

Avaya Solution & Interoperability Test Lab

Application Notes for EPOS Connect and EPOS IMPACT 100 Series USB-A Headset with Avaya Workplace Client for Windows - Issue 1.0

Abstract

These Application Notes describe the configuration steps required to integrate EPOS Connect and EPOS IMPACT 100 Series USB-A Headset with Avaya Workplace Client for Windows.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as any 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

The EPOS IMPACT 100 Series USB-A Headset together with EPOS Connect software allows connection to and call control of Avaya Workplace Client for Windows (hereafter referred to as Avaya Workplace) using a cable connected via the USB interface to the PC. EPOS Connect is a collection of programs that enables remote call control by EPOS headsets when used with Avaya Workplace for Windows. With an EPOS headset connected to the PC USB interface, users can directly answer, end, mute/unmute, and adjust volume using the headset.

The following EPOS IMPACT 100 Series headsets were used for compliance testing.

- IMPACT SC 60 USB ML
- IMPACT SC 75 USB MS

Note: See the EPOS Declaration of Compliance, **Attachment 1**, which provides details of other EPOS IMPACT 100 series models for which this testing applies. For additional information contact EPOS support as shown in **Section 2.3**.

2. General Test Approach and Test Results

The interoperability compliance test included feature and serviceability testing. The feature testing focused on placing calls with Avaya Workplace, answering and ending calls using the call control button on the EPOS headset, and verifying two-way audio. The call types include calls to voicemail, local extensions, and the PSTN. Auto-answer, call hold and resume, mute and un-mute, and volume were also tested.

The serviceability testing focused on verifying the usability of the EPOS headset solution after restarting the Avaya Workplace, restarting the PC, and reconnecting the headset USB cable to the PC.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in these DevConnect Application Notes included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with these Application Notes, the interface between Avaya systems and endpoints utilized enabled capabilities of TLS/SRTP.

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 headset and the soft button on Avaya Workplace.
- Using the soft button on Avaya Workplace to hold and resume the audio.
- Using the volume buttons on the headset to adjust the audio volume.
- Using the mute button on the headset and the soft button on Avaya Workplace to mute and un-mute the audio and verifying the mute status.
- Verifying incoming call notification.
- Verifying call ended notification.

The serviceability testing focused on verifying the usability of the headset solution after restarting the Avaya Workplace, restarting the PC, and reconnecting the USB interface to the PC.

2.2. Test Results

All test cases were completed successfully. The following issue was observed:

1. Unable to terminate PSTN call or Voicemail call from headset. Terminating extension call works. Terminating from Avaya Workplace Client for all types of calls also works.

The problem has been fixed, and the solution is included in the next version of EPOS Connect.

2.3. Support

For support on this EPOS headset solution, contact EPOS Technical Support at the website below; sign-in is required:

• Website: https://eposaudio.com/support/

3. Reference Configuration

Figure 1 illustrates the test configuration used to verify the EPOS Connect and EPOS IMPACT 100 Series headset with Avaya Workplace. The EPOS Connect software was installed on the PCs together with Avaya Workplace. The EPOS headsets were connected via a cable into the PCs' USB interface. The following EPOS IMPACT 100 headsets are tested:

- IMPACT SC 60 USB ML
- IMPACT SC 75 USB MS

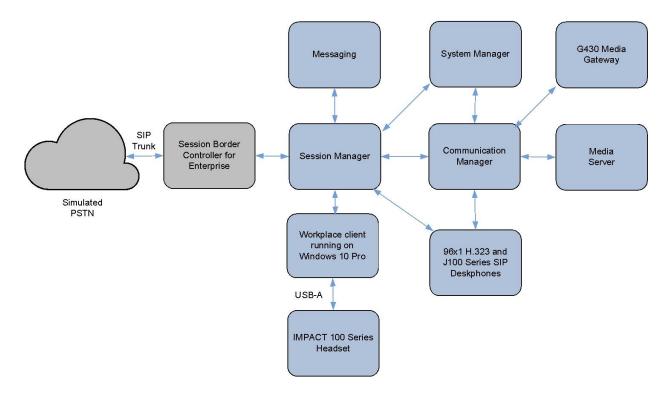


Figure 1: Test Configuration

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	8.1.3.0.1-FP3P1
Avaya G430 Media Gateway • MGP	41.34.1
Avaya Aura® System Manager	8.1.3.1 Build No 8.1.0.0.733078 Software Update Revision No: 8.1.3.1.1012244 Service Pack 1
Avaya Aura® Session Manager	8.1.3.1.813113
Avaya Aura® Media Server	8.0.2.138
Avaya Messaging	10.8 SP1SU2
Avaya 96x1 Series H.323 Deskphones	6.8511
Avaya J100 Series SIP Deskphones	4.0.10
Avaya Workplace Client running on Windows 10 Pro	3.20
 EPOS IMPACT 100 Series Headsets IMPACT SC 60 USB ML IMPACT SC 75 USB MS 	v15.05.89.0089
EPOS Connect for Windows	4.5.0.1295

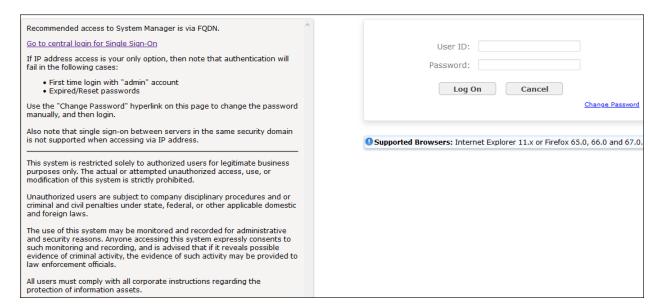
5. Configure Avaya Aura® Communication Manager

It is implied a working Communication Manager system is already in place, including dial plans and SIP trunks to a Session Manager. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 11**.

6. Configure Avaya Aura® Session Manager

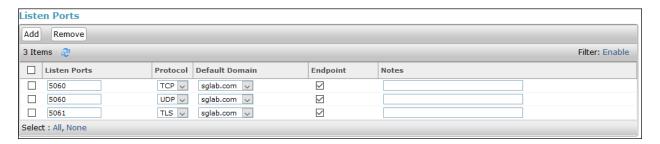
This section describes aspects of the Session Manager configuration required for Avaya Workplace to register. It is assumed that the Domains, Locations, SIP entities, Entity Links, Routing Policies, Dial Patterns and Application Sequences have been configured where appropriate for Communication Manager, Session Manager and Messaging.

Session Manager is managed via System Manager. Using a web browser, access https://<ip-addr of System Manager>/SMGR. In the Log On screen, enter appropriate User ID and Password and click the Log On button.



6.1. Verify Session Manager Ports for SIP endpoint registration

Each Session Manager Entity must be configured so that the SIP Endpoint can register to it. From the home page, under **Elements**, click **Routing** \rightarrow **SIP Entities** (not shown) and select the Session Manager entity used for registration. Make sure that **TCP**, **UDP** and **TLS** entries are present under **Listen Ports**. During the compliance test, Avaya Workplace registered to the Session Manager using TLS transport.



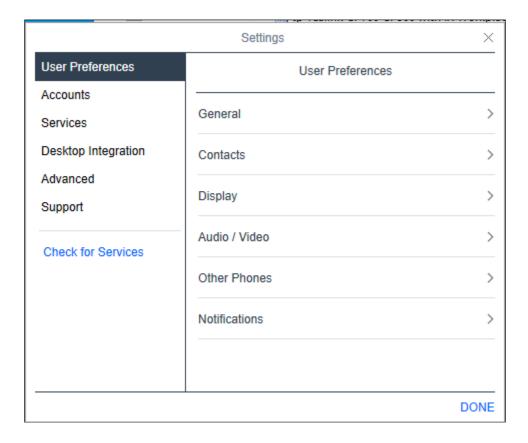
6.2. Add SIP User

The addition of a SIP User will not be detailed here. Refer to details in adding user in the administration document for Avaya Aura® Session Manager in [4].

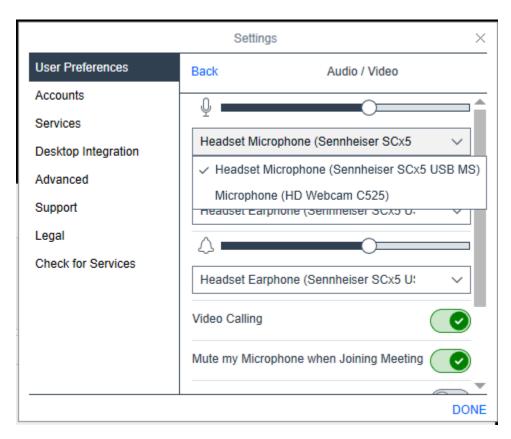
7. Configure Avaya Workplace

Avaya Workplace is a SIP soft phone application that provides users with access to Unified Communications (UC) services. This section shows how to configure the EPOS IMPACT 100 Series for use with Avaya Workplace.

From Avaya Workplace, navigate to **Settings** → **User Preferences** → **Audio/Video**.



Assuming IMPACT SC 75 USB is being used, select *Sennheiser SCx5 USB MS* for Microphone and the same for Speakers as shown below. It is optional for Ringing on incoming calls to be set as *Sennheiser SCx5 USB MS*.



8. Configure EPOS IMPACT 100 Series headset Solutions

This section covers the steps to integrate EPOS IMPACT 100 Series headset with Avaya Workplace, including:

- Installing the EPOS Connect Software
- Connecting the EPOS headset
- Configuring the EPOS headset with EPOS Connect

Note: After successfully performing this procedure, the EPOS headset will be detected in Avaya Workplace as described in **Section 7**.

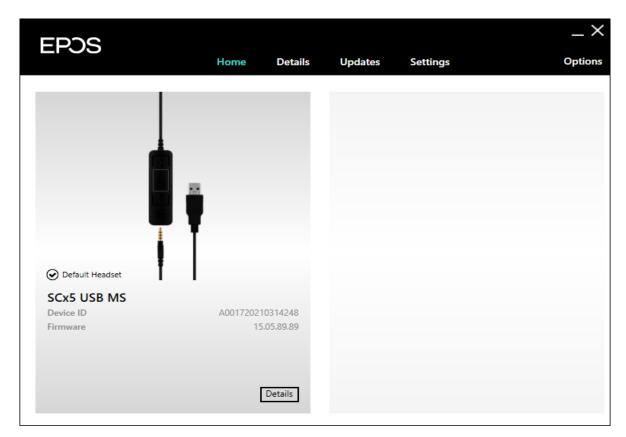
8.1. Installing the EPOS Connect Software

EPOS Connect software can be obtained from the EPOS support portal at https://eposaudio.com/support/. Installation of the software is done by executing the .exe file and following the prompt.

8.2. Connect the EPOS headset

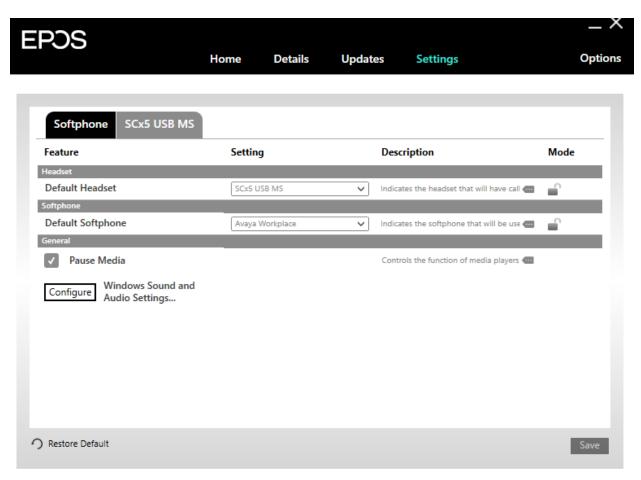
Plug the EPOS IMPACT 100 Series headset cable into the USB port of the PC. The device drivers will automatically be installed.

Open the EPOS Connect program installed on the PC. Select the **Home** tab and check that the headset is detected, as shown below for one of the IMPACT SC 75 USB MS headsets tested.



8.3. Configuring EPOS headset with EPOS Connect

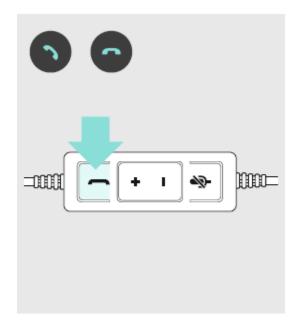
Open the Avaya Workplace Client and click the EPOS Connect program **Settings** tab followed by the **Softphone** sub tab as shown below. Verify the **Default Headset** is properly detected. Check that the **Default Softphone** is set as **Avaya Workplace**. Otherwise, click the drop-down menu of **Default Softphone** to select. Click **Save** at the bottom right to retain it.



9. Verification Steps

This section verifies that the EPOS solution has been successfully integrated with Avaya Workplace.

- 1. Open the EPOS Connect program to verify that the headset has been successfully connected to the PC for use with Avaya Workplace running. Observe that EPOS IMPACT 100 Series headset is detected as detailed in **Section 8.2**.
- 2. Make incoming and outgoing calls and verify that calls can be established with two-way audio. For incoming calls, answer the call by pressing the call control button on the headset (see inline controller as shown below).
- 3. End the call by pressing the same call control button on the headset.
- 4. Verify that remote control call functions, such as mute/un-mute, and adjusting the volume can also be performed by pressing the relevant keys on the headset. Similarly, verify that the same call control functions can also be performed using Avaya Workplace.



10. Conclusion

These Application Notes describe the configuration steps required to integrate EPOS Connect and EPOS IMPACT 100 Series USB-A Headsets with Avaya Workplace Client for Windows. All test cases were completed successfully with observations noted in **Section 2.2**.

11. Additional References

This section references the Avaya and EPOS 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 8.1.x, Issue 8, Nov 2020
- [2] Planning for and Administering Avaya Workplace Client for Android, iOS, Mac and Windows, May 31, 2021.
- [3] Using Avaya Workplace Client for Android, iOS, Mac, and Windows, May 31, 2021.
- [4] Administering Avaya Aura® Session Manager, Release 8.1.x, Issue 7, Oct 2020.

The following EPOS documentation can be found at http://www.eposaudio.com. [5] *EPOS IMPACT SC 30 SC60 USB ML Quick Guide*.

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Please e-mail any questions or comments pertaining to these Application Notes along with the full title name and filename, located in the lower right corner, directly to the Avaya DevConnect Program at devconnect@avaya.com.



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Declaration of Compliance

We, EPOS Group A/S, declare under sole responsibility that within EPOS IMPACT 100 series there are more variants that have similar features, differences affecting only the wearing style.

These differences have no other impact on firmware (FW) functionality. The schematics of RF board is 100% the same. The firmware version is also the same. The attached headsets which define the acoustics are 100% the same.

Product sales name	IMPACT SC 45 USB MS	
	Single-sided USB-A headset with in-line call control	
	IMPACT SC 75 USB MS	
	Double-sided USB-A headset with in-line call control	
	IMPACT SC 30	
	Single-sided USB-A headset with detachable USB cable and in-line call control	
	IMPACT SC 60	
	Double-sided USB-A headset with detachable USB cable and in-line call control	
Product similarities	Firmware version	
	RF PCBA Schematic	
	Acoustical design	
Differences	Wearing style: Single vs	Double sided headset
	Acoustical components: speaker, microphone	
	SC 45 / SC 75 - Black leatherette padding	SC 30 / SC 60 - Foam padding
	(headband and ear pad/s cover/s)	(headband and ear pad/s cover/s)
connection method to	USB-A direct	
Avaya Workplace		

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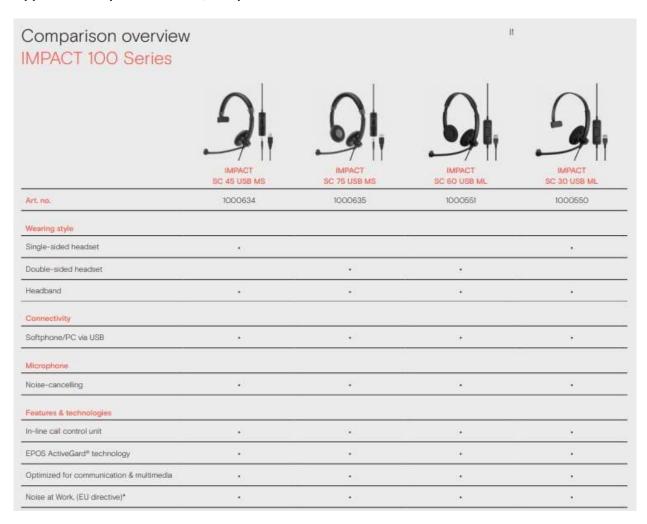


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Appendix 1. Impact 100 Series, comparison overview





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Appendix 2. Differences in acoustical components: speaker, microphone

	IMPACT SC 30 / SC 60	IMPACT SC 45 USB MS / SC 75 USB MS
Microphone frequency response	100 - 10,000 Hz	150 – 6,800 Hz (Wideband)
Speaker type	Neodymium magnet speaker	High-quality neodymium magnet speaker
Speaker frequency response	50 - 10,000 Hz	60 – 16,000 Hz (Wideband)
Sound pressure	SC 30 - Max 117 dB	Max 113 dB on USB interface
	SC 60 - Max 113 dB	Max 118 dB on 3.5 mm interface