



## **Avaya Solution & Interoperability Test Lab**

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# **Application Notes for Plantronics Blackwire 500 Series with Avaya E159 Media Station - Issue 1.0**

### **Abstract**

These Application Notes describe the compliance test and configuration procedures needed to integrate a Plantronics Blackwire 500 Series USB corded headsets to operate with Avaya E159 Media Station. Plantronics Blackwire 500 Series USB cored headsets were used to exercise the call control functions.

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

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

# 1. Introduction

These Application Notes describe the configuration steps required to integrate Plantronics Blackwire 500 Series with Avaya E159 Media Station (Avaya E159). In this compliance testing, the following headsets were tested:

- Blackwire C510 – Monaural, USB corded headset
- Blackwire C520 – Binaural, USB corded headset

## 2. General Test Approach and Test Results

The interoperability compliance test included functionality and serviceability testing. The functionality testing focused on placing and receiving calls to and from Avaya E159 using the Blackwire headsets and verifying good talk path in both directions. The type of calls made included calls to the voicemail, and calls to and from internal extensions and the PSTN.

The serviceability testing focused on verifying the usability of the Blackwire headsets when Avaya E159 was restarted, after disconnecting and reconnecting the headsets to the USB port, and after a reboot Avaya E159.

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

The following functionality was 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 and receiving calls to and from internal extensions to verify two way audio path and quality.
- Placing and receiving calls to and from the PSTN to verify two way audio path and quality.
- Answering and ending calls using the Avaya E159
- Hearing ring back tone for outgoing calls.
- Hearing ring alert for incoming calls.
- Using the volume control buttons on the Blackwire headset to adjust the volume on the headset speakers.
- Using the mute control button on the Blackwire headset and on Avaya E159 Media Station to mute and un-mute the transmitted audio.
- Using Hold feature on Avaya E159 Media Station.
- Transferring calls between headset, handset and speaker during an active call on Avaya E159 Media Station.

For the serviceability testing, the headsets were disconnected and reconnected to the USB port of Avaya E159 to verify proper operation. In addition, Avaya E159 was rebooted to verify that the headsets were operational after the reboot completed.

## 2.2. Test Results

All compliance test cases passed successfully. However, the following observation was noted:

- Pressing the call control button delay for 2 second did not place the call on hold. Work around is to use the button on Avaya E159 to place the call on hold.

## 2.3. Support

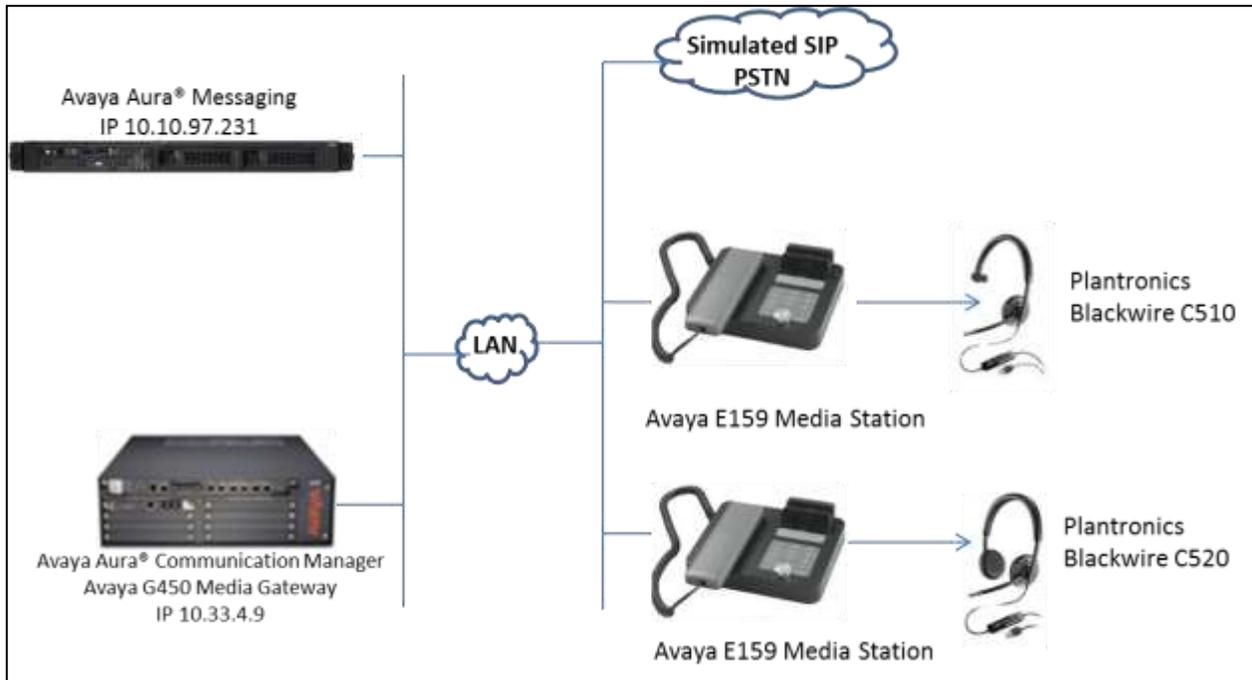
For technical support and information on the Plantronics products described in this solution, contact Plantronics Technical Support at:

- Phone: 800-544-4660 (toll free)  
+1 831-426-5858 (International)
- Website: [http://www.plantronics.com/north\\_america/en\\_US/support](http://www.plantronics.com/north_america/en_US/support)

### 3. Reference Configuration

**Figure 1** illustrates the test configuration used to verify Blackwire headset solution. The configuration consists of Avaya Aura® Communication Manager with and Avaya G450 Media Gateway providing connectivity to the simulated SIP PSTN via SIP trunk. The Plantronics Blackwire headsets were connected to the E159 Media Station via a USB port.

These Application Notes assume Avaya Aura® Communication Manager and Avaya E159 Media Station have been installed and are operational.



**Figure 1: Test configuration Avaya E159 with Plantronics Blackwire 500 Series Headset**

## 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	6.3.12
Avaya G450 Media Gateway	36.156.0
Avaya Aura® Messaging	6.3.2
Avaya E159 Media Station (SIP)	FW 1.1.0.1 (E159_8_25_5.bin)
Plantronics Blackwire C510/ 520	FW147

## 5. Configure Avaya Aura® Communication Manager

It is assumed that a fully functioning Communication Manager is in place with the necessary licensing. It is assumed that all SIP extensions used for E159 Media Stations are already in place and no special requirement to extensions configuration to work with Plantronics headset. For further information on the configuration of Communication Manager and extension please see **Section 10** of these documents.

## 6. Configure Plantronics Blackwire C510/C520 USB Headset

Connect the Plantronics Blackwire headset directly to USB port of Avaya E159 Media Station.

## 8. Verification Steps

This section provides the steps that can be performed to verify proper installation of the Plantronics Blackwire headset with Avaya E159.

Once the Plantronics headset is connected to the E159 Media Station verify that incoming and outgoing calls can be established with two-way audio to the headset.

## 9. Conclusion

These Application Notes describe the configuration steps required to integrate the Plantronics Blackwire 500 Series USB headsets with Avaya E159 Media Station. All test cases were completed successfully, with the observation noted in **Section 2.2**.

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

- [1] *Administering Avaya Aura® Communication Manager Release 6.3 03-300509 Issue 10 August 2015.*
- [2] *Installing and Maintaining the Avaya E159 and E169 IP Media Stations, Release 1.1, February 2015.*
- [3] [https://www.avaya.com/usa/documents/e159-e169-media-station-fact-sheet\\_sme7562.pdf](https://www.avaya.com/usa/documents/e159-e169-media-station-fact-sheet_sme7562.pdf)
- [4] *Avaya E159 and E169 IP Media Station Overview and Specification Release 1.1 February 2015*

Documentation and information for the Blackwire 500 Series headsets can be found at the following websites:

- [1] <http://www.plantronics.com/us/support/docs/>
- [2] <http://www.plantronics.com/us/product/blackwire-500>

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