



Intel® USB 3.0 eXtensible Host Controller Driver

Release Notes (2.0.0.100)

for Intel® 8 Series/C220 series Chipset Family

March 2013

Revision 1.01

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Contents

1	Introduction	5
	1.1 Scope of Document	5
	1.2 System Requirements	5
	1.3 Acronyms and Terminology	6
2	Release Kit Summary	8
	2.1 Release Kit Details	8
	2.2 Kit Contents	8
3	Important Notes	9
	3.1 USB 3.0 Collaterals	9
	3.2 Platform Best Known Configuration	9
4	Closed Issues	10
5	Known Issues	12



Revision History

Revision Number	Description	Revision Date
0.7	Initial release.	February 2012
0.8	Updated release note for driver release 1.5.0.53	April 2012
0.85	Updated release note for driver release 1.5.0.70	July 2012
0.9	Updated release note for driver release 2.0.0.85	October 2012
0.95	Updated release note for driver release 2.0.0.99	December 2012
1.0	Updated release note for driver release 2.0.0.100	January 2013
1.01	Updated release note for driver PV release 2.0.0.100	March 2013

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1 Introduction

1.1 Scope of Document

This document provides release information about the Intel® USB 3.0 eXtensible Host Controller Driver. It covers Release Kit summary, Important Notes, Resolved Issues and Known Issues. This document is intended for OEMs and ODMs that are validating the Intel® USB 3.0 eXtensible Host Controller Driver on their Intel® 8 Series/C220 series Chipset Family based platform.

1.2 System Requirements

The Intel® USB 3.0 eXtensible Host Controller Driver contains support for the following Intel Chipsets:

- Intel® 8 Series/C220 series Chipset Family

The following Operating Systems are supported:

Intel® 8 Series Chipset Family:

- Windows* 7 Operating System (both 32-bit and 64-bit versions).

Intel® C220 series chipset family:

- Windows* 7 Operating System (both 32-bit and 64-bit versions).
- Windows* Server 2008 R2 Operating System.
- Windows* Small Business Server 2008 Operating System.

Note: The Intel® USB 3.0 eXtensible Host Controller Driver is not supported on Windows* XP and Windows Vista*. For these operating systems, ensure your BIOS settings have the xHCI Mode set to “Auto” or “Smart Auto”. This will reconfigure the USB 3.0 ports to function as USB 2.0 ports using the native Windows* EHCI driver. For more information, see the Intel® 8 Series/C220 Series Chipset Family, Haswell PCH-LP (previously known as Lynx Point-LP PCH), and Haswell-EP PCH (previously known as Wellsburg PCH) BIOS Specification documents.

The Intel® USB 3.0 eXtensible Host Controller Driver Installer and Intel® USB 3.0 Monitor support the following languages:

- Arabic (International)
- Chinese (Simplified)
- Chinese (Traditional)
- Czech



- Danish
- German
- Greek
- English (United States)
- Spanish
- Finnish
- French (International)
- Hebrew
- Hungarian
- Italian
- Japanese
- Korean
- Dutch
- Norwegian
- Polish
- Portuguese (Brazil)
- Portuguese (Portugal)
- Russian
- Slovak
- Slovenian
- Swedish
- Thai
- Turkish

1.3 Acronyms and Terminology

Term	Description
BSOD	Blue Screen of Death (Stop Error)
CRB	Customer Reference Board
EHCI	Enhanced Host Controller Interface
FS	Full-Speed
HID	Human Interface Device (ex: keyboard or mouse)
HS	High-Speed
IBP	Intel Business Portal (https://businessportal.intel.com)
LS	Low-Speed
PCH	Platform Control Hub



Term	Description
RMH	Rate Matching Hub
SS	Super-Speed
USB	Universal Serial Bus
xHCI	eXtensible Host Controller Interface
WPP	Windows* software trace Pre-Processor

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2 Release Kit Summary

2.1 Release Kit Details

Kit Name: Intel(R) USB 3.0 eXtensible Host Controller Driver

Version: 2.0.0.100 (PV Release)

2.2 Kit Contents

The contents of this release kit include:

- Intel® USB 3.0 eXtensible Host Controller Driver Installer
- The Intel® USB 3.0 eXtensible Host Controller Driver Installer “Setup.exe” will install the following drivers and application on the system:
 - o Intel® USB 3.0 eXtensible Host Controller Driver
 - o Intel® USB 3.0 Root Hub Driver
 - o Intel® USB 3.0 Host Controller Switch Driver
 - o Intel® USB 3.0 Monitor
- USB 3.0 Debug Scripts

The “Debug_Scripts” folder provides the scripts to capture USB 3.0 WPP logs for issue debug. For more information, see the readme.txt file located in the same folder.
- Intel® USB 3.0 eXtensible Host Controller Driver – Release Notes
- Intel® USB 3.0 eXtensible Host Controller Driver – Bring Up Guide
- Intel Software License Agreement (Pre-Production)



3 *Important Notes*

3.1 USB 3.0 Collaterals

Please see the document “Intel(R) USB 3.0 eXtensible Host Controller Driver - Bring Up Guide” for information on driver installation and usage. This document can be found in the Intel(R) USB 3.0 eXtensible Host Controller Driver release kit.

Another useful document to reference is the “Intel(R) USB 3.0 eXtensible Host Controller Driver - Customer Validation and Debug Guide”. This document is available on CDI. Please contact your Intel FAE for access.

3.2 Platform Best Known Configuration

Please refer to “Client Base Platform Best Known Configuration for Shark Bay Platform” from Intel Business Portal (IBP) for platform configuration setup that aligns to this milestone releases.

Note: This release contains the same contents as the PC Release 2.0.0.100 build except for WHQL signed driver files.

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4 Closed Issues

Issue #	Description	Resolution
4043066	A BSOD 0x9F may occurs when USB keyboard is connected behind external HS HUB during S4 and the system is resumed from S4.	Resolved in Release Rev: 2.0.0.99
3707897	Some USB2.0 device connected behind USB3.0 port cannot enter to selective suspend correctly.	Resolved in Release Rev: 2.0.0.99
3708300	BSOD may occur when a USB printer is connected to USB3.0 port and the printer application is installed	Resolved in Release Rev: 2.0.0.99
3708425	A BSOD 0x7E may occurs when a USB3.0 Camera is connected to a USB3 port and the camera application is started and closed repeatedly.	Resolved in Release Rev: 2.0.0.99
2163640	A BSOD 0xE8086002 may occurs when multiple devices tree is connected to the xHCI controller.	Resolved in Release Rev: 2.0.0.99
3708326	"Allow this device to wake the computer" option for HID-compliant mouse/keyboard under the Device Manager may be unchecked when the mouse/keyboard is connected behind the USB3.0 port and the Intel® xHCI driver is installed.	Resolved in Release Rev: 2.0.0.99
3708434	USB Camera may stop working after resuming from S3.	Resolved in Release Rev: 2.0.0.99
4043041	Device may not enumerate correctly after xHCI controller is put to D3.	Resolved in Release Rev: 2.0.0.99
4043057	USB printer may not enumerate when connected behind a USB2.0 hub after resuming from S3.	Resolved in Release Rev: 2.0.0.99
4043014	USB2.0 pen drive may not enumerate after connecting behind a USB2.0 hub which it is in Selective Suspend and connected to HS Port 1	Resolved in Release Rev: 2.0.0.85 (Beta)
3708246	Power Management tab on HID-compliant mouse/keyboard under Device Manager is present even if USB Wake is disabled in BIOS	Resolved in Release Rev: 2.0.0.85 (Beta)
4042999	USB printer may not enumerate when connected behind a USB2.0 hub after resuming from S3.	Resolved in Release Rev: 2.0.0.85 (Beta)
4042979	USB2.0 Device may be enumerated as Low Speed	Resolved in Release Rev: 2.0.0.85 (Beta)
4693247	After running drivers downgrade procedure from driver 1.5.0.70 to an older version, all USB ports may become unavailable.	Resolved in Release Rev: 2.0.0.85 (Beta)

Closed Issues

Issue #	Description	Resolution
3708073	All USB ports may become no functional during the driver upgrade process if the "Always trust software from 'Intel Corporation' " option was not checked on the previous driver installation process.	Resolved in Release Rev: 2.0.0.85 (Beta)
3707995	Error message pop-up when installing USB 3.0 driver on fresh OS.	Resolved in Release Rev: 1.5.0.70 (Alpha2)
4042493	Webcam freezes after S5.	Resolved on latest BKC
N/A	Intel® USB 3.0 eXtensible Host Controller Driver Installer (setup.exe) 1.5.0.7 doesn't work on Lynx Point A1 stepping. A pop up message will show up "This computer does not meet the minimum requirements for installing the software".	Resolved in Release Rev: 1.5.0.53 (Alpha)

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5 *Known Issues*

Issue #	Description

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