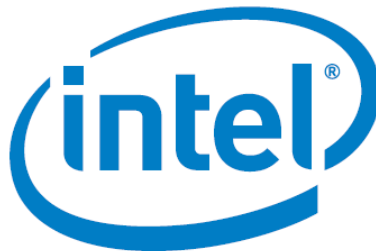


# Intel® Rapid Storage Technology enterprise (Intel® RSTe) 3.0 X79 Express Chipset SATA Driver Customer Release Notes

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November, 2011

Revision 1.0



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## ***Document Revision History***

Date	Version	Description
November 2011	1.0	Initial Document Release

# 1 Overview

This Hot Fix release package of the Intel® RSTe 3.0 X79 Express Chipset SATA Driver product contains an latest version of the Intel® RSTe 3.0 Windows\* driver to supporting platforms built with the Intel® X79 Express Chipset. It will provide support for the Intel® X79 Express Chipset Advanced Host Controller Interface (AHCI) when set to either AHCI mode or RAID mode.

This document covers the package contents, supported hardware configurations, credits, support, known issues and resolved issues.

NOTE: Hot Fix drivers are point releases to resolve a single issue. Intel does not perform a complete validation test cycle on Hot Fix drivers. It is the responsibility of the recipients of this Hot Fix driver to validate on the productions platforms.

## 2 Support on Internet

Support shall be provided via the Intel Premier Support <https://premier.intel.com> for all Intel® X79 Express Chipset questions and other technical collateral including the latest application notes, datasheets, manuals, etc.

## 3 Package Contents

This Intel® RSTe 3.0 Hot-Fix release package includes the following components:

- Intel Dear Customer Letter (DCL)
- PV Pre-OS environment drivers and utilities
- C-Stepping Supported drivers and utilities (Version 01184)
  - PV Intel® RSTe 3.0 SATA Legacy RAID OptionROM image
  - PV Intel® RSTe 3.0 SATA DOS\* based RAID Configuration utility
  - PV Intel® RSTe 3.0 SATA DOS\* based RAID Comply utility
  - PV Intel® RSTe 3.0 UEFI SATA driver
  - PV Intel® RSTe 3.0 UEFI based SATA RAID Comply utility
  - PV Intel® RSTe 3.0 UEFI based SATA RAID Command Line Interface (CLI) utility
- PV Intel® RSTe 3.0 F6 SATA Installation Drivers
  - RSTe\_f6\_iaStorA\_32
  - RSTe\_f6\_iaStorA\_64
- PV Intel® RSTe 3.0 Installation utility (which contains the Intel® RSTe 3.0.0.2003 drivers and GUI)
  1. IATA\_ENU.exe
  2. IATA\_ENG.zip

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- PV Intel® RSTe 3.0 Command Line Interface (CLI) utility (32-bit and 64-bit)
- PV Intel® RSTe 3.0 CLI Overview
- PV Intel® RSTe 3.0 CIM Installation Application
- Intel® RSTe 3.0 PV Windows\* Driver Installation Instructions document
- Intel® RSTe 3.0 Technical Product Specification Rev 0.8x
- Intel® RSTe 3.0 PV User's Manual

## **3.1 Supported Configurations**

### **3.1.1 Intel® RSTe 3.0.0.2003 Hot Fix Release Operating Systems**

The following Operating Systems are supported with this Hot Fix release when the SATA Controller is configured in AHCI Mode:

- Windows XP SP2 (64bit)
- Windows Server 2003 R2 SP2 (32 and 64 bit)
- Windows Vista SP2 (32 and 64 bit)
- Windows Server 2008 SP2 (32 and 64 bit)
- Windows 7 (32 and 64 bit)
- Windows Server 2008 R2 (32 and 64 bit)

The following Operating Systems are supported with this Hot Fix release when the SATA Controller is configured for RAID Mode:

- Windows XP SP2 (64bit)
- Windows Server 2003 R2 SP2 (32 and 64 bit)
- Windows 7 (32 and 64 bit)
- Windows Server 2008 R2 (32 and 64 bit)

### **3.1.2 Intel® X79 Express Chipsets Silicon Stepping**

- C0 (driver and firmware)

## **4 Supported Platforms**

This Intel® RSTe 3.0 X79 Express Chipset SATA Driver Hot Fix release package is intended to be used on Customer platforms that are based off of the Intel® Waimea Bay architecture that contains the Intel® X79 Express Chipset.

Please contact your Intel FAE for up to date information related to Waimea Bay platform components.

## **4.1 Intel® RSTe 3.0 X79 Express Chipset SATA Driver PV Release Package Documentation**

It is strongly recommended that all documentation provided with this release package be reviewed prior to installing the Intel® RSTe 3.0 Windows\* driver package.

## **4.2 Support**

With this Hot Fix drive release, Intel will accept and process issues receive by customers.

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## **5 General Notes: November '11 PV Release**

### ***5.1 Package/Firmware Versioning***

The Intel® X79 Express Chipset release package contains the Hot Fix release for Intel® RSTe 3.0 X79 Express Chipset SATA Driver version 3.0.0.2003.

### ***5.2 Additional Chipset Configuration Information***

The PCI Device ID for the AHCI controller in RAID mode must be 0x2826. In order to program the controller to report this ID, it is necessary to set a reserved bit in the SATA Clock General Configuration Register (SCLKGC, as referenced by the latest Intel® C600 series chipset EDS). The register is in the memory mapped region of bus 0, device 31, function 2, at offset 9Ch-9Fh, bit position 9. The bit is R/WO, following the usage semantics of the Alternate ID Enable (AIE) bit.

## 6 Specific Known Issues

This section outlines those known issues with the Intel® RSTe 3.0 Hot Fix Windows\* driver.

Note: This is neither a complete nor comprehensive list.

The known issues are broken down into two sub sections. The first outlines those issues that are being worked on or are planned to be corrected in a future release. The second outlines those issues that are considered permanent erratum.

### KEY:

<b>Title</b>	Brief description of the issue to assist in identifying whether it affects the reader's application or no
<b>Reference #</b>	Used to reference Intel's internal database for further follow-up on inquiry
<b>Product</b>	Identifies which products are affected by this issue
<b>Version</b>	Identified which release set versions area affected by this issue
<b>Operating System</b>	Where applicable, identifies which operations systems are affected by this issue
<b>Problem Description</b>	Additional information to help the reader determine if this issue affects their application
<b>Resolution/Status</b>	Provides either the current status of the issue or the targeted release for a fix

### 6.1 Errata

The following is a list of issues that RSTe 3.0 has to current plans for resolving.

<b>Title</b>	<b>SATA PHY Power Management Idle Timers May Not Be Properly Managed</b>
<b>Reference #</b>	3006800
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1065
<b>Operating System</b>	Windows*
<b>Problem Description</b>	Running heavy I/O to a HIPM capable drive, on a platform that has Power Management enabled, may result in a failure condition.  Work Around: Avoid running with Power Management enabled when HIPM capable drives attached.
<b>Resolution/Status</b>	No plan to resolve this issue in the RSTe 3.0 product baseline.

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<b>Title</b>	<b>Vista and earlier OS's; RAID Volume Creation or Deletion May Result in Event Log Error</b>
<b>Reference #</b>	3006850
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1019
<b>Operating System</b>	Windows*
<b>Problem Description</b>	Creating or deleting a RAID volume may result in an error being reported to the System Event Log. The storport driver may fail to recognize the surprise removal flag exported by the driver.
<b>Resolution/Status</b>	No plans to resolve this issue in the RSTe 3.0 driver.

<b>Title</b>	<b>Rename Volume - Upon Rename the Page May Jump to First Enumerated Disk</b>
<b>Reference #</b>	3007075
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1062
<b>Operating System</b>	Windows*
<b>Problem Description</b>	After renaming a volume, the UI jumps to the first enumerated disk and displays that disk properties. Expected behavior should be that the 'Volume Properties' page refreshes with the new volume name and stays at that page.
<b>Resolution/Status</b>	No plan to resolve this issue in the RSTe 3.0 product baseline. Issue to be addressed in a future product release.

<b>Title</b>	<b>RSTe UI Create Wizard May Lose Disk Focus</b>
<b>Reference #</b>	3234466
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1080
<b>Operating System</b>	Windows*
<b>Problem Description</b>	While using the RSTe UI after selecting a disk the Create wizard focus may return to the top of the drive list instead of staying on the selected disk.
<b>Resolution/Status</b>	No plan to resolve this issue in the RSTe 3.0 product baseline. Issue to be addressed in a future product release.

<b>Title</b>	<b>Selecting the Create Wizard or Help Button May Take Some Time to Launch</b>
<b>Reference #</b>	3234469
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1080

<b>Operating System</b>	Windows*
<b>Problem Description</b>	When running the RSTe 3.0 UI selecting the Create Wizard or Help buttons may take some time before they launch.
<b>Resolution/Status</b>	No plan to resolve this issue in the RSTe 3.0 product baseline. This issue will be addressed in a future product release.

<b>Title</b>	<b>Windows* 2003 Server 64 bit and XP SP2 64 bit Cannot be Installed on a RAID volumes</b>
<b>Reference #</b>	3234688
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1080
<b>Operating System</b>	Windows*
<b>Problem Description</b>	<p>The In Box installation image for Windows 2003 R2 SP2 64 bit or XP SP2 64 bit does not support the latest Microsoft Storport Miniport Driver Model. Microsoft made enhancements to the Storport Miniport architecture that was implemented following the release of Windows 2003 R2 SP2. Microsoft made a Hot-Fix available for download. This issue will be encountered only when accessing a RAID volume. For more detailed instruction on applying the Hot-Fix to the installation images can be found <a href="http://technet.microsoft.com/en-us/library/cc766320(ws.10).aspx">http://technet.microsoft.com/en-us/library/cc766320(ws.10).aspx</a></p> <p>Workaround: On platforms with C0 X79 Express Chipsets:</p> <ol style="list-style-type: none"> <li>1. Install to a single Pass-thru disk</li> <li>2. Apply the appropriate Hot-Fix to bring the StorPort driver up to current standards.</li> </ol> <p>* The hotfix can be downloaded at:  <a href="http://support.microsoft.com/kb/932755">http://support.microsoft.com/kb/932755</a></p> <ol style="list-style-type: none"> <li>3. Reboot the system</li> <li>4. Use RSTe GUI to create the desired RAID Volume from the existing boot drive.</li> </ol> <p>Note: using B0 X79 Express Chipset may not support installing Windows* 2003 due to a known errata that was fixed in C0.</p>
<b>Resolution/Status</b>	No plans to resolve this issue in the RSTe 3.0 driver.

<b>Title</b>	<b>'Remove Safely' not presented when eSATA drives are attached</b>
<b>Reference #</b>	3235187
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1080
<b>Operating System</b>	Windows*
<b>Problem Description</b>	When a drive is attached to an eSATA port, Windows is not notified that an external, and thus removal, drive is present.

<b>Resolution/Status</b>	No plans to resolve this issue in the RSTe 3.0 driver.
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<b>Title</b>	<b>Installing RSTe on Windows 2003 R2 SP2 (or XP-SP2 64 bit) May Result in Being Prompted to Install the iastorF.sys (Filter File)</b>
<b>Reference #</b>	3235517
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1112
<b>Operating System</b>	Windows*
<b>Problem Description</b>	<p>When installing Windows 2003 R2 SP2 or (XP-SP2 64 bit) with the RSTe 3.0 driver, a prompt looking for the iastorF.sys (RSTe storport filter driver) may appear.</p> <p>Workaround: Browse to the floppy drive containing the filter driver to continue installing.</p>
<b>Resolution/Status</b>	No plans to resolve this issue in the RSTe 3.0 driver.

<b>Title</b>	<b>Windows 2003 R2 SP2 (or XP-SP2 64 bit) OS Installed in AHCI Mode May Not Hibernate/Sleep Properly.</b>
<b>Reference #</b>	3236177
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1112
<b>Operating System</b>	Windows*
<b>Problem Description</b>	<p>When running in configuration with the AHCI Controller in ACHI mode and the OS is Windows 2003 R2 SP2, the system may not successfully hibernate.</p> <p>The In Box installation image for Windows 2003 R2 SP2 does not support the latest Microsoft Storport Miniport Driver Model. Microsoft made enhancements to the Storport Miniport architecture that was implemented following the release of Windows 2003 R2 SP2. Microsoft made a Hot-Fix available for download. This issue will be encountered only when accessing a RAID volume. For more detailed instruction on applying the Hot-Fix to the installation images can be found <a href="http://technet.microsoft.com/en-us/library/cc766320(ws.10).aspx">http://technet.microsoft.com/en-us/library/cc766320(ws.10).aspx</a></p> <p>Workaround: On platforms with C0 X79 Express Chipsets:</p> <ol style="list-style-type: none"> <li>1. Install to a single disk</li> <li>2. Apply the appropriate Hot-Fix to bring the StorPort driver up to current standards.</li> </ol> <p>* The hotfix can be downloaded at:  <a href="http://support.microsoft.com/kb/932755">http://support.microsoft.com/kb/932755</a></p> <ol style="list-style-type: none"> <li>3. Reboot the system</li> </ol>

<b>Resolution/Status</b>	No plans to resolve this issue in the RSTe 3.0 driver.
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## 6.2 Known Issues Being Worked

The following issues are presented in numerical order

<b>Title</b>	<b>The 'Browse Back' Button in the RSTe UI May Not Be Functioning Properly</b>
<b>Reference #</b>	3006893
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1047
<b>Operating System</b>	Windows*
<b>Problem Description</b>	When viewing the Help topics from the RSTe UI, on some topics (e.g. Managing Volumes), the 'Browse Back' option may not function properly.
<b>Resolution/Status</b>	Issue to be resolved in a future release.

<b>Title</b>	<b>RSTe3.0 - Pre-OS drivers may not properly handle drives with logical sector size other than 512bytes</b>
<b>Reference #</b>	3234424
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1111
<b>Operating System</b>	Windows*
<b>Problem Description</b>	The RSTe 3.0 Pre-OS drivers (Legacy OROM and UEFI drivers) may not properly support disk drives that are not formatted with 512 byte logical sector size.  Work around: Avoid using these types of disks.
<b>Resolution/Status</b>	Issue to be resolved in a future release.

<b>Title</b>	<b>Volume Status Text May Not Properly Update After Being Rest to Normal</b>
<b>Reference #</b>	3234634
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1080
<b>Operating System</b>	Windows*
<b>Problem Description</b>	When running in a configuration were a RAID volume disk is offline and is then brought back online if the More Help" link is selected the "No" option to reset the volume may go back to the "Yes"

	option. As a result the volume status may not update to "Normal". Workaround: Avoid selecting "More Help" right after bringing a RIAD volume disk back online."
<b>Resolution/Status</b>	Issue to be resolved in a future release.

<b>Title</b>	<b>An Empty Port in a Direct Attached Configuration May Not be Properly reported in the UI or System Report</b>
<b>Reference #</b>	3235080
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1111
<b>Operating System</b>	Windows*
<b>Problem Description</b>	RSTe 3.0 may not properly report the status of an empty port (in a direct attached configuration) for the AHCI controller or SCU controllers.
<b>Resolution/Status</b>	Issue to be resolved in a future release.

<b>Title</b>	<b>SGPIO Activate LED May Not Work Properly</b>
<b>Reference #</b>	3235104
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1111
<b>Operating System</b>	Windows*
<b>Problem Description</b>	When running in a configuration with an SGPIO compliant backplane, issuing an Activate LED command from the RSTe 3.0 UI may not result in the LED not flashing.
<b>Resolution/Status</b>	Issue to be resolved in a future release.

<b>Title</b>	<b>SGPIO Migration/Rebuild flashing doesn't resume after Locate button pressed</b>
<b>Reference #</b>	32352134
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1111
<b>Operating System</b>	Windows*
<b>Problem Description</b>	When performing a RAID Migration/Rebuild, the SGPIO blink pattern may be interrupted during a Locate activity (from the RSTe 3.0 UI). Upon completion of the Locate activity, the Migration/Rebuild blink pattern may not resume properly.
<b>Resolution/Status</b>	Issue to be resolved in a future release.

<b>Title</b>	<b>Migration/Rebuild volumes do not have all LEDs blinking</b>
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Reference #	3235214
Product	Intel® RSTe 3.0
Version	3.0.0.1111
Operating System	Windows*
Problem Description	Performing a RAID Migration/Rebuild may not result in all of the appropriate SGPIO LEDs blinking correctly
Resolution/Status	Issue to be resolved in a future release.

Title	<b>RSTe driver version may appear to be older than Intel(R) X79 Express Chipset driver version</b>
Reference #	3235327
Product	Intel® RSTe 3.0
Version	3.0.0.1111
Operating System	Windows*
Problem Description	When installing the RSTe driver on Intel(R) X79 Express Chipset based platform (after the chipset drivers have been installed), the installation process may report that the chipset driver version is newer than the RSTe driver version.
Resolution/Status	Issue to be resolved in a future release.

Title	<b>RSTe 3.0 GUI System Report Count for Sata/Phys May Be Incorrect</b>
Reference #	3235344
Product	Intel® RSTe 3.0
Version	3.0.0.1111
Operating System	Windows*
Problem Description	After the creation and removal of RAID volumes, the RSTe GUI system report may incorrectly report the number and types of PHYs/Ports.
Resolution/Status	Issue to be resolved in a future release.

Title	<b>S3/S4 issues being seeing on Intel(R) X79 Express Chipset based platforms</b>
Reference #	3235358
Product	Intel® RSTe 3.0
Version	3.0.0.1019
Operating System	Windows*

<p><b>Problem Description</b></p>	<p>Attempting to run S3/S4 on platforms based on the Intel(R) X79 Express Chipset may encounter a variety of issues ranging from system hangs to system crash.</p> <p>Check with you local Intel FAE or support representative to make sure that you have all of the latest HW changes/BIOS version and corresponding drivers.</p>
<p><b>Resolution/Status</b></p>	<p>Issue to be resolved in a future release.</p>

<p><b>Title</b></p>	<p><b>RSTe 3.0 GUI My Not Properly Initialize a RAID 5 Volume</b></p>
<p><b>Reference #</b></p>	<p>3235415</p>
<p><b>Product</b></p>	<p>Intel® RSTe 3.0</p>
<p><b>Version</b></p>	<p>3.0.0.1019</p>
<p><b>Operating System</b></p>	<p>Windows*</p>
<p><b>Problem Description</b></p>	<p>When performing a driver Hot Plug or deleting a RAID volume while the RSTe 3.0 GUI is open, a RAID 5 volume may not be initialized.</p>
<p><b>Resolution/Status</b></p>	<p>Issue to be resolved in a future release.</p>

<p><b>Title</b></p>	<p><b>Migrating from 2-Disk RAID0 to 3-Disk RAID5 May Not Be Processed</b></p>
<p><b>Reference #</b></p>	<p>3235851</p>
<p><b>Product</b></p>	<p>Intel® RSTe 3.0</p>
<p><b>Version</b></p>	<p>3.0.0.1111</p>
<p><b>Operating System</b></p>	<p>Windows*</p>
<p><b>Problem Description</b></p>	<p>When running in a configuration were the system has a 2 Disk RAID0 and that RAID Volume needs to be migrated to a 3 disk RAID5. After adding the additional disk, attempting to use the RSTe 3.0 UI to perform the migration may result in the following error message:</p> <p>“An unknown error occurred while an operation was in progress. The operation could not be completed.”</p> <p>This message occurs prior to any data migration occurring, so there is no impact to the existing data.</p> <p>Workaround: Add the third drive, use the RSTe 3.0 UI to expand the 2 Drive RAID0 to a 3 Drive RAID0. Once that has completed, use the RSTe UI to migrate the 3 Drive RAID0 to the desired 3 Drive RAID5.</p>
<p><b>Resolution/Status</b></p>	<p>Issue to be resolved in a future release.</p>

### 6.3 Issues Resolved in Release 3.0.0.2003

The following issues have been resolved with the release of the Intel® RSTe 3.0 Hot Fix driver version 3.0.0.2003

<b>Title</b>	Disk Management or Windows Explorer May Report an Empty ODD Device as an Audio CD
<b>Reference #</b>	3235600
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1112
<b>Operating System</b>	Windows*
<b>Problem Description</b>	Running in a configuration with the AHCI Controller configured for either AHCI mode or RAID mode may result in the empty ODD attached to the AHCI Controller being displayed as an Audio CD in disk management or Windows Explorer
<b>Resolution/Status</b>	Issue resolved in the 3.0.1.2003 release.

### 6.4 Issues Resolved in Release 3.0.0.1112

The following issues have been resolved with the release of the Intel® RSTe 3.0 PV driver version 3.0.0.1112

<b>Title</b>	RSTe Application does not install in silent mode
<b>Reference #</b>	3235519
<b>Product</b>	Intel® RSTe 3.0
<b>Version</b>	3.0.0.1080
<b>Operating System</b>	Windows*
<b>Problem Description</b>	<p>When attempting a factory installation download of Windows 7 32/64-bit on any of the BSLSN platforms and the storage driver SRV is included, the download may fail due to the storage driver application failing to install. The application exits with exit code 7, which indicates that the application cannot downgrade a driver in silent mode.</p> <p>The reason the application indicates a downgrade condition is because the existing chipset driver for the SATA controller is considered newer than the driver installed by the IRST SRV.</p>

	Workaround: When using the silent installation method, use the "-overwrite" option.
<b>Resolution/Status</b>	Issue resolved in the 3.0.0.1112 release.

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