

Avaya Solution & Interoperability Test Lab

Application Notes for Plantronics DA-70/80 USB Processors Adapters and SupraPlus HW251N/HW261N Headsets with Avaya one-X® Attendant - Issue 1.1

Abstract

These Application Notes describe the configuration steps required to integrate the Plantronics DA-70/80 USB Processors Adapters and SupraPlus HW251N/HW261N Headsets with Avaya one-X® Attendant using H.323. The Plantronics DA-70/80 USB Processor Adapters connect to a PC via a USB port and to Plantronics SupraPlus HW251N/HW261N headsets via Quick Disconnect connector. The DA-80 adapter provides call control features directly from the adapter, such as answering or terminating a call from the headset, adjusting volume control and mute from the headset while the DA-70 adapter does not have the call control features.

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 Plantronics DA-70/80 USB Processors Adapters and SupraPlus HW251N/HW261N Headsets with Avaya one-X® Attendant using H.323. The Plantronics DA-70/80 USB Processor adapters connect to a PC via a USB port and to Plantronics SupraPlus HW251N/HW261N headsets via Quick Disconnect (QD) connector. The DA-80 adapter provides call control features directly from the adapter, such as answering or terminating a call from the headset, adjusting volume control and mute from the headset while the DA-70 adapter does not have the call control features.

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 one-X® Attendant softphone with the Plantronics DA-70/80 USB Processors Adapters and SupraPlus HW251N/HW261N headsets and verifying two-way audio, and call control from the headset. The call types included calls to voicemail, local extensions, and the PSTN.

The serviceability testing focused on verifying the usability of the Plantronics headsets after restarting Avaya one-X® Attendant and re-connecting the DA-70/80 adapter to the USB port on the PC which has Avaya one-X® Attendant softphone installed and disconnecting the headsets from the adapters.

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.
- Incoming call alert notification.
- Hearing ringback tone for outgoing calls.
- Using the call control button on the Plantronics DA-80 adapter.
- Using the volume control and mute buttons on the Plantronics DA-80 adapter.
- Answering and terminating the call using Avaya one-X[®] Attendant to verify status of call control is reflected on the Plantronics headset.
- Using the Plantronics headset with Avaya one-X® Attendant softphone using H323 protocol only.

For the serviceability testing, the Plantronics headset is reconnected to the USB port, and the Avaya one-X® Attendant softphone is restarted to verify proper operation of the headset.

2.2. Test Results

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

- The light on the call control button on the Plantronics DA-80 USB Processor Adapter is used to indicate the status of the call; however, version 4.0 SP11 of Avaya one-X® Attendant currently does not support this feature. The user is still able to use this button to answer and end a phone call on the one-X® Attendant but there is no light on the button.
- When a PC is restarted after one-X® Attendant is installed, the user may see an indication that the Plantronics Spokes Software, or Hub Software, process is running on the Windows task bar. This process is used by the headset for call control functionality. If the user manually closes or shuts down this process while one-X® Attendant is running, call control functionality will stop. Restarting one-X® Attendant will restore call control functions.

2.3. Support

For technical support and information on Plantronics DA-70/80 USB Processors Adapters and Plantronics SupraPlus HW251N/HW261N Headsets, contact Plantronics Support at:

Phone: 1-855-765-7878

1-831-426-5858 (International)

• Website: <u>http://www.plantronics.com/us/support/index.jsp</u>

3. Reference Configuration

Figure 1 illustrates the test configuration used to verify the Plantronics DA-70/80 USB Processors Adapters and SupraPlus HW251N/HW261N Headsets with Avaya one-X® Attendant. The configuration consists of Avaya Aura® System Manager, Avaya Aura® Session Manager, Avaya Aura® Communication Manager, Avaya Aura® Messaging, and Avaya Aura® Media Server appliances that were installed in virtual environment which is a VMware server. The testing used both G450 Media Gateway and Avaya Aura® Media Server to balance DSP resources that connect from/to endpoints in Communication Manager. SIP endpoints registered with Avaya Aura® Session Manager and Avaya Aura® Messaging was used as the voicemail system. The system had a PRI/T1 trunk connected to the PSTN from the G450. The Plantronics DA-70/80 USB Processor adapters connect to a PC via a USB port and to the HW251N/HW261N headsets via QD connector.

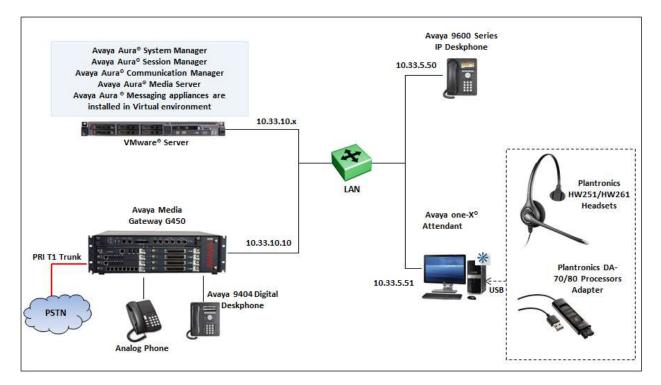


Figure 1: Avaya one-X® Attendant softphone with Plantronics DA-70/80 USB Processors Adapters and SupraPlus HW251N/HW261N Headsets

4. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Equipment/Software	Release/Version
Avaya Aura® System Manager in Virtual Environment	7.0.0.16266
Avaya Aura® Session Manager in Virtual Environment	7.0.0.700007
Avaya Aura® Communication Manager in Virtual Environment	7.0 (R017x.00.0.441.0) Patch 22477
Avaya Aura® Messaging in Virtual Environment	6.3.1
Avaya Aura® Media Server in Virtual Environment	7.7.0.236
Avaya G450 Media Gateway	37.19.0
Avaya 96x1 Series IP Deskphones	6.5 (SIP)
Avaya 96x0 Series IP Deskphones	3.25 (H323)
Avaya one-X® Attendant running on a Microsoft Windows 2007 SP1	4.0 SP11 (4.12.010.001)
Avaya 9408 Digital Deskphone	Firmware12
Analog phone	N/A
Plantronics DA-70/80 USB Processor	Base: v.68
Adapters	Tuning: v.26.26 USB: v.68
Plantronics SupraPlus HW251N Headset	P/N: 64338-31
Plantronics SupraPlus HW261N Headset	P/N: 64339-31

5. Configure Avaya Aura® Communication Manager

This section covers the station and Attendant configuration for Avaya 9600 IP endpoint. Configuration is performed via the System Access Terminal (SAT) on Communication Manager.

Use the command "**add attendant** \langle **ID** \rangle " to add an attendant which the \langle **n** \rangle is an available attendant in the system. In the **Type** field, enter 302 as the attendant type, the **Extension** field enter an available extension, the **Console Type** enter *principal*, the **Port** field enter *IP*, and enter a security code in the **Security Code** field as this code is to be used by Avaya one-X® Attendant to log in, leave other fields at default.

Add attendant	1			Page	1 of 4	
	ATTENDANT CONSOLE 1					
Type:	302	Name: or	ne-X Attendan	t		
Extension:	3399	Group: 1		Auto Answer:	none	
Console Type:	principal	TN: 1		Data Module?	n	
Port:	IP	COR: 1	Dis	o Client Redir?	n	
Security Code:	1234	COS: 1	Dis	splay Language:	english	
			н.:	320 Conversion?	n	
DIRECT TRUNK G	ROUP SELECT	BUTTON ASSIGN	MENTS (Trunk A	Access Codes)		
Local Remo	te	Local Remote]	Local Remote		
1:	5:		9:			
2:	6:		10:			
3:	7:		11:			
4:	8:		12:			
HUNDREDS SELEC	T BUTTON ASS	IGNMENTS				
1: 3302	5:	9:	13:	17:		
2:	6:	10:	14:	18:		
3:	7:	11:	15:	19:		
4:	8:	12:	16:	20:		

6. Configure Avaya one-X® Attendant Softphone

This section illustrates the sample configuration of Avaya one-X® Attendant softphone to register to Communication Manager as an attendant provisioned in **Section 5** above.

Navigate to Start Menu \rightarrow All Program \rightarrow Avaya \rightarrow Avaya one-X Attendant and select Avaya one-X Attendant. The Login window is displayed. In the Extension tab, enter the attendant number 3399 and its password in the Extension and Password fields as configured in Section 5, select *Road Warrior* in the Configuration field, enter the Communication Manager IP 10.33.1.6 in the Call Server Address field, select *Local Area Network* in the Bandwidth Setting dropdown menu and other fields at default. Click on Log in button.

Login ×
Extension: Password:
<u>C</u> onfiguration:
Road Warrior 🔹
Call <u>S</u> erver Address:
10.33.1.6
Band <u>w</u> idth Setting:
Local Area Network
Dialing Location:
My Location
Remember password for next login session
Automatically log in if possible when application restarts
Based on the server configuration, the G.711, G.729, or G.723 codec will be used for voice over IP calls.
Log in Settings Cancel <u>H</u> elp

The **Login Status** window is displayed to show all the information that has been entered and select **Close** button on this window (not shown). Avaya one-X® Attendant window is displayed, click on **Login** button, the **User Login** window is displayed as shown below. Enter the default user name *Avaya* and its default password *000000* and click **OK** button.

AVAYA onex	Avaya one	-X® Attenda	ant			_ ^ X
AVAY						
	User Lo	gin			×	
Carson 2	Name:	Avaya		1000	ОК	
	Password:	*******			Cancel	
					Back	ANC.
AVAYA oneX			Login	D Info	Operator call	SOS Emergency call

The screenshot below shows the one-X® Attendant successfully logged in.

Avaya one-X® Avaya one-X® A	Attendant		_ ^ ×
one-X Attendant <u>V</u> iew <u>E</u> dit <u>H</u> elp			
Operator			
Call number or name			
-			
,,			
1 <u></u>			
🗜 🗂 🔹 📢 🐝			Queue: 0 longest wait time:
Edit	Avaya	one-X Attendant	11/26/2015 4:54 PM

Solution & Interoperability Test Lab Application Notes ©2016 Avaya Inc. All Rights Reserved. To configure Avaya one-X[®] Attendant to use the Plantronics headset, from the Avaya one-X[®] Attendant window, select **Audio Tuning Wizard** icon **I**. The **Audio Tuning Wizard** window is displayed. In the **Select a primary playback device** and **Select a recording device** dropdown menu, select *Plantronics D*. Click **Next** button to go to next steps until it is completed.

Audio Tuning W	izard	×
	Ensure that all applications that record or play sound are closed. Select a primary playback device: Headset Earphone (Plantronics D Select a recording device: Headset Microphone (Plantronics Enable a secondary ring device	
	< Back Next > Cancel Help	

7. Install Plantronics DA-70/80 USB Processors Adapters & SupraPlus HW251N/261N Headsets

Connect the Plantronics DA-70/80 USB Processors to the SupraPlus HW251N/HW261N Headsets and to a USB port on the PC running Avaya one-X® Attendant softphone.

8. Verification Steps

These typical steps below are used to verify the interworking between Plantronics Hub software, Plantronics DA-80 USB adapters, SupraPlus HW251N/HW261N headsets and Avaya one-X® Attendant softphone. Note that these steps below are applied on the Plantronics DA-80 adapter. For Plantronics DA-70 adapter that does not have the call control button, only audio of the calls and call status are verified, the call status is verified based on the beep tone heard through the headsets and changing color of Hub icon in the system tray for actions made on the one-X® Attendant softphone such as mute/unmute and call answer/end.

- 1. From Avaya one-X® Attendant softphone with Plantronics headset, place a local call to another station.
- 2. Verify the ringback tone is heard through the Plantronics headset and the light on the call control button on the DA-80 adapter is lit up.
- 3. Answer the call on the other station, verify two-way speech path with clear audio between the Avaya one-X® Attendant softphone and the other station.
- 4. During the call, adjust the volume up and down and mute/unmute from Plantronics DA-80 adapter, verify the volume adjusted successfully and status of mute/unmute reflected properly on Avaya one-X® Attendant softphone.
- 5. End the call by pressing the call control button on the Plantronics headset, verify the call is terminated and the headset is idle.

9. Conclusion

These Application Notes describe the configuration steps required to integrate the Plantronics DA-70/80 USB Processors Adapters and Plantronics SupraPlus HW251N/HW261N Headsets and Avaya one-X® Attendant softphone. All test cases were completed successfully with observations noted in **Section 0**.

10. Additional References

This section references the Avaya and Plantronics documentation that are relevant to these Application Notes.

The following Avaya product documentation can be found at <u>http://support.avaya.com</u>.

- [1] Administering Avaya Aura® Communication Manager, Release 7.0, Issue 1, August 2015, Document Number 03-300509.
- [2] Administering Avaya Aura System Manager, Release 7.0, Issue 8, September 2015.
- [3] Administering Avaya Aura Session Manager, Release 7.0, Issue 7, September 2015.
- [4] Avaya one-X Attendant Installation and Administration Manual, Release 4.0, Version 1, December 12

The Plantronics product documentation can be found at <u>http://www.plantronics.com</u>.

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