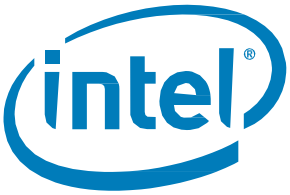

Intel® Solid-State Drive Toolbox

Installation Guide

May 2015
Software Version 3.x

Order Number: 326039-004US

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Revision History

Revision	Description	Revision Date
001	Initial release	September 2010
002	Updated for software version 3.1.0 Added updates for Windows 8	October 2012
003	Updated for software version 3.1.5 Updated known issues and known limitation sections	June 2013
004	Updated for software version 3.3.0	May 2015

1 Overview

This guide describes how to install the Intel® Solid-State Drive Toolbox (Intel® SSD Toolbox).

For information on using Intel SSD Toolbox once installed, see the help system included with the application.

For more information on Intel SSDs, go to: www.intel.com/ssd.

1.1 Requirements

Intel SSD Toolbox 3.3 requires the following:

- Supported operating systems:
  - Microsoft Windows* 8
  - Microsoft Windows* 7
  - Windows* XP
  - Windows Vista*
- Microsoft* .NET Framework version 3.0

  .NET Framework version 3.0 is included with Windows 8, Windows 7 and Windows Vista.

  If your system is running Windows XP, or does not have version 3.0 of .NET Framework installed, Intel SSD Toolbox directs you to the appropriate place to obtain it during the installation.
- At least 60 megabytes (MB) of available space.

  To determine whether the drive has enough available space:

  1. Double-click **My Computer**.
  2. Right-click the drive you want to check and click **Properties** to display the amount of free space.

1.2 Known Limitations

Review the following limitations before installing Intel SSD Toolbox.

- **RAID, Dynamic Disk or Storage Space Configurations**

  Intel SSD Toolbox works with single SSDs, SSDs in a simple Dynamic Disk configuration, and SSDs that are part of Intel® Matrix Storage Manager or Intel® Rapid Storage Technology (Intel® RST) RAID configurations.

  Intel SSD Toolbox provides limited functionality for SSDs that are part of RAID, Dynamic Disk or Windows* 8 Storage Space configurations with multiple partitions: Intel SSD Optimizer and Secure Erase are not supported in these configurations.

- **Systems with Virtualization**

  Intel SSD Toolbox 3.3 does not work on systems running in a virtualized environment as it cannot detect the SSDs.

- **SSD Formatted with FAT32 File System**

  Intel SSD Optimizer does not work on SSDs formatted with file allocation system FAT32. New Technology File System (NTFS) is required to run Intel SSD Optimizer.

- **Systems in IDE Mode**

  Intel SSD Toolbox 3.3 cannot update firmware on certain Intel SSDs in IDE mode. These include:

  - Intel® Solid-State Drive DC S3700 Series
  - Intel® Solid-State Drive 335 Series
  - Intel® Solid-State Drive 311 Series
  - Intel® Solid-State Drive 310 Series
  - Intel® X25-M/X18-M Solid-State Drives
  - Intel® X25-V Solid-State Drive

- **Firmware Updates on Intel SSDs**

  Intel SSD Toolbox 3.3 supports firmware updates on all Intel SSDs except for the following:

  - Intel® Solid-State Drive 510 Series
  - Intel® X25-E Solid-State Drive and Intel® X25-M/X18-M Solid-State Drives (50nm)

  Use the Intel® SATA Solid-State Drive Firmware Update Tool to update firmware on these SSDs.

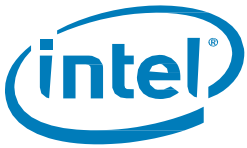
  To identify your Intel SSD, view the model number on the Intel SSD Toolbox home screen. To identify if the Intel SSD is 50nm:

  1. Select the Intel SSD on the Intel SSD Toolbox home screen.
  2. Click **Drive Details**.
  3. View the Model Number (Word 27-46). If the number contains **G1**, the Intel SSD is 50nm.

- **Firmware Updates on Intel SSDs**

  Intel SSD Toolbox System Tuner can configure Device Initiated Power Management (DIPM) settings for the following configurations only:

  - Intel® Rapid Storage Technology (Intel® RST) driver
  - Microsoft* AHCI driver in Windows* 7 or Windows* 8



1.3 Known Issues

- **Cannot run Intel SSD Optimizer on RAID configurations**

  Description: Some systems without a RAID configuration display the following error message when running Intel SSD Optimizer: "Cannot run the Intel SSD Optimizer on RAID Configurations." There is currently no workaround for this issue.

  Known Systems Affected: Dell* Inspiron* Mini 10 netbook

- **Not all drives in a RAID configuration are recognized by Intel SSD Toolbox**

  Not all drives in a RAID configuration are recognized by Intel SSD Toolbox

  Not all drives in a RAID configuration are recognized by Intel SSD Toolbox. Drive details and SMART information may be obtained with another program.

  Known systems affected: HP* Compaq* dc7800 Convertible Minitower PC, HP Compaq dc7800 Small Form Factor PC, HP Compaq dc7800 Ultra Slim Desktop PC

- **Intel SSD Toolbox does not communicate with drives on some systems**

  On some systems, Intel SSD Toolbox does communicate with drives and all functionality is disabled. There is no workaround for this issue.

  Known systems affected: Supermicro* H8DAi-2, TYAN* Thunder N3600M motherboard – NVIDIA nForce* Pro 3600

- **RAID Volume may display extended serial number**

  When a RAID volume is selected on the home screen, the serial number may contain an extended number of characters. There is no workaround for this issue.

  Known system affected: GIGABYTE* GA-790FXTA-UD5

- **SSD may report "BAD_CONTEXT" if Secure Erase operation is interrupted**

  During a Secure Erase operation, if the SSD loses power or if the SSD is removed from the system once the Secure Erase operation is 40% or more complete, the SSD may report "BAD_CONTEXT" in the Serial Number field. There is no workaround for this issue.

  Known drive affected: Intel® X25-E Solid-State Drive

2 Installation and Start Up

2.1 Downloading the Intel® SSD Toolbox

1. Go to the Intel support website located at http://www.intel.com/ssd/toolbox.
2. Chose **Run** to begin installing the application immediately, or **Save** the Intel SSD Toolbox 3.3 application (.exe file) to a folder on your computer.

2.2 Installing the Intel SSD Toolbox

1. Double-click the downloaded .exe file to start the Intel SSD Toolbox setup wizard (skip if you chose **Run** from step 2 above).
2. Click **Next** on the Welcome screen.
3. Review the Intel Software License Agreement, and click **Yes** to continue.
4. Click **Yes**, if you wish to install the Intel Update Manager (IUM), or **No** to continue.

   You will see a list of files as they are installed on your computer.
5. Click **Next** to proceed.

   Choose **No** if you don't want to run the Intel SSD Toolbox right away.
6. Click **Finish** when the Installation Complete dialog box appears.

   The Intel SSD Toolbox installs at the default location: Program Files (x86)\Intel\Intel(R) SSD Toolbox\

2.3 Starting the Intel SSD Toolbox

Start Intel SSD Toolbox one of two ways:

- Double-click the Intel SSD Toolbox icon on your desktop.
- Open the Windows **Start** menu > **Intel SSD Toolbox**.