Honeywell

Honeywell Scanning & Mobility USB Serial Driver Release Notes

HSM USB Serial Driver Release 1.5.2 contains:
- Driver Version 2.1.6.17
- Driver packages:
  - -004 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – MS3780 Fusion, MS2420 Stratos, MS2421 Stratos, MS2422 Stratos, MS2430 Stratos, MS2431 Stratos, MS2320 StratosH, MS2321 StratosH, MS2322 StratosH, MS2122 StratosE, MS4980 Vuquest, MS4984 Vuquest, MS7580 Genesis, MS9520 Voyager, MS9521 Voyager, MS9540 VoyagerCG, MS9541 VoyagerCG, MS9535 VoyagerBT, MS9590 VoyagerGS, MS9590i VoyagerGS, MS9591i VoyagerGS
  - -008 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – MS4980 Vuquest, MS7580 Genesis (NOTE: supports PID 0731 only, which requires custom firmware for both devices)
  - -009 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – 5110 Area Imager
  - -006 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – 3800i, 4800dr, QC890, 4206
  - -007 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – 5180 Area Imager
  - -005 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – Honeywell Access Point, 4600r, 4800i, 2020 Cordless Base
  - -003 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – 4600g, 4800p, 3800g
  - -002 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – Xenon 1900, Xenon 1902

Disclaimer for HSM USB Serial Driver r1.5.2

At this time support is generally limited to barcode data for the Stratos product family. Features that need incremental embedded firmware to support for virtual communication port features like Single Cable Scanner-Scale protocols (NCR,etc…), ACK-NAK handshaking, Not On File Messages, and others will need to be added via the standard EWR process. Note that embedded firmware and hardware upgrades may also be required. Please consult your Honeywell Scanning & Mobility representative for further guidance.

Revision History

HSM USB Serial Driver Release 1.5.1 – 10/22/2010 contains:
- Driver Version 2.1.6.17
- Driver packages:
  - -004 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – MS7580 Genesis, MS9520 Voyager, MS9521 Voyager, MS9540 VoyagerCG, MS9541 VoyagerCG, MS9535 VoyagerBT, MS9590 VoyagerGS, MS9590i VoyagerGS, MS9591i VoyagerGS
  - -008 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – MS4980 Vuquest, MS7580 Genesis (NOTE: supports PID 0731 only, which requires custom firmware for both devices)
  - -009 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – 5110 Area Imager

- -006 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – 3800i, 4800dr, QC890, 4206
- -007 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – 5180 Area Imager
- -005 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – Honeywell Access Point, 4600r, 4800i, 2020 Cordless Base
- -003 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – 4600g, 4800p, 3800g
- -002 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – Xenon 1900, Xenon 1902

HSM USB Serial Driver Release 1.4 – 10/1/2010 contains:
- Driver Version 2.1.6.17
- Driver packages:
    - -008 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – MS4980 Vuquest, MS7580 Genesis (NOTE: supports PID 0731 only, which requires custom firmware for both devices)
    - -009 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – 5110 Area Imager
    - -006 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – 3800i, 4800dr, QC890, 4206
    - -007 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – 5180 Area Imager
    - -005 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – Honeywell Access Point, 4600r, 4800i, 2020 Cordless Base
    - -003 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – 4600g, 4800p, 3800g
    - -002 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – Xenon 1900, Xenon 1902

HSM USB Serial Driver Release 1.3 – 08/20/2010 contains:
- Driver packages:
    - -009 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – 5110 Area Imager
    - -006 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – 3800i, 4800dr, QC890, 4206
    - -007 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – 5180 Area Imager
    - -005 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – Honeywell Access Point, 4600r, 4800i, 2020 Cordless Base
    - -003 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – 4600g, 4800p, 3800g
    - -002 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – Xenon 1900, Xenon 1902

HSM USB Serial Driver Release 1.2 – 8/4/2010 contains:
- Driver Version 2.1.6.17
- Driver packages:
    - -007 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – 5180 Area Imager

- -005 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – Honeywell Access Point, 4600r, 4800i, 2020 Cordless Base
- -003 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – 4600g, 4800p, 3800g
- -002 (Windows Hardware Quality Labs (WHQL) Certified
    - Supporting devices – Xenon 1900, Xenon 1902

HSM USB Serial Driver Release 1.1 – 7/15/2010 contains:
- Driver Version 2.1.6.17
- Driver packages:
    - -003 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – 4600g, 4800p, 3800g
    - -002 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – Xenon 1900, Xenon 1902

HSM USB Serial Driver Release 1.0 – 6/8/2010 contains:
- Driver Version 2.1.6.17
- Driver packages:
    - -002 (Windows Hardware Quality Labs (WHQL) Certified
        - Supporting devices – Xenon 1900, Xenon 1902

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:

- Supported Operating Systems
- Enhancements and Bug Fixes
- Known Issues

Supported Operating Systems

The following operating systems are supported and WHQL certified with this driver:
- Windows 7 – 32 bit and 64 bit
- Windows XP – 32 bit and 64 bit

The following operating systems are supported but not WHQL certified with this driver:
- Windows Vista – 32 bit and 64 bit

The following operating systems are supported (there is no WHQL certification for these operating systems):
- Windows 2000
- Windows Embedded Point of Service (WEPOS)

Enhancements and Bug Fixes

The following enhancements and bug fixes 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
Modified encapsulated command ioctl codes to be consistent and sequential.
Fixed version strings in Force COM coinstaller.
Fixed BSODs encountered during WHQL testing.

Version 2.1.6.10

Description
WINNT, ACM driver, Enh - Modified the driver to always poll the in pipes, even when there is no open handle from an application. This fixed issue with Honeywell devices entering a "reset loop" when CtrlDevHoldChildIfInUse=0.
WINNT, ACM driver, Enh - Keep modem status as long as device is connected. This fixed issue with special f/w for legacy Hand Held Products device that always keeps CTS high.
WINNT, DC Enum driver - Fixed synchronization problems that relate to interrupt pipe handling.
WINNT, ACM driver, - Fixed case where SERIALCOMM registry key does not exist in the registry causing failure of driver to install.

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&kbln=en-us

- First bar code scanned on a Windows 2000 machine does not get transmitted. Found to be a Windows 2000 USB stack. Since Windows 2000 is at "end of life", not expecting Microsoft to fix this bug. 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:

  o 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."

  o 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.