ASA)	10 Minutes 💌	0						
Percent Abandon(%ABN)	10 Minutes 💌	0	N					
Average Delay to Abandon(ADA)	10 Minutes 💌	0						
Acceptable Grade of Service %(GOS	5) 10 Minutes 🗾 💌	0	NV					
Call Answer Threshold for GOS		0						
Last Modified 12/21/2009 4:36:14	PM							
Request Processed			43					
Submit Insert Dele	< Previo	Next >						
			Trusted sites	00% • <i>//.</i>				

Repeat population of the fields for each VDN that is added. Once added, they can be viewed in the pull-down window list.

<i>[[]</i> http://10.64.10.15/ - VI	DN Configuration - Win	dows Internet Explo	orer				_ 🗆 🗙
		VDN Configu	iration			Vector >	*
ACD System	Server1 PBX Sort VDN by Number VDN List All						
VDN Information							
VDN Number	5612 💽 Tes	st∨DN2	Vector	No 1	•		
VDN Name	TestVDN2 Tes	tVDN tVDN2	¹⁵ Auto	omatic Sc	hedulin	g 🗆 Record is InActive	
Allow Override	N 🔽 Def	ault					
Call Threshold		Collection Interv	al TH1	TH2	Bell	COR	
Total Number of C	all Waiting(NCW)		0	0	N 🔻	1	
Call Waiting Three	shold(CWT)		0	0	N 💌	1st Skill	
Number of Calls R	lerouted(CRR)	10 Minutes	• 0	0	Ν 💌	•	
Number of Calls A	bandoned(ABN)	10 Minutes	• 0	0	Ν 💌		
Number of Calls H	[andled(NCH)	10 Minutes	• 0	0	N 💌	2nd Skill	
Number of Calls O	ffered(NCO)	10 Minutes	• 0	0	N 💌	v	
Average Speed of	Answer(ASA)	10 Minutes	• 0		N 💌		
Fercent Abandon(%ABN)	10 Minutes	• 0		N 💌	3rd Skill	
Average Delay to .	Abandon(ADA)	10 Minutes	• 0		N 💌	•	
Acceptable Grade	of Service %(GOS) 10 Minutes	- 0		N 💌		
Call Answer Thres	hold for GOS		0				
Last Modified 12/21/2009 4:37:18 PM							
Request Processed							
Submit	nsert Delet	e < Pre	vious	Next >			
							<u>~</u>
					🚽 🗸 Tru	isted sites 🛛 🖓 🕶 🔍 1	00% • //.

6.6. Administer Agents

From the Main Menu, select **Configuration** -> **Agents** from the left pane.

Select the Agents tab, and click Add new record to add a new agent.



Populate the **Agent Configuration** fields based on the information from the Communication Manager S8300 Server.

• Choose the ACD System from the pull-down menu. Populate the fields for Agent Information, including Agent ID and Agent Name. Set other parameters as needed. Hit Submit.

// http://10.64.10.15/ - Agent Configuration - Windows Internet Explore	r							
Agent Configuration								
ACD System Server1 PBX								
Agent Information Skill	Sele	tion						
Agent ID 5310	Level	Skill No.	Skill Name	Priority				
Agent Name AGENT 1	1	10 💌	TESTHUNT	1 💌				
	2	 Image: A set of the set of the		•				
	3	•		•				
Automatic Login 🗆 Automatic AVAIL 🗆	4	•	V	-				
Desktop Template	5	•	•	•				
COR 1 Auto Answer	6	•	•	•				
Agent Ext. No. 5200	7	•	_	•				
Miscellaneous	8	•	•	•				
Team 0 V	9	-	•	-	1			
After ACD call, phone will remain in ACW mode Indefinitely.	10	•	_	•	1			
Forced ACW Code			12]			
Submit Cancel Insert Mode								
			Trusted sites		💐 100% 🔹			

Repeat this section to add the remaining agents. Agents that were previously added can be modified using the pull-down menu under **Agent ID** or **Agent Name**.

Chttp://10.64.10.15/ - Agent Configuration - Windows Internet Explorer									
Agent Configuration									
ACD System	Server1 PBX	Sort Ag	gen	t by ID	 Agent List 	All	•		
Agent Information	a	Skill So	elec	tion					
Agent ID	5319 Agent 10 💌	Le	vel	Skill No.	Skill Name	Priority			
Agent Name	5310		1	12 💌	TESTHUNT2	1 💌			
	5312		2	•	•				
	5313 5314		2		-				
	5315		2						
Automatic Login	5316 matic AVAIL	Ľ	4	_					
Desktop Templa	5318		5	•					
Telephone			6	•			1		
COR 1	Auto Answer none		,						
Agent Ext. No.	6209		_						
Teem			8	_					
After Call Work	(ACW) Time DBY Controlled		9	•	·				
Check "ACW Tim	e" for skills (0 means immediate to Avail).	1	0	•					
Forced ACW Co	de 🗆				1 <u>2</u>	-1			
Last Modified	12/21/2009 4:31:42 PM								
Request Processed									
Submit	Insert Delete < Previou	IS	Ne	xt >					
							-		
					Trusted sites	· · ·	💐 100% 🔻 🏿		

6.7. Administer Supervisor(s)

From the Main Menu, select **Configuration** -> **Supervisor** from the left pane.

<i>[[</i>] http://10.64.10.15/ -	Customer Experience Reporting Sup	ervisor : SUPERUSER - Windows Internet Explorer				
Main Menu:		<u>A</u> AB				
Configuration	Skills	1985				
Reports	Teams					
Real Time	Desktop Templates					
	Agents	Contact Center Solutions				
	Vectors					
	VDNs	er Experience Reporting Supervisor				
	Trunks	Version 1.1.ACDCL 5				
	DNIS					
	Reason Codes					
	Supervisor					
	System Parameters					
	After Call Work Codes					
	Compression	Present Contact Contar Solutions IIC All rights recorded				
	Change Password	Tresent, Contact Center Solutions, EEC. Marignes reserved.				
	Recover Password					
		-				
Done	-	Trusted sites	00% • <i>//</i> .			

Populate the **Supervisor Configuration** fields based on the information from the Communication Manager S8300 Server.

• Choose the ACD System from the pull-down menu. Populate the fields for Supervisor Information, including Supervisor Login Name and Supervisor Login ID. Set other parameters as needed, including ACD Skills, ACD Teams, and ACD VDNs that the Supervisor will monitor. Hit Submit.

// http://10.64.10.15/ - Supervisor Configuration - Windows Internet Explorer							
	Supervisor C	onfiguration	*				
ACD System	Server1 PBX	Sort Supervisor by					
Supervisor Information							
Supervisor Login Name	Skill1 Super						
Supervisor Login ID	skill1	Login Limit : 1					
Features :	Telephone :						
Features	Ext. No.						
Viewable Supervisor Enti	ties :						
ACD Skills	ACD Teams	ACD VDNs					
Insert Delete	Insert Delete	Insert Delete					
10 : TESTHUNT		5610 : TestVDN					
h	2						
Submit Cancel	Insert Mode						
Subilit			-				
Done		Trusted sites	🔬 🗸 🔍 100% 🔹 🏑				

Populate the **Supervisor Feature Configuration** fields based on the information from the Communication Manager S8300 Server.

• Check the fields shown in the following screen shot for Skill Displays, VDN Displays, Reports, Utility, and Vector. Set the Configuration and Administration Privileges and shown in the screen below. This sets administrative privileges or restrictions of the Supervisor in CER. Hit Apply.

Bupervisor Feature Configuration	Webpage Dialog		×
	Supervisor Feature Co	nfiguration	A
Feature Names	Feature Names	Feature Names	
Skill Displays	Reports	Configuration and Administration	Privilege
🗹 Skill Agent Status	🗹 On Demand Reports	Skills	Full 💌
Agent State Notify	🗹 Scheduled Reports	Teams	None 💌
🗆 External Outgoing Call	🗹 Scheduled Reports All	Agent Desktop Templates	None 💌
🗆 External Incoming Call	🗹 Call Track Reports	Agents	View 💌
🗆 Internal Call	Configuration Reports	Announcements	None 💌
\Box ACD IN	🗹 Global Report View	Vectors	View 💌
RONA	Utility	Vector Scheduling	None 💌
\Box ACW	🗖 Recover Password	VDNs	None 💌
\Box AUX	Change Password	Trunk Groups	None 💌
🗹 Team Agent Status	🗹 Agent Control	Trunks	None 💌
🗹 Skill Status	🗆 Database Compression	DNIS	None 💌
🗹 Skill Status Graphs	Vector	Reason Codes	Modify 💌
VDN Displays	🗹 Activate	Supervisor	None 💌
🗹 VDN Call	🗹 Override	Supervisor Features	None 💌
🗹 VDN Call Graphs 📐	🗹 Emergency Override	System Parameters	None 💌
🗹 Call Info		ACW Codes	View ▼
	Apply CI	ose	<i>₽</i>
			<u> </u>

6.8. Web Client Installation

Bring up a browser and type in <ip-address/acd>. The screen that appears allows the end user to download the client. Click on **Configure .NET Framework for Web Client**.



At the Configure screen, choose one of the two links to set up the client. In this case, the second link, **Configure .NET Framework to execute for Any IP Address** was used.



Choose either Run or Save to download the client.

File Dow	rnload - Security Warning 🛛 🔀
Do you	u want to run or save this file?
18	Name: AnyIpAddress20.msi Type: Windows Installer Package, 53.0 KB From: 10.64.10.15
	<u>R</u> un <u>S</u> ave Cancel
١	While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. <u>What's the risk?</u>

SMH; Reviewed: SPOC 1/26/2010

Solution & Interoperability Test Lab Application Notes ©2010 Avaya Inc. All Rights Reserved. Once the client is downloaded, type into the browser http://ip-address/acdclient, where ip-address is the IP address of the Customer Experience Reporting server. This brings up a login page. Log in with the appropriate credentials. Both Agents and Supervisors will log in using this method.

CCS Customer Experience Reporting Application - Windows Internet Explorer	
<u>File Edit View Favorites Iools H</u> elp	
Google Search * 🔶 🧭 * 🧭) » 🔦 + 🔵 Sign In +
🚖 🏟 🏈 CCS Customer Experience Reporting Application 👘 🔹 🗟 🔹 🖶) ▼ <u>Page</u> ▼ () T <u>o</u> ols ▼ [≫]
Welcome to CCS Customer Experience Reporting Customer Experience Reporting Client 1.1.ACDCL.6 Copyright© 2009 to Present, Contact Center Solutions, LLC All rights reserved Login Login Login Login	
Done	et 100% 🔹 💡

6.9. Accessing Instant Messaging

Log into the Web Client. Once logged in, select a server to log into. Hit Submit.

🖉 CCS Customer Experience Reporting Application - Windows Internet Explorer
<u>File Edit Vi</u> ew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp
Google Search 🔹 🍏 🖉 👋 🛀 💮 Sign In 🔹
😭 🏟 🎉 CCS Customer Experience Reporting Application 🌇 🔹 🗟 🔹 🖶 🔹 📴 Page 🔹 🍈 Tools 🔹 🎽
Welcome to CCS Customer Experience Reporting
Customer Experience Reporting Client 1.1.ACDCL.6
Copyright© 2009 to Present, Contact Center Solutions, LLC All rights reserved
Please make your selection(s):
Available Connection: 1 Name: superuser
Select PBXName Status Type
Server1 PBX Access permitted. Supervisor
Submit
Done 🙀 100% 👻

Once access is granted, the end user will see the screen below. The Agent can hit the Login button to log in. In order to initiate a Messenger session, choose **Tools -> Messenger**.

🖉 VoiceAgent - Windows Internet Explorer						
http://10.64.10.15/acdclient/Voi	http://10.64.10.15/acdclient/VoiceAgent.aspx					
File Reports	🂫 Tools 🛛 🙀 Help					
agentone AgentID: 5310	Extension: 5200 Time in State: 00:00:00					
Connected	1/12/2010 10:18:48 AM Server1 PBX	li.				
Done	😱 🚭 Internet	🔍 100% 🔻 💡				

This brings up an Instant Messenger Window.

🔜 Instant N	lessenger:	5310			
SMS Chat					
Name	Туре	Status	Location	ACD System	Make Calls

When additional Agents and Supervisors are online, that information is shown at the bottom of the screen with **Name** listed in blue. A chat session is initiated using the **Make Call** button. Chat can be seen in the top window in blue. More than one chat session can take place and can be seen with the multiple tabs, as seen in the screen below.

🔡 Instant Me	essenger:	superuser					
Skill1 super 32	7808 Age	nt One 39334	4				
ConnectingF Agent One> I'n superuser> Ple Agent One> Co	Please wait. n starving. I ase take yo ool, thanks!	can feel my ril ur break now,]	bs! we will be busy la	ater			
				Send	Disconn	ect	
Name	Туре	Status	Location	ACD	System	Make Calls	
Skill1 su Agent O	Superviso Voice	rOnLine OnLine	10.64.10.50 10.64.10.52	1 1		Make Call Make Call	

7. General Test Approach and Test Results

All feature functionality test cases were performed manually to verify proper operation. The following scenarios were tested using the test configuration diagram shown in **Figure 1**.

The installation test cases were covered with the setup of Communication Manager, Application Enablement Services, and Customer Experience Reporting. The clean removal of the application was also covered in this section.

The functionality test cases were performed manually. Various calls were placed including incoming PSTN calls to the hunt groups, and incoming and outgoing personal calls from the agents.

The serviceability test cases were performed manually by disconnecting and reconnecting the Ethernet cable to an IP telephone, the Customer Experience Reporting server, and Communication Manager, and also by busying out the CTI port connection to Application Enablement Services from Communication Manager.

The verification of tests included manually checking of agent and VDN status from the various reports using the Customer Experience Reporting portal, checking system status via the Admin Console, and checking the accuracy of the historical reports over multiple test days from the portal.

All test cases passed. No errors were detected.

8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Communication Manager, Application Enablement Services, and Customer Experience Reporting.

For Communication Manager, check the CTI Link status with the **status aesvcs cti-link** command. The link status should show **no** for maintenance busy (**Mnt Busy**) and the **Service State** should indicate **established**.

🔤 Teln	Telnet 10.64.10.10								
statu	s aesvcs	cti-li	nk				▲		
	AE SERVICES CTI LINK STATUS								
C <u>N</u> Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Rcvd			
12	44	NO NO	AES AES	established established	14 3	14 4			
Comman	nd succes	sfully	completed						
Comman ESC-x:	nd : =Cancel E	sc-e=Su	ubmit Esc-p=Prev	Pg Esc-n=Next	Pg Esc-h=	Help Esc-r=Refr	•esh 💌		

For Application Enablement Services, the **TSAPI Service** should show as **Running**, **ONLINE**, and **Yes** for **Licenses Purchased**.



In the Customer Experience Reporting Admin Console, the **System Status** box should show as green, and all other Services on this screen (**ACD_APP**, **ACD_SERVER**, **ACD_WEB**, **ADMIN**, **AMS**, **AVAYAC**, **EMAIL**, and **NCTS**) should be up and executing.



In the Skill Agent Status Report, Customer Experience Reporting shows all of the Agents that have been configured and their status real-time status.

Agent Summary																			
Agents	ACD IN	AVAIL	ACW	EXT OUT	AUX	INT	EXT IN	UNAV	AIL HELD	RING	DIAL	GOS	NCW	LCW	>TH1	>TH2	ASA	%ABN	
	0	4	0	0	1	0	0	0	0	0	0	100	0	0	0	0	0	0	
Detail Agent Status																			
D A	Ext #	Nam	ie	Skill	Τe	am	Alert	Pri	State	CI	St Tim	e Lo	g In/C)ut Tir	ne	Rea	son		
5310	5200	AGEN	Т1	10	0			1	AVAIL		00:00:54	12/2	1/2009	05:07:3	OPM				
311	5201	Agent	2	10	0			1	AVAIL		00:00:44	12/2	21/2009	05:07:4	1PM				
312	5202	Agent	3	10					LOGOUT		00:00:00								
313	5203	Agent	4	10	0			1	AVAIL		00:01:04	12/2	21/2009	05:07:2	OPM				
314	5204	Agent	5	10	0			1	AUX		00:00:24	12/2	21/2009	05:07:5	9PM				
315	5205	Agent	6	12	0			1	AVAIL		00:00:04	12/2	21/2009	05:08:1	OPM				
316	5206	Agent	7	12					LOGOUT		00:00:00								
317	5207	Agent	8	12					LOGOUT		00:00:00								
318	5208	Agent	9	12					LOGOUT		00:00:00								
319	5209	Agent	10	12					LOGOUT		00:00:00								
			ß																

Once multiple calls are in progress and have been completed, the reporting can be verified with real time and historical reports, in this case by using the Skill Agent Status Report.

Skill Agent Status Report: superuser - (10:TESTHUNT, 12:TESTHUNT2)																		
Agent Summary																		
Agents	ACD IN	AVAIL	ACW	EXT OUT	AUX INT	EXT IN	UNAV	AIL HELD	RING	i DIAL	GOS	NCW	LCW	>TH1	>TH2	ASA	%ABN	
9	2	0	0	0	1 5	0	0	0	0	1	100	0	0	0	0	4	0	
Detail Agent Status																		
ID 🛆	Ext #	Nam	ne	Skil	l Team	Alert	Pri	State	CI	St Time	e Lo	og In/O	Dut Ti	me	Rea	son		
5310	5200	AGEN	T 1	10	0		1	INTERNAL		00:01:57	12/	21/200	9 05:31	I:47PM				
5311	5201	Agent	2	10	0		1	INTERNAL	CI	00:02:07	12/	21/200	9 05:31	1:06PM				
5312	5202	Agent	3	10	0		1 📘	ACD IN	CI	00:02:13	12/	21/200	9 05:31	1:03PM				
5313	5203	Agent	4	10	0		1 📘	INTERNAL	CI	00:02:13	12/	21/200	9 05:31	1:29PM				
5314	5204	Agent	5	10	0		1	INTERNAL	CI	00:01:57	12/	21/200	9 05:30):59PM				
5315	5205	Agent	6	12	0		1 📘	ACD IN	CI	00:02:07	12/	21/200	9 05:31	1:25PM				
5316	5209	Agent	7	12	0		1	DIAL		00:00:57	12/	22/200	9 08:32	2:39AM				
5317	5207	Agent	8	12	N 0		1	INTERNAL	CI	00:01:17	12/	21/200	9 05:38	8:49PM				
5318	5208	Agent	9	12	Кю		1	AUX		00:52:00	12/	22/200	9 08:36	5:34AM				
5319	5209	Agent	10	12				LOGOUT		00:00:00								
Groupin	g Allin H	leader	•	🗆 Logge	d Off Agents	v	AllAge	ents		gent Stat	e Notiř	y S	Server1	PBX	•	12/22/	2009 9:29	3:10 AM

Once calls have been made, graphical representations of the data can be confirmed for multiple report types. Shown below are the representations for the reports including **Average Speed of Answer**, **% Waiting Calls**, and **Total Call Waiting**.



Additions and changes to the system can be verified using the **System Configuration Changes Report**.

Ø http:	://loc	alhost/acdclic									
I	H	🔊 - 🔇	S 4 J	1 / 2 😑	 109% - 		Find	-			
											_
and and		12-22-2009	1:01							Page 1 of 1	
éé -		Requested by	superuser		SVSTEM	CON	FIGURATION OF	IANCES REPORT			
		inquente i,	. soperne		SISIL		11000001101000				
						12-2	1-09 00:00 - 12-22-	09 23:59			
		Sup ID	Sup Name	Table Nam	e Mod	ie	Record			Modified Time	
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		1	SUPERUSER	Skill Group) Inse	rted	Group: 10			12-21-09 16:17	
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		1	SUPERUSER	Agent	Inse	rted	Agent: 5310		Ν	12-21-09 16:24	
		1	SUPERUSER	Agent	Mod	lified	Agent: 5310		43	12-21-09 16:25	
		1	SUPERUSER	Agent	Inse	rted	Agent: 5311			12-21-09 16:27	
		1	SUPERUSER	Agent	Inse	rted	Agent: 5312			12-21-09 16:27	
		1	SUPERUSER	Agent	Inse	rted	Agent: 5313			12-21-09 16:28	
		1	SUPERUSER	Agent	Inse	rted	Agent: 5314			12-21-09 16:28	
		1	SUPERUSER	Agent	Inse	rted	Agent: 5315			12-21-09 16:29	
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26		1	SUPERUSER	VDN	Inse	rted	VDN: 5610			12-21-09 16:36	
~		1	SUPERUSER	VDN	Inse	rted	VDN: 5612			12-21-09 16:37	
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9. Conclusion

Customer Experience Reporting was compliance tested with Communication Manager and Application Enablement Services. Customer Experience Reporting successfully monitored and produced reports on phone activity for agents and ACD/skill groups. All test cases completed successfully.

10. Additional References

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

The following Avaya product documentation can be found at <u>http://support.avaya.com</u>:

[1] Administering AvayaTM Communication Manager, Doc ID: 03-300509, Issue 5.0, Release 5.2, May 2009

[2] Avaya MultiVantage Application Enablement Services Administration and Maintenance Guide, Doc ID: 02-300357, Release 4.2, Issue 10, May 2008

[3] Customer Experience Reporting User's Guide, V1.1, available via request to <u>inquiries@ccscallcenters.com</u>

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