

Avaya Solution & Interoperability Test Lab

Application Notes for Plantronics Hub Software and Plantronics Blackwire C315/C325 USB Corded Headsets with Avaya E159 Media Station - Issue 1.0

Abstract

These Application Notes describe the configuration steps required to integrate the Plantronics Hub Software and Plantronics Blackwire C315/C325 USB Corded Headsets with Avaya E159 Media Station using SIP protocols. The Blackwire C315/C325 USB corded headsets provide two-way audio with a flexible microphone and call control buttons. This solution provides call control features directly from the headset, such as answering or terminating a call from the headset, adjusting volume control and mute from the headset.

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 to integrate the Plantronics Hub Software and Plantronics Blackwire C315/C325 USB Corded Headsets with Avaya E159 Media Station using SIP protocol. The Blackwire C315/C325 USB corded headsets provide two-way audio with a flexible microphone and call control buttons. This solution provides call control features directly from the headset, such as answering or terminating a call from the headset, adjusting volume control and mute/unmute from the headset.

2. General Test Approach and Test Results

The interoperability compliance test included feature and serviceability testing. The feature testing focused on placing calls to and from E159 Media Station with the Plantronics Blackwire C315/C325 USB corded headsets and verifying two-way audio, call control from the headset. The call types included calls to voicemail, local extensions, and the PSTN.

The serviceability testing focused on verifying the usability of the Plantronics headsets after restarting E159 Media Station and re-connecting the headset to USB port on E159 Media Station.

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's formal testing and Declaration of Conformity is provided only on the headsets/handsets that carry the Avaya brand or logo. Avaya may conduct testing of non-Avaya headset/handset to determine interoperability with Avaya phones. However, Avaya does not conduct the testing of non-Avaya headsets/handsets for: Acoustic Pressure, Safety, Hearing Aid Compliance, EMC regulations, or any other tests to ensure conformity with safety, audio quality, long-term reliability or any regulation requirements. As a result, Avaya makes no representations whether a particular non-Avaya headset will work with Avaya's telephones or with a different generation of the same Avaya telephone.

Since there is no industry standard for handset interfaces, different manufacturers utilize different handset/headset interfaces with their telephones. Therefore, any claim made by a headset vendor that its product is compatible with Avaya telephones does not equate to a guarantee that the headset will provide adequate safety protection or audio quality.

2.1. Interoperability Compliance Testing

All test cases were performed manually. The following features were verified:

- Placing calls to the voicemail system. Voice messages were recorded and played back to verify that the playback volume and recording level were good.
- Placing calls to internal extensions to verify two-way audio.
- Placing calls to the PSTN to verify two-way audio.
- Incoming call alert notification.
- Hearing ring back tone for outgoing calls.
- Using the call control button on the Plantronics headset.
- Using the volume control and mute buttons on the Plantronics headset.
- Answering and terminating calls using E159 Media Station to verify status of call control is reflected on the Plantronics headset.
- Using the Plantronics headset with E159 Media Station using SIP protocol only.

For the serviceability testing, the Plantronics headset is reconnected to USB port, and restarts E159 Media Station to verify proper operation of the headset.

2.2. Test Results

All test cases executed and passed successfully.

2.3. Support

For technical support and information on Plantronics Blackwire C315/C325 USB Corded Headsets, contact Plantronics Support at:

Phone: 1-855-765-7878

1-831-426-5858 (International)

• Website: <u>http://www.plantronics.com/us/support/index.jsp</u>

3. Reference Configuration

Figure 1 illustrates the test configuration used to verify the Plantronics Blackwire C315/C325 Headsets with E159 Media Station. The configuration consists of an Avaya S8800 Server running Avaya Aura® Communication Manager with an Avaya G450 Media Gateway providing connectivity to the PSTN via an ISDN-PRI trunk. SIP endpoints provisioned by using Avaya Aura® System Manager and registered with Avaya Aura® Session Manager, Avaya Aura® Messaging was used as the voicemail system. The Plantronics Blackwire C315/C325 headsets were connected to USB port of E159 Media Station.



Figure 1: Avaya E159 Media Station with Plantronics Blackwire C315/325 Headsets and Plantronics Hub Software

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 running on an Avaya S8800 Server	6.3 SP 12 (R016x.03.0.124.0 w/Patch 22505)			
Avaya Media Gateway G450	37.19.0			
Avaya Aura® Session Manager	6.3 SP 14 (6.3.14.0.631402)			
Avaya Aura® System Manager	6.3. SP 14 (6.3.14.11.3595)			
Avaya Aura® Messaging	6.3.1			
Avaya 96x1 Series IP Deskphones	6.5 (SIP)			
Avaya 96x0 Series IP Deskphones	3.25 (H323)			
Avaya E159 Media Station	1.1.0.1 (Firmware 825)			
Avaya 9408 Digital Deskphone	Firmware12			
Analog phone	N/A			
Plantronics Blackwire C315/C525 Headsets	V145			
Plantronics Hub Software	3.6.51102.21715			

5. Configure a Station for E159 Media Station using SIP

This section shows configuration in System Manager to create a SIP user that is used to log on from E159 Media Station.

From the homepage of System Manager, navigate to Home \rightarrow Users \rightarrow User Management \rightarrow Manager Users, the User Management page is displayed in the right hand side as shown below.

Note: The initial installation, configuration, and licensing of System Manager, Session Manager and Communication Manager servers are assumed to have been previously completed and are not discussed in these Application Notes. These Application Notes focus on describing the sample configuration as it relates to creating a SIP user.

AVAYA Aura [®] System Manager 6.3						Leef Log	ged on at September 30, 2015 10-11 PM
Home User Management	* User Hanageme	ent *				60	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
* User Management	Home / Users / Us	er Management	/ Manage Users				0
Manage Users	Search			0			Help ?
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	E Last Nome	First Name =	Display Name	Login Name	STP Handle	Last Login	
	Avaya SIP	53100	Avaya SIP, 53100	53100@bvwdev.com	53100		
	📃 Avaya SIP	53101	Avaya SIP, 53101	53101@bvwdev.com	53101		
	Avaya SIP	53102	Avaya SIP; 53102	53102@bvwdev.com	53102		

Click on **New** button on the **User Management** page above to create a new SIP user. The **New User Profile** displays, enter parameters of new SIP user in the **Identity** tab as shown below. The fields marked with red star are mandatory and require providing information.

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Public Contacts	lew User	r Profile				Commit & Continue	Commit	Cancel
Shared Addresses								
System Presence ACLs	Identity *	Communication Profile	Membership	Contacts				Ĵ
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Pelicy		User Provisioning Nule	6 L					
	Identity							
		* Last Name	: StP	1				
		ast Name (Latin Translation)	SIP	1				
		* First Name	53117					
	្ន	First Name (Latin Translation)	53117	1				
		Middle Name	e [
		Weissler State						
		Description	(E)					
		* Login Name	: 53117@byw	dev.com				
		* Authentication Type	Basic					
		Password	t:					
		Confirm Password	t					
		Localized Display Name	e. [1				
		Endpoint Display Name	e [
		Title	e [

Next is select the **Communication Profile** tab, enter a password e.g. 1234 in **Communication Profile Password** and **Confirm Password** fields. Note that this password is used to log on the SIP user from E159 Media Station.

Under the **Communication Address** section, click on **New** button to add a new communication address, select Type as **Avaya SIP**, enter a directory number *53117* this is the directory number of SIP user and select *bvwdev.com* domain in the dropdown menu. Note: the domain *bvwdev.com* is previously provisioned when Session Manager installed and configured.

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fanage Users								- 17
Public Contacts	New Use	er Profile				Commit & Continue	Commit	Cance
Shared Addresses								
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			Type:	Avaya SIP				
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Check on the **Session Manager Profile** section, in the **SIP Registration** subsection, select the Session Manager system *DevSM* in the **Primary Session Manager**, select application sequences *DevCM-SEQ* in both **Origination Sequence** and **Termination Sequence** and in the **Call Routing Settings** section, select *Belleville* in the **Home Location**. Note that the Session Manager SIP entity *DevSM*, the Application Sequence *DevCM-SEQ* and the home location *Belleville* are previously provisioned.

Session Manager Profile 🖲	
SIP Registration	
* Primary Session Manager	DevSM
Secondary Session Manager	(None)
Survivability Server	(None)
Max. Simultaneous Devices	1
Block New Registration When Maximum Registrations Active?	
Application Sequences	
Origination Sequence	DevCM-SEQ 🔹
Termination Sequence	DevCM-SEQ
Call Pouting Settings	
* Home Location	Belleville
Conference Factory Set	(None)
Coll Wistows Cottings	
Enable Centralized Call History?	
Collaboration Environment Prof	ile 🖲
CM Endpoint Profile 💌	
* System	DevCM
* Profile Type	Endpoint
Use Existing Endpoints	
* Extension	Q 53117 Endpoint Editor
* Template	9640SIP_DEFAULT_CM_6_3
Set Type	9640SIP
Security Code	
Port	IP
Voice Mail Number	
Preferred Handle	(None)

Solution & Interoperability Test Lab Application Notes ©2015 Avaya Inc. All Rights Reserved. Check on **CM Endpoint Profile**, select Communication Manager system *DevCM* in the **System** field and select *Endpoint* in the **Profile Type** field. In the **Extension** field, enter the number *53117* and select the SIP template *9640SIP_DEFAULT_CM_3* in the **Template** field.

CM Endpoint Profile 💌	
* System	DevCM 🔹
* Profile Type	Endpoint
Use Existing Endpoints	
* Extension	Q 53117 Endpoint Editor
* Template	9640SIP_DEFAULT_CM_6_3
Set Type	9640SIP
Security Code	
Port	Ib .
Voice Mail Number	
Preferred Handle	(None)

Select the **Endpoint Editor** in the screenshot above to configure feature for SIP user, in the **Feature Options** tab select **IP Softphone** check box as shown in the screenshot below. Click **Done** (not shown) in this page to go back to the **Communication Profiles** page, and in the Communication Page click **Commit** button to complete and save the newly SIP user.

Port Name	IP SIP,53117	Security Code	
General Options (G) * Button Assignment (B)	Feature Options (F) Site Date Group Membership (M)	Abbreviated Call D	ialing (A) Enhanced Call Fwd (E
Active Station Ringing MWI Served User Type Per Station CPN - Send Calling Number IP Phone Group ID Remote Soft Phone Emergency Calls LWC Reception AUDIX Name Speakerphone	single None Some Some Some Some Some Some Some Som	Auto Answer Coverage After Forwarding Display Language Hunt-to Station Loss Group Survivable COR Time of Day Lock Table	none system english 19 internal None
Short/Prefixed Registration Allowed EC500 State	default 💌 enabled 💌	Voice Mail Number Music Source	
Always Use Always Use IP Audio Hairpinn Bridged Call Alert Bridged Idle Line Coverage Messar	ing Preference	 Idle Appearance F IP SoftPhone LWC Activation CDR Privacy 	Preference
Data Restriction Survivable Trunk Dest		 Direct IP-IP Audio H.320 Conversion 	Connections
Bridged Appearar Restrict Last App Turn on mute for	nce origination Restriction pearance remote off-hook attempt	IP Video Softphon Per Button Ring C	ontrol

6. Configure Avaya E159 Media Station

This section provides configuration of Avaya E159 Media Station to register to Session Manager using the SIP user provisioned in **Section 5** above.

This section uses Avaya Media Station application downloaded from Apple store for iPhone to configure E159 Media Station register to Session Manager.

Connect iPhone to E159 Media Station using provided cable that comes with E159 Media Station, start Avaya Media Station application on iPhone. Select the **Settings** icon in the bottom right corner as shown in the screen shot below.



The **Settings** window displays, select **Account Setup** (not shown). In the **Account Setup**, enter the SIP user *53117* in the **Username** field, its password in the **Password** field and the domain *bvwdev.com* in the **Domain** field. Enable the **Advanced Parameters** option.

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< Back	Avaya	Sign In
Username	53117	
Password		
Domain	bvwdev.com	
Advanced F	Parameters	
Voicemail		Optional
MWI Enable	ed	
Prefix		Optional
	nts Contacts D	Dialpad Settings

In the Advance Parameters section, select Proxy (not shown). In the Proxy window, select the green circle button to add a new SIP proxy. Enter the Session Manager IP 10.10.97.198 and the port 5060 as shown in the screenshot below. Select Done to save and go back to the Account Setup menu.



In the **Account Setup** menu, select **Sign In** (not shown) to log SIP user 53117 in. If the E159 Media Station is able to register successfully to Session Manager, there is the green check on the **Avaya(1)** to indicate that there is one SIP account active.



7. Configure Plantronics Hub software and Plantronics Blackwire C315/C325 Headsets

This section provides the steps configuration for Plantronics Blackwire C315/C325 USB headsets to work with E159 Media Station.

- 1. Insert the Plantronics C315/C325 headset to an available USB port on E159 Media Station.
- 2. The Plantronics headset is automatically detected by E159 Media Station without any extra configuration from the Avaya Media Station application.
- 3. Press the call control button on the headset, the dial tone should be heard through the headset and the E159 Media Station is active and ready to dial a number. Press the call control button on the headset again, the E159 Media Station becomes idle and no dial tone is heard through the headset.

8. Verification Steps

These typical steps below are used to verify the inter-working between Plantronics Blackwire C315/C325 USB Corded Headsets and E159 Media Station.

- 1. From E159 Media Station with Plantronics headset places a local call to another station.
- 2. Verify the ring back tone is heard through the Plantronics headset and the light on the call control button on the headset should be on.
- 3. Answer the call on the other station, verify two-way speech path with clear audio between the E159 Media Station and the other station.
- 4. During the call, adjust the volume up and down and mute/unmute from Plantronics headset, verify the volume adjusted successfully and status mute/unmute reflected properly on the E159 Media Station.
- 5. End the call by pressing the call control button on the Plantronics headset, verify the call is terminated and the headset is idle.

9. Conclusion

These Application Notes describe the configuration steps required to integrate the Plantronics Hub software and Plantronics Blackwire C315/C325 USB Corded Headsets and Avaya E159 Media Station. All test cases were completed successfully with observations noted in **Section 0**.

10. Additional References

This section references the Avaya and Plantronics documentation that are relevant to these Application Notes.

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

- [1] Administering Avaya Aura® Communication Manager, Release 6.3, Issue 10, August 2015, Document Number 03-300509.
- [2] Administering Avaya Aura System Manager, Release 6.3, Issue 8, September 2015.
- [3] Administering Avaya Aura Session Manager, Release 6.3, Issue 7, September 2015.
- [4] Installing and Maintaining the Avaya E159 and E169 IP Media Stations, Release 1.1, February 2015.

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