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Avaya Solution & Interoperability Test Lab

Application Notes for Jabra Speak 510 USB/Bluetooth Speakerphone Version 1.3.0 with Avaya 9641G and 9670G IP Telephones – Issue 1.0

Abstract

These Application Notes describe the configuration steps required to integrate Jabra 510 speakerphone with Avaya 9641G and 9670G IP Telephones via Bluetooth interface. The Avaya 9641G and 9670G IP Telephones provide integrated Bluetooth support. Jabra Speak 510 speakerphone allows users to answer, end, and mute/un-mute calls directly from the speakerphone.

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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Solution & Interoperability Test Lab Application Notes
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Jabra510-9600

1. Introduction

Jabra Speak 510 speakerphone is a personal Bluetooth® and USB speakerphone to call and multitask on your terms – at the office, at home, or on the go.

These Application Notes describe the configuration steps required to integrate Jabra Speak 510 speakerphone with Avaya 9641G and 9670G IP telephones via Bluetooth interface and operate as it is a Bluetooth headset of the IP telephones. The Avaya 9641G and 9670G IP telephones provide integrated Bluetooth support. Jabra Speak 510 speakerphone allows users to answer, end, and mute/un-mute calls directly from the speakerphone.

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 Avaya 9641/G9670G IP telephones using Jabra Speak 510 speakerphone 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 Jabra Speak 510 speakerphone after restarting Avaya 9641G/9670G IP telephones and pairing (and disconnecting) the speakerphone with the phone using Bluetooth interface.

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.

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.
- Answering and ending calls using the call control button on the speakerphone.
- Using the volume control buttons on Jabra speakerphone to adjust the audio volume.
- Using the mute control button on Jabra speakerphone to mute and un-mute the audio.

For the serviceability testing, Jabra Speak 510 speakerphone was paired with Avaya 9641G/9670G IP telephones using Bluetooth and removed from the Bluetooth device list on the phone. In addition, Avaya 9641G/9670G IP telephones was restarted to verify proper operation of Jabra Speak 510 speakerphone after the reboot was completed.

2.2. Test Results

All test cases passed.

2.3. Support

For support on this Jabra Speak 510 speakerphone solution, contact Jabra Technical Support at:

- Phone: (800) 697-8757
- Website: http://www.jabra.com/NA-US/Support/pages/Default.aspx
- Email: JabraSupport.US@jabra.com

3. Reference Configuration

Figure 1 illustrates the test configuration used to verify Jabra Speak 510 speakerphone with Avaya 9641G/9670G 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. Jabra Speak 510 speakerphone was paired with Avaya 9641G/9670G IP telephones as a Bluetooth device.
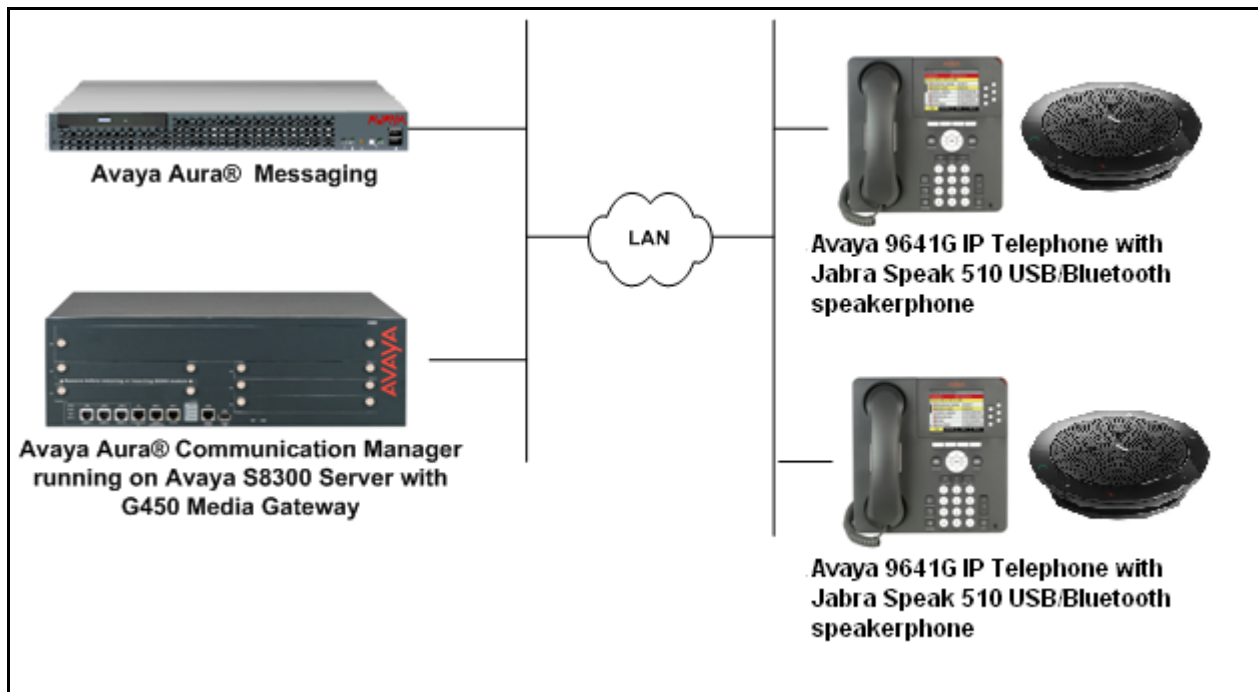

Figure 1: Avaya 9641G/9670G IP Telephones with Jabra Speak 510 USB Bluetooth Speakerphone

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	R016x.02.0.823.0
Avaya G450 Media Gateway	31.22.0.1
Avaya Aura® Messaging	6.0.1 SP 1

Avaya 9600 Series IP Telephones
  ▪ Avaya 9641G IP Telephone
  ▪ Avaya 9670G IP Telephone
	6.2209 (H.323)
	3.1 SP 2 (H.323)

Jabra Speak 510 USB/Bluetooth	1.3.0

5. Configure Avaya Aura® Communication Manager

This section covers the station configuration for Avaya 9641G/9670G IP telephones. The configuration is performed via the System Access Terminal (SAT) on Communication Manager. The procedures include:

- Configuring a station for Avaya 9641G/9670G IP telephones
- Pairing Jabra Speak 510 speakerphone with the IP telephones.
- Removing Jabra Speak 510 speakerphone from Avaya 9641G/9670G IP telephones Bluetooth device list, when necessary.

5.1. Configure a Station for Avaya 9641G/9670G IP Telephones

Use the **add station** command to create a station for Avaya 9641G/9670G IP telephones. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- **Type**: enter station type **9640**.
- **Name**: A descriptive name.
- **Security Code**: Enter a valid code, e.g. **1234**.
- **IP SoftPhone**: **y**

Note: To enable Auto Answer on the IP telephone set the **Auto Answer** field on **Page 2** (not shown) to the appropriate value, such as **all**.

```
add station 53010                                           Page   1 of   5
                                STATION

Extension: 53010                       Lock Messages? n                BCC: 0
        Type: 9640                     Security Code: 53010             TN: 1
        Port: IP                       Coverage Path 1:               COR: 1
        Name: Jabra                    Coverage Path 2:               COS: 1
                                       Hunt-to Station:
STATION OPTIONS
                                       Time of Day Lock Table:
              Loss Group: 19      Personalized Ringing Pattern: 1
                                            Message Lamp Ext: 53010
          Speakerphone: 2-way          Mute Button Enabled? y
      Display Language: english          Button Modules: 0
 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

                                      Customizable Labels? y
```

5.2. Pair Jabra Speak 510 with Avaya 9641G/9670G IP Telephones

After Avaya 9641G/9670G IP telephones are configured and in-service, start the Bluetooth pairing process as described below. Avaya 9641G/9670G IP telephones provide a touch-screen.

Note: If the headset does not pair or connect to Avaya 9641G/9670G IP telephones, follow the procedure in the next section to reset the Bluetooth device list.

1. On Avaya 9641G/9670G IP telephones, press the **Home** button and then select the **Settings** icon on the touch-screen.
2. Select **Bluetooth Setup** and then select **Add** to add a Bluetooth device.
3. Select **Other Headset**.
4. Now, turn on Jabra Speak 510 speakerphone by touch and hold the power sign on the speakerphone until the light indicator is lit up. Then touch and hold the Bluetooth sign on Jabra Speak 510 speakerphone until the Bluetooth light indicator is flashing blue. The "Welcome, you are now ready for pairing…" voice prompt is heard on Jabra Speak 510 speakerphone.
5. On Avaya 9641G/9670G IP telephones, select **Start** to begin the pairing process.
6. Wait 5-15 sec. while the devices discover each other. Avaya 9641G/9670G IP telephones will display "Looking for Bluetooth device" on the touch-screen.
7. Once found, Avaya 9641G/9670G IP telephones will display the device found. It will indicate "Device: Jabra Speaker 510".
8. On the Avaya 9641G/9670G IP telephones, select **Next**.
9. Wait while the Passkey is processed. Avaya 9641G/9670G IP telephones will automatically try common Bluetooth Passkeys, such as '0000'. Jabra speakerphone uses '0000' by default so Jabra Speak 510 speakerphone should be paired successfully without any further action by the user.
10. When the pairing process is complete, Avaya 9641G/9670G IP telephones will display, "Your Blueooth device paired" and Jabra Speak 510 speakerphone will announce, "Connected".

5.3. Removing Headset from 9670G Bluetooth Device List

To remove Jabra Speak 510 speakerphone from Avaya 9641G/9670G IP telephones Bluetooth device list, follow these instructions.

Note: This procedure may be necessary if Jabra Speak 510 speakerphone will not pair or connect to Avaya 9641G/9670G IP telephones and the user would like to restart the pairing process. Pairing information for devices previously paired with the headset will be lost.

1. On Avaya 9641G/9670G IP telephones, press the **Home** button and then select the **Settings** icon on the touch-screen.
2. Select **Bluetooth Setup** and follow the prompts to remove Jabra Speak 510 speakerphone from the list.

6. Configure Jabra Speak 510 USB/Bluetooth Speakerphone

No configuration is required for Jabra Speak 510 speakerphone. However, Jabra Speak 510 speakerphone does have to be paired with Avaya 9641G/9670G IP telephones as a Bluetooth device using the default Passkey on the headset, which is '0000'. Once the headset has been paired, it will be ready for calls.

7. Verification Steps

Verify that Jabra Speak 510 speakerphone has been paired with Avaya 9641G/9670G IP telephones using Bluetooth by viewing the Bluetooth device list on the phone under **Bluetooth Setup**. Once Jabra Speak 510 speakerphone is connected to the Avaya 9641G/9670G IP telephones, verify that incoming and outgoing calls are established with two-way audio to Jabra Speak 510 speakerphone and that Jabra Speak 510 speakerphone can get dial tone and end an active call.

8. Conclusion

These Application Notes describe the configuration steps required to integrate Jabra Speak 510 speakerphone with Avaya 9641G/9670G IP Telephones. All test cases were completed successfully.

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 Jabra Speak 510 USB and Jabra products may be found at:
http://www.jabra.com

[1] Avaya Aura® Communication Manager Documents:
Administering Avaya Aura® Communication Manager Server Options, Release 6.2, Doc # 6.203-603479, Issue 3.0, December 2012.
Administering Avaya Aura® Communication Manager, Release 6.2, Doc # 03-300509, Issue 7.0, December 2012.

[2] Jabra Speak 510 Documents:
Jabra Speak 510 Quick Start Guide included with the device.
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