



## **Application Notes for PhoneTech S80 Adapter with Avaya 1400 Series Digital Telephones - Issue 1.0**

### **Abstract**

These Application Notes describe the configuration steps required to integrate the PhoneTech S80 Headset Adapter and PhoneTech R10RJAMP Headset (Configuration 4) with Avaya 1400 Series Digital Telephones. The S80 adapter performs a polarity shift of RJ headsets, allowing a Configuration 4 RJ headset to be converted to a Configuration 1 RJ headset and vice versa. In the compliance test, a PhoneTech RJ10RAMP (Conf 4) headset was connected to the S80 adapter, which in turn was connected to the Avaya 1400 Series Digital Telephone. Together, the S80 adapter and the R10RJAMP headset provide two-way audio, allows the audio volume to be adjusted and the audio to be muted/unmuted directly from the headset. This solution does not provide call control features directly from the headset, such as answering or terminating a call from the headset.

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 the PhoneTech S80 Headset Adapter and PhoneTech R10RJAMP Headset (Configuration 4) with Avaya 1400 Series Digital Deskphones. The S80 adapter performs a polarity shift of RJ headsets, allowing a Configuration 4 RJ headset to be converted to a Configuration 1 RJ headset and vice versa. In the compliance test, a PhoneTech RJ10RAMP (Conf 4) headset was connected to the S80 adapter, which in turn was connected to the Avaya 1400 Series Digital Telephone. Together, the S80 adapter and the R10RJAMP headset provide two-way audio, allows the audio volume to be adjusted and the audio to be muted/unmuted directly from the headset. This solution does not provide call control features directly from the headset, such as answering or terminating a call from the 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 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 1400 Series Digital Telephones with the S80 adapter and 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 S80 adapter and headset after restarting the Avaya 1400 Series Digital Telephones and re-connecting the PhoneTech headset.

## 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 outgoing calls.
- Toggling between handset, speakerphone, and headset.
- Using the volume control buttons on the S80 and headset to adjust the audio volume.
- Using the mute control button on the S80 and headset to mute and un-mute the audio.

For the serviceability testing, an Avaya 1408 Digital Telephone was restarted to verify proper operation of the headset after the reboot was completed.

## 2.2. Test Results

All test cases passed with the following observation(s):

- There is no mute sync between headset and phone.
- The headset button on the Avaya 1400 Series Digital Telephone remains activated when the far-end drops the call.

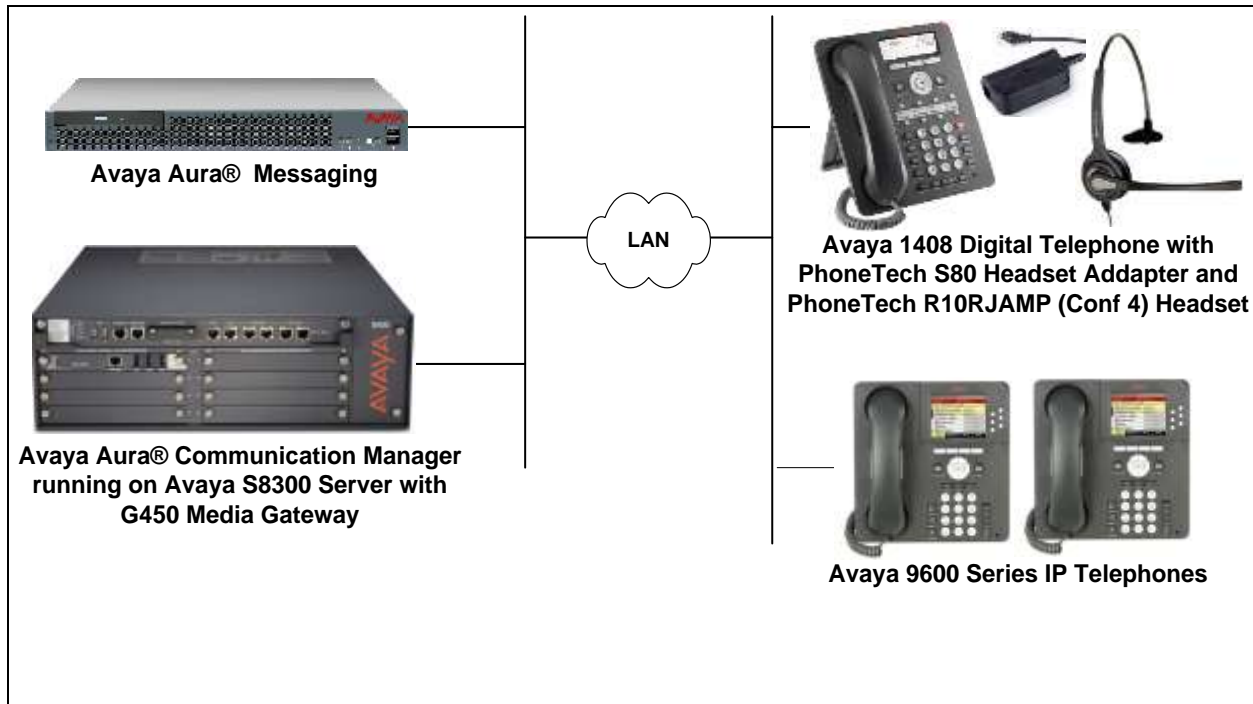
## 2.3. Support

For technical support and information on PhoneTech S80 Headset Adapter, contact PhoneTech in Brazil:

- Phone: 55 (11) 3717-1881
- Website: <http://www.phonetech.com.br>
- Email: [contato@phonetech.com.br](mailto:contato@phonetech.com.br)

### 3. Reference Configuration

**Figure 1** illustrates the test configuration used to verify the PhoneTech S80 Headset Adapter and PhoneTech R10RJAMP Headset with Avaya 1400 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 via an ISDN-PRI trunk (not shown). Avaya Aura® Messaging was used as the voicemail system. The R10RJAMP headset was connected to the RJ port of the S80 adapter, and the S80 adapter was connected to the headset port of the Avaya phone.



**Figure 1: Avaya 1400 Series Digital Telephone with PhoneTech S80 Headset Adapter and PhoneTech R10RJAMP 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 running Avaya S8300 Server with a G450 Media Gateway	R016x.03.0.124.0 with Patch 21588
Avaya Aura® Messaging	6.2 SP 2
Avaya 1400 Series Digital Telephones	R4 SP 6 (Release 40.0)
Avaya 9600 Series IP Telephones	S3.240A (H.323)
PhoneTech S80 Headset Adapter	N/A
PhoneTech R10RJAMP (Conf 4) Headset	N/A

## 5. Configure Avaya Aura® Communication Manager

This section covers the station configuration for the Avaya 1408 Digital Telephone. The configuration is performed via the System Access Terminal (SAT) on Communication Manager.

### 5.1. Configure a Station for Avaya 1400 Series Digital Telephone

Use the **add station** command to create a station for the 1408 Digital telephone. Set the **Type** field to the station type to be emulated. In this example, *1408* 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 digital telephone set the **Auto Answer** field on **Page 2** (not shown) to the appropriate value, such as *all*.

add station 40010		Page 1 of 5
STATION		
Extension: 40010	Lock Messages? n	BCC: 0
<b>Type: 1408</b>	<b>Security Code:</b>	TN: 1
<b>Port: IP</b>	Coverage Path 1:	COR: 1
Name: PhoneTech	Coverage Path 2:	COS: 1
	Hunt-to Station:	
STATION OPTIONS		
	Time of Day Lock Table:	
Loss Group: 2	Personalized Ringing Pattern: 1	
	Message Lamp Ext: 40010	
Speakerphone: 2-way	Mute Button Enabled? y	
Display Language: english		
Survivable COR: internal		
Survivable Trunk Dest? y	IP SoftPhone? n	
	Remote Office Phone: n	
	IP Video? n	

## 6. Connect PhoneTech R10RJAMP Headset

Connect the R10RJAMP headset to the RJ port of the S80 headset adapter, and then connect the S80 adapter directly to the headset port of the Avaya 1400 Series Digital Deskphone. The S80 adapter was in key position 2.

## 7. Verification Steps

Verify that the PhoneTech S80 Adapter and R10RJAMP Headset have been connected to the Avaya 1400 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 provide volume and mute control.

## 8. Conclusion

These Application Notes describe the configuration steps required to integrate the PhoneTech S80 Headset Adapter and PhoneTech R10RJAMP (Conf 4) Headset with Avaya 1400 Series Digital Telephones. All test cases were completed successfully with observations noted in **Section 2.2**.

## 9. Additional References

This section references the Avaya and PhoneTech 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, Issue 9, October 2013, Document Number 03-300509.
- [2] *Avaya 1400 Series Digital Deskphones for Avaya Aura® Communication Manager Installation and Maintenance Guide Release 1.0*, Issue 1, May 2010, Document Number 16-603143.
- [3] *Avaya 1400 Series Digital Deskphones User Guide for Avaya Aura® Communication Manager*, Issue 3, March 2011, Document Number 16-603151.

The following PhoneTech product documentation is available with the headset.

- [4] *PhoneTech S Series Adapters Technical Information*.

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