Software Release Supplemental Document for Stone Peak/Wilkins Peak/Legacy Devices

WW05, 2015

CCG Wireless Marketing

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Chip Stepping Verification methods

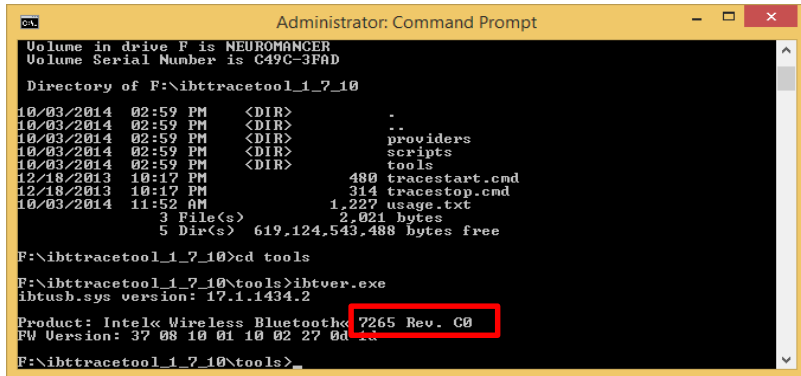SW releases since 17.13 include support for indicating the chip stepping

Two methods are available to determine the chip stepping.

1). A command line tool called ibtver is supplied with the trace tool. An example can be found below. The link to the trace tool can be found near the end of this document.

2). A hexadecimal version string is available in the UI. Please see the explanation below.

Method 1 - Chip Stepping info via Ibtver

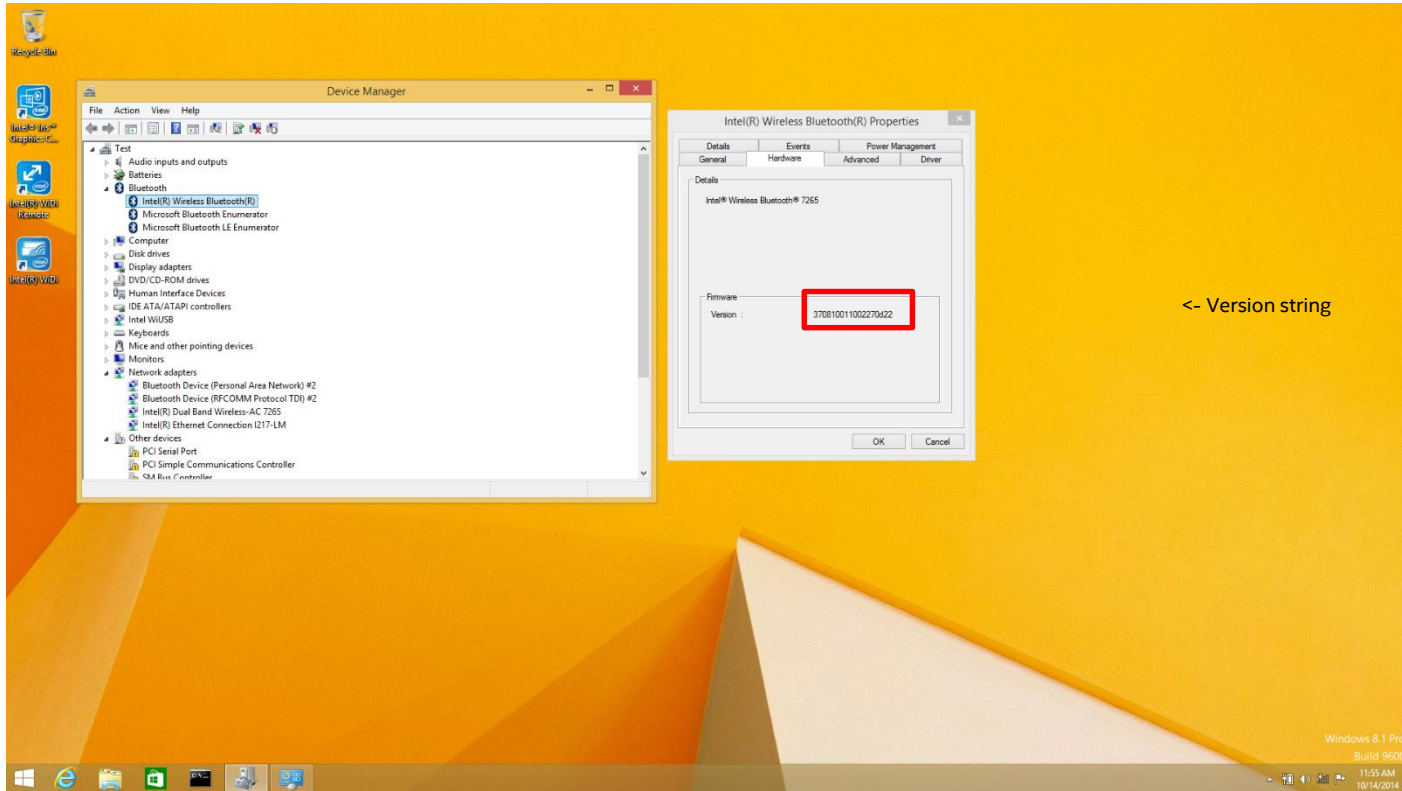Ibtver produces actual stepping and version string.

Invoke ibtver from the trace tool to get the chip stepping

Method 2 - Chip Stepping info via UI

<- Version string

Translation Table for UI Version String (method 2)

ibtver Output	Module & Stepping
37 07 10 01 80 02 03 0d XX	7260 B3
37 07 10 01 00 02 03 0d XX	3160 B4
37 07 10 01 80 01 2d 0d XX	7260 B5
37 07 10 01 00 01 2d 0d XX	3160 B6
37 08 10 01 10 02 27 0d XX	7265 C0
37 08 10 01 10 03 11 0e XX	7265 D0

W – Wilkins Peak

S – StonePeak

XX - Patch version, ignored

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Note 1. Explanation about LPM-L1

An intermittent problem was discovered during a file transfer test on Win7. When the problem occurs the file transfer can fail.

After further examination Intel has decided that enabling LPM-L1 introduced unwarranted risk and so LPM-L1 support will not be indicated from the device across all OS's until further notice.

StP BT Certification Info

OS	Declaration ID Controller
Win 7	D021279
Win 8.X	D021279

Explanation about BT SW Versions

On Stone Peak Motorola BT Stack Profiles can be used with Win7. Intel provides driver SW which Motorola packages up with it's SW.

This is why there are 3 versions displayed in Device Manager and Programs and Features. The Intel, Motorola driver and Motorola package versions are displayed.

Program's and Features shows the Intel Driver and the Motorola SW Package version on the same line.

Device Manager shows the Motorola Driver contained within the Motorola SW Package. Sometimes the Motorola SW Package version number and the Motorola match. When they do not match it means the Motorola Driver did not change but the Intel SW did and the so the Motorola Package Version incremented.

Version Numbers in DM and Program's and Features (example)

Windows Update for 8.1

KB2896349

KB2917488

2927446

2928042

2919907

2926971

Intel strongly recommends customers perform a WU in order to get these
important KBs from MS. These are BT related fixes.

BIOS Update

- Intel recommends that OEMs update their platform BIOS to the latest version. Some issues that were reported as BT issues resulted in a change in the BIOS

- Relevant fix:

  LYNX_POINT_LP [HSD #2164696][XHCI: Resume EOP from host seen after a large delay]

  KIT#: 100999

  Intel® 8 Series / C220 Series Chipset Family and Lynx   Point- LP PCH Chipset Framework Reference Code Production   Version 1.8.0

Microsoft Errata(For Your Information)

Errata 3102:

Title:

Windows 8.1 systems that have WiFi but doesn't have Bluetooth.

After setup the environment for test on HCK, we found that Bluetooth related items are appearing.

Details:

Delayed Enforcement of Bluetooth in Systems (Except for Tablet or Convertible Product Type)

Expires:

1/1/2015

Requirement: System.Client.BluetoothController.Base.BluetoothRequiredIfWiFiPresent

Supported OS:

Windows 8 x86/x64; Windows 8.1 RT; Windows 8.1 x86/x64; Windows RT

Microsoft Errata – cont.

Errata 3355:

Title:

BT System WHCK - Enable BT Radio fails on executing 'System - Radio On-Off Logo Tests (Windows v6.3)'

Details:

Test Failures in Bluetooth LE Logo Tests and Radio On Off tests when testing on the Intel/Broadcom Platform

Seeing an issue where BT radio is not getting enabled while executing 'System - Radio On-Off Logo Tests (Windows v6.3)' test. This happens with Win8.1 BT Inbox driver also.

This applies to both the System and Device HCK programs. OEMs using the Broadcom UART based radios may run into test failures in either Bluetooth LE or Radio On Off Bluetooth logo tests.

Expires:

12/31/2014

For any questions/help in applying this errata, please contact the Microsoft feature team.

Microsoft KB

Issue:

Windows 8.1\BT stack not sending reset to controller before S3 leaving device power on.

- Microsoft case ID: REG:114011011081840

- KB from Microsoft: http://support.microsoft.com/kb/2887179

Installer Options

- To install USB only patch drivers (without RF Kill support) *msiexec /i "Intel Bluetooth.msi" /q AddLocal=USB Remove=RFKILL*

(Note: 'Remove=RFKILL' Option was developed for customers who rely on HW RF Kill)

- To install all the components (patch drivers and RF Kill support)

  msiexec /i "Intel Bluetooth.msi" /q AddLocal=USB,RFKILL

- To uninstall the existing installation (this will uninstall all features)

  msiexec /x "Intel Bluetooth.msi" /q

Don't uninstall via the device manager.

Installer Options (cont.)

- SUPPORTREMOTEWAKEUP=TRUE/FALSE

This property when set to TRUE, will add the registry keys that will enable the remote device wakeup.

The default value is FALSE and so these keys are not added.

- Example: To install only the patch driver (without RF Kill support) and to add the registry keys for remote wakeup support

  msiexec /i "Intel Bluetooth.msi" /q AddLocal=USB Remove=RFKILL SUPPORTREMOTEWAKEUP=TRUE

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TIC Installation instructions

Verify that a supported Bluetooth NIC is installed on-board.
Install Motorola Bluetooth Profile Pack by running "Autorun" and
follow graphical wizard instructions.

Installation commands:

Command name and possible values

LPUSBHUBWA=TRUE

LPUSBHUBWA=FALSE

PAGESCANMGMT=FALSE

PAGESCANMGMT=TRUE

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