



**Application Notes for GN Netcom's Jabra Link 14201-20  
EHS Headset Adapter and Jabra PRO 920 Wireless Headset  
with Avaya 1600/9600/96x1 Series IP Phones – Issue 1.0**

**Abstract**

These Application Notes describe a solution comprised of Avaya 1600/9600/96x1 Series IP Phones and GN Netcom's Jabra Link 14201-20 EHS Headset Adapter and Jabra Wireless Headset PRO 920.

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 Jabra PRO 920 wireless headset attached to Jabra LINK 14201-20 EHS Adapter to successfully interoperate with Avaya IP phones. The Avaya telephones used are the 1600/9600/96x1 series IP telephones connected to Avaya Aura® Communication Manager.

The Jabra PRO 920 Headset is wireless headset for use in an office environment and away from desk. It uses the electronic hook-switch (EHS) adapter LINK 14201-20 to attach to the Avaya telephone. The base connects to the headset via DECT technology. The Jabra PRO 920 model was used for the compliance test and supports desk phone. The Jabra PRO 920 headsets are available in a headband, neckband and ear-hook wearing style.

## 2. General Test Approach and Test Results

The compliance testing of Jabra LINK 14201-20 EHS headset adapter interoperating with Avaya 1600, 9600 and 96x1 series IP phones was manually performed. No performance testing was done and the test listed in the **Section 2.1** was executed and verified.

### 2.1. Interoperability Compliance Testing

The compliance testing included the following test scenarios listed below.

- Verification of two-way audio path for local and PSTN calls.
- Verification of the headset PRO 920's mute button.
- Verification of the headset PRO 920's volume control.
- Verification of the headset PRO 920's Multi Function button (MFB) for answering and terminating call remotely.
- Verification of the 14201-20 adapter's ability to recover from interruption to the Avaya IP phone.
- Verification of the 14201-20 adapter's ability to recover from interruption of headset interface, and those 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 passed and the following observation was made:

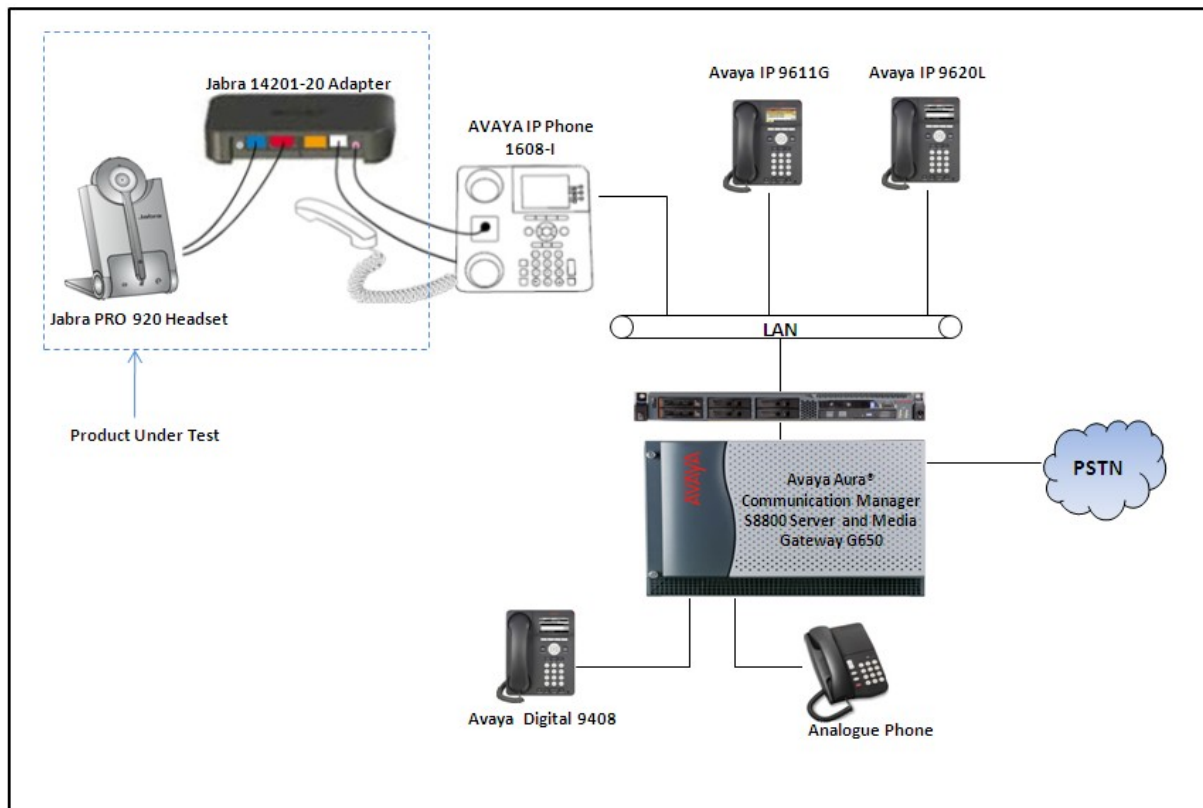
The ring back tone of incoming call on the wireless headset being connected to the adapter 14201-20 cannot be heard if the headset button on the physical phone is ON. The reason is that whenever the user with the wireless headset has a conversation with another user and the other user of this conversation hangs up the phone, the headset button on the physical phone with the adapter 14201-20 and wireless headset remains ON. To overcome this issue, the user with adapter 14201-20 and wireless headset should keep the physical phone on-hook and the headset button is never activated before making or receiving calls.

## 2.3. Support

For technical support for the Jabra 14201-20 adapter, and Jabra products in general, please refer to [www.jabra.com](http://www.jabra.com). On the Jabra website you'll find support hotline numbers specific to your country.

## 3. Reference Configuration

**Figure 1** illustrates the test configuration used during the compliance testing between the Avaya IP Phone and the Jabra LINK 14201-20 EHS Adapter and Jabra PRO 920 Headset.



**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 IP 1608-I Avaya IP 9620L (H.323) Avaya IP 9611G (H.323) Avaya Analog Phone	Ha1608ua1_3000.bin 3.1 SP2 6.0.1 -
Avaya DCP 9408	0.50
Avaya DCP 1408	0.31
Jabra PRO 920 Wireless headset	-
Jabra LINK 14201-20 EHS Adapter	-

## 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 Jabra PRO 920 headset and Jabra LINK cable adapter to the Avaya telephones. The compliance tests with the Jabra 14201-20 Adapter were carried out with the default server settings for audio parameters.

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

Use the command **Add Station <n>** to add a new extension for the IP phone in the Communication Manager, where <n> is an available extension, as shown in figure below. Enter the model of IP phone in the **Type** field, **IP** in the **Port** field, a name in the **Name** field and keep other fields as default. Press **F3** on the keyboard to submit the form.

```
admin@DevCM:~  
add station 75024  
Page 1 of 4  
STATION  
Extension: 75024 Lock Messages? n BCC: 0  
Type: 1608 Security Code: * TN: 1  
Port: IP Coverage Path 1: COR: 1  
Name: IP 1608 Coverage Path 2: COS: 1  
Hunt-to Station:  
STATION OPTIONS  
Loss Group: 19 Time of Day Lock Table: -  
Personalized Ringing Pattern: 1  
Message Lamp Ext: 75024  
Speakerphone: 2-way Mute Button Enabled? y  
Display Language: english  
Survivable GK Node Name:  
Survivable COR: internal Media Complex Ext:  
Survivable Trunk Dest? y IP SoftPhone? n  
IP Video? n  
Short/Prefixed Registration Allowed: default  
F1=Cancel F2=Refresh F3=Submit F4=Clr F1d=F5=Help F6=Update F7=Nxt Pg F8=Prv Pg
```

Figure 2: Sample of Adding Station in Communication Manager

## 6. Configure Jabra LINK 14201-20 EHS Adapter

During the compliance test, the Jabra LINK 14201-20 headset adapter was used for the connection of the Jabra PRO 920 headsets to the Avaya 1600/9600/96x1 series IP telephones.

### 6.1. Settings

Connect the Avaya IP phone to LAN network that connects to Communication Manager system. Follow the wizard guide to set the PRO 920 headset base unit **EHS** mode to **DHSG** and set “Clear dial tone switch” in “A” position, for more information please refer to headset manual.

### 6.2. Connection of cables

Connect the cable marked red (already included and attached into the AUX port of the adapter) to the AUX socket on headset base unit.

Connect the cable marked purple included with the 14201-20 adapter to the ring tone detector socket in the Jabra Link and place the ring sensor on the area of ringer sound (speaker) on the desk phone.

Connect the cable included with headset system, with one end to the phone socket in the headset base unit and the other end to the phone socket on the Jabra Link 14201-20 adapter.

Make sure to select the right cable for Avaya desktop phone, refer to the cable matrix section included with Jabra LINK adapter. For the Avaya 1600/9600/96x1 series IP phones, the cable marked as “C” has been selected to connect the headset socket on the Jabra Link 14201-20 adapter and the headset socket on the desk phone.

## 7. Verification Steps

- Pick up and put the PRO 920 wireless headset on. The light of the headset button on the IP desk phone should now be ON, the audio link indicator on headset base unit should also be ON, and the dial tone should be heard on the wireless headset.
- From the IP phone with adapter and headset, dial an extension of another Avaya IP phone and answer the call on that phone.
- Check audio path on the wireless headset and the handset of the other phone is established.
- End the call above by pressing the Multifunction button on the wireless headset. The LED of the headset button on the Avaya IP desk phone should be OFF and the audio link indicator on headset base unit is OFF.

## 8. Conclusion

These Application Notes describe the configuration steps required for Jabra PRO 900 series wireless headset attached to Jabra LINK 14201-20 EHS Adapter to successfully interoperate with Avaya IP phones. All of the executed test cases passed and met the objectives outlined in the **Section 2.1**, with test results and some exceptions and observation outlined in **Section 2.2**. The GN Netcom's Jabra Link 14201-20 EHS Adapter is considered to be in compliance with Avaya 1600/9600/96x1 series IP phone.

## 9. Additional References

Product documentation for the Avaya Aura<sup>®</sup> Communication Manager products may be found at: <https://support.avaya.com/css/Products/>

Product documentation for GN Netcom Jabra LINK 14201-20 EHS adapter product may be found at: [http:// www.jabra.com](http://www.jabra.com)

[1] Avaya Aura<sup>®</sup> Communication Manager Documents:

Administering Avaya Aura<sup>®</sup> Communication Manager Server Options, Release 6.0.1, Doc # 03-603479, Issue 2.2, April 2011.

Administering Avaya Aura<sup>®</sup> Communication Manager, Release 6.0, Release 6.0, Doc # 03-300509, Issue 6.0, June 2010.

[2] Jabra Headset PRO 900 Series Documents:

Jabra PRO 920 Quick Start Guide

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