

Avaya Solution & Interoperability Test Lab

Application Notes for OpenText Qfiniti Survey 20.4 with Avaya Aura® Application Enablement Services 8.1.3 and Avaya Aura® Session Manager 8.1.3 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for OpenText Qfiniti Survey 20.4 to interoperate with Avaya Aura® Application Enablement Services 8.1.3, Avaya Aura® Session Manager 8.1.3, and Avaya Aura® Communication Manager 8.1.3. OpenText Qfiniti Survey is an inbound IVR-based survey system that is part of the OpenText Qfiniti product suite.

In the compliance testing, OpenText Qfiniti Survey used the Telephony Services Application Programming Interface from Avaya Aura® Application Enablement Services and SIP users with Avaya Aura® Session Manager to provide automated survey to inbound ACD callers.

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

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

1. Introduction

These Application Notes describe the configuration steps required for OpenText Qfiniti Survey (Survey) 20.4 to interoperate with Avaya Aura® Application Enablement Services 8.1.3, Avaya Aura® Session Manager 8.1.3, and Avaya Aura® Communication Manager 8.1.3. Survey is an inbound IVR-based survey system that is part of the Qfiniti product suite.

In the compliance testing, Survey used the Telephony Services Application Programming Interface (TSAPI) from Application Enablement Services and SIP users with Session Manager to provide automated survey to inbound ACD callers.

The TSAPI interface is used by Survey to monitor skill groups, agent stations, and virtual SIP users. The SIP user interface is used by Survey to register virtual SIP users with Session Manager for connecting inbound ACD callers to Survey. The virtual SIP users are configured as members of a hunt group on Communication Manager.

Survey supports various modes, and the compliance testing used the agent transfer mode with agent verbally offering survey to PSTN callers toward end of inbound ACD call and performs unsupervised transfer of agreed callers to the Survey hunt group.

Upon connection of PSTN caller with Survey caller via an available virtual SIP user, Survey plays pertinent survey questions and collects responses via DTMF selections. Survey can also record PSTN caller voice responses for open-ended questions such as additional comments and performs immediate transfer of PSTN caller to supervisor via SIP REFER upon meeting specific criteria.

2. General Test Approach and Test Results

The feature test cases were performed both automatically and manually. Upon start of the Survey application, the application automatically used SIP to register the virtual SIP users, and TSAPI to request monitoring of skill groups, agent stations, and virtual SIP users.

For the manual part of testing, survey calls were manually transferred by agents to the Survey hunt group. DTMF and voice input were provided as responses to pertinent survey questions.

The verification of tests included use of Qfiniti web interface for proper logging of survey results and playback of voice responses.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in these DevConnect Application Notes included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Note, the interfaces between Avaya systems and Survey did not include use of any specific encryption features as requested by OpenText.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on verifying the following on Survey:

- Handling of TSAPI messages in areas of event notification and value queries.
- Handling of SIP messages in areas of registration, G.711, media shuffling, codec negotiation, session refresh, REFER, and inbound DTMF.
- Proper handling of survey results for scenarios involving agent transfer, abandon, no response, partial response, complete response, voice response recording and playback, immediate transfer to supervisor, and multiple agents.

The serviceability testing focused on verifying the ability of Survey to recover from adverse conditions, such as disconnecting/reconnecting the Ethernet connection to Survey.

2.2. Test Results

All test cases were executed, and the following were observations on Survey:

- By design, Survey does not log the PSTN calling number as part of survey results. If required by customer, this can be accomplished via scripting changes on Survey.
- Survey does not support SRTP nor SDP capability negotiation. As such, the compliance testing used a separate set of network region and codec set in Communication Manager for integration with Survey.

2.3. Support

Technical support on Survey can be obtained through the following:

- **Phone:** (800) 540-7292
- Web: <u>http://engage.opentext.com/products/qfiniti</u>

3. Reference Configuration

The configuration used for the compliance testing is shown in **Figure 1**, with "**dr220.com**" being the domain name. The configuration of Session Manager is performed via the web interface of System Manager. The detailed administration of basic connectivity between Communication Manager, Application Enablement Services, System Manager, Session Manager, and of call center devices are not the focus of these Application Notes and will not be described.

In the compliance testing, Survey monitored the skill groups and agent station extensions shown in the table below.

Device Type	Extension
Skill Group	61001, 61002
Agent Station	65001 (H.323), 66006 (SIP)
Agent ID	65881, 65882
Supervisor Station	65000



Figure 1: Compliance Testing Configuration

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4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya Aura® Communication Manager in Virtual Environment	8.1.3 (8.1.3.3.1.890.27168)
Avaya G650 Media Gateway	NA
Avaya Aura® Media Server in Virtual Environment	8.0.2.200
Avaya Aura® Application Enablement Services in Virtual Environment	8.1.3.3.0.4-0
Avaya Aura® Session Manager in Virtual Environment	8.1.3 (8.1.3.3.813310)
Avaya Aura® System Manager in Virtual Environment	8.1.3 (8.1.3.3.1013878)
Avaya Session Border Controller for Enterprise in Virtual Environment	8.1.2 (8.1.2.0-31-19809)
Avaya Agent for Desktop (H.323 & SIP)	2.0.6.17.3006
Avaya J179 & 9611G IP Deskphone (H.323)	6.8511
Avaya J169 IP Deskphone (SIP)	4.0.10.3.2
OpenText Qfiniti on Microsoft Windows Server 2019 • Avaya TSAPI Windows Client (csta32.dll)	20.4.0 with QF-18193 & QF-18501 Standard 8.1.3.25

5. Configure Avaya Aura® Communication Manager

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

- Verify license
- Administer CTI link
- Administer hunt group
- Administer codec set
- Administer network region
- Administer network region map

5.1. Verify License

Log in to the System Access Terminal to verify that the Communication Manager license has proper permissions for features illustrated in these Application Notes. Use the "**display system-parameters customer-options**" command to verify that there is sufficient license for SIP stations by comparing the **Maximum Off-PBX Telephones – OPS** field value with the corresponding value in the **USED** column.

display system-parameters	customer-options OPTIONAL FEATURES		Page	1 of 12	
G3 Version: V18 Location: 2 Platform: 28	Sof Sy Mo	tware Packag stem ID (SID dule ID (MID	e: Ente): 1): 1	erprise	
		USED			
	Platform Maximum Ports:	81000 21	7		
	Maximum Stations:	41000 2	3		
	Maximum XMOBILE Stations:	41000	0		
Maximum O:	ff-PBX Telephones - EC500:	41000	0		
Maximum O:	ff-PBX Telephones - OPS:	41000	6		

Navigate to **Page 4** and verify that **Computer Telephony Adjunct Links** is enabled. If not enabled, then contact the Avaya sales team or business partner for a proper license file.

display system-parameters customer-option	s Page 4 of 12
OPTIONAL 1	FEATURES
Abbreviated Dialing Enhanced List? y	Audible Message Waiting? y
Access Security Gateway (ASG)? n	Authorization Codes? y
Analog Trunk Incoming Call ID? y	CAS Branch? n
A/D Grp/Sys List Dialing Start at 01? y	CAS Main? n
Answer Supervision by Call Classifier? y	Change COR by FAC? n
ARS? y	Computer Telephony Adjunct Links? y

5.2. Administer CTI Link

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

Enter "**ADJ-IP**" in the **Type** field, and a descriptive name in the **Name** field. Default values may be used in the remaining fields.

```
add cti-link 1 Page 1 of 3

CTI LINK

CTI Link: 1

Extension: 60111

Type: ADJ-IP

COR: 1

Name: AES CTI Link

Unicode Name? n
```

5.3. Administer Hunt Group

After the virtual SIP users have been created in **Section 7.3**, add a hunt group with virtual SIP users as members to route calls to Survey. Use the "**add hunt-group n**" command, where "**n**" is an available hunt group number. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Group Number: The available group number.
- **Group Name:** A descriptive name.
- Group Extension: An available extension number.

```
      add hunt-group 3
      Page
      1 of
      60

      HUNT GROUP
      ACD? n
      ACD? N</td
```

Navigate to Page 3 and enter extensions of all virtual SIP users from Section 7.3 as members.

add hunt-group 3 Page **3** of 60 HUNT GROUP Group Number: 3 Group Extension: 61003 Group Type: ucd-mia Member Range Allowed: 1 - 1500 Administered Members (min/max): 0 /0 Total Administered Members: 0 GROUP MEMBER ASSIGNMENTS Name(16 characters) Ext Ext Name(16 characters) 1: 66991 14: 2: 66992 15: 16: 3:

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5.4. Administer Codec Set

Administer a codec set for integration with Survey. Use the "**change ip-codec-set n**" command, where "**n**" is an existing codec set number to use for interoperability.

For Audio Codec, enter the pertinent G.711 variant as shown below. Note that G.711 is the only codec type supported by Survey. For Media Encryption and Encrypted SRTCP, enter "none" and "enforce-unenc-srtcp" as shown below. Retain the default values for the remaining fields.

```
change ip-codec-set 3
                                                                           Page
                                                                                   1 of
                                                                                           2
                              IP MEDIA PARAMETERS
    Codec Set: 3
AudioSilenceFramesPacketCodecSuppressionPer PktSize(ms)1: G.711MUn220
 2:
 3:
 4:
 5:
 6:
 7:
     Media Encryption
                                              Encrypted SRTCP: enforce-unenc-srtcp
1: none
```

5.5. Administer Network Region

Administer a network region for integration with Survey. Use the "**change ip-network-region n**" command, where "**n**" is an existing network region number to use for interoperability.

Enter the following values for the specified fields and retain the default values for the remaining fields.

- Authoritative Domain: The SIP domain from Section 3.
- Name: A descriptive name.
- Codec Set: The codec set number from Section 5.4.

Enter "no" for Intra-region IP-IP Direct Audio and Inter-region IP-IP Direct Audio.

```
      change ip-network-region 3
      Page
      1 of
      20

      IP NETWORK REGION

      Region: 3
      NR Group: 3

      Location:
      Authoritative Domain: dr220.com
      4

      Name: Survey
      Stub Network Region: n
      5

      MEDIA PARAMETERS
      Intra-region IP-IP Direct Audio: no
      5

      Odec Set: 3
      Inter-region IP-IP Direct Audio: no
      5

      UDP Port Min: 2048
      IP Audio Hairpinning? n
      5

      UDP Port Max: 3329
      DIFFSERV/TOS PARAMETERS
      5

      Call Control PHB Value: 46
      5
      5
```

Solution & Interoperability Test Lab Application Notes ©2022 Avaya Inc. All Rights Reserved. Navigate to **page 4**, locate the entry associated with the network region assigned to the agent stations, in this case "1". For **codec set**, enter the codec set value from above as shown below, to enable the Survey codec set to be used for calls with agent stations.

```
change ip-network-region 3
                                                                4 of 20
                                                         Page
Source Region: 3 Inter Network Region Connection Management
                                                             Т
                                                                     М
                                                             GΑ
                                                                     t
dst codec direct WAN-BW-limits Video Intervening
                                                        Dyn A G
CAC R L
                                                                     С
rgn set WAN Units Total Norm Prio Shr Regions
                                                                     е
1
     3
          y NoLimit
                                                              n
                                                                     t
2
3
     3
                                                                all
4
5
6
```

5.6. Administer Network Region Map

Use the "**change ip-network-map**" command to map virtual SIP users to the network region configured for integration with Survey.

For **IP Address**, enter IP address of the Survey server. For **Network Reg**, enter the network region number from **Section 5.5**.

change ip-network-map	IP ADDRESS M	MAPPING			Page	l of	63
IP Address		Subn Bits	et Netw Reg	ork VLAN	Emergen Locatic	cy n Ext	
FROM: 10.64.101.202 TO: 10.64.101.202		/	3	n			
FROM: TO:		/		n			

6. Configure Avaya Aura® Application Enablement Services

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

- Launch OAM interface
- Verify license
- Administer TSAPI link
- Administer Survey user
- Administer security database
- Restart services

6.1. Launch OAM Interface

Access the 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 **Please login here** screen is displayed. Log in using the appropriate credentials.

AVAYA	Application Enablement Services Management Console	
	Please login here: Username Continue	Help
	Copyright © 2009-2020 Avaya Inc. All Rights Reserved.	

The Welcome to OAM screen is displayed next.

	ation Enablement Services Management Console	Welcome: User Last login: Tue Jan 18 15:44:45 2022 from 192.168.200.20 Number of prior failed login attempts: 0 HostName/IP: aes7/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.1.3.3.0.4-0 Server Date and Time: Tue Jan 18 16:50:09 EST 2022 HA Status: Not Configured
Home		Home Help Logout
AE Services		
Communication Manager Interface	Welcome to OAM	
High Availability	The AE Services Operations Administration and I	Management (OAM) Web provides you with tools
▶ Licensing	for managing the AE Server. OAM spans the follow	ving administrative domains:
Maintenance	 AE Services - Use AE Services to manage a the AE Service 	all AE Services that you are licensed to use on
Networking	Communication Manager Interface - Use C with the manager interface - Use C	communication Manager Interface to manage
▶ Security	High Availability - Use High Availability to r	manage AE Services HA.
▶ Status	Licensing - Use Licensing to manage the in Maintenance - Use Maintenance to manage	e the routine maintenance tasks.
▶ User Management	 Networking - Use Networking to manage to Security - Use Security to manage Linux u 	he network interfaces and ports. ser accounts, certificate, host authentication and
> Utilities	 authorization, configure Linux-PAM (Plugga Status - Use Status to obtain server status 	able Authentication Modules for Linux) and so on. s informations.
▶ Help	 User Management - Use User Management user-related resources. 	t to manage AE Services users and AE Services
	 Utilities - Use Utilities to carry out basic co Help - Use Help to obtain a few tips for usi 	nnectivity tests. ng the OAM Help system
	Depending on your business requirements, these administrator for all domains, or a separate admin	administrative domains can be served by one nistrator for each domain.

6.2. Verify License

Select Licensing \rightarrow WebLM Server Access in the left pane, to display the applicable WebLM server log in screen (not shown). Log in using the appropriate credentials and navigate to display installed licenses (not shown).



Solution & Interoperability Test Lab Application Notes ©2022 Avaya Inc. All Rights Reserved. Select Licensed products \rightarrow APPL_ENAB \rightarrow Application_Enablement in the left pane, to display the Application Enablement (CTI) screen in the right pane.

Verify that there are sufficient licenses for **TSAPI Simultaneous Users**, as shown below.

Avra® Syste	▲ Users ∨ ۶ Elements ∨ em Manager 8.1	🌣 Services 🗸 Widgets 🗸 Shi	ortcuts ~ Search 🔶 🗮 📔	
Home	Licenses			
L	WebLM Home	Application Enablement (CTI) - Rele	ase: 8 - SID: 10503000 (Enterprise license	
	Install license	You are here: Licensed Products > Application Enablement > View by Feature		
	Licensed products			
	APPL_ENAB	License installed on: August 8, 2019 4:4	3:51 PM -05:00	
	 Application_Enablement 	License File Host IDs: VE-83-02-2D-2	26-52-01	
	View by feature			
	View by local WebLM	Feature (License Keyword)	License Capacity	
	Enterprise configuration	Unified CC API Desktop Edition	1000	
	Local WebLM Configuration	(VALUE_AES_AEC_UNIFIED_CC_DESKTOP)		
	► Usages	(VALUE_AES_CVLAN_ASAI)	16	
	► Allocations	Device Media and Call Control (VALUE AES DMCC DMC)	1000	
	Periodic status	AES ADVANCED SMALL SWITCH (VALUE_AES_AEC_SMALL_ADVANCED)	3	
	ASBCE			
	Session_Border_Controller_E_AE	DLG (VALUE_AES_DLG)	16	
	 Avaya_Proactive_Contact 	TSAPI Simultaneous Users (VALUE AFS TSAPI USERS)	1000	
	CCTR	AES ADVANCED LARGE SWITCH		
	ContactCenter	(VALUE_AES_AEC_LARGE_ADVANCED)	3	
>	COMMUNICATION_MANAGER	CVLAN Proprietary Links (VALUE_AES_PROPRIETARY_LINKS)	16	

6.3. Administer TSAPI Link

Select AE Services \rightarrow TSAPI \rightarrow TSAPI Links from the left pane of the Management Console, to administer a TSAPI link. The TSAPI Links screen is displayed, as shown below. Click Add Link.

AVAYA App	Application Enablement Services Management Console		Welcome: User Last login: Tue Jan 18 15:44:45 2022 from 192.168.200. Number of prior failed login attempts: 0 HostName/IP: aes7/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.1.3.3.0.4-0 Server Date and Time: Tue Jan 18 16:50:09 EST 2022 HA Status: Not Configured		
AE Services TSAPI TSAPI Li	nks		Hom	e Help Logout	
▼ AE Services					
▶ CVLAN	TSAPI Links				
▶ DLG	Link Switch Connection	Switch CTI Link #	ASAI Link Version	Security	
▶ DMCC	Add Link Edit Link Delete Link				
▶ SMS					
▼ TSAPI					
TSAPI Links TSAPI Properties					

The **Add 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 "**cm7**". For **Switch CTI Link Number**, select the CTI link number from **Section 5.2**.

Retain the default value for **ASAI Link Version** and set **Security** to the desired value, in this case "**Both**" to allow for both encrypted and non-encrypted connections.

avaya	Application Enablement Services Management Console	Welcome: User Last login: Tue Jan 18 15:44:45 2022 from 192.168.200.20 Number of prior failed login attempts: 0 HostName/IP: aes7/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.1.3.3.0.4-0 Server Date and Time: Tue Jan 18 16:50:09 EST 2022 HA Status: Not Configured
AE Services TSAPI 1	ISAPI Links	Home Help Logout
▼ AE Services		
► CVLAN	Add TSAPI Links	
▶ DLG	Link 1	
► DMCC	Switch Connection Cm7 V	
▶ SMS	Switch CTI Link Number 1 🗸	
TSAPI	ASAI Link Version 12 🗸	
 TSAPI Links TSAPI Propertie 	es Security Both	ettings
> TWS		

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6.4. Administer Survey User

Select User Management \rightarrow User Admin \rightarrow Add User from the left pane, to display the Add User screen in the right pane.

Enter desired values for User Id, Common Name, Surname, User Password, and Confirm Password. For CT User, select "Yes" from the drop-down list. Retain the default value in the remaining fields.

AVAYA Application Enablement Services Management Console			Welcome: User Last login: Tue Jan 18 15:44:45 2022 from 192.168.200.2 Number of prior failed login attempts: 0 HostName/IP: aes7/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.1.3.3.0.4-0 Server Date and Time: Tue Jan 18 16:50:09 EST 2022 HA Status: Not Configured
User Management User Admin	Add User		Home Help Logo
 AE Services Communication Manager Interface High Availability Licensing Maintenance Networking Security Status User Management Service Admin User Admin Add User Change User Password List All Users Modify Default Users Search Users 	Add User Fields marked with * can * User Id * Common Name * Surname * User Password * Confirm Password Admin Note Avaya Role Business Category Car License CM Home Css Home CT User Department Number Display Name Employee Number	not be empty. qfiniti qfiniti qfiniti ••••••••••••••••••••••••••••••••••••	
▶ Help	Employee Type Enterprise Handle		
	Given Name		

6.5. Administer Security Database

Select Security \rightarrow Security Database \rightarrow Control from the left pane, to display the SDB Control for DMCC, TSAPI, JTAPI and Telephony Web Services screen in the right pane. Make certain that both parameters are unchecked, as shown below.

In the case that the security database is used by the customer with parameters already enabled, then follow reference [2] to configure access privileges for the Survey user from Section 6.4.

	cation Enablement Services Management Console	Welcome: User Last login: Tue Jan 18 15:44:45 2022 from 192.168.200.20 Number of prior failed login attempts: 0 HostName/IP: aes7/10.64.101.239 Server Offer Type: VIRTUAL_APPLIANCE_ON_VMWARE SW Version: 8.1.3.3.0.4-0 Server Date and Time: Tue Jan 18 16:50:09 EST 2022 HA Status: Not Configured
Security Security Database Cor	ntrol	Home Help Logout
▶ AE Services		
Communication Manager Interface	SDB Control for DMCC, TSAPI, JTAPI and Telep	phony Web Services
High Availability	Enable SDB for DMCC Service	
▶ Licensing	Enable SDB for TSAPI Service, JTAPI and Telep	hony Web Services
Maintenance	Apply Changes	
Networking		
▼ Security		
Account Management		
Audit		
Certificate Management		
Enterprise Directory		
▶ Host AA		
▶ PAM		
 Security Database 		
Control		

6.6. Restart Service

Select Maintenance \rightarrow Service Controller from the left pane, to display the Service Controller screen in the right pane. Check TSAPI Service and click Restart Service.



7. Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Session Manager, which is performed via the web interface of System Manager. The procedures include the following areas:

- Launch System Manager
- Administer SIP agent users
- Administer virtual SIP users
- Administer SIP entities

7.1. Launch System Manager

Access the System Manager web interface by using the URL "https://ip-address" in an Internet browser window, where "ip-address" is the IP address of System Manager. Log in using the appropriate credentials.

This system is restricted solely to authorized users for legitimate business purposes only. The actual or attempted unauthorized access, use, or modification of this system is strictly prohibited.	User ID:
Unauthorized users are subject to company	Password:
disciplinary procedures and or criminal and civil	
penalties under state, federal, or other applicable domestic and foreign laws.	Log On Reset
The use of this system may be monitored and recorded for administrative and security reasons.	

7.2. Administer SIP Agent Users

In the subsequent screen (not shown), select Users \rightarrow User Management from the top menu. Select User Management \rightarrow Manage Users (not shown) from the left pane to display the screen below.

Select the entry associated with the first SIP agent station from Section 3, in this case "66006", and click Edit.

Aura® Syst	aya tem Manager 8.1	💄 Users 🗸 🎤 Ele	ements 🗸 🔅 Servic	es v Widgets v S	hortcuts v Searc	
Home	User Manag	jement				
U	Home命 / Use	ers 🤉 / Manage Users				Help
	Search			Q		
	© View	/ <u>/</u> Edit + N	ew 👌 Duplicate	Delete More Actions	v	Options V
		First Name 🖨 🕅	Surname 🖨 🍸	Display Name 🖨 🍸	Login Name 🖨 🍸	SIP Handle 🝸
		SIP 2	Avaya	Avaya, SIP 2	66002@dr220.com	66002
		SIP 6	Avaya	Avaya, SIP 6	66006@dr220.com	66006

TLT; Reviewed: SPOC 3/11/2022

Solution & Interoperability Test Lab Application Notes ©2022 Avaya Inc. All Rights Reserved. 18 of 51 Survey-SM813 The User Profile | Edit screen is displayed. Select the Communication Profile tab, followed by CM Endpoint Profile to display the screen below.

Click on the **Editor** icon shown below.

AV/ Aura® Syste	em Manager 8.1	Users 🗸 🎤 Elem	ents 🗸 🛛 🔅 Services 🕥	🗸 Widgets 🗸	Shortcuts v Search	_ ▲ ≡
Home	User Management	e -				
U	Home合 / Users A /	Manage Users				Help
	User Profile	Edit 66006@d	Ir220.com		E Commit & Continue	Commit S Cancel
	Identity Co	ommunication Profile	Membership C	Contacts		
	Communication P PROFILE SET : F	rofile Password Primary V	* System :	DR-CM	* Profile Type :	Endpoint ~
	Communication	Address	Use Existing Endpoints :		* Extension :	66006
	Session Manage	er Profile	Template :	Start typing	<pre> % Set Type: </pre>	J169CC
	CM Endpoint Pro	ofile 💽	Security Code :	Enter Security Code	Port:	S000115 Q
	Messaging Profil	le 🕥	Voice Mail Number:	admin	Preferred Handle :	Select ×
			Calculate Route Pattern :		Sip Trunk :	aar

The Edit Endpoint pop-up screen is displayed. For Type of 3PCC Enabled, select "Avaya" as shown below.

Repeat this section for all SIP agent stations from **Section 3**. In the compliance testing, one SIP agent station was configured.

User Management								
Home☆ / UsersՋ / Manage Users								
Edit Endnoint								
Eart Enapoint								
						[5	ave As T	
System	DR-CM			Extensi	on	66006		
Template	Select		~	Set Typ	e	J169CC	J	
Port	S000115	5		Security	v Code			
Name	Avaya, S	SIP 6						
General Options (G) *	Feature Opt	ions (F)	Site Data (S)	Abbrev	iated Call Dialing (A)	Enhanced Call Fwd	(E)	
Button Assignment (B)	Profile Set	t ings (P)	Group Memb	ership (M)				
* Class of Restriction (COR) 1			* Class	Of Service (COS)	1		
* Emergency Location	Ext 660	06		* Mess	age Lamp Ext.	66006		
* Tenant Number	1							
* SIP Trunk	Qa	ar		Туре	of 3PCC Enabled	Avaya 🗸		
Coverage Path 1				Cove	rage Path 2			
LOCK Message				Enabl	e Reachability for	Avaya, SIP 6		
				Enable Reachability for		system 🗸		

7.3. Administer Virtual SIP Users

From the left pane, select User Management \rightarrow Manage Users (not shown) to display the Managed Users screen again. Click New to add a user.

Aura® Syst	aya em Manager 8.1	🔒 Users 🗸 ,	🗲 Elements 🗸 🛛 🔅 Serv	ices ~ W	idgets 🗸 S	Shortcuts 🗸	Search	▲ =
Home	User Manag	gement ×						
U^	Home合 / Use	ers R / Manage User	5					
	Search			Q				
	@ View	v 🖉 Edit	+ New 🕅 Duplicate	Delete	More Actions	; •		Options V
		First Name 🗘	7 Surname 🖨 🍸	Display	Name 🖨 🍸	Login Name 🖨	♥ SIP H	landle 🛛
		SIP 2	Avaya	Avaya,	SIP 2	66002@dr220.	com 6600	2
		SIP 6	Avaya	Avaya,	SIP 6	66006@dr220.	com 6600	6

7.3.1. Identity

The User Profile | Add screen is displayed. Enter desired Last Name and First Name.

For Login Name, enter "x@y", where "x" is an available user extension and "y" is the applicable domain name from Section 3. Retain the default values in the remaining fields.

Aura® Syste	aya em Manager 8.1	🛓 Users 🗸 🎤 Elemen	its 🗸 🔅 Services	✓ │ Widgets ✓	Shortcuts v Search	📄 🜲 🗮 adm
Home	User Manager	ment ×				
U^	Home命 / Users	R / Manage Users				Help?
	User Prof	file Add			🖻 Commit & Continue	Commit 🛞 Cancel
	Identity	Communication Profile	Membership	Contacts		
	Basic Info		User Provisioning		~	
	Address		Rule:			
	LocalizedN	ame	* Last Name :	Survey	Last Name (in Latin alphabet characters) :	Survey
			* First Name :	SIP1	First Name (in Latin alphabet characters) :	SIP1
			* Login Name :	66991@dr220.com	Middle Name :	Middle Name Of User
			Description :	Description Of User	Email Address :	Email Address Of User

7.3.2. Communication Profile

Select the **Communication Profile** tab, followed by **Communication Profile Password** to display the **Comm-Profile Password** pop-up box.

For **Communication-Profile Password** and **Re-enter Comm-Profile Password**, enter the desired password for the virtual SIP user to use for registration.

ne	User Management ×					
~	Home☆ / Users	Jsers				Help
	User Profile Add			E) Commit & Continue	🖻 Commit	S Cancel
	Identity Commun	olian Drofila Mambambin Contasta	1			
	Communication Profile Pa	Comm-Prolie Password			~	Online
	PROFILE SET : Primary	Comm-Profile Password :			in 🛊	
	Communication Address					
I)	PROFILES	* Re-enter Comm-Profile Password :			0	
	Session Manager Profile	Ger	nerate Con	nm-Profile Password		
	CM Endpoint Profile					
	Messaring Profile			Cancel	ок	

Select **Communication Address** from the left pane, followed by **New** to display the **Communication Address Add/Edit** pop-up box.

For **Type**, select "**Avaya SIP**". For **Fully Qualified Address**, enter and select the SIP user extension and domain name to match the login name from **Section 7.3.1**.

U., Home@ / UsersR / Manage Users User Profile Add User Profile Add Identity Communication Profile Membership Contacts Communication Profile Password PROFILE SET : Primary Communication Address Communication Address Communication Address Add/Edit PROFILES Session Manager Profile Fully Qualified Address: 66991 @ dr220.com	Home	User Management						
User Profile Add Communication Profile Membership Contacts Communication Profile Password PROFILE SET : Primary Communication Address Communication Address	U	Home☆ / Users R / Manage Users						Help?
Identity Communication Profile Membership Contacts Communication Profile Password PROFILE SET : Primary Communication Address Communication Address Communication Address Add/Edit PROFILES Session Manager Profile CM Endpoint Profile *Tupe: Avaya SIP *Tupe: Avaya SIP		User Profile Add			E Commit & Co	ontinue	🖻 Commit	⊗ Cancel
Communication Profile Password ✓ Edt + New @ Delete Or PROFILE SET : Primary ✓ Type Handle ÷ ▼ Domain ÷ ▼ Communication Address Communication Address Add/Edit × PROFILES Session Manager Profile ● •Type: Avaya SIP ✓ CM Endpoint Profile ● •Fully Qualified Address: 66991 @ dr220.com ✓		Identity Communication	Profile Membership	Contacts				
PROFILE SET : Primary Type Handle : Domain : Communication Address Communication Address Add/Edit × PROFILES Communication Address Add/Edit × Session Manager Profile • • CM Endpoint Profile • • *Fully Qualified Address: 66991 @ dr220.com		Communication Profile Password	🖉 Edit 🛛 🕂 New	Delete		_		Options 🗸
Communication Address Communication Address Add/Edit PROFILES * Type: Session Manager Profile * Type: CM Endpoint Profile * Fully Qualified Address: 66991 @ dr220.com		PROFILE SET : Primary	Туре		Handle 🛊 😗		Domain 🛊 I	7
PROFILES Session Manager Profile CM Endpoint Profile *Fully Qualified Address: 66991 @ dr220.com			Communication Address	Add/Edit		×		
Session Manager Profile * Type: Avaya SIP CM Endpoint Profile *Fully Qualified Address: 66991 @ dr220.com		PROFILES		C				
CM Endpoint Profile Trully Qualified Address: 66991 @ dr220.com			* Type :	Avaya SIP				
			*Fully Qualified Address :	66991	@ dr220.com	~		
Messaging Profile								
						_		
Cancel OK					Cancel	ок		

Select Session Manager Profile. For Primary Session Manager, Origination Sequence, Termination Sequence, and Home Location (not shown), select values that correspond to applicable Session Manager and Communication Manager as shown below. Retain the default values in the remaining fields.



Select **CM Endpoint Profile** from the left pane. For **System**, select value that corresponds to applicable Communication Manager. For **Template**, select "9641SIP_DEFAULT_CM_8_1". For **Extension**, enter the SIP user extension from **Section 7.3.1**. Retain the default values in the remaining fields.

Click on the **Editor** icon shown below.



In the pop-up screen, locate the **Type of 3PCC Enabled** parameter, and select "**Avaya**" from the drop-down list as shown below. Retain the existing values in the remaining fields.

ROFILE SET : General Options (G) * Feature Options (F) Site Data (S) Communication Abbreviated Call Dialing (A) Enhanced Call Fwd (E) Button Assignment (B) ROFILES Profile Settings (P) Group Membership (M) Session Manage • Class of Restriction (COR) • Class of Service (COS) 1 CM Endpoint P • Class of Leastion • Class of Service (COS) 1	~
Communication Abbreviated Call Dialing (A) Enhanced Call Fwd (E) Button Assignment (B) ROFILES Profile Settings (P) Group Membership (M) Session Manage * Class of Restriction (COR) * Class of Restriction (COR) * CM Endpoint P Communication *	
RoFLES Profile Settings (P) Group Membership (M) Session Manag • Class of Restriction (COR) • Class of Restriction (COR) • Class of Restriction • Class of Service • Class	
Class of Restriction COR Class of Restriction COR COR	
	0
Entry Encoded in 66991 Message Lamp Ext. 66991	
* SIP Trunk Qaar Type of 3PCC Avaya V	. Ma
Coverage Path 1 Coverage Path 2 Lock Message Localized Display Name	
Multibyte Language Not Applicable	

Repeat Section 7.3 to add the desired number of virtual SIP users. In the compliance testing, two SIP users with extensions "66991" and "66992" were created for two simultaneous connections to Survey.

Aura® Syst	em Manager 8.1	🛔 Users 🗸 🎤 Eler	nents 🗸 🔅 Service:	s \vee Widgets \vee Sh	ortcuts v Search	_ ▲ ≡
Home	User Manag	jement ×				
U^	Home@ / Use	ers Ջ / Manage Users		Q		
	© View	v Edit + Ne	w 条 Duplicate	Delete More Actions	×	Options V
		First Name 🗘 💡	Surname 🖨 🝸	Display Name 🖨 🍸	Login Name 🖨 🛛	SIP Handle 🝸
		SIP 2	Avaya	Avaya, SIP 2	66002@dr220.com	66002
		SIP 6	Avaya	Avaya, SIP 6	66006@dr220.com	66006
		SIP1	Survey	Survey, SIP1	66991@dr220.com	66991
		SIP2	Survey	Survey, SIP2	66992@dr220.com	66992

7.4. Administer Session Manager Entity

Select **Elements** \rightarrow **Routing** \rightarrow **SIP Entities** from the top menu to display the **Routing** tab, followed by the applicable SIP entity for Session Manager from the left pane (not shown), in this case "**DR-SM**". The **SIP Entity Details** screen is displayed.

Aura® Syste	aya em Manager 8.1	🔒 Users 🗸	🗲 Elements 🗸	Services v	Widgets ~	Shortcuts v	Search
Home	Routing ×						
Rout	SIP Enti	ty Details				Commit	Cancel
			* Name: * IP Address:	DR-SM 10.64.101.238			
			SIP FQDN: Type:	Session Manager	~		
			Notes: Location:	DR-Loc V			
		Mini	Outbound Proxy: Time Zone:	America/New_York	-	•	
•		Mini	Credential name:	Use Global Setting	*		

Scroll down to **Listen Ports** sub-section and verify that the transport protocol to be used by Survey is specified in the list, in thise case "**UDP**". Also verify that the corresponding **Endpoint** column is checked, as shown below.

m Manager 8	1					Search
Routing	×					
Listen F	orts					
Add	emove					
3 Items	8					
0	en Ports	Protocol	Default Domain	Endpoint	Notes	
LIS		TCP ¥	dr220.com 💙			
	50					
50	50	UDP 🗸	dr220.com ❤			

8. Configure OpenText Qfiniti Survey

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

- Launch SysConfig web interface
- Administer switches
- Administer CTI server
- Administer board configuration
- Administer general
- Administer machines
- Administer components
- Administer CTI sources
- Administer phone interface
- Administer VRM
- Administer line data
- Enable use
- Launch Qfiniti web interface
- Administer agents
- Administer triggers
- Administer alerts
- Start services

The configuration of Qfiniti is performed by OpenText field service engineers. The procedural steps are presented in these Application Notes for informational purposes.

Prior to configuration, the pertinent Survey forms and questions are assumed to be preconfigured and ready for use.

8.1. Launch SysConfig Web Interface

Access the SysConfig web interface by using the URL "http://ip-address/sysconfig" in an Internet browser window, where "ip-address" is the IP address of Qfiniti.

The screen below is displayed. Log in using the appropriate credentials.

opentext™
Sign in to continue to qfiniti-system-configuration
User name
Password

In the subsequent screen, select the **Cross System** tab to display the screen below.

ope	entext Qfiniti SysConfig ce 20.4	Logout Qfiniti Administrator
General	Cross System	
Save (S Refresh	
Switche	s	
CTI Serv	er	
Board Co	onfiguration	
Simulate	ed CTI Scripts	

8.2. Administer Switches

Expand the **Switches** sub-section and click the **New Item** icon to add a new entry for connection with Session Manager. Enter the following values for the specified fields and retain the default values for the remaining fields.

• Name: A descriptive name, in this case "AvayaSM".

"SIP"

- Switch Model:
- Interface Type: "Network Tap"

opentext ⁻ Q	finiti SysConfig c	E 20.4		Logout Qfiniti Administrator
General Cross System	Switch			X
E Save Refresh	Name:	AvayaSM		1
Switches	Switch Model:	SIP	~	
Name * Sw	Post Release Delay:	0	\$	Use CTI Source for Alias
AES4DMCC Av	Observe Mode:	select one	*	No
AvayaSIPREC SI	Interface Type:	Network Tap	~	No
CTI Server	Use CTI Source for Alias:			×
Board Configuration	Vlan Support:	False	~	(¥)
Simulated CTI Scripts	Trigger Type:	Signaling	*	*
	RTP Segmentation Rate (0- 100):	20	~	
	Ring Timer (0-600):	5	~	
	Digit Collection (0-600):	5	\$	
	Drop Duplicates:	Do not drop duplicates	~	
	SIP Identifier:	Call-ID		
	Transport:	UDP	*	
	SIP Recording Type:	None	~	
	SBC Recording Type:	None	~	
	IP fragmentation:	False	*	
	Extension IP Address Mapping:	Default	¥	•

8.3. Administer CTI Server

Expand the **CTI Server** sub-section and click the **New Item** icon to add a new entry for TSAPI connection. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Name: A descriptive name, in this case "AvayaTSAPI".
- **Type:** "Avaya TSAPI"
- Available Switch: Select the switch name from Section 8.2.
- ServerName: The host name of Application Enablement Services.
- User Name: The Survey user credentials from Section 6.4.
- **Password:** The Survey user credentials from **Section 6.4**.
- Vendor: "AVAYA"
- **Driver:** The relevant switch connection name from **Section 6.3**.
- Service: "CSTA"

opentext [*] Qf	initi SysConfig ce 2	0.4	Logout Qfiniti Administrator
	CTI Server		X
General Cross System		2	*
🔚 Sinze 🛛 🖓 Refresh	Name:	AvayaTSAPI	
Switches	Туре:	Avaya TSAPI 🗸	*
	Available Switch:	AvayaSM 🗸	
CTI Server	ServerName:	AES7	*
	User Name:	qfiniti	+ / 0
Name A	Password:	•••••	
AvayaTSAPI	Vendor:	AVAYA	
Board Configuration	Driver:	CM7	×
board connguration	Service:	CSTA	
Simulated CTI Scripts	BackUp ServerName:		8
	BackUp User Name:		
	BackUp Password:		
	BackUp Vendor:		
	BackUp Driver:		
	BackUp Service:		
	ConnID Location:	CALL ID	
	UCID prefix:		
	Ouery VDN/Split name:	No	
		Ok Cance	

8.4. Administer Board Configuration

• Active 1:

Expand the **Board Configuration** sub-section and click the **New Item** icon. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Name: A descriptive name, in this case "NIC".
- Model: "Network Interface Card (NIC)"
 - "True"
- Network Card Identifier 1: A desired value for identifier.
- Network Card Description 1: A desired description.
- Network Card IP Address I: IP address of the Survey server.

opentext	Qfiniti SysConfig ci	E 20.4	Logout Qfiniti Administrator
General Cross System	Board Configuration		×
🗟 Save 🛛 Refresh	Name:	NIC	*
Switches	Model:	Network Interface Card (NIC)	
CTI Server	Active 1:	True 🗸	X
CITSCIVE	Network Card Identifier 1:	Card 1	
Board Configuration	Network Card Description 1:	Card 1	(*)
	Network Card IP Address 1:	10.64.101.202	(+) 0
Name A	Network Card Port 1:	5060	
DummyBd4DMCC	Active 2:	False 🗸	
Simulated CTI Scripts	Network Card Identifier 2: Network Card Description 2: Network Card IP Address 2:		
	Network Card Port 2:	5060	
	Active 3: Network Card Identifier 3: Network Card Description 3: Network Card IP Address 3:	False	
	Network Card Port 3:	5060	
	Active 4:	Haise	

8.5. Administer General

Select the **General** tab. Expand the **General** sub-section and click the **New** icon to add a new system. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Name: A desired name, in this case "Survey System".
- Switch: Select the switch name from Section 8.2.
- System Type: Check Survey.

opentext" Qfini	ti SysConfig	J CE 20.4	Logout Qfiniti Administrator
General Cross System			
Systems 🔍	🕂 New 틙 Save	📚 Refresh 📄 🕨 Start 🔳 Stop 🔄 🛅 Schedule Restart	Delete
Quick Find	<u> </u>		
DMCC Logger	General		
	Name:	Survey System	
	Switch:	AvayaSM	
	System Type:	Voice Recording - Logging	
		Voice Recording - QA	
		Screen Recording	
		Explore	
		Survey	
		Backup	
		Cloud Connector	
	Description:		
	Available for Us	se 🕐	
	NAT Environme	ent	
	Machines		× .
	Components		(*)
	CTI Sources		×
	Phone Interface		
	VRM		
	Line Data		8

8.6. Administer Machines

Expand the **Machines** sub-section and click the **New Item** icon to add a new machine. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Server Name: The host name of the Survey server.
- **IP Address:** The IP address of the Survey server.
- Role: "Master".

opentext" Qfinit	i SysConfig ce 20.4	Logout Qfiniti Administrator
neral Cross System		
🕂 New 📳 Save 🚳 Refresh	Start Stop 🔟 Schedule Restart	Delet
General		*
Machines		
Machine	×	State
		Active
Server Name:	tlt-w2019	⊗
IP Address:	10 . 64 . 101 . 202	
Role: State:	Master V Down	≽
and the second se		

8.7. Administer Components

Expand the **Components** sub-section and follow reference [4] to assign and configure the required components, including **Archive Manager**, **Qfiniti File Server**, and **Survey**.

For the **Survey** component under **Assigned Components**, scroll the section as necessary to enter the following values for the specified fields (not all are shown below) and retain the default values for the remaining fields. In the compliance testing, the **Default Route** was set to the first skill group extension in **Section 3**.

- Survey Switch Type: "Lucent Definity G3"
- **Default Route:** A desired route destination when there is no match on DNIS.
- **Dial String:** Blank out the default value.
- **Recording Path:** The pertinent directory path on Survey server for recordings.
- Voice Message Path: The pertinent directory path on Survey server for voice messages.
- Front End Condition: Set to "Disabled" when there is no separate front end IVR system.
- SIP Registration Proxy: IP address of Session Manager signaling interface.
- **SIP URI Address:** The SIP domain name from **Section 3**.

opentext [*] Qf	initi SysConfig ce 20.4		Logoul	t Qfiniti Administrator
General Cross System				
Systems	🛪 🕂 New 🗐 Save 🗞 Refresh 🕨 Start 🔳	Stop 🔟 Schedule Restart	t	🛗 Delet
Quick Find			😵 Survey	
DMCC Logger				
▲ ☐ Survey System				
لَّتِ tlt-w2019	Component Data			
	Front End Condition:	Disabled	~	
	Enable Recordings:	Enabled	~	
	Call Handling:	Default Route	~	
	Default Trigger:			
	CTI Init:	Individual	~	
	Inter Digit Delay:	3	•	
	SIP Registration Proxy:	10.64.101.238		
	SIP URI Address:	dr220.com		
	Starting RTP Port:	17384		
	Default Username:			
	Default Password:			
	Default Contact:			
	Prompt Folder:			-
	CTI Sources			*

8.8. Administer CTI Sources

Expand the **CTI Sources** sub-section. Select the applicable machine server name from **Section 8.6**, followed by the **Add CTI Source** icon. Enter the following values for the specified fields and retain the default values for the remaining fields.

- **CTI Server:** Select the CTI server name from **Section 8.3**.
- Queue: The skill group extensions from Section 3.

For **Agent Extensions**, enter the agent station extensions from **Section 3** and the virtual SIP user extensions from **Section 7.3**, as shown below.

Systems	🔍 🕂 New 🗐 Save	🛞 Refresh 🌓 Start 🔳 Stop	11 Schedule Restart		🛅 De
Quick Find	General	CTI Source		×	8
DMCC Logger	General			-	
Survey System	Machines	CTI Server:	AvayaTSAPI 🗸		*
(L) tit-w2019	Components	PreInitExtensions:	Yes 🗸		8
		Queue:	Or Drop files 👔 🛃 Single Export: 🔲 here		
	CTI Sources	-	61001-61002		
			Enter Value	+	·) 0
	Machines		[
	⊳ (⊑ tlt-w2019	Agent Extensions:	Or Drop files 👔 🛃 Single Export: 📃		
			65001		
	4		65006		
			66991-66992		
			Enter Value		
		UUdata script name:	CTI_UUdataScripts_AVAYA_TSAPI.ini		
		Auto Login Extensions:	Or Drop files 👔 🋃 Single Export: 🕅		
			Enter Value		
			Enter Value		

8.9. Administer Phone Interface

Expand the **Phone Interface** sub-section (not shown). Select the machine server name from **Section 8.6**, and click on the **Edit** icon to edit the entry. Enter the following values for the specified fields and retain the default values for the remaining fields.

- Machine Type: "Survey"
- Phone Interface Type: "T1 (Switch Default)"
- Number of Lines: The total number of virtual SIP users from Section 7.3.

opentext" Qfin	niti SysCon	fig ce 20.4		Logout Qf	initi Administrator
General Cross System					
Systems 《	New 🗐 Sav	e 🚳 Refresh 🕨 Start 🔳 Stop	II Schedule Restart		Delet
Quick Find	[(197)
DMCC Logger	General				1.00
a 🔒 Survey System	Machines				*
🛱 tlt-w2019	Components				(w)
	Phone Interfac	Phone Interface		X	
	Server Name tlt-w2019	Server Name:	tlt-w2019		
	VRM	Machine Type:	Survey	×	*
	Line Data	Phone Interface Type: Number of Lines:	T1 (Switch Default)	× •	*
			Ok	Cancel	

8.10. Administer VRM

Expand the **VRM** sub-section. Select the machine server name from **Section 8.6**, followed by the **Add VRM** icon. Enter the following values for the specified fields.

• VRM Name:

A desired name, in this case "SurveyVRM". "Survey"

- VRM Type:
- Line From and Line To:
- Range of virtual SIP users, in this case two users so "1" to "2". Select the board name from **Section 8.4**.
- Default Board Config:

ems	📉 🕂 New 🔚 Save 🔕 Refresh 🕨 Start	Stop 🔟 Schedule Restart		Î		
ick Find	General					
DMCC Logger						
tlt-w2019	Machines					
	Components					
	CTI Sources	CTI Sources				
	Phone Interface	Phone Interface				
	VRM			0		
				U		
	Machines					
	vRM			X		
	VRM VRM Name:	SurveyVRM		×		
	VRM Name: VRM Type:	Survey/VRM Survey		×		
	VRM Name: VRM Type: Mirror from VRM:	SurveyVRM Survey select one		×		
	VRM Name: VRM Type: Mirror from VRM: Interface Type:	SurveyVRM Survey select one Station Side VoIP Recording		×		
	VRM Name: VRM Name: VRM Type: Mirror from VRM: Interface Type: Use Range:	SurveyVRM Survey select one Station Side VoIP Recording (1-5, 6-100) Or D	Drop files here	×		
	VRM Name: VRM Name: VRM Type: Mirror from VRM: Interface Type: Use Range: Line From:	SurveyVRM Survey select one Station Side VoIP Recording (1-5, 6-100) Or [1	Drop files here	X		
	VRM Name: VRM Name: VRM Type: Mirror from VRM: Interface Type: Use Range: Line From: Line To:	SurveyVRM Survey select one Station Side VoIP Recording (1-5, 6-100) Or D 1 2	Drop files here			
	VRM Name: VRM Name: VRM Type: Mirror from VRM: Interface Type: Use Range: Line From: Line From: Line To: Allow Extension Duplication:	SurveyVRM Survey select one Station Side VoIP Recording (1-5, 6-100) Or D 1 2	Drop files here	×		
	Image: WRM VRM Name: VRM Type: Mirror from VRM: Interface Type: Use Range: Line From: Line To: Allow Extension Duplication: Default Class of Service:	SurveyVRM Survey select one Station Side VoIP Recording (1-5, 6-100) Or I 1 2 select one	Drop files here	X		

8.11. Administer Line Data

Select the newly added VRM from **Section 8.10**, and expand the **Line Data** sub-section. Select the first line. For **Extension** and **SIP Password**, enter the first virtual SIP user extension and the associated communication profile password from **Section 7.3** respectively. Retain the default values in the remaining fields.

Repeat this section to administer all virtual SIP users from Section 7.3, as shown below.

pente	xt ≊∣Qfin	iti SysCon	fig ce 20.4				.ogout Qfiniti Administral
al Cross	System						
New 🗐	Save 🔊 Refresh	🕨 Start 🔳 St	op 🔟 Schedule R	lestart			<u>ش</u> D+
General							۲
Machines							
Componen	lts						8
CTI Source	25						×
Phone Inte	erface						۲
VRM							
							+/0
	SurveyVRM						
Line Data		F 11 Sec. and an		Loss Shippe			
	Extension	Direction	Application	Login ID	Fixed Trigger	SIP Password	
Name 🔺	Extension	Direction			0		
Name A	66991	Inbound	Survey	-	a. 855	123456	

8.12. Enable Use

Scroll up the right pane and expand the General sub-section. Check Available for Use.

opentext	" Qfin	iti SysConfi	g ce 20.4	Logout Qfiniti Administrator
General Cross Syster	m			
Systems	(New 🗐 Save	🗞 Refresh 🕨 Start 🔳 Stop 🔟 Schedule Restart	t 🛅 Delet
Quick Find				
DMCC Logger		General		
✓ ☐ Survey System ☐ tlt-w2019		Name: Switch: System Type:	Survey System AvayaSM Voice Recording - Logging Voice Recording - QA Screen Recording Remote Screen Site Explore Voice Survey Backup Cloud Connector	
		Description:		
		Available for	Use	
		NAT Environm	nent	

8.13. Launch Qfiniti Web Interface

Access the Qfiniti web interface by using the URL "http://hostname/qwa" in an Internet browser window, where "hostname" is the hostname of the Qfiniti server. The screen below is displayed. Log in using the appropriate credentials.

opentext	
User name	
Password	

8.14. Administer Agents

Select **Teams** \rightarrow **Organization** from the top menu to display the screen below. Select the New icon in the right pane to add an agent.

opentext	Qfiniti CE 20.4	Logout Qfiniti Administrator Help
S Ove	erview 👻 🗶 Teams 👻 🌵 Recordings 👻 🗮 Reports 👻 🖬 Surveys 🗸 🕯	🗙 Administer 🕞
Teams > Organization		
Teams > Organization	+ New → Open 🔚 Save As 🖉 Classify 🖓 Bulk Edit	Delete
Views +	No search has been performed	

In the pop-up screen below, enter the following values for the specified fields, and retain the default values for the remaining fields.

- **First Name:** A desired first name for the first agent from **Section 3**.
- Last Name: A desired last name for the first agent from Section 3.
- **Role:** Select a desired and existing role.
- Username: The desired login credentials for the agent.
- **Password:** The desired login credentials for the agent.
- Confirm Password: The same desired login credential for the agent.
- **Partition:** "Qfiniti"

opentext " Qfin	iti CE 20.4				
🖥 Save 🏾 🎉 Spell Check					Delete
Categories	🗸 Active 🔽 Enabled 🔲 Vi	iew Inactive Members			
(i) General Information	General Information				
😴 Licensing	īd:	4			
🔗 Team Access	* First Name:	Agent1			
🝰 Team Memberships	Middle Name:				
Team Supervision	* Last Name:	Avaya		4	
Classifications	Email Address:				
📇 Aliases	Role:	Administrators	~	+ Add Role	
S Additional Information	* Username:	agent1			
	Password:	***			
	Confirm Password:	******			
All Categories	* Partition:	Qfiniti	~		

Follow reference [4] to configure subsequent steps for the new agent (not shown). Upon reaching the **Aliases** step, click the **Add** icon to create an alias.

opentext" Qfir	niti CE 20.4	
🔚 Save 🛛 🦧 Spell Check		<u>व</u> Delete
Categories	🗹 Active 🗹 Enabled 🔚 View Inactive Members	
General Information	Aliases	
😴 Licensing	Define aliases for this team member.	
🚔 Team Access	→ Add / Edit 前 Delet	te
🚔 Team Memberships		
Team Supervision		
Classifications		
🙎 Aliases		

TLT; Reviewed: SPOC 3/11/2022

Solution & Interoperability Test Lab Application Notes ©2022 Avaya Inc. All Rights Reserved. 42 of 51 Survey-SM813 The Alias Detail pop-up screen is displayed. For **Type**, select the switch server name from Section 8.2. For Value, enter the agent ID for the first agent in Section 3, in this case "65881". Retain the default value in the remaining field.

Save 🥻 Spell Check		ت ش
Categories	🖾 Active 📝 Enabled 🔚 View Inactive Members	
(j) General Information	Aliases	
😴 Licensing	Define aliases for this team member	
🔒 Team Access	+ Add	
Fream Memberships	Alias Detail X	
Team Supervision		
Classifications	Type: AvayaSM	
	Value: 65881	
Additional Information	Derout Anas.	
All Categories		
	Add Ok Cancel	

Repeat this section to add a team member for each agent from **Section 3**. In the compliance testing, two team members with alias values "**65881**" and "**65882**" were configured.

opentext" Qfiniti CE 20.4					Logout Qfiniti Administrator Help		
🕤 Overview	🝷 🚜 Teams	🔹 🌷 Recordings	- 🗏 Reports	🛨 🖃 Surveys	+ 🏟 Administ	er 🔹	
Teams > Organization > All	Team Member	s					
Teams > Organization	🕂 New 🏓	Open 📮 Save As	Classify 🖓 B	ulk Edit		Delete	
Views +	First Name	Middle Name	Last Name	Login ID	Status	Account Disabled	
🔗 All Team Members	Qfiniti		Administrator	administrator	Active	No	
	Agent1		Avaya	agent1	Active	No	
	Agent2		Avaya	agent2	Active	No	

8.15. Administer Triggers

Select Surveys \rightarrow Triggers from the top menu to display the screen below. Select the New icon in the right pane to add a trigger.

opentext	Qfiniti CE 20.4	Logout Qfiniti Administrator Help
S 0v	erview 👻 Teams 🔹 🌷 Recordings 👻 🗏 Reports 🕞 🗾 Surve	eys 👻 🏟 Administer 👻
Surveys > Triggers > All s	Survey Triggers	
Surveys > Triggers 《 Views • ② All Survey Triggers	+ New → Open	Delete

In the pop-up screen below, enter the following values for the specified fields and retain the default values for the remaining fields.

- Name: A descriptive trigger name, in this case "AgentTransferTrigger".
- **DNIS:** The hunt group extension from **Section 5.3**.
- Switch: The switch name from Section 8.2.
- Survey Form: Select an existing survey form.

Save 🦼 Spell Check				
Categories	General Information			
 General Information 	* Name:	AgentTransferTrigger		
Trigger Type	* DNIS:	61003		
	* Switch:	AvayaSM	~	
	* Survey Form:	Demo Form	*	Q View Survey Form
All Categories	Survey Language:	English	~	
		Play message 1988 "Surve	ey Not Available"	when this tr <mark>i</mark> gger
		Active		

Select **Trigger Type** from the left pane to display the **Trigger Type** screen. For **Type**, select "**Mode 2: Agent transfers caller to Survey**" as shown below. Retain the default values in the remaining fields.

opentext [™] Qfi save ‰ spell Check	niti CE 20.4								
Categories	Trigger Type								
(i) General Information	Type:	Mode	2: Agen	t transfers	caller to	Survey	~		
✓ Trigger Type	Outbound Extension:								
and the second	ANI Limit:			•					
	If call is Transferred:	Do no	t offer a	survey			~		
All Categories	Dial Mode:	Stand	ard Dial				*		
	5	E Rec	ord the it the nu	call when umber of (this trigg Completed	er activa Surveys	tes a s geni	survey erated Eri	Sat
	Max Per Day 0		0	0	0	0	0	\$	0
	Max Per Hour 0	-	0	0	0 🗘	0	0	\$	0

8.16. Administer Alerts

Select Surveys \rightarrow Questions from the top menu to display the list of pre-configured survey questions. Select the desired entry to set the criteria for immediate transfer to supervisor.

opentex	t ≊∣Qfini	ti CE 20.4				Logout Qfiniti A	dministrator Help
0	Overview 👻 💾	Teams 🚽 🌷 Re	ecordings 👻 📕	Reports -	🖬 Surveys 🕞 🏚	Administer 🔸	
Surveys > Questions	> All Survey Que	stions					
Surveys > Questio «	+ New A Op	en 📮 Save As 🛛					Delete
Views 🗸	Question Name	Voice Question	Туре	Prompt	Alert Type	Alert Data	Version
? All Survey Questions	Press 1 to 5	Pres 1 2 3 4 or 5	Quantitative	2011	Transfer		2
	Voice Message	Would you like t	Comment	2012	Transfer		1
	Yes or no	Yes or no	Yes/No	2010	Transfer		1

The screen below is displayed. Select **Inbound Alerts** in the left pane. For **Send an Alert if**, set the desired criteria. For **Alert Method**, set **Transfer Number** to the supervisor extension from **Section 3**.

opentext ^{**} Qfir	niti CE 20.4	
🔚 Save 🛛 🦧 Spell Check		â
Categories		Version: 2
General Information	Inbound Alerts	
 Web Question Voice Question Answer Choices Inbound Alerts 	Send an Alert if Answer is: Greater Than Or Equal (>=)	5
All Categories	Alert Method Transfer Call Transfer 65000	
	Send email	

8.17. Start Services

From the Qfiniti server, select Windows \rightarrow Control Panel \rightarrow Administrative Tools \rightarrow Services to display the Services screen. Start the Qfiniti Startup Service shown below.

🔅 Services					- 0	×
<u>F</u> ile <u>A</u> ction <u>V</u> iew <u>H</u> e	łp					
🗢 🄿 📅 🛅 🙆 🗟	▶ 🛛 🖬 ▶ 🔳 11 1▶					
Services (Local)	Name	Description	Status	Startup Type	Log On As	^
	🥋 Qfiniti Evaluation Plan Service			Automatic	.\administrator	
	🖏 Qfiniti File Server	Manages re		Automatic	.\administrator	
	🤹 Qfiniti Notification Service	Qfiniti Notif	Running	Automatic	.\administrator	
	🖏 Qfiniti Startup Service	Manages th		Automatic	.\administrator	
	Qfiniti Web File Conversion Service	Service con	Running	Automatic	.\administrator	
	🧟 Quality Windows Audio Video Experience	Quality Win		Manual	Local Service	~
	<					>
	Extended Standard					

9. Verification Steps

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

9.1. Verify Avaya Aura® Communication Manager

On Communication Manager, verify status of the administered CTI link by using the "**status aesvcs cti-link**" command. Verify that the **Service State** is "**established**" for the CTI link number administered in **Section 5.2**, as shown below.

```
status aesves eti-linkAE SERVICES CTI LINK STATUSCTI<br/>LinkVersion<br/>BusyMnt<br/>ServerAE Services<br/>StateMsgs<br/>SentMsgs<br/>Revd112noaes7established3129
```

9.2. Verify Avaya Aura® Application Enablement Services

On Application Enablement Services, verify status of the TSAPI service by selecting Status \rightarrow Status and Control \rightarrow TSAPI Service Summary (not shown) from the left pane. The TSAPI Link Details screen is displayed.

Verify that the **Status** is "**Talking**" for the TSAPI link administered in **Section 6.3**, and that the **Associations** column reflects the total number of monitored skill groups and agent stations from **Section 3** plus the total number of virtual SIP users from **Section 7.3**, in this case "6".



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9.3. Verify Avaya Aura® Session Manager

From the System Manager Web interface, select **Elements** \rightarrow **Session Manager** \rightarrow **System Status** \rightarrow **User Registrations** to display the **User Registrations** screen.

Verify that all virtual SIP users from **Section 7.3** are registered, as shown below with a checkmark in the **Registered Prim** column.

														Help
Jse	er Regi	strations												
elect i gistra	rows to send ation status.	notifications to device	s. Click on	Details colu	umn for comp	plete								
-													Cust	omize
Vie	ew 🔹 De	fault Export	Force Un	register	AST Dev Notifica	tions: Reboot	Reload	• Fail	back As	of 10:35	АМ		AS	dvanced earch 🕨
7 Iter	ms 🍣 S	how All 🗸											Filter:	Enable
-	Datalla		First	Last	Actual	TD Address	Remote	Shared	Simult.	AST	Regist	ered		
-	Details	Address A	Name	Name	Location	IP Address	Office	Control	Devices	Device	Prim	Sec	Surv	Visitin
	►Show	66006@dr220.com	SIP 6	Avaya	DR-Loc	192.168.200.169			1/1		(AC)			
	►Show	66991@dr220.com	SIP1	Survey	DR-Loc	10.64.101.202			1/1		V			
-	Chaw	66000 @ d-000	C100	Cumunu	DB Los	10 64 101 000								

9.4. Verify OpenText Qfiniti Survey

Establish an ACD call from PSTN with an available agent. At end of ACD call, agent uses the phone to perform unsupervised transfer of PSTN caller to the Survey hunt group. Verify that PSTN caller hears the first Survey question and can use DTMF to respond to quantitative questions and leave voice messages for open-ended questions to complete the survey.

From the Qfiniti web interface, select **Surveys** \rightarrow **Survey Results**, followed by **Todays Completed Surveys** (not shown) in the left pane to display the screen below. Verify that there is an entry corresponding to last survey with proper values in the pertinent fields. Double click on the entry.

	op	ben	text" Qfin	iti ce	20.4					L	ogout	Qfiniti	Adr	ninistrator	Help
			🕤 Overview 👻 式	ams 🚽	🔱 Reco	rdings -	🖪 Rej	ports 🗸	르 Sun	veys -	🗘 🗘	minist	er		
	Surve	ys > Su	rvey Results > Todays S	Surveys											
>>	*	Open	🖉 Classify % Copy UR	L to clipbo	ard III -	Custom Co	olumns 🗸	目 Resul	15	Member	* 1	eam	E	Campaign	»
Surv		Surv	Survey Date	DNIS	Inbo	ANI	Login	First	Last	Mode		Voice		Status	
eys :		2	02/01/2022 1:25:00 PM	61003	66991	65001	65881	Agent1	Avaya	Call Tra	insfer	Yes		Survey Com	pleted
Sun															
vey R															
esults															

Verify that a pop-up screen is displayed with proper captured response for each survey question as shown below. Click on the **Play** option associated with **Voice Message**.

Play	🖉 Classify					Ó
Name		Survey Type	Date:	Team Member Name:	DNIS:	
Demo	Form (Version:2)	Inbound	2/1/2022 1:25:31 PM	Avaya, Agent1	61003	
1:	Press 1 to 5 Pres 1 2 3 4 or 5		3			
2:	Yes or no Yes or no		Yes			
3:	Voice Message Would you like to le	ave a voice message?		2		
				Delete Transcript	lay	

Verify that the voice response left by the PSTN caller can be played back.

ope	ntext [∞]	Qfiniti CE	E 20.4		Agent1 Date: 2/1/ Trans Id:	Avaya 2022 1:26:37 PM (387 ANI: DNI	ЛТС +00:00 S:
Export	📈 Call Analysis	🗸 Evaluate	Ø Classify	Markers	() Stopwatch	Attachments	My Timezone
							<
Length: 00:00:31		•	allower out - as the a second		igin integri manina inga	di - mini alla kana ka	lantan didda andynanda i 🛊 alkannaga siya a
00:00:06		ii.	10			20	
Original Size	🗆 😥	II) 🎯 (< 1x >			1/1 🕟	Player Status: Playing

10. Conclusion

These Application Notes describe the configuration steps required for OpenText Qfiniti Survey 20.4 to successfully interoperate with Avaya Aura® Communication Application Enablement Services 8.1.3 and Avaya Aura® Session Manager 8.1.3. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

11. Additional References

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

- **1.** *Administering Avaya Aura*® *Communication Manager*, Release 8.1.x, Issue 12, July 2021, available at <u>http://support.avaya.com</u>.
- **2.** Administering Avaya Aura® Application Enablement Services, Release 8.1.x, Issue 12, October 2021, available at http://support.avaya.com.
- **3.** Administering Avaya Aura® Session Manager, Release 8.1.x, Issue 10, September 2021, available at <u>http://support.avaya.com</u>.
- **4.** *OpenText Qfiniti Survey Configuration Guide*, Rev. 2019-Nov-14, available to existing customers at <u>https://knowledge.opentext.com/knowledge/llisapi.dll</u>.

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