



Avaya Solution & Interoperability Test Lab

Application Notes for Sennheiser CAVA 31 Headset Adapter Cable and Sennheiser Headset SC 230, SC 260 with Avaya 1600/9600 Series IP Deskphones – Issue 1.0

Abstract

These Application Notes describe a solution comprised of Avaya 1600/9600 Series IP Deskphones and Sennheiser CAVA 31 Headset Adapter Cable and Sennheiser SC 230, SC 260 headsets.

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 for Sennheiser CAVA 31 headset adapter cable to successfully interoperate with Avaya IP Deskphones. The Avaya telephones used were 1600/9600 series IP telephones connected to Communication Manager. The Sennheiser CAVA 31 headset connected the Sennheiser SC 230 and SC 260 headsets to the Avaya telephones.

2. General Test Approach and Test Results

The compliance testing of Sennheiser CAVA 31 headset adapter cable interoperating with Avaya 1600 and 9600 series IP Deskphones was manually performed. No performance testing was done and the tests listed in Section 2.1 were executed and verified.

2.1. Interoperability Compliance Testing

The compliance testing are included the following test scenarios shown below.

- Verification of acceptable talk path in both directions for local and PSTN calls.
- Verification of the CAVA 31 adapter's ability to recover from interruption to the Avaya IP telephone.
- Verification of the CAVA 31 adapter's ability to recover from interruption of headset interface, and that active calls are preserved after reconnection.

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.

2.2. Test Results

The objectives outlined in the **Section 2.1** were verified. All test cases have passed.

2.3. Support

For technical support for the Sennheiser CAVA 31 adapter cable, please contact Sennheiser Electronic Corporation technical support as shown below:

3. Reference Configuration

Figure 1 illustrates the test configuration used during the compliance testing between the Avaya IP telephones and the Sennheiser CAVA 31 headset adapter cable and Sennheiser headsets.

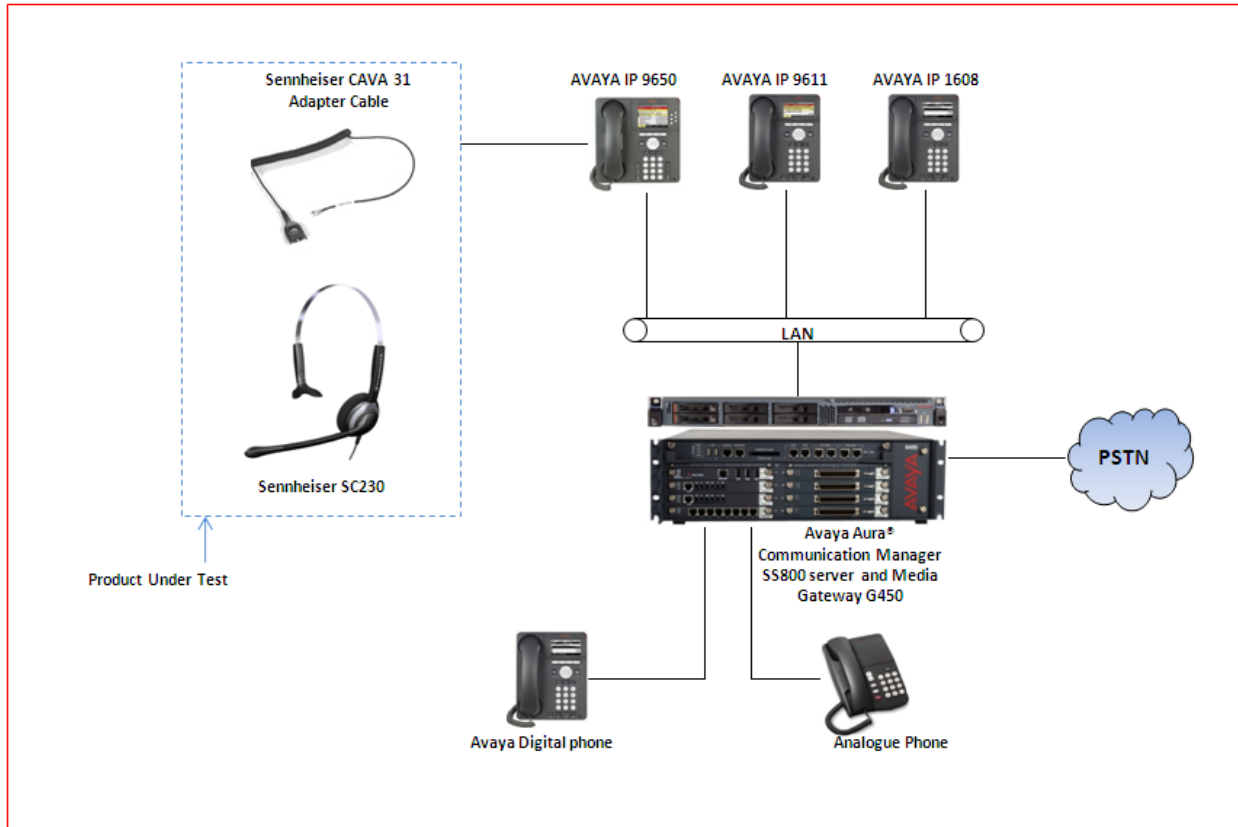


Figure 1: Reference Configuration Diagram

4. Equipment and Software Validated

The following equipment and software was used during the lab testing:

Equipment	Software Version
Avaya S8800 server	Avaya Aura® Communication Manager R016x.00.1.510.1
Avaya G650 Media Gateway IPSI TN2312BP CLAN TN799DP IP Media Processor TN2302AP Digital Line TN2224	HW06, FW043 HW01, FW026 HW20, FW095 000006

Avaya 9611G (H323) IP Phone	6.0.1
Avaya 9650C (SIP) IP Phone	2.6.4
Avaya 1608 (SIP) IP Phone	3.1
Avaya 1408 Digital Phone	0.50
Avaya Analog Phone	-
Sennheiser CAVA 31 Adapter Cable	-
Sennheiser SC 230 and 260 headsets	-

5. Configure Avaya Aura® Communication Manager

These Application Notes assume that Communication Manager is configured and operational. There are no additional settings required to be configured for the connection of the Sennheiser headset and Sennheiser CAVA 31 adaptor cable to the Avaya telephones. The compliance tests with the Sennheiser CAVA 31 adapter cable were carried out with the default server settings for audio parameters.

This section describes the step to provision the IP telephone in Communication Manager by System Access Terminal (SAT) command. For detailed information on how to configure and administer the Communication Manager, please refer to the **Section 9 [1]**.

Use the command **Add Station <DN>** to add a new extension for the IP telephone in Communication Manager as shown in **Figure 2** below. Enter the model of IP telephone in the **Type** field, IP the **Port** field, a name in the **Name** field and keep other fields as default. Press **F3** on the keyboard to submit and complete.

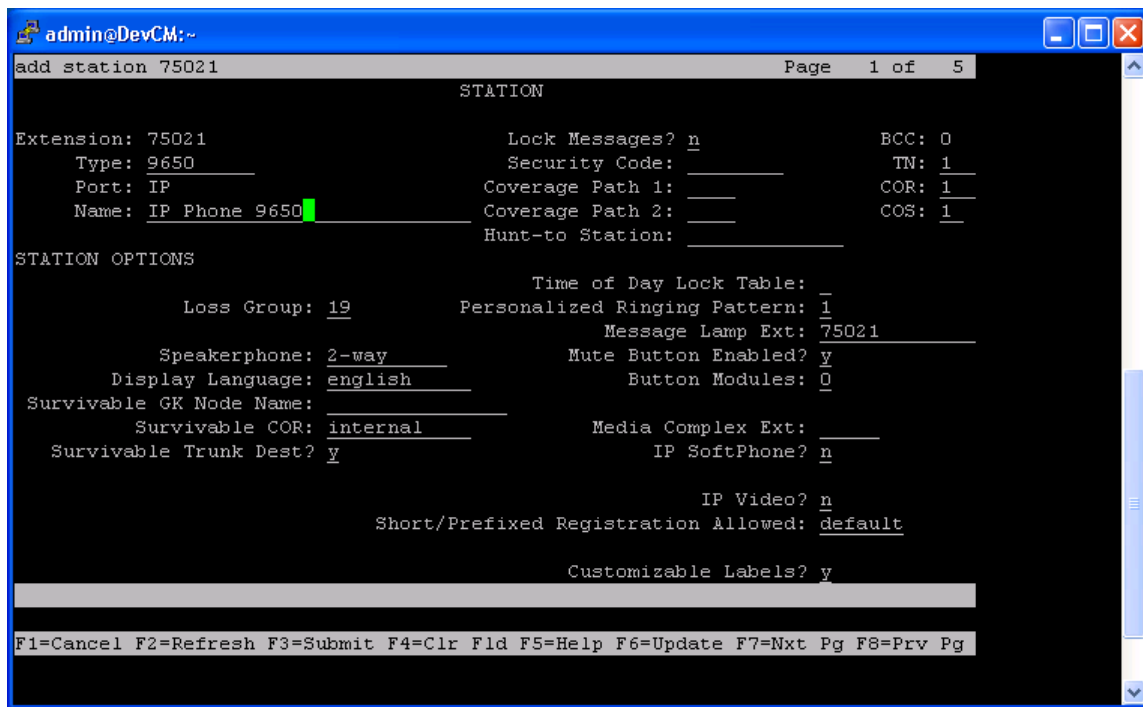


Figure 2: Sample of adding station in Communication Manager

6. Configure Sennheiser CAVA 31 Adapter Cable

During the compliance test, the Sennheiser CAVA 31 headset adapter cable is used for the connection of the Sennheiser headsets to the Avaya 1600/9600 series IP telephones. The procedure for connecting the cable is:

- Connect the Sennheiser CAVA 31 adapter cable's RJ11 port to the headset socket on the Avaya IP phone.
- Connect the Sennheiser CAVA 31 cable and headset through the quick disconnect plug.

7. Verification Steps

- Pick up and put the headset on, press the headset button on the deskphone and the ring back tone is also heard in the speaker of headset.
- From the IP phone with adapter and headset, dial an extension of another Avaya IP telephone and answer the call on that telephone.
- Check audio path on the headset and the handset of the other telephone; it should be clear.
- End the call above by either pressing the headset button on the headset or hanging up the handset; the light of the headset button on the Avaya IP deskphone goes OFF and the call is now released.

8. Conclusion

All of the executed test cases have passed and the objectives outlined were met. The Sennheiser CAVA 31 adapter cable is considered to be in compliance with Avaya 1600/9600 series IP Deskphones.

9. Additional References

Product documentation for the Avaya Aura® Communication Manager products may be found at:

<https://support.avaya.com/css/Products/>

Product documentation for Sennheiser CAVA 31 adapter cable and headset products may be found at: <http://www.sennheiser.com>

[1] Avaya Communication Manager Documents:

[Avaya Aura® Communication Manager, Release 5.2; Document No. 03-300509, May 2009](#)
[Avaya Audio Quality Tuning for IP Telephones, Issue 2.0, Document No. 120942, July 2007](#)

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