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Avaya Solution & Interoperability Test Lab

Application Notes for VXi Connect Avaya Software and VXi UC ProSet LUX USB Corded Headsets with Avaya one-X® Agent - Issue 1.0

Abstract

These Application Notes describe the compliance test and configuration procedures needed to integrate VXi Connect Avaya Software and VXi UC ProSet LUX USB Corded Headsets with Avaya one-X® Agent.

VXi Connect Avaya Software is a stand-alone application providing call control to VXi headsets. VXi UC ProSet LUX USB Corded is a portable, wideband audio, USB Corded noise-canceling headset optimized for PC communications. The VXi headset includes inline DSP, echo cancellation, mute, volume and answer/end controls, and is designed to interface with PC-based UC systems and USB-equipped softphones such as Avaya one-X® Agent.

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 VXi Connect Avaya Software and VXi UC ProSet LUX USB Corded Headsets with Avaya one-X® Agent. In this compliance testing, the UC ProSet LUX 5031U HDST headset was tested.

2. General Test Approach and Test Results

The interoperability compliance test included functionality and serviceability testing. The functionality testing focused on placing and receiving calls to and from Avaya one-X® Agent clients using the VXi Headsets, and verifying good talk path in both directions. The type of calls made included calls to the voicemail, and calls to and from internal extensions and the PSTN.

The serviceability testing focused on verifying the usability of the VXi Headsets when Avaya one-X® Agent was restarted, after disconnecting and reconnecting the headsets to the USB port, and after a reboot on the PC where Avaya one-X® Agent was running.

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

The following functionality was 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 path and quality.
- Placing and receiving calls to and from the PSTN to verify two way audio path and quality.
- Answering and ending calls using the Call Control button on the headset.
- Using the volume control buttons on the VXi to adjust the volume on the headset speakers.
- Using the mute control button on the VXi to mute and un-mute the transmitted audio.

For the serviceability testing, the headsets were disconnected and reconnected to the USB port of the PC running Avaya one-X® Agent to verify proper operation. In addition, the PC was rebooted to verify that the headsets were operational after the restart was completed and the application reinitialized.

2.2. Test Results

All compliance test cases passed successfully.

2.3. Support

For technical support and information on the VXi products described in this solution, contact VXi Technical Support at:

Phone: 800-742-8588 (toll free); 1-603-742-2888 (International)
E-Mail: TechnicalSupport@vxicorp.com
Website: http://www.vxicorp.com/customer-care/technical-support

3. Reference Configuration

Figure 1 illustrates the test configuration used to verify the VXi headset solution. Avaya Aura® Communication Manager on Avaya G450 Media Gateway provides the VoIP resources for the connectivity of Avaya IP Telephones and the SIP trunk to the simulated PSTN used during the compliance tests. Avaya one-X® Agent was installed on a computer running Microsoft Windows 7 and registered to Communication Manager as a H.323 endpoint. The VXi headset is connected to an available USB port in the PC.
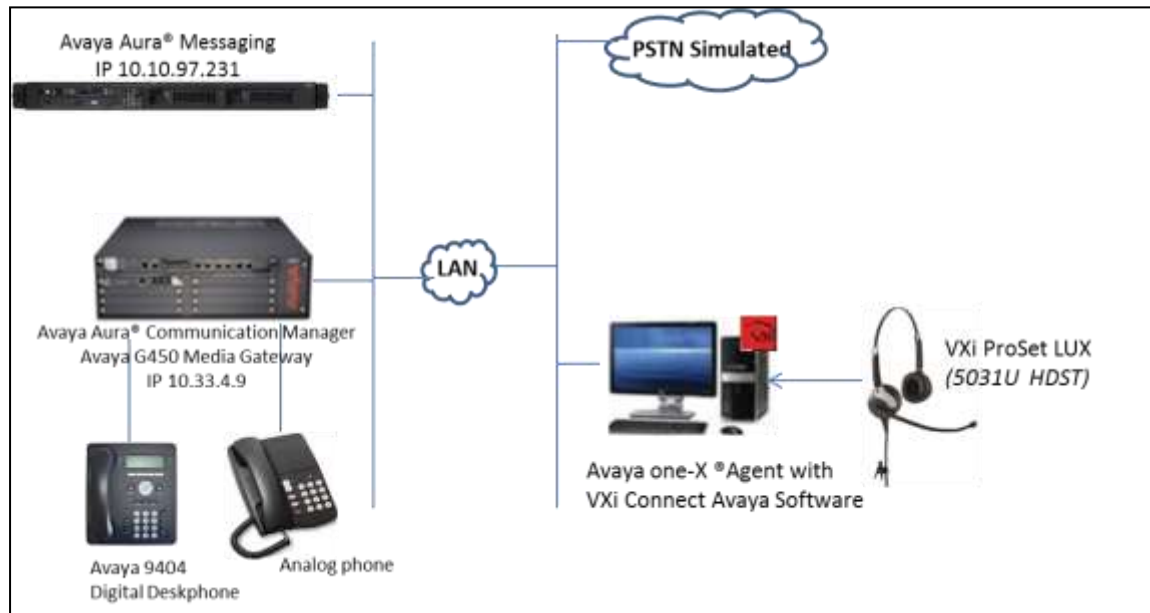
Figure 1: Test configuration Avaya one-X® Agent with VXi Connect Avaya and VXi Headsets

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	6.3.12
Avaya G450 Media Gateway	36.156.0
Avaya Aura® Messaging	6.1
Avaya one-X® Agent (H.323)	2.5.8
VXi UC ProSet LUX	5031U HDST 1.04
VXi Connect Avaya	1.13

5. Configure Avaya Aura® Communication Manager

An extension must be created in Communication Manager for the Avaya one-X® Agent to log in, configure system preferences, make and receive direct calls, or to sign in as an agent. The configuration is performed via the System Access Terminal (SAT) on Communication Manager.

Use the **add station** command to create a station for one-X Agent. Set the **Type** field to the station type to be emulated. In this example, *9640* was used. Create a **Security Code**, which will be used as the password to log in. Enter a **Name.** Set the **IP Softphone** field to *y*.

```
display station 3036                                      Page   1 of   5
                              STATION

Extension: 3036                    Lock Messages? n              BCC: 0
    Type: 9640                     Security Code: 1234            TN: 1
    Port: S00055                 Coverage Path 1: 2              COR: 1
    Name: Nam Mot                Coverage Path 2:                COS: 1
                                 Hunt-to Station:              Tests? y
STATION OPTIONS
                                   Time of Day Lock Table:
            Loss Group: 19     Personalized Ringing Pattern: 1
                                      Message Lamp Ext: 52151
         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? y

                                   IP Video Softphone? n
                   Short/Prefixed Registration Allowed: default

                                   Customizable Labels? y
```

On **Page 4** of the Station form, configure the necessary agent work mode buttons that are used in a contact center. They are used by Avaya one-X® Agent to log in as an Automatic Call Distribution (ACD) agent. The work mode buttons used in the sample configuration are highlighted in the screen below.

```
display station 52151                                           Page   4 of   5
                                     STATION
 SITE DATA
       Room:                                        Headset? n
       Jack:                                        Speaker? n
      Cable:                                        Mounting: d
      Floor:                                     Cord Length: 0
   Building:                                       Set Color:
ABBREVIATED DIALING
    List1:                 List2:                        List3:
BUTTON ASSIGNMENTS
 1: call-appr                       5: manual-in         Grp:
 2: call-appr                       6: after-call        Grp:
 3: call-appr                       7: aux-work    RC:   Grp:
 4: auto-in          Grp:           8: release
    voice-mail 39990
```

Even though ACD was implemented and used during the compliance tests, ACD and Agents administration is beyond the scope of these Application Notes, and they are assumed to be already in place. Logging in to a particular ACD was not necessary to complete the configuration steps for the integration of the Avaya one-X® Agent application with the VXi headsets.

6. Install the VXi Connect Avaya Software and VXi USB Corded Headset

The VXi Connect Avaya enables the VXi audio devices/headsets to answer, end, and mute calls using the call control button on the headset itself. Install the software on the PC running the Avaya one-X® Agent. Refer to **Section 10** of these Application Notes for additional information. After the VXi Connect Avaya software is installed, connect VXi headsets to the desktop PC running Avaya one-X® Agent via USB port.

7. Configure Avaya one-X® Agent

Launch Avaya one-X® Agent and log in using the extension number and password created previously. Click the **System Options** ☰▾ icon in the top bar. Select **Agent Preferences**.

In the **Agent Preferences** window, click on **Audio** and then select the **Advanced** tab. Verify that **Playback Device** and **Record Device** (VXi UC ProSet v1.04S) as shown below. Click **OK**.
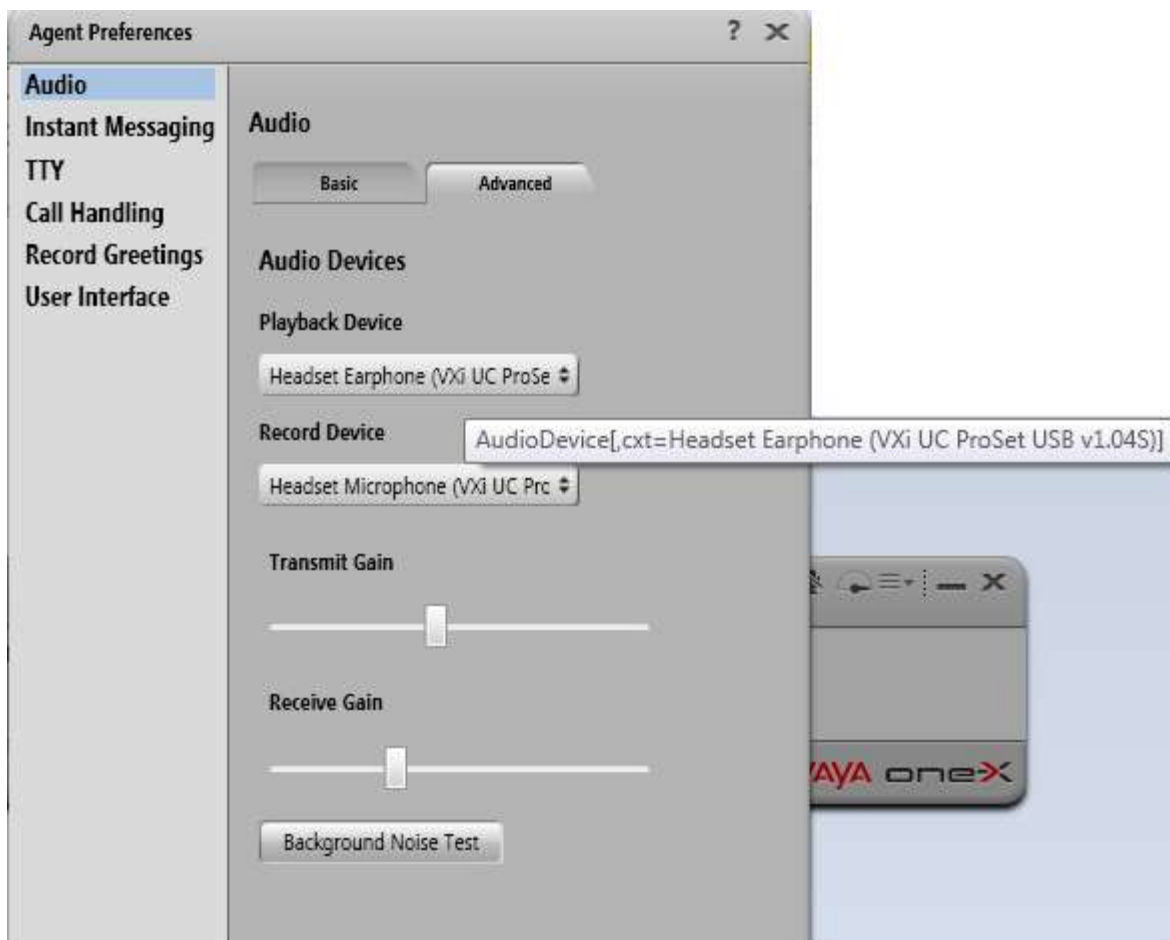
8. Verification Steps

This section provides the steps that can be performed to verify proper installation of the VXi Connect Avaya software and VXi headset with Avaya one-X® Agent.

8.1. Verify VXi Connect Avaya

Make sure Avaya one-X® Agent is launched and headset is plugged in. At the Notification icon area at the right bottom corner of the PC's screen, hover over the VXi Connect Avaya icon and verify that the status is "Connected" as shown below:

8.2. Verify call via headset

This section provides tests that can be performed to verify proper installation of headset, VXi Connect Avaya software and Avaya one-X® Agent:

1. Place a call to Avaya one-X® Agent from another extension. Click the call control on the headset to answer the call.
2. Verify two-way talk path between the headset and the called extension.
3. Press the Mute button on the headset and verify the call can be muted/unmuted.
4. Verify mute light on headset and mute icon on one-X Agent and are consistently together and indicate correct mute status.
5. Verify the volume can be adjusted by using the volume controls on the headset.
6. Disconnect the call from the headset by pressing the call control button again on the headset.
7. Verify that the call is properly disconnected.

9. Conclusion

These Application Notes describe the configuration steps required to integrate the VXi Connect Avaya Software and VXi UC ProSet LUX USB Corded Headsets with Avaya one-X® Agent. All test cases were completed successfully.

10. Additional References

This section references the Avaya and VXi 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 03-300509 Issue 10 August 2015.*
[2] *Installing and Configuring Avaya one-X® Agent, Release 2.5, March 31, 2011.*

Documentation and information for the VXi LUX headsets can be found at the following websites:

[3] http://www.vxicorp.com/products/software-applications-downloads/
[4] http://www.vxicorp.com/products/uc-usb-headsets/vxi-uc-proset-lux/

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