AVAYA

Avaya Solution & Interoperability Test Lab

Application Notes for Dasan EHS-AV-00 cable and Dasan DW-800 DECT headset with Avaya 96x1 Series IP Deskphone (H.323 and SIP) - Issue 1.1

Abstract

These Application Notes describe the configuration steps required to integrate Dasan EHS-AV-00 cable with Avaya 96x1 Series IP Deskphones. In this compliance test, compatible Dasan DW-800 DECT headset is used.

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.

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1. Introduction

The Dasan EHS-AV-00 cable is a bottom lead that connects Avaya 96x1 Series IP Deskphones with the Dasan DW-800 DECT Headset. In this compliance test, the Dasan DW-800 DECT headset was used to verify the Dasan EHS-AV-00 cable with Avaya 96x1 Series IP Deskphone (both H.323 and SIP).

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 the Avaya 96x1 Series IP Deskphones 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 Dasan EHS-AV-00 cable and Dasan DW-800 DECT Headset after restarting the Avaya 96x1 Series IP Deskphone.

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 recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in these DevConnect Application Notes included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Notes, the interface between Avaya systems and endpoints utilized enabled capabilities of TLS/SRTP.

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 Deskphones 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.
- Hearing ringing tone for incoming and ring back for outgoing calls.
- Answering and ending calls using the call control button on the Avaya phone.
- Using the volume control buttons on the Avaya phone to adjust the audio volume.
- Using the mute control button on the Avaya phone and the DECT headset base mute button to mute and un-mute the audio.
- Using the hold control button on the Avaya phone to hold and un-hold the call.
- Switching between the Dasan headsets, the phone handset and speaker while in conversation.

For the serviceability testing, the Avaya 96x1 Series IP phone was restarted to verify proper operation of the Dasan cable with headset after the reboot was completed.

2.2. Test Results

All test cases passed.

2.3. Support

For support on this Dasan solution in Asia Pacific, contact Dasan's marketing representative at:

- Phone: +82(0)315004641
- Website: http://www.headsetkorea.com

For support on this Dasan solution in all other regions, contact Dasan's representative, JPL Telecom Limited at:

- Phone: +44(0)1258 820100
- Website: http://www.jpltele.com/

3. Reference Configuration

Figure 1 illustrates the test configuration used to verify the Dasan EHS-AV-00 cable with Avaya 96x1 Series IP Deskphones using Dasan DW-800 DECT headset. The configuration consists of an Avaya Aura® Communication Manager running on a virtualized server with an Avaya G450 Media Gateway providing connectivity to the simulated PSTN. Avaya Aura® Messaging was used as the voicemail system. The Dasan EHS-AV-00 provides connectivity between Avaya IP Deskphone via the headset port and DECT headset base via the aux and phone cable (see **Figure 2** on **Section 6**).
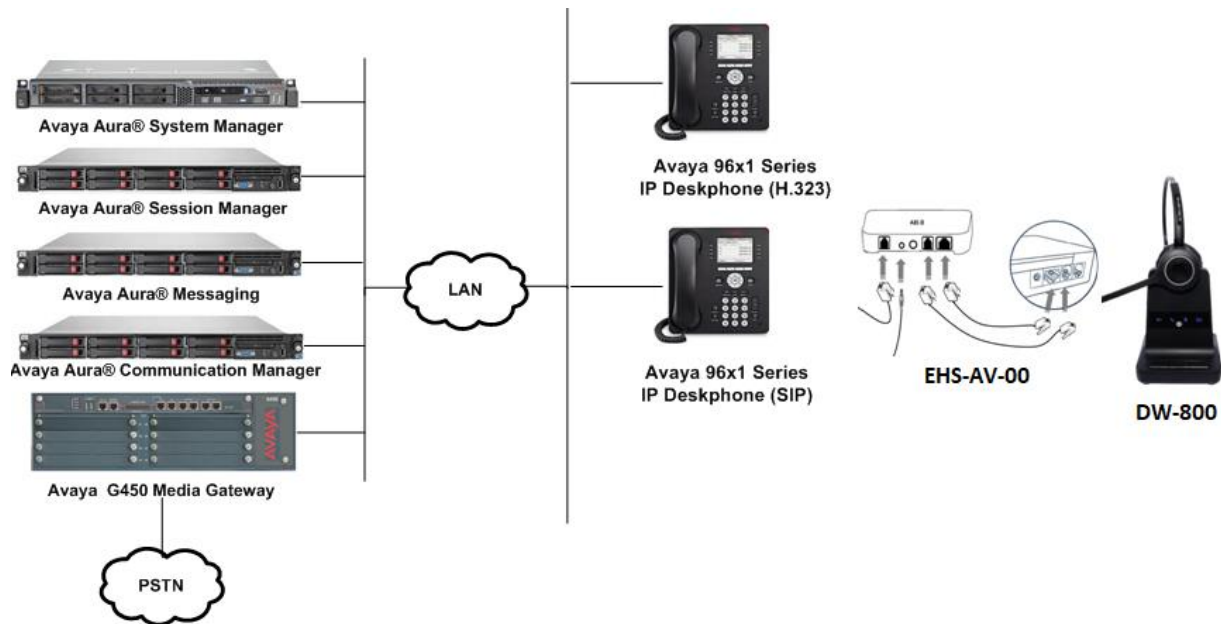
Figure 1: Test Configuration

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	R018x.00.0.822.0 - 24826
Avaya Aura® Messaging	7.0 SP0 Patch 2
Avaya Aura® System Manager	System Manager 8.0.0.0 Build No. - 8.0.0.0.931077 Software Update Revision No: 8.0.0.0.098174
Avaya Aura® Session Manager	8.0.0.0.800035
Avaya 9621G/9641G IP Deskphone (H.323)	6.6604
Avaya 9641G/9608 IP Deskphone (SIP)	7.1.3.0
Dasan EHS-AV-00 cable	1.1
Dasan DW-800 DECT Headset	0240

5. Configure Avaya IP Deskphones

It is implied a working Communication Manager system is already in place, including dial plans and SIP trunks to a Session Manager. It is assumed that Avaya 96x1 Series Deskphones had been configured and setup. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 9**.

Configure Avaya IP Deskphones for headset signaling using the Deskphone button in "HOME → Options & Settings → Call Settings → Headset Signaling and select "Switchhook and Alert".

Configure Avaya IP Deskphones speech path to use the Headset instead of Speaker in "HOME → Options & Settings → Call Settings → Audio Path and select "Headset".

6. Setup of Dasan EHS-AV-00 with Dasan DW-800 DECT Headset base

Connect the Dasan EHS-AV-00 cable between a Deskphone and the DECT headset base as in the **Figure 2** below.
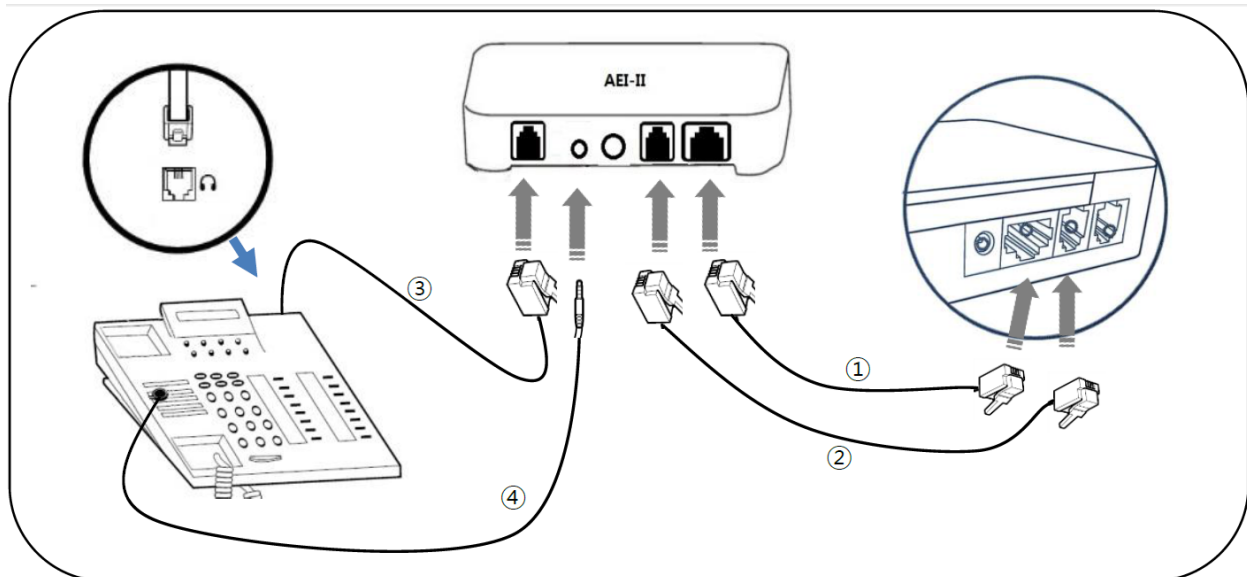
① : Power cable (RJ-45 to RJ-12)

② : Telephone cord (RJ-9 to RJ-9)   Cable length : 600mm

③ : Telephone cord (RJ-9 to RJ-9)   Cable length : 300mm

④ : External Microphone for ring detection

Figure 2: Setup of Dasan EHS-AV-00 cable between Deskphone and Headset base

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7. Verification Steps

Verify that the Dasan EHS-AV-00 with Dasan DW-800 DECT headset has been connected to the Avaya 96x1 Series IP Deskphone. 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 integration of Dasan EHS-AV-00 cable with Avaya 96x1 Series IP Deskphones. All test cases were completed successfully.

9. Additional References

This section references the Avaya and Dasan 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 8.0.1, Issue 3, December 2018.
[2] *Administering Avaya 9608/9608G/9611G/9621G/9641G/9641GS IP Deskphones H. 323,* Release 6.6.5, Issue 2, March 2018
[3] *Administering Avaya Aura® Session Manager,* Release 8.0, Issue 2, August 2018.
[4] *Installing and Administering Avaya 9601/9608/9611G/9621G/9641G/9641GS IP Deskphones SIP,* Release 7.1.3, Issue 1, October 2018.

Dasan documentation can be obtained at http://headsetkorea.com
The Dasan EHS Guide can be found at: https://headsetkorea.com:458/eng/support/manual.php