



Intel-powered Classmate PC
System Image Recovery*
Training Foils

Version 1.0



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Document Revision	Revision History	Date
1.0	Initial released.	2009-1-5

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Background:

Research shows a strong correlation between educational achievement and economic development. In fact, a nation's ROI on its education investment can be as high as 12 percent. In recent years, many countries have made strides to increase enrollment in primary and secondary schools. But attending school is just the first step to a good education. Students need to be prepared for our fast-changing world, knowledge-based society, and global economy. Technology in the classroom can help prepare students for this future. PCs and Internet access give teachers new tools for teaching and students new opportunities for learning. But only five percent of the world's children have access to a PC or the Internet. With a strong commitment to help bridge this "digital divide," Intel has researched the needs of education environments and developed new technologies and products to respond to these needs – filling the gap between mainstream PCs and solutions purpose-built for education.

Introduction

Intel created the Intel® Learning Series to address ongoing education technology needs around the world. The Intel Learning Series is a collection of hardware, software, and services designed specifically for education. Intel spearheads the research and design specs; the Intel Learning Series is brought to life by local technology companies who customize the products and services for their markets.

This document will discuss system image recovery including an introduction, how to use, and other useful information for OEMs to understand the software stacks easily and quickly.

Audience

This training document is intended for Intel marketing, Intel GEO technical marketing engineers (TMEs), Intel local field application engineers (FAEs), Local OEM technical staff, and other NDA-covered company staff who will work with teachers and students on the installation, implementation, and operation of Intel-powered classmate PCs.

Pre-Training

General Purpose:

The fundamental subject covered in these slides are:

- How to install and uninstall the software stacks within the Intel Learning Series.
- How to establish and configure the software stacks.

The processes outlined in this document are valid in the English (US version) software language version.

Note: For further information, please refer to Help file or User Manual integrated in this application.

Requirements for this training:

Hardware

Intel-powered classmate PC

Operating System

Microsoft Windows* XP/Pro Edition SP3

Microsoft Windows* 7 Starter/Home Basic/Pro Edition SP3

Software:

The applications are available in IBP

To access the portal, use the following URL: Businessportal.intel.com

Note: This user guide is suitable for both Windows XP and Windows* 7.
Some UI features may be different on different OS, but the function is same.*

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Introduction

System Image Recovery

Intel-powered classmate PC

System Image Recovery: With the Intel® Education Administrator USB Generation Tool recovery key, you can protect your system by performing three simple steps:

Step 1. Generate the USB Recovery Key

Generate a USB (suggest >2G) recovery key through the **USB Generation Tool** in the operating system (OS). This USB recovery key will be used to create and store your system backup files.

Step 2. Back Up System

Your current disk status will be recorded in this backup file. We suggest you save this backup file to the USB recovery key you have generated in Step 1; you also can save it to a different USB storage device.

Step 3. Restore System

You can recover your system from a selected backup file that you have saved previously by restoring the system through the **USB Recovery Tool** in pre-OS.



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1. Install

Click **setup.exe** in the install package to install the application. If the install package detects that an older version had been installed, it will promote the user to upgrade it.

2. Uninstall

Go to **Start ->Control Panel->Add or Remove Program**, find Intel® Education Administrator USB Generation Tool.

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1.Start Up

There are two ways to launch the System Image Recovery application:

- a) Click **Start ->All Programs -> Intel Learning Series ->Intel(R) Education Administrator ->USB Generation Tool.**
- b) Double click the **USB Generation Tool** shortcut on the desktop.

2.Exit

Click **Close** on the main UI of System Image Recovery to close the application.

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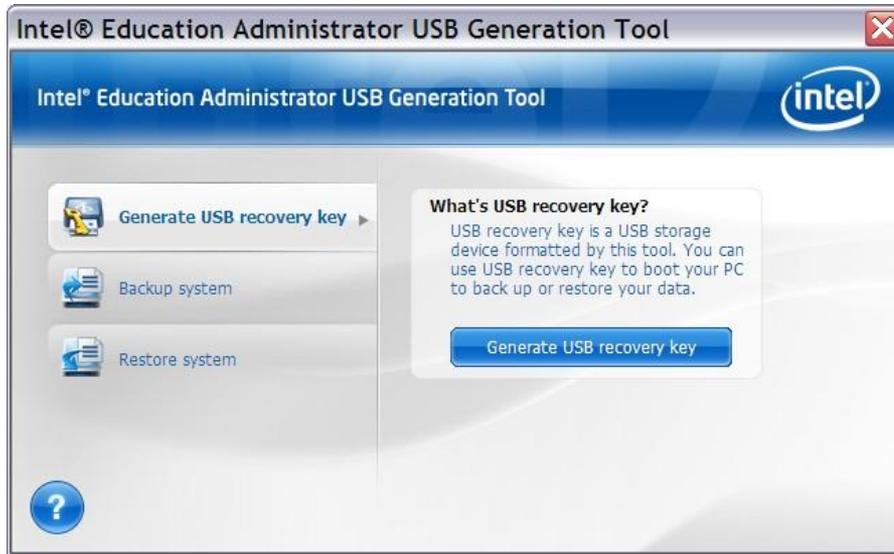
Start Up and Exit

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How to Use System Image Recovery

Step 1: Generate the USB Recovery Key:



1. Insert a USB storage device then choose **Generate USB recovery key**.

NOTE

- Minimum space required for the USB storage device is 32 M. It is suggested to use a USB storage > 2 GB.
- If the USB key size is larger than 32 GB, the utility tool will partition USB to two partitions.
- The first partition: 32 GB (used to store image files). The second partition: the rest of the USB size.
- Only support FAT32 format.

2. Click **Generate** to continue.

NOTE

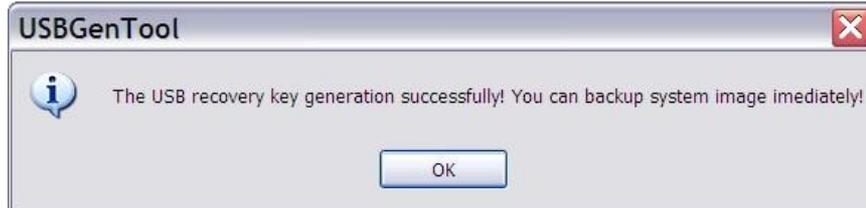
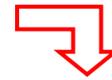
Each time you generate a USB recovery key, it will format and re-partition your USB storage device.



How to Use System Image Recovery

Generate the USB Recovery Key:

3. Follow the default step, until you click **OK** to complete this section.



How to Use System Image Recovery

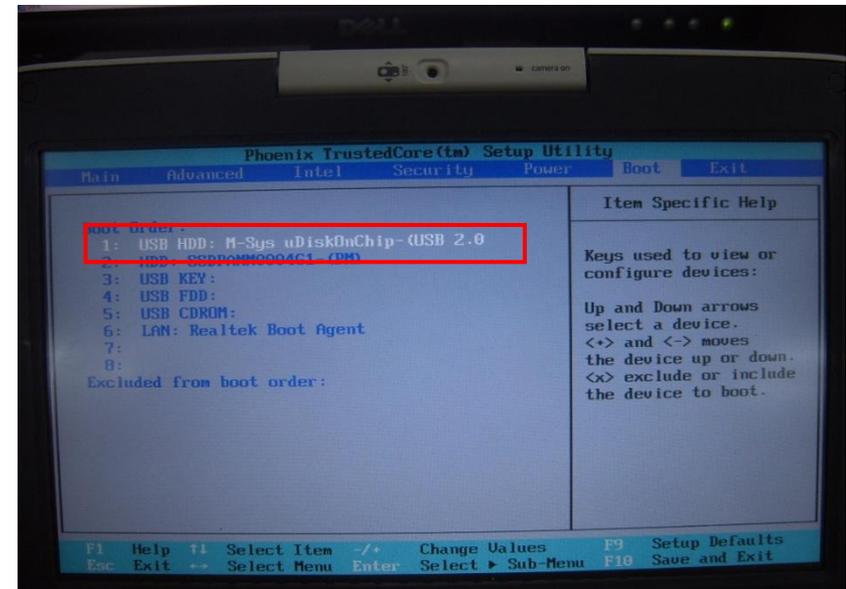
Step 2: Back Up System

1. In the Intel® Education Administrator USB Generation Tool main window, click **Backup system** to access the back up system instructions.



2. Reboot the system and press **Delete** key to enter BIOS Setup. You can set the first boot device as shown in the figure on the right.

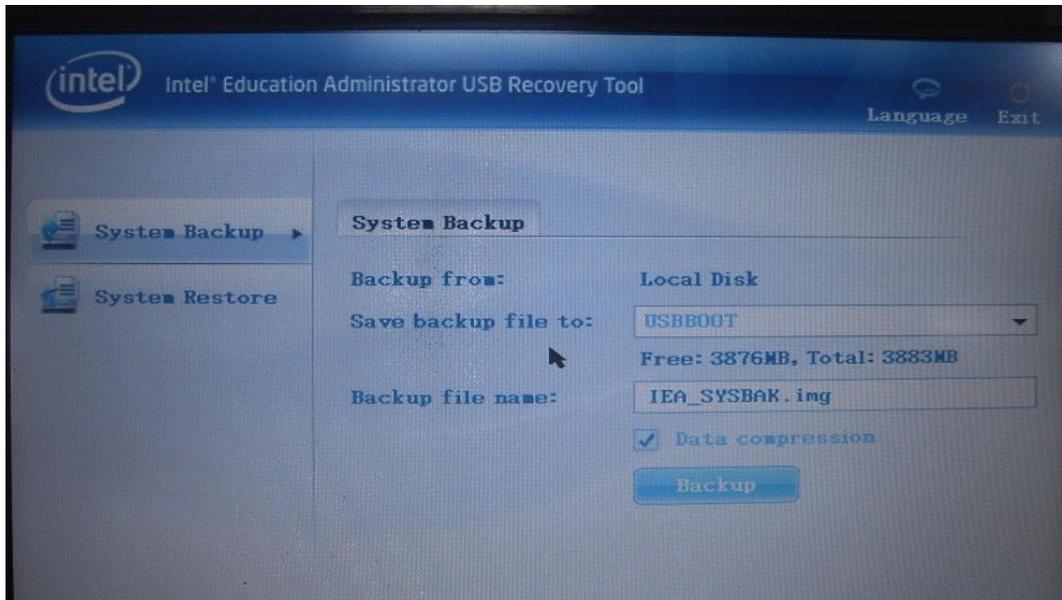
Note: this is just an example: the USB name will vary depending on your USB device.



How to Use System Image Recovery

Back Up System

- The system will automatically boot to the Intel® Education Administrator USB Recovery Tool (Pre-OS) after you reboot it. Press **Backup** to continue.



Save backup files to: the system will automatically list all available USB boot partitions of USB recovery keys. Please select one and make sure there is enough free space to store the backup file.

Data compression: by default, the system will compress the backup file to reduce its size. You may also deselect this feature.

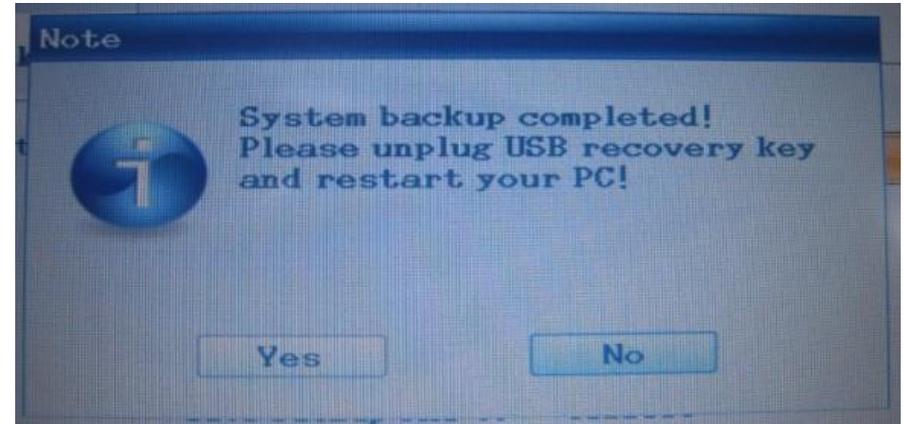
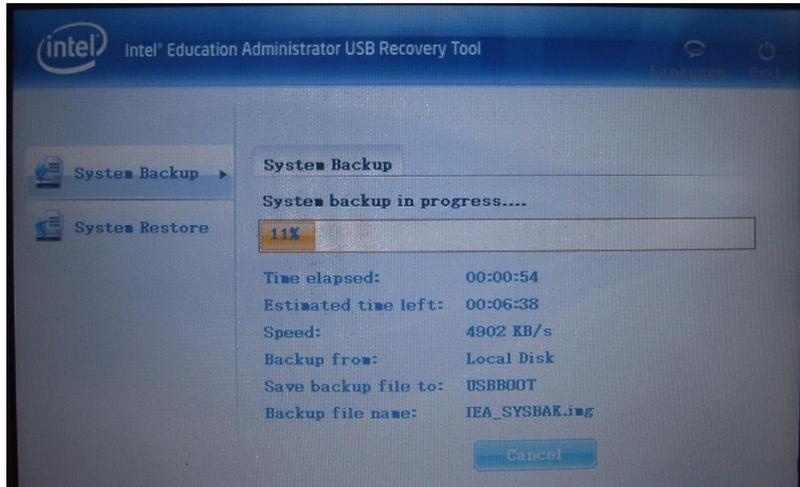
Note:

- Only alphabet, number, "-", "+", "." can be used; at least one letter is required; the file name length should be no more than 15 digits.*
- It is suggested to use a descriptive name for your backup file for easy management, e.g. SysBAK_YYYYMMDD.img*

How to Use System Image Recovery

Back Up System

4. Follow the default step, until you click **Yes** to complete **system backup** section.

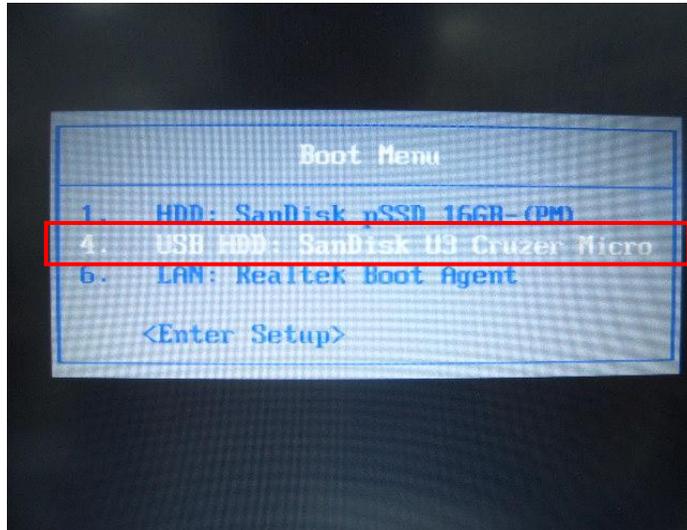


How to Use System Image Recovery

Step3: Restore System:

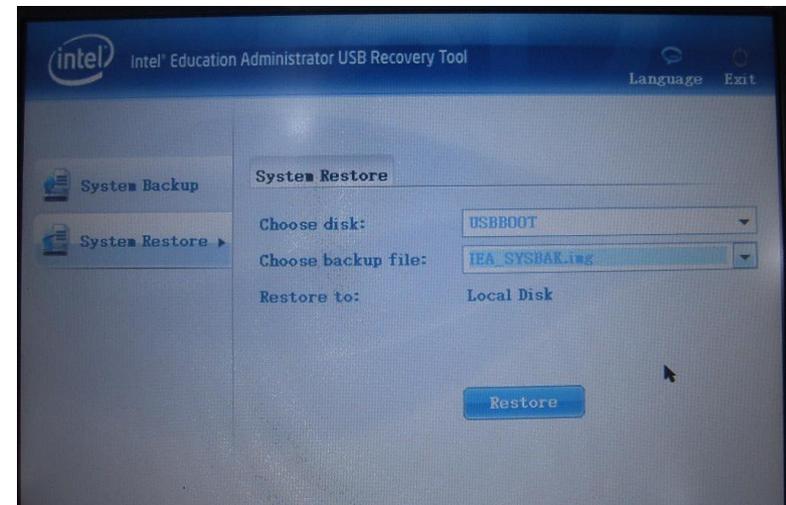
1. Plug in the USB recovery key and reboot the system. Press **F11** to get to the Boot Menu and then choose the “USB recovery key” as the boot device as shown in the figure below.

Note: this is only an example, the USB name will vary depending on your USB device.



2. The system will automatically boot to the Intel Education Administrator Pre-OS USB Recovery Tool after the reboot. Choose backup file and then press **Restore** to continue.

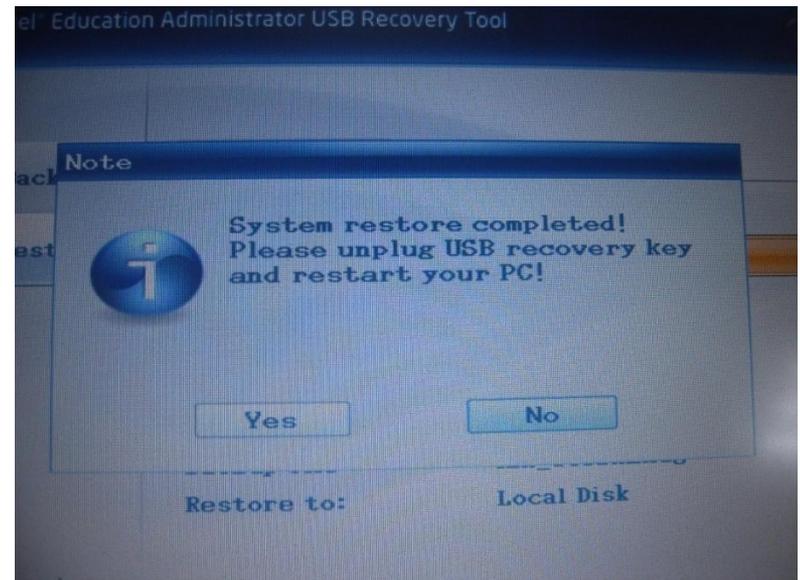
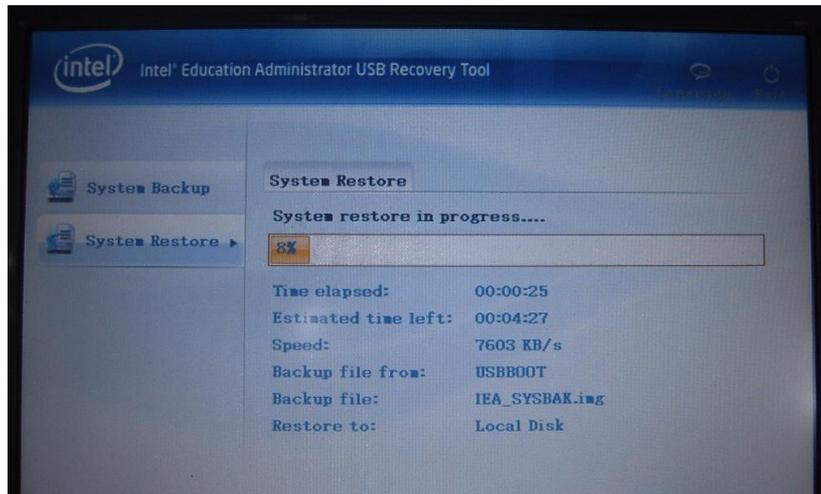
Note: Please make sure the image recovery file can only be located in the VEA directory.



How to Use System Image Recovery

Restore System:

3. Follow the default step, until you click **Yes** to complete the **system restore** section.



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