



Application Notes for Plantronics APV-63 EHS Adapter and Plantronics Savi 700 Series Wireless Headset System with Avaya 96x1 Series IP 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 Savi 700 Series Wireless Headset System with Avaya 96x1 Series IP 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. The Savi 740 wireless headset was used to verify the functionality of the EHS adapter.

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 Savi 700 Series Wireless Headset System with Avaya 96x1 Series IP 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. The Savi 740 wireless headset was used to verify the functionality of the EHS adapter.

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 96x1 Series IP Telephones with the Plantronics APV-63 EHS Adapter and Plantronics Savi 740 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 96x1 Series IP Telephones.

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 ring back tone for incoming and outgoing calls.
- Answering and ending calls using the call control button on the 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 9611G IP 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.

2.3. Support

For technical support and information on Plantronics APV-63 EHS Adapter and Plantronics Savi 700 Series 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 Savi 740 Wireless Headset System with Avaya 96x1 Series IP 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 (not shown). Avaya Aura® Messaging was used as the voicemail system.

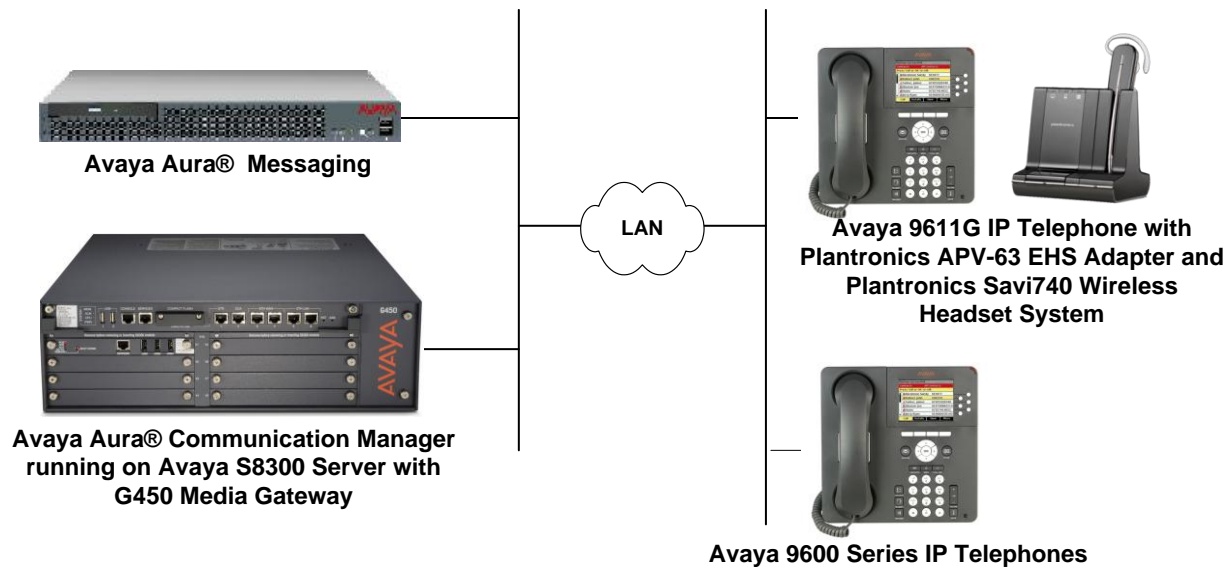


Figure 1: Avaya 96x1 Series IP Telephone with Plantronics APV-63 EHS Adapter and Plantronics Savi 740 Wireless Headset System

3.1. Answering, Ending, and Placing Calls

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

- | | |
|------------------|---|
| 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 IP telephone. <p style="margin-left: 40px;">Alternatively, press the headset button on the IP telephone to answer an incoming call. Note that pressing the headset button on the IP telephone automatically activates the call control button on the headset.</p> <ul style="list-style-type: none">▪ An incoming call cannot be auto-answered on the headset because the headset button on IP telephone is automatically deactivated when the far-end drops the call. |
| To End a Call | <p>Press the call control button on the headset to terminate a call. This automatically deactivates the headset button on the IP telephone.</p> <p>Alternatively, press the headset button on the IP telephone to end the call. Note that pressing the headset button on the IP telephone automatically deactivates the call control button on the headset.</p> |
| To Place a Call | <p>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 IP telephone.</p> <p>Alternatively, press the headset button on the IP telephone and dial the number. Pressing the headset button on the IP telephone automatically activates 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	6.2 SP 3 (R016x.02.0.823.0 with Patch 19926)
Avaya 96x1 Series IP Telephones	6.2209 (H.323)
Avaya 9600 Series IP Telephones	3.1 SP 5 (H.323)
Avaya Aura® Messaging	6.0.1 SP 1
Plantronics APV-63 EHS Adapter	P/N 38734-11
Plantronics Savi 740 Wireless Headset System	N/A

5. Configure Avaya Aura® Communication Manager

This section covers the station configuration for the Avaya 9611G IP Telephone. The configuration is performed via the System Access Terminal (SAT) on Communication Manager.

5.1. Configure a Station for Avaya 96x1 Series IP Telephone

Use the **add station** command to create a station for the 9611G IP telephone. Set the **Type** field to the station type to be emulated. In this example, *9611* 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 IP telephone set the **Auto Answer** field on **Page 2** (not shown) to the appropriate value, such as *all*.

```
add station 40000                                     Page 1 of 5
                                                    STATION
Extension: 40004                                     Lock Messages? n          BCC: 0
  Type: 9611                                           Security Code: 40000      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: 19                                     Personalized Ringing Pattern: 1
                                                    Message Lamp Ext: 40000
  Speakerphone: 2-way                               Mute Button Enabled? y
  Display Language: english
Survivable GK Node Name:
  Survivable COR: internal                           Media Complex Ext:
  Survivable Trunk Dest? y                           IP SoftPhone? n
                                                    IP Video? n
Short/Prefixed Registration Allowed: default
```

5.2. Modify 46xxsettings.txt File

In the `46xxsettings.txt` file, the `HEADSETBIDIR` parameter needs to be set to '1' so that incoming call notification (i.e., beeps) is heard on the headset. Below is an example for setting the parameter.

```
##### HEADSET SETTINGS (H.323 ONLY) #####
##
## HEADSETBIDIR specifies whether bidirectional signaling is supported on the headset
## interface.
## Value Operation
## 0 Disabled (default)
## 1 Enabled
## This parameter is supported by:
## 96x1 H.323 R6.2 SP1 and later software releases.
## Note that 96x1 H.323 R6.2 only supported generation of an alerting tone.
##
SET HEADSETBIDIR 1
```

6. Configure Plantronics APV-63 EHS and Plantronics CS540 Wireless Headset System

To connect the Savi 740 wireless headset to the Avaya 96x1 Series IP Telephone, use the APV-63 EHS adapter to connect the wireless base of the headset to the headset port of the 9611G IP telephone. All other default settings on the wireless base were used. Note that an external ring detect cable is not required for the headset to hear incoming call notification (i.e., beeps). However, the `46xxsettings.txt` file must be modified as described in **Section 5.2**.

7. Verification Steps

Verify that the Plantronics APV-63 EHS and Plantronics Savi 740 have been connected to the Avaya 96x1 Series IP 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 Savi 740 Series Wireless Headset System with Avaya 96x1 Series IP 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 6.2, Issue 7.0, December 2012, Document Number 03-300509.
- [2] *Avaya one-X® Deskphone Edition for 9600 Series IP Telephones Installation and Maintenance Guide*, Release 3.1, Issue 7, November 2009, Document Number 16-300694.

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

- [3] *Plantronics APV-63 EHS Adapter Quick Reference Guide*.
- [4] *Plantronics Savi 740 Wireless Headset System Quick Start Guide*.

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