



Avaya Solution & Interoperability Test Lab

Application Notes for Plantronics APV-63 EHS Adapter and Plantronics Voyager Legend CS Wireless Headset System with Avaya 1400 Series Digital Telephones - Issue 1.0

Abstract

These Application Notes describe the configuration steps required to integrate the Plantronics APV-63 EHS (Electronic Hook Switch) Adapter and the Plantronics Voyager Legend CS Wireless Headset System with Avaya 1400 Series Digital Telephones. Plantronics APV-63 EHS provides Plantronics headsets the ability to hear ring tones, answer and end calls, and mute/un-mute calls directly from the headset when the user is away from their desk.

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 APV-63 EHS (Electronic Hook Switch) Adapter and the Plantronics Voyager Legend CS Wireless Headset System with Avaya 1400 Series Digital Telephones. Plantronics APV-63 EHS provides Plantronics headsets the ability to hear ring tones, answer and end calls, and mute/unmute calls directly from the headset when the user is away from their desk.

2. General Test Approach and Test Results

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.

The interoperability compliance test included feature and serviceability testing. The feature testing focused on placing calls to and from the Avaya 1400 Series Digital Telephones with the Plantronics APV-63 EHS Adapter and Plantronics Voyager Legend CS Wireless Headset and verifying two-way audio. The call types included calls to voicemail, to local extensions, and to the PSTN.

The serviceability testing focused on verifying the usability of the Plantronics wireless headset after restarting the Avaya 1400 Series Digital Telephones and re-connecting the Plantronics headset.

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.
- Hearing incoming call notification.
- Hearing ring back tone for outgoing calls.
- Answering and ending calls using the call control button on the headset.
- Toggling between handset, speakerphone, and headset.
- Using the volume control buttons on the Plantronics headset to adjust the audio volume.
- Using the mute control button on the Plantronics headset to mute and un-mute the audio.

For the serviceability testing, an Avaya 1408 Digital Telephone was restarted to verify proper operation of the headset after the reboot was completed.

2.2. Test Results

All test cases passed. See **Section 3.1** for instructions on answering, ending, and placing calls with the headset.

During the compliance test, it was noted that the Avaya 1400 Series Digital Telephone Release 4 SP 3 (Alias Release 36.0) did not respond properly when the call control button on the Plantronics headset was pressed. Specifically, the following issues occurred when the call control button on the headset was pressed:

- The headset button on the digital phone would not be activated so dial tone would not be provided to the user.
- An incoming call would not be answered by pressing the call control button on headset.
- An active call would not be dropped by pressing the call control button on the headset.

To get dial tone, answer an incoming call, or dropping an active call when using the headset required pressing the headset button on the digital phone. This issue was resolved with Release 4 SP 4 (Alias Release 38.0, Vintage 7) of the Avaya 1400 Digital Telephone.

2.3. Support

For technical support and information on Plantronics APV-63 EHS Adapter and Plantronics Voyager Legend CS Wireless Headset System, contact Plantronics at:

- Phone: 800-544-4660 (toll free)
+1 831-426-5858 (International)
- Website: http://www.plantronics.com/north_america/en_US/support/

3. Reference Configuration

Figure 1 illustrates the test configuration used to verify the Plantronics APV-63 EHS Adapter and Plantronics Voyager Legend CS Wireless Headset System with Avaya 1400 Series Digital Telephones. The configuration consists of an Avaya S8300 Server running Avaya Aura® Communication Manager with an Avaya G450 Media Gateway providing connectivity to the PSTN via an ISDN-PRI trunk (not shown). Avaya Aura® Messaging was used as the voicemail system.

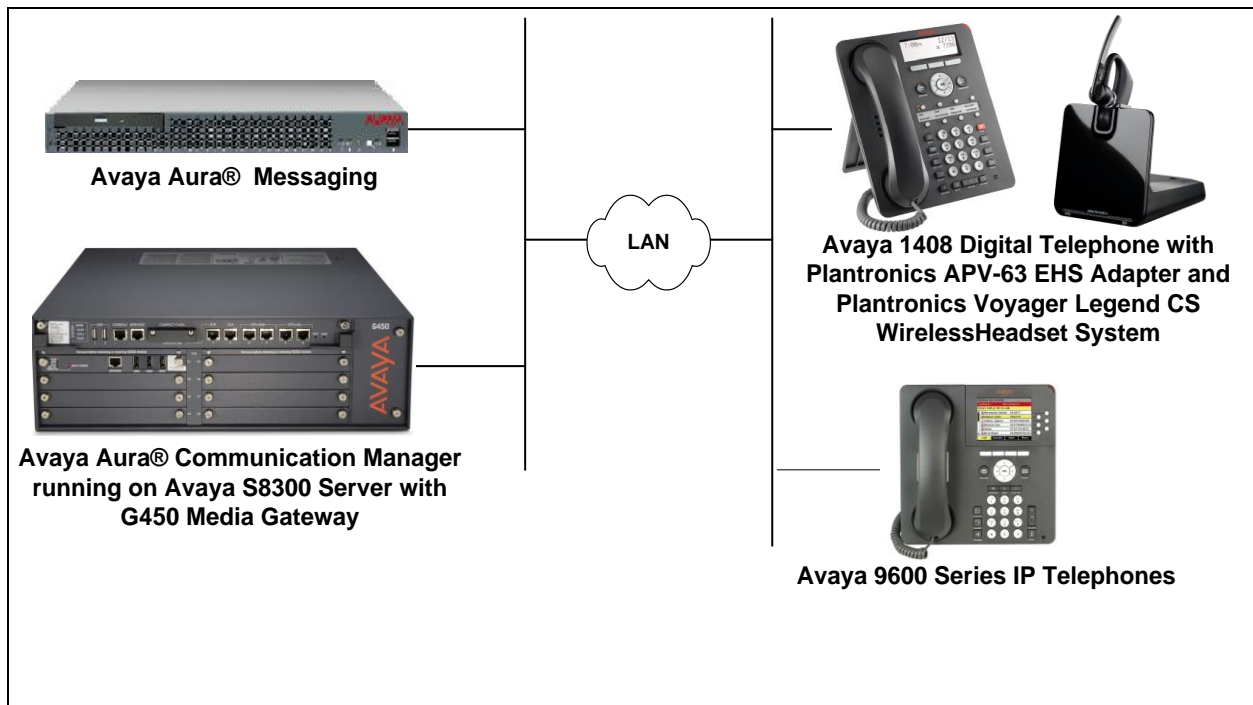


Figure 1: Avaya 1400 Series Digital Telephone with Plantronics APV-63 EHS Adapter and Plantronics Voyager Legend CS Wireless Headset System

3.1. Answering, Ending, and Placing Calls

To answer, end, or place a call using the Plantronics headset follow the instructions below.

Note: The behavior described below assumes that auto-answer is disabled unless mentioned otherwise.

- | | |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| To Answer a Call | <ul style="list-style-type: none">▪ Press the call control button on the headset to answer an incoming call. This would automatically activate the headset button on the digital telephone. <p style="margin-left: 40px;">Alternatively, press the headset button on the digital telephone to answer the incoming call. This would automatically activate the call control button on the headset.</p> <ul style="list-style-type: none">▪ If auto-answer is enabled and the headset button on the digital telephone <i>and</i> the call control button on the headset are activated, subsequent incoming calls will be answered automatically and a two-way audio path will be established to the headset. |
| To End a Call | <ul style="list-style-type: none">▪ Press the call control button on the headset to terminate a call. This automatically deactivates the headset button on the digital telephone. <p style="margin-left: 40px;">Alternatively, press the headset button on the digital telephone to terminate the call. This automatically deactivates the call control button on the headset.</p> |
| To Place a Call | <ul style="list-style-type: none">▪ Press the call control button on the headset to get dial tone and dial the number. This would automatically activate the headset button on the digital telephone. <p style="margin-left: 40px;">Alternatively, press the headset button on the digital telephone to get dial tone and dial the number. This would automatically activate the call control button on the headset.</p> |

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 Avaya S8300 Server with a G450 Media Gateway	6.3 SP 4 (R016x.03.0.124.0 w/Patch 21291)
Avaya Aura® Messaging	6.2 SP 2
Avaya 1400 Series Digital Telephones	R4 SP 4 (Alias Release 38.0, Vintage 7)
Avaya 9600 Series IP Telephones	S3.210A (H.323)
Plantronics APV-63 EHS Adapter	P/N 38734-11
Plantronics Voyager Legend CS Wireless Headset System	FW Version 99 Base Date: Dec-13

5. Configure Avaya Aura® Communication Manager

This section covers the station configuration for the Avaya 1408 Digital Telephone. The configuration is performed via the System Access Terminal (SAT) on Communication Manager.

5.1. Configure a Station for Avaya 1400 Series Digital Telephone

Use the **add station** command to create a station for the 1408 Digital telephone. Set the **Type** field to the station type to be emulated. In this example, *1408* was used. Set the **Port** field to *IP* and configure a **Security Code** as that password to be used by the Avaya telephone to log in.

Note: To enable Auto-Answer on the digital telephone set the **Auto Answer** field on **Page 2** (not shown) to the appropriate value, such as *all*.

add station 40010		Page 1 of 5
STATION		
Extension: 40010	Lock Messages? n	BCC: 0
Type: 1408	Security Code:	TN: 1
Port: IP	Coverage Path 1:	COR: 1
Name: Plantronics	Coverage Path 2:	COS: 1
	Hunt-to Station:	
STATION OPTIONS		
	Time of Day Lock Table:	
Loss Group: 2	Personalized Ringing Pattern: 1	
	Message Lamp Ext: 40010	
Speakerphone: 2-way	Mute Button Enabled? y	
Display Language: english		
Survivable COR: internal		
Survivable Trunk Dest? y	IP SoftPhone? n	
	Remote Office Phone: n	
	IP Video? n	

6. Configure Plantronics APV-63 EHS and Plantronics Voyager Legend CS Wireless Headset System

To connect the Voyager Legend CS wireless headset to the Avaya 1400 Series Digital Telephone, use the APV-63 EHS adapter to connect the wireless base of the headset to the headset port of the 1408 digital telephone. All other default settings on the wireless base were used.

Note: No external ring detect cable is required for the headset to hear incoming call notification (i.e., beeps).

7. Verification Steps

Verify that the Plantronics APV-63 EHS and Plantronics Voyager Legend CS have been connected to the Avaya 1400 Series Digital Telephone. Once the headset is connected to the phone, verify that incoming and outgoing calls are established with two-way audio to the headset and that the headset can get dial tone and end an active call.

8. Conclusion

These Application Notes describe the configuration steps required to integrate the Plantronics APV-63 EHS Adapter and Plantronics Voyager Legend CS Wireless Headset System with Avaya 1400 Series Digital Telephones. All test cases were completed successfully with observations noted in **Section 2.2**.

9. 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 <http://support.avaya.com>.

- [1] *Administering Avaya Aura® Communication Manager*, Release 6.3, Issue 9, October 2013, Document Number 03-300509.
- [2] *Administering Avaya one-X® Deskphone SIP for 9620/9620C/9620L/9630/9630G/9640/9640G/9650/9650C IPDeskphones*, Release 2.6.10, Issue 5, May 2013, Document Number 16-604083.
- [3] *Avaya 1400 Series Digital Deskphones for Avaya Aura® Communication Manager Installation and Maintenance Guide Release 1.0*, Issue 1, May 2010, Document Number 16-603143.
- [4] *Avaya 1400 Series Digital Deskphones User Guide for Avaya Aura® Communication Manager*, Issue 3, March 2011, Document Number 16-603151.

The following Plantronics documentation can be found at <http://www.plantronics.com>.

- [5] *Plantronics APV-63 EHS Adapter Quick Reference Guide*.
- [6] *Plantronics Voyager Legend CS Bluetooth Headset System Quick Start Guide*.

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