



Avaya Solution & Interoperability Test Lab

**Application Notes for Configuring Sennheiser
Communications A/S CSTD 01 Headset Adapter Cable and
SC 630, SC 660 Headsets with Avaya 1400 Series Digital
Deskphone - Issue 1.0**

Abstract

These Application Notes describe the configuration steps required to integrate the Sennheiser Communications A/S CSTD 01 Headset Adapter Cable and SC 630, SC 660 headsets with Avaya 1400 Series Digital Deskphone. The Sennheiser CSTD 01 Headset Adapter Cable is fitted with an easy disconnect plug on one end and a module plug on the other end for quick and easy connection into Avaya 1400 Series Digital Deskphone and into Sennheiser Communications A/S SC 630, SC 660 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 to integrate the Sennheiser Communications A/S CSTD 01 Headset Adapter Cable with Avaya 1400 Series Digital Deskphone.

The following Sennheiser Communications A/S headsets and accessories were tested:

- CSTD 01 Headset Adapter Cable – Fitted with an easy disconnect plug on one end and a module plug on the other end for quick and easy connection into Avaya 1400 Series Digital Deskphone and into Sennheiser Communications A/S SC 630, SC 660 headsets.
- SC 630 – Monaural headset.
- SC 660 – Binaural headset.

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 Deskphones or with a different generation of the same Avaya Deskphone.

Since there is no industry standard for handset interfaces, different manufacturers utilize different handset/headset interfaces with their Deskphones. Therefore, any claim made by a headset vendor that its product is compatible with Avaya Deskphones 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 Deskphone with Sennheiser Communications A/S CSTD 01 Headset Adapter Cable and SC 630, SC 660 headsets and verifying two-way audio. The call types included calls to voicemail, to and from local extensions, to and from the PSTN.

The serviceability testing focused on verifying the usability of the Sennheiser Communications A/S SC 630, SC 660 headsets after restarting the Avaya 1400 Series Digital Deskphone.

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 and receiving calls to and from internal extensions to verify two-way audio.
- Placing and receiving calls to and from the PSTN to verify two-way audio.
- Placing calls using the headset button on the deskphone.
- Answering and ending calls using the headset button on the deskphone.
- Hearing ring back tone on the headsets for outgoing calls.
- Using the Volume control buttons on the deskphone to adjust the audio volume on the headsets.
- Using the Mute control button on the deskphone to mute and un-mute the audio on the headsets.
- Using the Hold button on the deskphone to place an active call on hold to verify two-way audio is muted on the headsets.

For the serviceability testing, the Avaya 1400 Series Digital Deskphone was restarted to verify proper operation of the headsets after the reboot was completed.

2.2. Test Results

Testing was completed successfully with the following observations/limitations.

- The headset button on the Avaya deskphones should be disabled when the headset is not in use. If the headset button on the Avaya deskphone is left enabled for any reason, the deskphone will only ring once during incoming calls, no alerting tone will be heard on the headset speakers. After one ring a blinking led light on the deskphone will be the only indication that a call has arrived, no further audible indication will be given. The headset button on the deskphone is enabled when the headset icon on the button is illuminated. The headset button is disabled by pressing it.

2.3. Support

For support on the Sennheiser Communications A/S headset solution, contact Sennheiser Communications A/S technical support at:

Website: http://www.sennheisercommunications.com/comm/home_en.nsf/root/service

3. Reference Configuration

Figure 1 illustrates the test configuration used to verify the Sennheiser Communications A/S CSTD 01 Headset Adapter Cable and SC 630, SC 660 headsets with Avaya 1400 Series Digital Deskphone. For the Avaya 1400 Series Digital Deskphone the configuration consist of an Avaya S8300 Server running Avaya Aura® Communication Manager with an Avaya G450 Media Gateway.

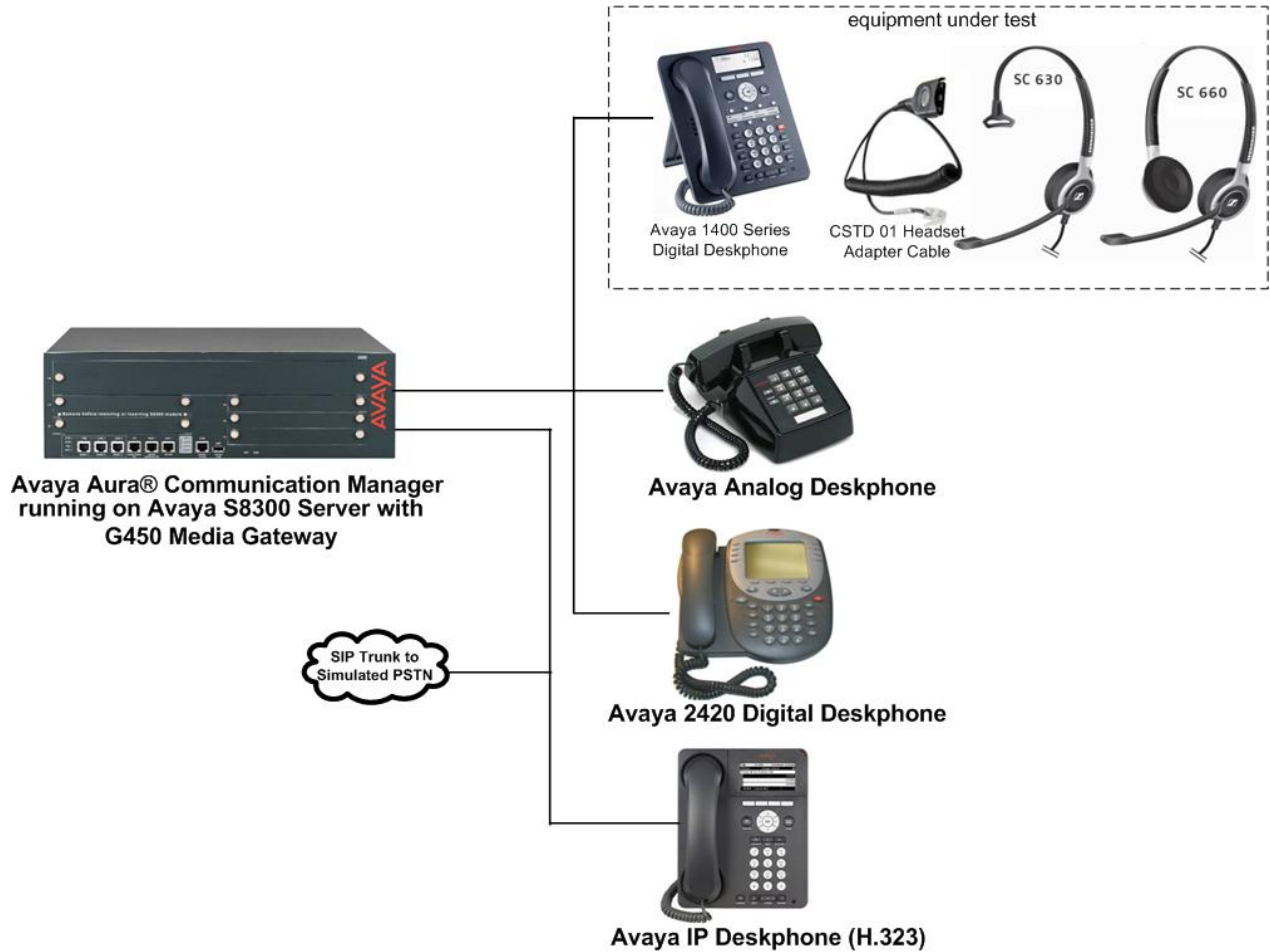


Figure 1: Avaya 1400 Series Digital Deskphone with Sennheiser Communications A/S CSTD 01 Headset Adapter Cable and SC 630, SC 660 Headsets.

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 SP5 (02.0.823.0-20396)
Avaya 1408 Series Digital Deskphone	16.0
Avaya 9600 Series IP Deskphones (H.323)	Avaya one-X® Desk phone Edition Version 3.105
Avaya Analog Deskphone.	N/A
Avaya 2420 Digital Deskphone	6.0
Sennheiser Communications A/S CSTD 01 Headset Adapter Cable	N/A
Sennheiser Communications A/S SC 630 Headset.	N/A
Sennheiser Communications A/S SC 660 Headset.	N/A

5. Configure Stations for Avaya 1400 Series Digital Deskphone

5.1. Configure Avaya Aura® Communication Manager

This section displays the station configuration for the Avaya 1400 Digital Deskphone. The configuration is performed via the System Access Terminal (SAT) on Avaya Aura® Communication Manager.

These Application Notes assume that the Avaya 1400 Series Digital Deskphones are configured and operational in Avaya Aura® Communication Manager. There are no additional settings required on Avaya Aura® Communication Manager for the connection of the Sennheiser Communications A/S CSTD 01 Headset Adapter Cable and SC 630, SC 660 headsets to the Avaya 1400 Series Digital Deskphone.

An example of a 1400 Series Digital Station provisioned in Avaya Aura® Communication Manager is illustrated below.

```
change station 5003                                     Page 1 of 4
STATION
Extension: 5003                                         Lock Messages? n          BCC: 0
Type: 1408                                             Security Code: _____ TN: 1
Port: 001U502                                         Coverage Path 1: 1       COR: 1
Name: DCP 1408                                         Coverage Path 2: _____ COS: 1
Hunt-to Station: _____
STATION OPTIONS
Loss Group: 2                                         Time of Day Lock Table: _
Speakerphone: 2-way                                   Personalized Ringing Pattern: 1
Display Language: english                             Message Lamp Ext: 5003
Survivable COR: internal                               Mute Button Enabled? y
Survivable Trunk Dest? y                               IP SoftPhone? n
Remote Office Phone? n
IP Video? n
```

6. Connect the Sennheiser Communications A/S CSTD 01 Headset Adapter Cable and SC 630, SC 660 headsets to Avaya 1400 Series Digital Deskphone

During the compliance testing the Sennheiser Communications A/S CSTD 01 Headset Adapter Cable was used to connect the SC 630, SC 660 headsets to the Avaya 1400 Series Digital Deskphone. The Sennheiser CSTD 01 Headset Adapter Cable is fitted with an easy disconnect plug on one end and a module plug on the other end for quick and easy connection into Avaya 1400 Series Digital Deskphones and into Sennheiser Communications A/S SC 630, SC 660 headsets.

6.1. Cable connections

To connect the Sennheiser Communications A/S CSTD 01 Headset Adapter Cable to the SC 630, SC 660 headsets and to the Avaya 1400 Series Digital Deskphones, refer to the diagram below.



7. To answer calls, end calls, place calls, mute/un-mute, place active calls on Hold and adjust the Volume on the speaker of the headsets

To answer calls, end calls, place calls, mute/un-mute, place active calls on hold and to adjust the volume on the speaker of the Sennheiser Communications A/S SC 630, SC 660 headsets the call control buttons on the deskphone **must** be used, as follows.

To Answer a Call: Press the headset button on the deskphone.

To End a Call: Press the headset button on the deskphone.

To Place a Call: Press the headset button on the deskphone to receive dial tone, proceed to dial the number.

To Mute: Press the Mute button on the deskphone.

To adjust the volume: Use the Volume Control button on the deskphone.

To place an active call on hold: Press the Hold button on the deskphone.

For more information on how to use the Sennheiser Communications A/S CSTD 01 Headset Adapter Cable and headsets refer to the Guides included with the headset adapter cable and headsets. For the link to on-line documentation refer to **Section 10**.

8. Verification Steps

Verify that the Sennheiser Communications A/S CSTD 01 Headset Adapter Cable and the SC 630 or SC 660 headset has been connected to the Avaya 1400 Series Digital Deskphone. Once the headset adapter cable and headset are connected to the deskphone, verify that incoming and outgoing calls can be established with clear two-way audio. Verify that all call control activities listed under **Section 7** can be performed.

9. Conclusion

These Application Notes describe the configuration steps required to integrate the Sennheiser Communications A/S CSTD 01 Headset Adapter Cable and the SC 630, SC 660 headsets with Avaya 1400 Series Digital Deskphone. Testing was completed successfully with observations/limitations noted in **Section Error! Reference source not found.**

10. Additional References

This section references the Avaya and Sennheiser Communications A/S 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 6.0, Issue 6.0, June 2010, Document Number 03-300509.
- [2] *Avaya 1400 Series Digital Deskphone User Guide for Avaya Aura® Communication Manager*, Issue 3, March 2011, Document Number 16-603151.

The following Sennheiser Communications A/S documentation can be found at http://www.sennheisercommunications.com/comm/home_en.nsf/root/service_download-area?Open&print=1

- [3] *Quick Guide for CSTD 01 Headset Adapter Cable*.
- [4] *SC 630 Headset Quick Guide*.
- [5] *SC 660 Headset Quick Guide*.

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