

Avaya Solution & Interoperability Test Lab

Application Notes for Uptivity Discover with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services 6.3 using Service Observing – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for Uptivity Discover to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services 6.3 using Service Observing. Uptivity Discover is a call recording solution.

In the compliance testing, Uptivity Discover used the Telephony Services Application Programming Interface and Device, Media, and Call Control interfaces from Avaya Aura® Application Enablement Services to monitor skill groups and agent stations on Avaya Aura® Communication Manager, and capture the media associated with the monitored agents for call recording with the Service Observing method.

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 Uptivity Discover to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services 6.3 using Service Observing. Uptivity Discover is a call recording solution.

In the compliance testing, Uptivity Discover used the Telephony Services Application Programming Interface (TSAPI) and Device, Media, and Call Control (DMCC) interfaces from Avaya Aura® Application Enablement Services to monitor skill groups and agent stations on Avaya Aura® Communication Manager, and capture the media associated with the monitored agents for call recording.

The TSAPI interface is used by Uptivity Discover to monitor skill groups and agent stations on Avaya Aura® Communication Manager. The DMCC interface is used by Uptivity Discover to register virtual IP softphones, and for adding virtual IP softphones to active calls using the Service Observing method.

When there is an active call at the monitored agent, Uptivity Discover is informed of the call via event reports from the TSAPI interface. Uptivity Discover starts the call recording by using the Service Observing feature from the DMCC interface to add a virtual IP softphone to the active call to obtain the media. The event reports are also used to determine when to stop the call recordings.

2. General Test Approach and Test Results

The feature test cases were performed both automatically and manually. Upon start of the Discover application, the application automatically requests monitoring on skill groups and agent stations and performs device queries using TSAPI, and registers the virtual IP softphones using DMCC.

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

The serviceability test cases were performed manually by disconnecting/reconnecting the Ethernet connection to Discover.

The verification of tests included use of Discover logs for proper message exchanges, and use of Discover web interface for proper logging and playback of calls.

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.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on verifying the following on Discover:

- Handling of TSAPI messages in areas of event notification and value queries.
- Use of DMCC registration services to register and un-register the virtual IP softphones.
- Use of DMCC physical devices services and monitoring services to activate Service Observing for the virtual IP softphones and to obtain the media for call recording.
- Proper recording, logging, and playback of calls for scenarios involving inbound, outbound, internal, external, ACD, non-ACD, hold, reconnect, multiple calls, multiple agents, conference, and transfer.

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

2.2. Test Results

All test cases were executed, and there was one observation on Discover. With the noninstancing recording script, multiple simultaneous calls at the agent are lumped into one recording entry. Furthermore, for a call that was dropped during a server Ethernet disruption, the recording will be lumped with subsequent calls to the agent, and terminated by either the maximum silence or maximum duration detection.

2.3. Support

Technical support on Discover can be obtained through the following:

- **Phone:** (888) 922-5526, option 2
- Email: support@uptivity.com
- Web: <u>http://uptivity.com/support</u>

3. Reference Configuration

Discover can be configured on a single server or with components distributed across multiple servers. The compliance test configuration used a single server configuration.

The detailed administration of basic connectivity between Communication Manager and Application Enablement Services, and of contact center devices are not the focus of these Application Notes and will not be described.

In the compliance testing, Discover monitored the skill groups and agent stations shown in the table below.

Device Type	Extension
VDN	48001, 48002
Skill Group	48101, 48102
Supervisor	45000
Agent Station	45001, 45002
Agent ID	45881, 45882



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 on Avaya S8300D Server with Avaya G430 Media Gateway	6.3.2 (R016x.03.0.124.0-21053)	
Avaya Aura® Application Enablement Services	6.3.1 (6.3.1.0.19-0)	
Avaya 1608 IP Deskphone (H.323)	1.340B	
Avaya 9611G IP Deskphone (H.323)	6.3037	
Avaya 9650 IP Deskphone (H.323)	3.210A	
Uptivity Discover on Windows Server 2008 • Web Player (CallCopy.Web.dll) • cc_cticore.exe • Avaya TSAPI Windows Client (csta32.dll) • Avaya DMCC .NET (ServiceProvider.dll)	5.2 R2 Standard 5.2.67.11142 5.2.0.2849 6.1.0.396 4.2.47.0	

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 system parameters features
- Administer feature access codes
- Administer class of restriction
- Administer agent stations
- Administer virtual IP softphones

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 systemparameters customer-options" command to verify that the **Computer Telephony Adjunct Links** customer option is set to "y" on **Page 3**. If this option is not set to "y", then contact the Avaya sales team or business partner for a proper license file.

display system-parameters customer-option	s Page 3 of	11
OPTIONAL	FEATURES	
Abbreviated Dialing Enhanced List? y	Audible Message Waiting?	У
Access Security Gateway (ASG)? n	Authorization Codes?	У
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?	У
ARS/AAR Partitioning? y	Cvg Of Calls Redirected Off-net?	У
ARS/AAR Dialing without FAC? y	DCS (Basic)?	У
ASAI Link Core Capabilities? n	DCS Call Coverage?	У
ASAI Link Plus Capabilities? n	DCS with Rerouting?	У
Async. Transfer Mode (ATM) PNC? n		
Async. Transfer Mode (ATM) Trunking? n	Digital Loss Plan Modification?	У
ATM WAN Spare Processor? n	DS1 MSP?	v

Navigate to Page 6, and verify that the Service Observing (Basic) customer option is set to "y".

display system-parameters customer-options Page 6 of 11 CALL CENTER OPTIONAL FEATURES Call Center Release: 6.0 Reason Codes? y Service Level Maximizer? n Service Observing (Basic)? y Service Observing (Remote/By FAC)? y Service Observing (UDV) ACD? y Reason Codes? y BCMS (Basic)? y BCMS/VuStats Service Level? y BSR Local Treatment for IP & ISDN? y Service Observing (VDNs)? y Business Advocate? n Call Work Codes? y Timed ACW? y DTMF Feedback Signals For VRU? v Vectoring (Basic)? y Dynamic Advocate? n Vectoring (Prompting)? y

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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. Note that the CTI link number and extension number may vary. Enter "ADJ-IP" in the **Type** field, and a descriptive name in the **Name** field. Default values may be used in the remaining fields.

```
add cti-link 1 Page 1 of 3
CTI LINK
CTI Link: 1
Extension: 40001
Type: ADJ-IP
COR: 1
Name: AES CTI Link
COR: 1
```

5.3. Administer System Parameters Features

Use the "change system-parameters features" command, and navigate to **Page 11**. Set **Service Observing Warning Tone** to the needed setting per customer requirements, and enable **Allow Two Observers in Same Call**, as shown below.

```
change system-parameters features
                                                               Page 11 of 20
                       FEATURE-RELATED SYSTEM PARAMETERS
CALL CENTER SYSTEM PARAMETERS
 EAS
        Expert Agent Selection (EAS) Enabled? y
       Minimum Agent-LoginID Password Length:
         Direct Agent Announcement Extension:
                                                                 Delay:
   Message Waiting Lamp Indicates Status For: station
 VECTORING
                   Converse First Data Delay: 0
                                                    Second Data Delay: 2
               Converse Signaling Tone(msec): 100
                                                     Pause (msec): 70
                     Prompting Timeout(secs): 10
                 Interflow-qpos EWT Threshod: 2
    Reverse Star/Pound Digit For Collect Step? n
         Available Agent Adjustments for BSR? n
                            BSR Tie Strategy: 1st-found
   Store VDN Name in Station's Local Call Log? n
 SERVICE OBSERVING
             Service Observing: Warning Tone? n
                                                    or Conference Tone? n
    Service Observing Allowed with Exclusion? n
            Allow Two Observers in Same Call? y
```

5.4. Administer Feature Access Codes

Enter the "change feature-access-codes" command, and navigate to **Page 5**. Set **Service Observing Listen Only Access Code** to an available access code, and make a note of the value to be used later to configure Discover.

```
Page 5 of 10
change feature-access-codes
                              FEATURE ACCESS CODE (FAC)
                                Call Center Features
 AGENT WORK MODES
                          After Call Work Access Code: *14
                                   Assist Access Code:
                                  Auto-In Access Code: *11
                                 Aux Work Access Code:
                                     Login Access Code: *10
                                    Logout Access Code: *15
                                 Manual-in Access Code: *12
 SERVICE OBSERVING
            Service Observing Listen Only Access Code: *19
            Service Observing Listen/Talk Access Code:
                Service Observing No Talk Access Code:
  Service Observing Next Call Listen Only Access Code:
Service Observing by Location Listen Only Access Code:
Service Observing by Location Listen/Talk Access Code:
 AACC CONFERENCE MODES
                    Restrict First Consult Activation:
                                                             Deactivation:
                   Restrict Second Consult Activation:
                                                             Deactivation:
```

5.5. Administer Class of Restriction

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

```
change cor 2 Page 1 of 23

CLASS OF RESTRICTION

COR Number: 2
COR Description:

FRL: 0 APLT? y
Can Be Service Observed? y Calling Party Restriction: none
Can Be A Service Observer? y Called Party Restriction: none
Time of Day Chart: 1 Forced Entry of Account Codes? n
Priority Queuing? n Direct Agent Calling? n
Restriction Override: none Facility Access Trunk Test? n
Restricted Call List? n Can Change Coverage? n
```

5.6. Administer Agent Stations

Use the "change station n" command, where "n" is the first agent station extension from **Section 3**. For **COR**, enter the COR number from **Section 5.5**.

```
change station 45001
                                                                            1 of
                                                                     Page
                                                                                    4
                                        STATION
                                                                            BCC: 0
Extension: 45001
                                            Lock Messages? n
                                        Lock Messages? n
Security Code: 45001
Coverage Path 1: 1
Coverage Path 2:
    Type: 9611
                                                                              TN: 1
                                                                           COR: 2
COS: 1
     Port: S00000
     Name: G430 Station #1
                                         Hunt-to Station:
                                                                          Tests? y
STATION OPTIONS
                                              Time of Day Lock Table:
              Loss Group: 19
                                     Personalized Ringing Pattern: 1
                                                   Message Lamp Ext: 45001
        Speakerphone: 2-way
Display Language: English
able GK Node Name:
                                                Mute Button Enabled? y
                                                      Button Modules: 0
Survivable GK Node Name:
         Survivable COR: internal
                                                  Media Complex Ext:
   Survivable Trunk Dest? y
                                                         IP SoftPhone? y
                                                  IP Video Softphone? n
                                Short/Prefixed Registration Allowed: default
```

Repeat this section to administer all agent stations from **Section 3**. In the compliance testing, two agent stations were administered as shown below.

list station	45001 co	unt 2					
		STATIONS	5				
Ext/ Hunt-to	Port/ Type	Name/ Surv GK NN	Move	Room/ Data Ext	Cv1/ Cv2	COR CO	/ Cable/ S TN Jack
45001	S00000 1608	G430 Station #1	no		1	2 1	1
45002	S00008 9611	G430 Station #2	no		1	2 1	1

5.7. Administer Virtual IP Softphones

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

- **Extension:** The available extension number.
- **Type:** Any IP telephone type, such as "4624".
- Name: A descriptive name.
- Security Code: A desired code.
- **COR:** The COR number from **Section 5.5**.
- IP SoftPhone: "y"

```
Page 1 of 5
add station 45991
                                       STATION
Extension: 45991
                                          Lock Messages? n
                                                                          BCC: 0
                                        Security Code: 45991
Coverage Path 1:
Coverage Path 2:
     Type: 4624
                                                                            TN: 1
                                                                          COR: 2
     Port: IP
    Name: Discover Virtual #1
                                                                           COS: 1
                                         Hunt-to Station:
                                                                         Tests: y
STATION OPTIONS
                                            Time of Day Lock Table:
              Loss Group: 19
                                    Personalized Ringing Pattern: 1
       Speakerphone: 2-way
Display Language: english
able GK Node Name:
                                                  Message Lamp Ext: 45991
                                              Mute Button Enabled? y
                                                  Expansion Module? n
Survivable GK Node Name:
         Survivable COR: internal
                                                Media Complex Ext:
  Survivable Trunk Dest? y
                                                       IP SoftPhone? y
                                                 IP Video Softphone? n
                               Short/Prefixed Registration Allowed: default
                                                Customizable Labels? Y
```

Repeat this section to administer the desired number of virtual IP softphones. In the compliance testing, two virtual IP softphones were administered as shown below, to allow for simultaneous recording of two monitored agents in **Section 3**.

list station 45991 count 2						
		STATIONS				
Ext/ Hunt-to	Port/ Type	Name/ Surv GK NN	Move	Room/ Data Ext	Cv1/ Cv2	COR/ Cable/ COS TN Jack
45991	S00036	Discover Virtual #1	20			2
45992	\$00039	Discover Virtual #2	110			2
	4624		no			1 1

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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 H.323 gatekeeper
- Disable security database
- Restart services
- Obtain Tlink name
- Administer Discover user
- Enable ports

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	
		Не
	Please login here: Username Password Login Reset	
	Copyright © 2009-2013 Avaya Inc. All Rights Reserved.	

The Welcome to OAM screen is displayed next.

Αναγα Αρρ	lication Enablement Services Management Console	Welcome: User Last login: Tue Nov 19 07:58:13 2013 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.1.0.19-0 Server Date and Time: Tue Nov 19 07:58:28 MST 2013 HA Status: Not Configured			
Home		Home Help Logout			
AE Services					
Communication Manager Interface	Welcome to OAM				
High Availability	The AE Services Operations Administration and Man	accoment (OAM) Web provides you with tools			
▶ Licensing	for managing the AE Server. OAM spans the following administrative domains:				
Maintenance	AE Services - Use AE Services to manage all A the AE Service	AE Services that you are licensed to use on			
▶ Networking	Communication Manager Interface - Use Communication Manager Inter	munication Manager Interface to manage			
> Security	 High Availability - Use High Availability to man 	age AE Services HA.			
▶ Status	 Licensing - Use Licensing to manage the licens Maintenance - Use Maintenance to manage the 	e server. e routine maintenance tasks.			
▶ User Management	 Networking - Use Networking to manage the networking - Use Security to manage Linux user is 	etwork interfaces and ports. accounts, certificate, host authentication and			
▶ Utilities	 authorization, configure Linux-PAM (Pluggable Status - Use Status to obtain server status info 	Authentication Modules for Linux) and so on. omations.			
▶ Help	 User Management - Use User Management to r user-related resources 	manage AE Services users and AE Services			
	Utilities - Use Utilities to carry out basic connect Utilities - Use Utilities to carry out basic connect	ctivity tests.			
	neip - use neip to obtain a rew tips for using to Depending on your business requirements, these add	nie GAM neip system			
	administrator for all domains, or a separate administr	rator for each domain.			

6.2. Verify License

Select Licensing \rightarrow WebLM Server Access in the left pane, to display the Web License Manager pop-up screen (not shown), and log in using the appropriate credentials.

avaya	Application Enablement Services Management Console	Welcome: User Last login: Tue Nov 19 07:58:13 2013 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.1.0.19-0 Server Date and Time: Tue Nov 19 07:58:28 MST 2013 HA Status: Not Configured			
Licensing		Home Help Logout			
AE Services Communication Mana Interface	ger Licensing				
High Availability	If you are setting up and maintaining the WebLM, you ne	eed to use the following:			
* Licensing	WebLM Server Address				
WebLM Server Add	ress If you are importing, setting up and maintaining the licer	nse, you need to use the following:			
WebLM Server Ac	• WebLM Server Access				
Reserved Licenses	If you want to administer TSAPI Reserved Licenses or D	MCC Reserved Licenses, you need to use the			
▶ Maintenance	following:	following:			
▶ Networking	Reserved Licenses				

The Web License Manager screen below is displayed. 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** and **Device Media and Call Control**, as shown below. Note that the TSAPI license is used for device monitoring, and the DMCC license is used for the virtual IP softphones.

AVAYA We	b License Manager (W	/ebLM v6	.3) _{He}	alp About Char
WebLM Home	Application Enablement (CTI) - Rel	ease: 6 - SID:	10503000 S	tandard Licens
Install license	You are here: Licensed Products > Applicatio		View License Canacity	
Licensed products	Tou are nere. Licensed Frounds > Applicatio		view License Capacity	
APPL_ENAB	License installed on: May 11, 2012 7:07:47 PM -04:00			
 Application_Enablement 				
View license capacity	License File Host IDs: 00-16-3E-	48-ED-82		
View peak usage				
Uninstall license	Licensed Features			
Server properties				
Manage users	10 Items 🍣 Show ALL 💌			
	Feature (License Keyword)	Expiration date	e Licensed capacity	
Shortcuts	CVLAN ASAI VALUE AES CVLAN ASAI	permanent	16	
Help for Installed Product	Unified CC API Desktop Edition VALUE_AES_AEC_UNIFIED_CC_DESKTOP	permanent	10000	
	AES ADVANCED SMALL SWITCH VALUE_AES_AEC_SMALL_ADVANCED	permanent	16	
	CVLAN Proprietary Links VALUE_AES_PROPRIETARY_LINKS	permanent	16	
	Product Notes VALUE_NOTES	permanent	SmallServerTypes: s8300c;s8300d;icc;premio;tn8400;laptop;h MediumServerTypes: ibmx306;ibmx306m;dell1950;xen;hs20;hs LargeServerTypes: isp2100;ibmx305;dl380g3;dl385g1;dl385g TrustedApplications: IPS_001, BasicUnrestric DMCUnrestricted; IXP_001, BasicUnrestric DMCUnrestricted; ICP_001, BasicUnrestric DMCUnrestricted; OID, BasicUnrestric DMCUnrestricted; OID, BasicUnrestric DMCUnrestricted; VP_001, BasicUnrestric DMCUnrestricted; VP_001, BasicUnrestric DMCUnrestricted; SAMETIME_001, VALUE_AEC_UNIFIED_CC_DESKTOP;; CC AdvancedUnrestricted, DMCUnrestricted; AdvancedUnrestricted, DMCUnrestricted; AdvancedUnrestricted, DMCUnrestricted; AdvancedUnrestricted, DMCUnrestricted; AdvancedUnrestricted, DMCUnrestricted; AdvancedUnrestricted, DMCUnrestricted; DMCUnrestricted, AdvancedUnrestricted, DMCUnrestricted, DMCUnrestricted, AdvancedUnrestricted, I BasicUnrestricted, AdvancedUnrestricted, I DMCUnrestricted, AdvancedUnrestricted, I DMCUnrestricted, AdvancedUnrestricted, I DMCUnrestricted, AgentEvents;	Ctis 220_ 2;ul trict ted ted ted, CE_(CSI CSI AVA DMC ricte
	AES ADVANCED LARGE SWITCH VALUE_AES_AEC_LARGE_ADVANCED	permanent	16	
	TSAPI Simultaneous Users VALUE_AES_TSAPI_USERS	permanent	10000	
	DLG VALUE_AES_DLG	permanent	16	
	Device Media and Call Control VALUE_AES_DMCC_DMC	permanent	10000	
	AES ADVANCED MEDIUM SWITCH VALUE_AES_AEC_MEDIUM_ADVANCED	permanent	16	

6.3. Administer TSAPI Link

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

avaya	Application Ma	Application Enablement Services Management Console			Welcome: User Last login: Tue Nov 19 07:58:13 2013 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.10.019-0 Server Date and Time: Tue Nov 19 07:58:28 MST 2013 HA Status: Not Configured			
AE Services TSAPI T	SAPI Links				Home Help Logout			
▼ AE Services								
▷ CVLAN	TSAPI Li	nks						
> DLG	Link	Switch Connection	Switch CTI L	ink # ASAI Link Ve	ersion Security			
▶ DMCC	0,	58800	2	6	Both			
> SMS					Dour			
TSAPI	Add Lin	K Edit Link Delete Lin	ik					
 TSAPI Links TSAPI Properties 	s							

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, the existing switch connection "S8300D" is selected. For Switch CTI Link Number, select the CTI link number from Section 0. Retain the default values in the remaining fields.

avaya	Application Enablement Services Management Console	Welcome: User Last login: Tue Nov 19 07:58:13 2013 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: ass_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.1.0.19-0 Server Date and Time: Tue Nov 19 07:58:28 MST 2013 HA Status: Not Configured
AE Services TSAPI T	SAPI Links	Home Help Logout
AE Services CVLAN DLG DMCC SMS	Add TSAPI Links Link 2 Switch Connection S8300D Switch CTI Link Number 1	
	ASAI Link Version 6 V Security Unencrypted V Apply Changes Cancel Changes	

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6.4. Administer H.323 Gatekeeper

Select Communication Manager Interface \rightarrow Switch Connections from the left pane. The Switch Connections screen shows a listing of the existing switch connections.

Locate the connection name associated with the relevant Communication Manager, in this case "S8300D", and select the corresponding radio button. Click **Edit H.323 Gatekeeper**.

avaya	Application Enab Managemen	lement Se nt Console	ervices	We La: Nu Ho Se SV Se HA	Welcome: User Last login: Tue Nov 19 07:58:13 2013 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.10.019-0 Server Date and Time: Tue Nov 19 07:58:28 MST 2013 HA Status: Not Configured			
Communication Manage	r Interface Switch Connections	5				Home Help Logout		
AE Services								
 Communication Mana Interface 	ager Switch Connections							
Switch Connection	ns	Add Connecti	on					
Dial Plan	Connection Nam	e Processo	r Ethernet	Msg Per	iod Numbe	r of Active Connections		
High Availability		No		30	1			
Licensing								
Maintenance	U \$8800	No		30	1			
Networking	Edit Connection	Edit PE/CLAN IPs Edit H.323		Gatekeeper	atekeeper Delete Connection Survivability			
Security								

The **Edit H.323 Gatekeeper** screen is displayed. Enter the IP address of a C-LAN circuit pack or the Processor C-LAN on Communication Manager to be used as the H.323 gatekeeper, in this case "10.32.39.83" as shown below. Click **Add Name or IP**.

avaya	Application Enablement Services Management Console	Welcome: User Last login: Tue Nov 19 07:58:13 2013 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.1.0.19-0 Server Date and Time: Tue Nov 19 07:58:28 MST 2013 HA Status: Not Configured
Communication Manage	r Interface Switch Connections	Home Help Logout
> AE Services		
Communication Man Interface	ager Edit H.323 Gatekeeper - S8300D	
Switch Connectio	ns 10.32.39.83 Add Name or IP	
► Dial Plan	Name or IP Address	
High Availability	Delete IP Back	
▶ Licensing		
Maintenance		
▶ Networking		

6.5. Disable 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. Uncheck both fields below.



6.6. Restart Services

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

avaya	Application Enablement Services Management Console	Welcome: User Last login: Tue Nov 19 07:58:13 2013 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.1.0.19-0 Server Date and Time: Tue Nov 19 07:58:28 MST 2013 HA Status: Not Configured
Maintenance Service Co	ontroller	Home Help Logout
AE Services Communication Mana Interface	service Controller	
High Availability	Service Controller Status	
▶ Licensing	ASAI Link Manager Running	
▼ Maintenance	DMCC Service Running	
Date Time/NTP Serv	er CVLAN Service Running	
Security Database	DLG Service Running	
Service Controller	Transport Layer Service Running	
Server Data	TSAPI Service Running	
▶ Networking	For status on actual services, please use Status and Control	
▶ Security	Start Stop Restart Service Restart AE Server	Restart Linux Restart Web Server
▶ Status		
▶ User Management		

6.7. Obtain Tlink Name

Select Security \rightarrow Security Database \rightarrow Tlinks from the left pane. The Tlinks screen shows a listing of the Tlink names. A new Tlink name is automatically generated for the TSAPI service. 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 Discover.

In this case, the associated Tlink name is "AVAYA**#S8300D**#CSTA#AES_125_72". Note the use of the switch connection "S8300D" from **Section 6.3** as part of the Tlink name.

avaya	Application Enablement Services Management Console	Welcome: User Last login: Tue Nov 19 07:58:13 2013 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.10.19-0 Server Date and Time: Tue Nov 19 07:58:28 MST 2013 HA Status: Not Configured
Security Security Data	base Tlinks	Home Help Logout
 AE Services Communication Mana Interface High Availability 	iger Tlinks Tlink Name	
▶ Licensing	AVAYA#S8300D#CSTA#AES_125_72	
Maintenance	O AVAYA#S8800#CSTA#AES_125_72	
Networking	O AVAYA#S8800#CSTA-S#AES_125_72	
▼ Security	Delete Tlink	
Account Manageme	ent	
Audit		
Certificate Manage	ment	
Enterprise Director	у	
▶ Host AA		
► PAM		
* Security Database	8	
 Control ⊕ CTI Users Devices Device Groups Tlinks 		

6.8. Administer Discover 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.

	cation Enable Management	ces	Welcome: User Last login: Tue Nov 19 07:58:13 2013 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: acs_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.1.0.19-0 Server Date and Time: Tue Nov 19 07:59:20 MST 2013 HA Status: Not Configured	
User Management User Admin	Add User			Home Help Logout
 AE Services Communication Manager Interface High Availability Licensing Maintenance Networking Security Status User Management Service Admin Add User Change User Password List All Users Modify Default Users Search Users Utilities 	Add User Fields marked with * can a * 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	not be empty. discover discover ••••••••••••••••••••••••••••••••••••		
▶ Help	Employee Number Employee Type Enterprise Handle Given Name			

6.9. Enable Ports

Select **Networking** \rightarrow **Ports** from the left pane, to display the **Ports** screen in the right pane.

In the **DMCC Server Ports** section, select the radio button for **Unencrypted Port** under the **Enabled** column, as shown below. Retain the default values in the remaining fields.

Ανάγα Αρ	plication Enab Managemer	s	Welcome: User Last login: Tue Nov 19 07:58:13 2013 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.1.0.19-0 Server Date and Time: Tue Nov 19 07:58:28 MST 2013 HA Status: Not Configured		
Networking Ports				Home Help	Logout
> AE Services					
 Communication Manager Interface 	Ports				
High Availability	CVLAN Ports			Enabled Disabled	
▶ Licensing		Unencrypted TCP Port	9999	 O 	
Maintenance		Encrypted TCP Port	9998	• •	
▼ Networking			93 1994 - 19 (1994)		
AE Service IP (Local IP)	DLG Port	TCP Port	5678		
Network Configure	TSAPI Ports			Enabled Disabled	
Ports		TSAPI Service Port	450	\odot \bigcirc	
TCP Settings		Local TLINK Ports			
▶ Security		TCP Port Min	1024		
▶ Status		Unencrypted TLINK Ports	1039		
k User Management		TCP Port Min	1050		
		TCP Port Max	1065		
		Encrypted TLINK Ports			
▶ нер		TCP Port Min	1066		
		TCP Port Max	1081		
	DMCC Server Ports			Enabled Disabled	
		Unencrypted Port	4721	• O	
		Encrypted Port	4722	• O	
		TR/87 Port	4723	0 0	

7. Configure Uptivity Discover

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

- Launch web interface
- Administer CTI cores
- Administer voice boards

The configuration of Discover is performed by the Uptivity installation team. The procedural steps are presented in these Application Notes for informational purposes.

7.1. Launch Web Interface

Access the Discover web-based interface by using the URL "http://ip-address" in an Internet browser window, where "ip-address" is the IP address of the Discover server. Log in using the appropriate credentials.



7.2. Administer CTI Cores

The screen below is displayed. Select the **Administration** tab from the top menu, followed by **Recorder Settings** \rightarrow **CTI Cores** from the left pane, to display the **CTI Cores List** in the right pane.

Click on the pencil icon associated with the relevant CTI core entry, in this case "Service Observe". Note that the name may vary.

cc: Dis	cover				((CallCopy	
Home	Web Player	Coaching	Reporting	Administration		.ogged in as superuser Change Password Logout
Core Fun	ctions					
Permission	IS	СТІ	Cores List			Add Core
Scheduling	3	#	t,		Name	
schedding	i.	1	Service C	bserve		
Tools						•
Recorder S	ettings	-				
CTI Cores						
IP Phones	оокир					
On Deman	d					
Voice Boar	rds					

The **Settings** screen is displayed next. Scroll all the way down to the bottom of the screen, and click on the pencil icon associated with the **cc_AvayaTSAPIFx** entry (not shown).

cc : Discover			(() CaliCopy		
Home Web Player Coa	ching Reporting Survey	s Administration Logged in as sur	peruser Change Password Logout		
Core Functions Add-Ons					
Permissions	Settings				
Scheduling	Nama	Partiles Observe			
Tools	Host :	10.64.101.48			
Recorder Settings	Port :	5685			
CTI Cores Custom Lookup	Monitor Reload Frequency :	300	(s)		
IP Phones On Demand	Record Method :	Service Observe	~		
Transcoder Voice Boards	Playback Method :	- Select -	×		
	Enable Event Interface :	Yes	S		
	Api Commands To Script :	No	~		
	API Port	6620			
	JCOM Timeout Interval :	300	(ms)		
	JCOM Reconnect Interval :	300	(ms)		

Solution & Interoperability Test Lab Application Notes ©2014 Avaya Inc. All Rights Reserved. The **Avaya TSAPI Settings** screen is displayed. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Server Name: The Tlink name from Section 6.7.
- Server Username: The Discover user credentials from Section 6.8.
- Server Password: The Discover user credentials from Section 6.8.

In the **Monitors** section, create an entry for each agent station and skill group from **Section 3**, with "Device" and "Group" as **Monitor Type** respectively, as shown below.

cc : Dis	cover								(()) CallCopy
Home	Web Player	Coaching	Reportin	Administration	<mark>b</mark> e		Logged in	n as superus	er Change Password Logout
Core Fun	nctions								
Permission	ıs	Ava	iya TSAPI ::	Settings					Back Save
Users Groups				Server Name	AVAYA#S830	0D#CSTA#AE	ES_125_72		
Roles				Server Username	discover				
				Server Password					
				Regsiter Monitor Delay	1000				
		3	Number of Al	ES Connection Attempts	0				
			Private Data Type :						
			TS Version : Query Info On Establish : Register DMCC by Agent Login :			TS1-2			
								~	
								1.0	
			Mo	onitor Devices by Group	No			~	
Scheduling	í.	Mo	nitors:						
			Monitor Type	e: Device	(•			
loois		Mc	onitor Values	1		×			
Recorder S	ettings		Prefix	8					
System Set	ttings		Postfix	:					
		F	Filter Monitors : All Monitors			v 7			
Web Portal	Settings		ID	Monitor Type	e				
		450	01	device	-				
		450	02	device	13				
		481	01	group	1	6			
		481	02	group					

Return to the **Settings** screen. Scroll all the way down to the bottom of the screen, and click on the pencil icon associated with the **cc_AvayaDMCC** entry (not shown).

The **Avaya DMCC Settings** screen is displayed. For **Service Observe Code**, enter the Service Observing listen only feature access code from **Section 5.4**. Retain the default values for the remaining fields.

cc : Discover							((CallCo		
Home	Web Player	Coaching	Reporting	Surveys	Administrat	on	Logged	in as superus	ser Change Password Logou
Core Fun	ctions Add-0	ns							
Permission	15	Ava	iya DMCC :: Set	tings					Back Save
Users Groups Roles				Service	e Observe Code :	*19			
				Dial Service (Dial Digit Delay : Observe by Alias	100 No	~	(ms)	
				Register	DMCC Monitors :	No	~		
				Generat	e Phone Events :	No	~		

7.3. Administer Voice Boards

Select **Recorder Settings** \rightarrow **Voice Boards** from the left pane, to display the **Voice Boards List** in the right pane.

Click on the pencil icon associated with the relevant voice board entry, in this case "AVAYADMCC". Note that the name may vary.

cc : Discover			(()) CallCop		
Home Web Player	Coaching Repor	rting Administration	Logged in as super	user Change Password Logout	
Core Functions					
Permissions	Voice Board	ls List	Add Board Clear Board	Save Configuration	
Scheduling	#	Name	Channe	ls 🔶	
Tools	1 ,	AVAYADMCC	2	(/)*	
Recorder Settings				•	
CTI Cores Custom Lookup IP Phones On Demand Transcoder Voice Boards					

The **Avaya DMCC Board Options** screen is displayed. For **AES/DMCC Host**, enter the IP address of Application Enablement Services. For **DMCC User** and **DMCC Password**, enter the Discover user credentials from **Section 6.8**. Retain the default values in the remaining fields.

cc : Dis	cover						(() CallCopy
Home	Web Player	Coaching	Reporting	Administration		Logged in as super	ruser Change Password Logout
Core Fun	octions						
Permission	IS	Ava	ya DMCC :: Boa	rd Options			Cancel Save
Users Groups				Number of Channel	2		
Roles				Virtual Board Host :	http://127.0.0.1:2002		
				AES/DMCC Host :	10.64.125.72		
				Use Media Server : :	Yes	~	
				Media Server Host : :	127.0.0.1		
				Media Server Port : :	5630		
				Secure DMCC Connection :	False	~	
				Encrypted RTP Stream :	False	~	
				DMCC Port :	4721		
				DMCC Application Name :	CallCopy		
Scheduling				DMCC User :	discover		
scheuuling	0			DMCC Password :	•••••		
Tools				DMCC Protocol Version :	3.0	~	
Recorder S	ettings		DMCC Pr	otocol Session Cleanup Delay :	5		

TLT; Reviewed: SPOC 1/17/2014

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In the **Channel Configuration** section, update the channel entries with the virtual IP softphone extension and security code from **Section 5.7**, as shown below. Note that the number of channel entries is controlled by the Discover license.

Recorder Settings	DMCC Protocol Se	ssion Cleanup D	elay : 5					
System Settings	DMCC Proto	col Session Duri	ation : 180					
Web Dentel Cettingen	Avay	a Call Manager	Host : 10.32.3	39.83				
Web Portal Settings		Logging Server	Port : 2003					
		API Server	Host : 127.0.0	D.1				
		API	Port : 5620					
	AP	Connection Tim	eout : 1000					
		API Socket Tim	eout : 10000					
		API Reconnect 1	Tries : 5000					
	DMCC S	Station Endpoint	Host : 10.64.1	101.48				
		DMCC (Codec G.711	- Mu-Law		*		
	RTP List	ening Interface (NIC) : C6D12	F1A-4B6E-4FF	A-A908-B75AFD0F77F0			
	DMCC Statio	n Endpoint Initial	Port : 7000					
	Temp	Recording Loca	ation : c:\defa	ult_rec				
		UNC P	aths :		Add			
			Local	l.	Remote			
	Board1 of 4 :: Channel Con	figuration						
	Channels Per Page : 25			*				
	#Assign	Station			Password		Name	
	1 Anything	45991			45991			
	2 Anything	45992			123456			

8. Verification Steps

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

8.1. Verify Avaya Aura® Communication Manager

On Communication Manager, verify the 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.

statu	s aesvcs	cti-li	nk			
			AE SERVICES	CTI LINK STAT	US	
CTI Link	Version	Mnt Busy	AE Services Server	Service State	Msgs Sent	Msgs Rcvd
1	6	no	aes_125_72	established	60	62

Verify the registration status of the virtual IP softphones by using the "list registered-ip-stations" command. Verify that all virtual IP softphone extensions from **Section 5.7** are displayed along with the IP address of the Application Enablement Services server, as shown below.

list register	list registered-ip-stations								
		REGIST	ERED	IP STATIONS					
Station Ext or Orig Port	Set Type/ Net Rgn	Prod ID/ Release	TCP Skt	Station IP Address/ Gatekeeper IP Address					
45000	9650 1	IP_Phone 3.210A	У	10.32.39.104 10.32.39.83					
45001	1608 1	IP_Phone 1.340B	У	10.32.39.105 10.32.39.83					
45002	9611 1	IP_Phone 6.3037	У	10.32.39.106 10.32.39.83					
45991	4624 1	IP_API_A 3.2040	У	10.64.125.72 10.32.39.83					
45992	4624 1	IP_API_A 3.2040	У	10.64.125.72 10.32.39.83					

8.2. Verify Avaya Aura® Application Enablement Services

On Application Enablement Services, verify the status of the TSAPI link by selecting Status \rightarrow Status and Control \rightarrow TSAPI Service Summary from the left pane. The TSAPI Link Details screen is displayed.

Verify 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**.

avaya	Applic	atio	on E ^{Aana}	gement	emer Conso	nt Sei le	r <mark>vic</mark> es		Welcome: User Last login: Thu Nov 21 14:29:23 2013 from 10.32.39.2 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.1.0.19-0 Server Date and Time: Thu Nov 21 15:03:29 MST 201 HA Status: Not Configured						
Status Status and Cont	trol TSAPI S	Servio	e Sun	nma ry							Но	me Hel	lp Logo		
AE Services															
Interface	ager	TSAP	l Link	Details											
High Availability		Ena	able pag	ge refresh e	very 60	v second	ls								
▶ Licensing					F										
Maintenance				Switch	Switch				Switch		Msgs	Msgs	Mene		
▶ Networking			Link	Name	Link	Status	Since	State	Version	Associations	to Switch	from Switch	Period		
▹ Security					10							1 1			
▼ Status		0	1	S8800	2	Talking	Fri Nov 8 06:50:48	Online	16	0	15	15	30		
Alarm Viewer		_					2013	<u></u>			-				
Log Manager		0	2	\$8300D	1	Talking	Thu Nov 21	Online	16	4	62	60	30		
▶ Logs					.	landing	06:48:51 2013	- Children		<u>A</u>		75			
* Status and Contro	d l	Onl	ine	Offline											
 CVLAN Service SI DLG Services Sur DMCC Service Su Switch Conn Sun TSAPI Service S 	ummary mmary Immary nmary Summary	For ser	vice-wi	ide informat vice Statu	ion, choos s TLin	e one of the k Status	e following: User Sta	itus							

Verify the status of the DMCC link by selecting Status \rightarrow Status and Control \rightarrow DMCC Service Summary from the left pane. The DMCC Service Summary – Session Summary screen is displayed.

Verify the User column shows an active session with the Discover user name from Section 6.8, and that the **# of Associated Devices** column reflects the total number of configured channels from Section 7.3.

	ication Enablement S Management Console	ervice	W La Nu Se Si Si Si	Welcome: User Last login: Thu Nov 21 14:29:23 2013 from 10.32.39.20 Number of prior failed login attempts: 0 HostName/IP: aes_125_72/10.64.125.72 Server Offer Type: VIRTUAL_APPLIANCE_ON_SP SW Version: 6.3.1.0.19-0 Server Date and Time: Thu Nov 21 15:03:39 MST 2013 HA Status: Not Configured					
Status Status and Control DMC	C Service Summary				(He	ome Help Logout			
▹ AE Services									
Communication Manager Interface	DMCC Service Summary - Session	Summar	1						
High Availability	Enable page refresh every 60 💌 sec	onds							
▶ Licensing	Session Summary Device Summary								
▶ Maintenance	Generated on Thu Nov 21 15:03:39 MST 201	3		300 12 12					
▶ Networking	Service Uptime: Number of Active Sessions:		7 days, 23 h	, 23 hours 17 minutes					
▹ Security	Number of Sessions Created Since S	ervice Boo	t: 79						
▼ Status	Number of Existing Devices: Number of Devices Created Since Se	ervice Boot	2 66						
Alarm Viewer	and the second second			East and	Connection	<u># of</u>			
Log Manager	Session ID	<u>User</u>	Application	<u>Identifier</u>	<u>Type</u>	Associated Devices			
▶ Logs	CEB51AB99E70AC569	discover	CallConv	10 64 101 48	XML	2			
Status and Control	B2D783B2CA4C001-1018	discover	CallCopy	10.04.101.40	Unencrypted	2			
 CVLAN Service Summary DLG Services Summary DMCC Service Summary Switch Conn Summary 	Terminate Sessions Show Terminated Sessions Item 1-1 of 1 1 Go 1								

8.3. Verify Uptivity Discover

Log an agent into the skill group to handle and complete an ACD call. Follow the procedures in **Section 7.1** to log in to the Discover web-based interface.

Select the **Web Player** tab from the top menu, to display a list of recording entries for the current day. Verify that there is an entry reflecting the last call, with proper values in the relevant fields.

cc:	Di	sco	wei	٣				9			2								((CallCop
Hor	ne List	V t L	/eb P ive M	layer onito	r	Coach	ning	Re	por	ting	Su	rveys	Ad	ministration				Logged in as si	uperuser Change	Password Logo
Cale	nda	r					1	Filte	r	Curr	ent F	ilter:	Time	Recorded ×						Settings
	N	over	nhar	201	3			۴	Ree	cord I	DN	Voice I	Port	Time Recorde	d	Duration	Agent Number	Number Called DNIS	CallerID ANI	Call Direction
Su	Мо	Tu	We	Th	Fr 1	Sa	D			87		450	01	11/21/2013 4	:39:58 PM	00:00:44	45881	9088448001	7328883754	I
3	4	5	6	7	8	9														
10	11	12	13	14	15	16														
17 24	18 25	19 26	20 27	21 28	22 29	23 30														

Double click on the entry to listen to the playback. Verify that the screen is updated and that the call recording is played back.

cc: Discover	1			-	~								(((()) c	allCopy
Home Web Player Coac	hing	Report	ing	Surve	eys A	dministra	tion				Logged in a	s superuser Cha	nge Passwor	d Logou
Calendar Calendar November, 2013	Fil	ter	Curre	ent Filte	er: Tim	e Record	led X ecorded		Duration	Agent Number	Number Called DNIS	CallerID ANI	Call Direct	tings
Su Mo Tu We Th Fr Sa 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Page	PS* 1	87		45001	11/21/		258 PM	• • • •	45881	9088448001	Go To Page:	of 1	,
Agent	Web	Playe	r Lave	r Dataile										↓ 7 ×
Project Groups	Ť	I	D 1	Start 0:24	Stop	Type	Info							
ACD Gate				0.24	0.20	Sherice								
Group Categories														
My Filters														
Tag Cloud		Playbac	k Det 0:11 /	ails 0:44	4 0) —	•	m ["III	andandara.				- 	. 41.	^

9. Conclusion

These Application Notes describe the configuration steps required for Uptivity Discover to successfully interoperate with Avaya Aura® Communication Manager and Avaya Aura® Application Enablement Services 6.3 using Service Observing. All feature and serviceability test cases were completed with an observation noted in **Section 2.2**.

10. Additional References

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

- 1. *Administering Avaya Aura*® *Communication Manager*, Document 03-300509, Issue 9, Release 6.3, October 2013, available at <u>http://support.avaya.com</u>.
- **2.** Avaya Aura® Application Enablement Services Administration and Maintenance Guide, Release 6.3, Issue 2, October 2013, available at http://support.avaya.com.
- **3.** *Avaya DMCC Service Observe Integration Guide*, v5.2, May 2013, available upon request to Uptivity Support.

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