



Honeywell Scanning & Mobility USB Serial Driver Release Notes

Version 2.1.6.17

Summary

The Honeywell Scanning & Mobility (HSM) USB Serial Driver is a CDC ACM driver that exposes HSM USB scanners as as a virtual COM port to the operating system and applications. This document covers the following topics relating to the HSM USB Serial Driver:

- Enhancements and bug fixes
- Known Issues

Supported Devices

The following devices are supported with this driver:

- Xenon 1900, Xenon 1902

Supported Operating Systems

The following operating systems are supported and Windows Hardware Quality Labs (WHQL) certified with this driver:

- Windows 7 – 32bit and 64 bit
- Windows XP – 32bit and 64 bit

The following operating systems are supported but not WHQL certified with this driver:

- Windows Vista – 32bit and 64 bit
- Windows 2000
- Windows Embedded Point of Service (WEPOS)

Enhancements and Bug Fixes

This section describes enhancements and bug fixes that were added to the driver.

Version 2.1.6.17

| Description |
|---|
| Fixed legacy Metrologic device recovering from ESD event. |

Version 2.1.6.16

| Description |
|---|
| Fixed suspend condition due to ESD event and added logging. |

Version 2.1.6.13

| Description |
|--|
| Modify encapsulated command ioctl codes to be consistent and sequential. |
| Fix version strings in Force COM coininstaller. |
| Fix BSODs encountered during WHQL testing. |



Version 2.1.6.10

| Description |
|---|
| WINNT, ACM driver, Enh - Modify the driver to always poll the in pipes, even though there isn't an open handle from an application. |
| WINNT, ACM driver, Enh - Keep modem status as long as device is connected. |
| WINNT, DC Enum driver, Fix synchronization problems that relate to interrupt pipe handling. |
| WINNT, ACM driver, Fix - Handle a case where SERIALCOMM key does not exist in the registry. |
| Driver failing to install on machines that do not have a registry entry for SERIALCOMM. |
| Honeywell device enters a "reset loop" when CtrlDevHoldChildIfInUse=0 (internal bug B86984). |
| Issue with special f/w for legacy Hand Held Products device that always keeps CTS high (internal bug B90397). |

Known Issues

- When Force COM port feature is enabled, the friendly name found in device manager->ports does not have the (COM#) suffix immediately after installation. However, it does get added on next driver start.
- Blue screen may occur on some devices using Windows XP SP2 when coming out of suspend mode. This can be fixed by Windows XP SP3 or Windows Hot Fix 949483.

<http://support.microsoft.com/hotfix/KBHotfix.aspx?kbnum=949483&kbIn=en-us>

- First barcode scanned on a Windows 2000 machine does not get transmitted. Found to be a Windows 2000 USB stack. Since Windows 2000 as at "end of life" not expecting Microsoft to fix this bug. So will provide work around in future release.
- Known differences between legacy Hand Held Products COM Em driver (hhpcdc.sys) and Honeywell Scanning & Mobility (HSM) USB Serial Driver:
 - The Registry name under [HKLM \HARDWARE\DEVICEMAP\SERIALCOMM]\Device\ is different from the legacy driver. The old name is "HhpcdcVirtualPortx." The new name is "honeywell_cdc_AcmSerialx."
 - Applications will NOT receive a WM_DEVICECHANGE notification. The driver emulates a serial COM port, which exists in the system even when the USB device has been detached. However, there is an open handle to this device. This is the difference between the legacy Hand Held Products driver and the new driver. The WM_DEVICECHANGE notification is received from the DeviceManager when a device is created/removed. Because the device is not removed the WM_DEVICECHANGE message is not generated.