

USB 2.0 Module Driver Release Notes

This document describes the technical changes made in USB 2.0 Module driver v.1.0.3.0. for the legacy USB 2.0 Module.

Overview

This USB 2.0 Module driver update addresses the following issue:

- USB 2.0 Module driver cannot be installed and used on systems running Win 11 with Memory Integrity / Core Isolation enabled.
- USB 2.0 Module driver could cause a system crash (blue screen) when the module was stopped, removed or unplugged, or when the computer entered standby or hibernation.

Change Description

To address the incompatibility issue with Win 11 Core Isolation, the USB driver was rebuilt using the current version of Microsoft Windows Driver Kit. Deprecated functions were replaced by their designated counterparts. Two accesses to the USB interface information while the driver stops its pipes are now guarded against a null pointer; without that guard those accesses could trigger a Windows bug check. The new driver has been signed using SHA-256 by CN=Microsoft Windows Hardware Compatibility Publisher through the Windows Hardware Compatibility Program, and the signature is time-stamped.

Impact

The new driver files differ in Windows Driver Kit function calls, the two added null pointer checks and updated signatures. The driver's core functions otherwise remain unchanged and provide the same functionality as before. No features of IOSS 3.2 have been modified or are affected by these changes.

Requirements

The following operating systems are supported:

- Windows 11 Pro 64-bit
- Windows 11 Enterprise 64-bit

Deliverables

Single executable containing the updated driver, and installation instructions.