



Intel® Smart Sound Technology Driver

Release Notes: Intel SST Panther Lake Release

November 2025

Revision 2.1

Intel Confidential



You may not use or facilitate the use of this document in connection with any infringement or other legal analysis concerning Intel products described herein. You agree to grant Intel a non-exclusive, royalty-free license to any patent claim thereafter drafted which includes subject matter disclosed herein.

No license (express or implied, by estoppel or otherwise) to any intellectual property rights is granted by this document.

All information provided here is subject to change without notice. Contact your Intel representative to obtain the latest Intel product specifications and roadmaps.

All product plans and roadmaps are subject to change without notice.

The products described may contain design defects or errors known as errata, which may cause the product to deviate from published specifications. Current characterized errata are available on request.

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at [intel.com](https://www.intel.com).

Intel disclaims all express and implied warranties, including without limitation, the implied warranties of merchantability, fitness for a particular purpose, and non-infringement, as well as any warranty arising from course of performance, course of dealing, or usage in trade.

Altering clock frequency, voltage, or memory interface speeds may void any product warranties and reduce stability, security, performance, and life of the processor and other components. Intel has not validated processor running memory above Plan-Of-Record (POR) speed. DRAM/DIMM devices should support desired speed, check with DRAM/DIMM vendors for details. System manufacturers are responsible for all validation and assume the risk of any stability, security, performance, or other functional issues resulting from such alterations.

© Intel Corporation. Intel, <Intel launch names, if mentioned in the slides below> the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries.

*Other names and brands may be claimed as the property of others.

Copyright© 2024-2025, Intel Corporation. All rights reserved.



Contents

Contents

Contents	3
1	Release Kit Summary 6
2	General Information 7
3	Additional Information 8
4	Features Added 11
5	Features Changed/Modified 12
6	Features Deprecated/Removed 13
7	Issues Fixed 14
8	Security Issues Fixed 27
9	Known Issues 28
10	Kit Details 29



Revision History

Revision Number	Description	Revision Date
0.1	Intel® SST Panther Lake Release 20.43.11365.2	September 2024
0.2	Intel® SST Panther Lake Release 20.43.11512.0	November 2024
0.3	Intel® SST Panther Lake Release 20.43.11643.0	December 2024
0.4	Intel® SST Panther Lake Release 20.43.11842.5 HF	March 2025
0.5	Intel® SST Panther Lake Release 20.43.11968.0	March 2025
0.6	Intel® SST Panther Lake Release 20.43.12051.0	April 2025
0.7	Intel® SST Panther Lake Release 20.43.12067.0	April 2025
0.8	Intel® SST Panther Lake Release 20.43.12110.0	May 2025
0.9	Intel® SST Panther Lake Release 20.43.12153.0	May 2025
1.0	Intel® SST Panther Lake Release 20.43.12187.0	June 2025
1.1	Intel® SST Panther Lake Release 20.43.12248.0	July 2025
1.2	Intel® SST Panther Lake Release 20.43.12279.0	July 2025
1.3	Intel® SST Panther Lake Release 20.43.12315.0	August 2025
1.4	Intel® SST Panther Lake Release 20.43.12331.0	August 2025
1.5	Intel® SST Panther Lake Release 20.43.12331.2 HF	August 2025
1.6	Intel® SST Panther Lake Release 20.43.12331.6 HF	September 2025
1.6.1	Intel® SST Panther Lake Release 20.43.12331.8 HF	September 2025
1.7	Intel® SST Panther Lake Release 20.43.12397.0	September 2025
1.8	Intel® SST Panther Lake Release 20.43.12422.0	October 2025
1.9	Intel® SST Panther Lake Release 20.43.12446.0	October 2025
2.0	Intel® SST Panther Lake Release 20.43.12446.1 HF	November 2025
2.1	Intel® SST Panther Lake Release 20.43.12513.0	November 2025



1 *Release Kit Summary*

1.1 Release Kit Details

Kit Release	<i>Intel® Smart Sound Technology Driver 20.43.12513.0</i>
Target Platform	<i>Panther Lake</i>
Contents	<i>Driver: 20.43.12513.0 Extension Inf: 200.43.7.0 FW: 20.00.2021.1 Wake On Voice: 3.1.173.0_209 Audio Service: 01.00.4105.00</i>

2 *General Information*

2.1 **Important Notes**

This document provides release information about the Intel® Smart Sound Technology (Intel® SST) Driver.

2.2 **Intended Audience**

This document is intended for OEMs and ODMs that are enabling and validating the Intel® Smart Sound Technology Driver on Panther Lake (PTL) platforms with Intel® Audio DSP integrated.

2.3 **Supported OS**

OS Version	OS POR Platforms
Windows 11 24H2	Panther Lake
Windows 11 25H2	Panther Lake

3 *Additional Information*

3.1 Intel® Smart Sound Technology Collaterals

Please refer to following Intel® SST collaterals for Intel® SST bring-up, validation and debug guidance.

Doc Number & Location	Doc Number & Location
Intel® Smart Sound Technology Driver - Bring-Up Guide	Included in every SST release package Intel CDI Doc #613171
Intel® Smart Sound Technology Customer - Validation and Debug Guide	Intel CDI Doc #613651

3.2 Focused Testing Area

Please refer to the Intel® Smart Sound Technology Validation and Debug Guide on Intel® CDI (Document # 613651) for the test cases to test the following Intel® SST features.

For Desktop Processors:

- HD-Audio Playback
- HD-Audio Capture
- Digital Microphone Capture

For Mobile Processors:

- HD-Audio Playback
- HD-Audio Capture
- Digital Microphone Capture
- Intel® Wake on Voice - Contact Intel FAE or Intel® SST AE for more details.
- Post-processing - Contact Intel FAE or Intel® SST AE for more details.
- Pre-processing - Contact Intel FAE or Intel® SST AE for more details.

3.3 Acronyms and Terminology

Term	Description
ACPI	Advanced Configuration and Power Interface
BIOS	Basis Input/output System
BT	Bluetooth
DMIC	Digital Microphone
DSP	Digital Signal Processor
FW	Firmware
HDA or HD-Audio	High Definition Audio
IADK	Intel Audio DSP Firmware Development Kit (old name: FDK)
IHV	Independent Hardware Vendor
ISV	Independent Software Vendor
Intel® SST	Intel® Smart Sound Technology
LP	Low power
MCPS	Million Clocks Per Second
MCS	Modern Connected Standby Platform
MR	Maintenance Release
Non-MCS	Non-Modern Connected Standby Platform
OED	Offload Engine Driver
OS	Operating System
PC	Production Candidate
PCH	Platforms Controller Hub
PR	Planned Release
PTL	Panther Laker
PV	Production Version
RVP	Reference Validation Platform
SDW	SoundWire



TBD	To be determined
WoV	Wake on Voice

3.4 Intel® SST/IADK Mapping/Driver Isolation Table

Here are the version combinations of IADK and Intel® SST which are validated by IADK team.

SST Codebase	IADK Version	Validated with/from Intel® SST Version	Remarks	IADK Target	Need Driver Isolation
PTL	IADK 3.1.2893.0	20.43.11512. 0		Panther Lake	Yes
PTL	IADK 3.1.3118.0	20.43.12051. 0		Panther Lake	Yes
PTL	IADK 3.1.3388.0	20.43.12446. 0		Panther Lake	Yes

4 *Features Added*

ID #	Description	As of version

intel[®]

5 *Features*

Changed/Modified

ID #	Description	As of version
13013041615	Title: ACX Pin order backward compatibility Background: In order to meet requirements for the customer migrating the streaming driver to the Intel streaming driver Details: It is required to maintain backward compatibility, especially pin number is used in ppmodules configuration, pin id order is being returned to original configuration	20.43.12110.0

6 *Features Deprecated/Removed*

ID #	Description	As of version

intel[®]

7 Issues Fixed

ID #	Description	As of version
14025949176	Title: 3rd module GUID is not enabled in BIOS, but OED driver will still load 3rd module ULS module Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: 3rd module GUID is not enabled in BIOS, but OED driver will still load 3rd module ULS module Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.12513.0
14026141186	Title: No sound output after installing ISST v12134 & v12350 Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: No sound output after installing ISST v12134 & v12350 Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14026146704	Title: BSOD 0x50 (IntcOED!COEIoctlSender::SendIOCTL) occurred after download/install/Use 3rd voice assistant Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD 0x50 (IntcOED!COEIoctlSender::SendIOCTL) occurred after download/install/Use 3rd voice assistant Reproducibility: frequently_50%-90% Affected OS Information: Microsoft Windows* 11-64 (25H2) Affected Platform: Panther Lake Platforms	
14026154627	Title: No sound output from Speaker (SmartAmp) after using ISST driver v12422+ Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: No sound output from Speaker (SmartAmp) after using ISST driver v12422+ Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
16028904696	Title: Unable to achieve PC-10/S0i2.1 (stuck in PC2) during Modern-Standby, when Audio-Playback and Voice-Activation is active, when a few sequences are done in S0 Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Unable to achieve PC-10/S0i2.1 (stuck in PC2) during Modern-Standby, when Audio-Playback and Voice-Activation is active, when a few sequences are done in S0	20.43.12446.1

	Reproducibility: frequently_50%-90% Affected OS Information: Microsoft Windows* 11-64 (25H2) Affected Platform: Panther Lake Platforms	
15018138187	Title: BSOD pointing to IntcAudioBus.sys/OED.sys with USB Headset & USB Game handle connected Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD pointing to IntcAudioBus.sys/OED.sys with USB Headset & USB Game handle connected Reproducibility: very_sporadic_<10% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.12446.0
22021598333	Title: The DUT cannot play audio when the input of SteelSeries Siberia v3 Headset is set to PC mode Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: The DUT cannot play audio when the input of SteelSeries Siberia v3 Headset is set to PC mode Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (25H2) Affected Platform: Panther Lake Platforms	
14026040054	Title: E310 BT headset show YB in Device Manager and can't remove it and USB ports lost function and then occur 0x9f BSOD when restart unit. Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: E310 BT headset show YB in Device Manager and can't remove it and USB ports lost function and then occur 0x9f BSOD when restart unit. Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
15018471208	Title: Improve solution for audio rendering issue(Teams) is observed with ZenHybrid Pro Headset BT LE headset Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Improve solution for audio rendering issue(Teams) is observed with ZenHybrid Pro Headset BT LE headset Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (25H2) Affected Platform: Panther Lake Platforms	
14025869260	Title: Incorrect Channel on PTL SDCA Platform after installing IntcOED_HybridDspResourceTable.inf to force stereo Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Incorrect Channel on PTL SDCA Platform after installing IntcOED_HybridDspResourceTable.inf to force stereo Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (25H2)	20.43.12422.0

	Affected Platform: Panther Lake Platforms	
22021575120	Title: PAGE_FAULT_IN_NONPAGED_AREA (50) and INVALID_KERNEL_HANDLE (93) observed while running HLK tests (System - PNP (disable and enable) with IO Before and After Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: PAGE_FAULT_IN_NONPAGED_AREA (50) and INVALID_KERNEL_HANDLE (93) observed while running HLK tests (System - PNP (disable and enable) with IO Before and After Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (25H2) Affected Platform: Panther Lake Platforms	
14025931228	Title: BSOD 7E found in MFG pointing to SdwBus Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD 7E found in MFG pointing to SdwBus Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025883722	Title: BSOD 0x10D point to IntcSSDW.sys Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD 0x10D point to IntcSSDW.sys Reproducibility: very_sporadic_<10% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
15018333141	Title: Negative latency observed from 3 rd ULS module Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Negative latency observed from 3 rd ULS module Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (25H2) Affected Platform: Panther Lake Platforms	
14025918495	Title: The 3 rd party Ultrasound module not detected despite PDO being present Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: The 3 rd party Ultrasound module not detected despite PDO being present Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.12397.0
22021541498	Title: Audio rendering issue(Teams) is observed with ZenHybrid Pro Headset BT LE headset Affected Component: platform.Common.sw.win-driver.Audio DSP	

	Symptoms: Audio rendering issue(Teams) is observed with ZenHybrid Pro Headset BT LE headset Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (25H2) Affected Platform: Panther Lake Platforms	
22021506398	Title: "AV_IntcOED!unknown_function" (KMODE EXCEPTION NOT HANDLED (1e)) intcOED.sys produced when streaming audio from external drive through 2.5 Aux headset + increase volume Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: "AV_IntcOED!unknown_function" (KMODE EXCEPTION NOT HANDLED (1e)) intcOED.sys produced when streaming audio from external drive through 2.5 Aux headset + increase volume Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025860113	Title: The units occur 0x50 BSOD when remove BT headset Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: The units occur 0x50 BSOD when remove BT headset Reproducibility: very_sporadic_<10% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
15018325016	Title: First time insert the 3.5mm headphones while playing music, error message "Your audio device cannot be found" will appear Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: First time insert the 3.5mm headphones while playing music, error message "Your audio device cannot be found" will appear Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025841488	Title: System audio lost and ISST show YB in Device Manager when change "Playback" and "Recording" in Sound control page with BT headset connected and local audio playback Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: System audio lost and ISST show YB in Device Manager when change "Playback" and "Recording" in Sound control page with BT headset connected and local audio playback Reproducibility: very_sporadic_<10% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14024469595	Title: SPTT HWKWS FF Echo Test SA Fail due to glitch in DMIC recording Affected Component: platform.Common.sw.win-driver.Audio DSP	

	Symptoms: SPTT HWKWS FF Echo Test SA Fail due to glitch in DMIC recording Reproducibility: frequently_50%-90% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025854904	Title: Key-phrase detection stops working after a few S4 cycles or when doing back to back detection in S0 Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Key-phrase detection stops working after a few S4 cycles or when doing back to back detection in S0 Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.12331.8
16028290784	Title: Key-phrase detection isn't working with 4-Ch SNDW-ACX DMIC in MVA-Test-App Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Key-phrase detection isn't working with 4-Ch SNDW-ACX DMIC in MVA-Test-App Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.12331.6
14025697791	Title: Observing Bugcheck-C4 (DRIVER_VERIFIER_DETECTED_VIOLATION), pointing to IntcUSB.sys while hot-plugging 3rd USB-Audio device, with Recording tab open Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Observing Bugcheck-C4 (DRIVER_VERIFIER_DETECTED_VIOLATION), pointing to IntcUSB.sys while hot-plugging 3rd USB-Audio device, with Recording tab open Reproducibility: frequently_50%-90% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
15018165842	Title: BT gets stuck active in all KPI's Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BT gets stuck active in all KPI's Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.12331.2
22021459471	Title: Observing Bugcheck-D1 pointing to IntcBtAu.sys when removing the BT-Classic device, with DV-enabled Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Observing Bugcheck-D1 pointing to IntcBtAu.sys when removing the BT-Classic device, with DV-enabled	20.43.12331.0

	Reproducibility: frequently_50%-90% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
22021135985	Title: Observing Bugcheck-9F pointing to IntcUSB.sys/PortCls.sys while running concurrency WLS Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Observing Bugcheck-9F pointing to IntcUSB.sys/PortCls.sys while running concurrency WLS Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025573275	Title: Sporadically observing "Speaker not working error" during Teams-audio call when switching to BT-LE endpoint in the App Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Sporadically observing "Speaker not working error" during Teams-audio call when switching to BT-LE endpoint in the App Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025558425	Title: 0x9f BSOD occurred during 3D mark-Fire Strike running Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: 0x9f BSOD occurred during 3D mark-Fire Strike running Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025565551	Title: Crashed OED when plug/unplug 3.5mm Earphone with Playing/Recording Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Crashed OED when plug/unplug 3.5mm Earphone with Playing/Recording Reproducibility: frequently_50%-90% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025392149	Title: BT LE show YB in Device Manager when ETD Thunderbolt4 Gatkex Creek + ETD PCIe Card + USB 3.2 Gen2 HUB with ETD 3.0 DEs connected to the UUT TBT ports. Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BT LE show YB in Device Manager when ETD Thunderbolt4 Gatkex Creek + ETD PCIe Card + USB 3.2 Gen2 HUB with ETD 3.0 DEs connected to the UUT TBT ports. Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2)	20.43.12315.0

	Affected Platform: Panther Lake Platforms	
14025115445	Title: Sound is unmute and mute led is off when mute sound via F6 then resume unit from S4 with video playing and BT headphone Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Sound is unmute and mute led is off when mute sound via F6 then resume unit from S4 with video playing and BT headphone Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025332559	Title: Sporadically observing FW-crash/OED-YB on USB-Headset connected or doing a restart with USB-Headset connected and Voice-Activation enabled Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Sporadically observing FW-crash/OED-YB on USB-Headset connected or doing a restart with USB-Headset connected and Voice-Activation enabled Reproducibility: frequently_50%-90% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.12279.0
14025352153	Title: System HLK WAVE test failure - OED crashes Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: System HLK WAVE test failure - OED crashes Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025172615	Title: There is "zizi" noise when recording by onboard MIC device on DC mode Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: There is "zizi" noise when recording by onboard MIC device on DC mode Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.12248.0
22021163569	Title: Audio glitches or goes mute during streaming music on Youtube with BT LE earbuds Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Audio glitches or goes mute during streaming music on Youtube with BT LE earbuds Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	

14025115404	Title: Video image shows serious lag when switching recording UI to playback UI in MS sound control panel with BT LE headphone connected Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Video image shows serious lag when switching recording UI to playback UI in MS sound control panel with BT LE headphone connected Reproducibility: frequently_50%-90% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.12187.0
14024934728	Title: BSOD 0xa occurred pointing to OED during factory process Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD 0xa occurred pointing to OED during factory process Reproducibility: very_sporadic_<10% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025058745	Title: There is no sound output after powered on unit then plugged 3.5 mm headset into unit Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: There is no sound output after powered on unit then plugged 3.5 mm headset into unit (Audio Lost/OED YB) Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025058664	Title: Audio icon shows X in systray for 15s when switch from recording to playback in Sound Control Panel with BT LE HS connected and video playing Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Audio icon shows X in systray for 15s when switch from recording to playback in Sound Control Panel with BT LE HS connected and video playing Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025113206	Title: "0x1e" BSOD occurs during pairing BT LE headphone (Intel BE201) Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: "0x1e" BSOD occurs during pairing BT LE headphone (Intel BE201) Reproducibility: very_sporadic_<10% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025113221	Title: "0x50" BSOD occurs during teams 1x1 video call with BT LE headphone connected Affected Component: platform.Common.sw.win-driver.Audio DSP	

	Symptoms: "0x50" BSOD occurs during teams 1x1 video call with BT LE headphone connected Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025113238	Title: "0x139" BSOD occurs when restart unit with BT headphone connected Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: "0x139" BSOD occurs when restart unit with BT headphone connected Reproducibility: very_sporadic_<10% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025113337	Title: BSOD "0x1e" occurs when resume unit from S4 then reconnect BT LE headphone. Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD "0x1e" occurs when resume unit from S4 then reconnect BT LE headphone. Reproducibility: very_sporadic_<10% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14024976356	Title: BSOD 0x1e occurs when removing BT LE headphone with BT LE headphone and BT mouse connected Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD 0x1e occurs when removing BT LE headphone with BT LE headphone and BT mouse connected Reproducibility: very_sporadic_<10% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14025115445	Title: Sound is unmute and mute led is off when mute sound via F6 then resume unit from S4 with video playing and BT headphone Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Sound is unmute and mute led is off when mute sound via F6 then resume unit from S4 with video playing and BT headphone Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14024888322	Title: BSOD 0xD1 pointing to IntcSdwBus.sys during BurnIn stress Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD 0xD1 pointing to IntcSdwBus.sys during BurnIn stress Reproducibility: very_sporadic_<10% Affected OS Information: Microsoft Windows* 11-64 (24H2)	20.43.12153.0

	Affected Platform: Panther Lake Platforms	
15017588968	Title: Improve the solution for ultrasound function lost with SST V11880.0 Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Ultrasound function lost with SST V11880.0 Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14024870850	Title: OED FW crash makes Audio Device being added removed occurred during restart stress testing Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: OED FW crash makes Audio Device being added removed occurred during restart stress testing Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14024881017	Title: Internal speaker will get noise after plug and unplug USB dongle Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Internal speaker will get noise after plug and unplug USB dongle Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14024888065	Title: ISST OED YB when device resumes from ModernStandby/S4 Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: ISST OED YB when device resumes from ModernStandby/S4 Reproducibility: very_sporadic_<10% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.12110.0
14023047124	Title: Video with Noise when switch playback/recording from sound UI after pairing BT LE headset Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Video with Noise when switch playback/recording from sound UI after pairing BT LE headset Reproducibility: frequently_50%-90% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14022441416	Title: Cannot play some mp4 after connect Enco W51 BT headset Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Cannot play some mp4 after connect Enco W51 BT headset Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.12067.0

1402444344	Title: Invalid clock signal when AudioPLL is used as soundwire clock input Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Invalid clock signal when AudioPLL is used as soundwire clock input Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14024575034	Title: BSOD 0x1e & 0x50 occurs when remove BT LE headphone with BT LE headphone and BT mouse connected Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD 0x1e & 0x50 occurs when remove BT LE headphone with BT LE headphone and BT mouse connected Reproducibility: very_sporadic_<10% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14024634164	Title: F9 Mic mute key lost function after launch 3rd PA APP and check "Let apps access your microphone" Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: F9 Mic mute key lost function after launch 3rd PA APP and check "Let apps access your microphone" Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14024605931	Title: BSOD 7E pointing to Intcbtau.sys after updating SST driver version Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD 7E pointing to Intcbtau.sys after updating SST driver version Reproducibility: frequently_50%-90% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.12051.0
14024277190	Title: BSOD_IRQL_NOT_LESS_OR_EQUAL(0x0a) during Burn In Stress test Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD_IRQL_NOT_LESS_OR_EQUAL(0x0a) during Burn In Stress test Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14024277165	Title: BSOD DPC_WATCHDOG_VIOLATION(0x133) during Burn In Stress test Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD DPC_WATCHDOG_VIOLATION(0x133) during Burn In Stress test	

	Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14021722602	Title: The sound output "PoPo" noise during playing music after launch 3 rd PA APP Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: The sound output "PoPo" noise during playing music after launch 3 rd PA APP Reproducibility: frequently_50%-90% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
18041508519	Title: BSOD 0x50 when run DF - Sleep and PnP with IO Before and After Test Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: BSOD 0x50 when run DF - Sleep and PnP with IO Before and After Test Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14024510638	Title: Sound output abnormal issue with the sample rate 48000Hz 16Bit Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Sound output abnormal issue with the sample rate 48000Hz 16Bit Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.11968.0
15017247042	Title: NLD Extension driver - "IntcDMic_EnableNoiseLevelDetector" WU Reject Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: NLD Extension driver - "IntcDMic_EnableNoiseLevelDetector" WU Reject Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14023818604	Title: Cannot wake up the unit from S0 by customer voice assistant Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Cannot wake up the unit from S0 by customer voice assistant Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	20.43.11842.5
16025886871	Title: IADK debug agent giving error and not loading with 2 ULS modules + 1 EFX module + 1 SmartAMP module	

	Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: IADK debug agent giving error and not loading with 2 ULS modules + 1 EFX module + 1 SmartAMP module Reproducibility: always_100% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14023922151	Title: Auto Stress test with Hibernate, Audio driver lost with ISST OED error in system event Affected Component: platform.Common.sw.win-driver.Audio DSP Symptoms: Auto Stress test with Hibernate, Audio driver lost with ISST OED error in system event Reproducibility: sporadic_10%-40% Affected OS Information: Microsoft Windows* 11-64 (24H2) Affected Platform: Panther Lake Platforms	
14023450614	BSOD 0x1A when user changes playback endpoint type between headphone and headset	20.43.11643.0
14023326328	Pop Noise issue in Headphones and Speakers during Pause/Play	
14023337328	[SDW]SoundWire ACX Streaming for SDW Devices lost after WB Stress Test	
14023480171	it shows 3rd SDCA Multifunction Device with YB in Device Manager during S4 cycling	
15016762885	speaker lost and OED Yellow bang after resume from MS with BT headset and external monitor connected	
14023607546	[SDW]BSOD 0x7E after installing SST driver	20.43.11512.0
22020417697	Observed BSOD DRIVER_IRQL_NOT_LESS_OR_EQUAL (d1) during PA Long Hour Test on Speaker PC	
18040165197	Unable to use the Mic via BT-LE device with new BT-LE streaming driver	

8 *Security Issues Fixed*

ID #	Description	As of version

intel[®]

9 *Known Issues*

ID #	Description	As of version

10 *Kit Details*

Additional Notes	As of version