

Intel® One Boot Flash Update Utility User Guide

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Contents

Introduction	1
Running Intel® One Boot Flash Update	2
Command Line Syntax.....	2
Updating the Server from a Remote Client	3
Glossary	4

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Introduction

The Intel® One-Boot Flash Update (Intel OFU) Utility updates the System BIOS and firmware (BMC, FRU, and SDR) on a server while the operating system is running. The utility is launched from a command prompt. This utility can also update the optional Intel Local Control Panel firmware on Dual-Core Intel® Xeon® Processor-Based Servers from Intel.

This utility runs on all Operating Systems supported by Intel System Management Software unless otherwise noted in the Release Notes or the Supported Operating System list for your specific Intel server platform.

The FRU update takes effect immediately when the utility executes. The System BIOS, BMC, and SDR updates are programmed into their respective secondary flash areas and the utility sets an internal flag in the BIOS and BMC to indicate that the update occurred. After a system reset, the newer version of the System BIOS, BMC, and SDRs are validated and activated.

This utility can be executed remotely through a secure network connection using a Telnet Client and Terminal Services in Windows or using a Telnet Client and Remote Shell under Linux.

This version of the Intel OFU Utility is currently supported on the following Intel server boards:

- Intel Entry Server Board SE7221BK1-E
- Intel Server Board SE7320SP2
- Intel Server Board SE7320VP2
- Intel Server Board SE7520AF2
- Intel Server Board SE7520BD2
- Intel Server Board SE7520JR2
- Intel Server Board SE7525GP2
- Intel Server Platforms SR6850HW4, SR6850HW4M, SR4850HW4 and SR4850HW4M
- Intel Server Board S5000PAL
- Intel Server Board S5000PSL
- Intel Server Board S5000VSA

To find the latest Intel OFU update package for your server, refer to <http://support.intel.com/motherboards/server/>.

For installation instructions, refer to the separate installation instructions provided with the software, or, if you have a web-based distribution of the software, refer to the Readme file provided with the download.

Running Intel® One Boot Flash Update

The Intel OFU utility is run by executing the flashupdt command from a command prompt.

NOTES

In order to run this utility, you must first set the working directory to the directory where the utility is installed. This is required because the utility depends on certain files that are expected to be located in the working directory.

Intel OFU requires Windows administrative or Linux root permissions.

Command Line Syntax

Syntax:

```
flashupdt [-i] [-u < URL or path >] [-c] [-h|?]
```

Description:

Updates the System BIOS or firmware on the local server with the System BIOS or firmware specified in the Intel OFU configuration file provided with the update package.

Options:

[-i]	Displays the version information for the currently running System BIOS, BMC, and SDR. If the -i option is specified with the -u option, the utility displays the version information of the update package files.						
[-u]	<p>Performs the System BIOS and firmware update. The <URL or path> parameter specifies the location where the files required for the update are located. The value of <URL or path> can be a local file system path, an FTP server, or an HTTP server. Examples of using the -u option:</p> <table><tr><td>-u</td><td>Specifies the current local directory.</td></tr><tr><td>-u http://<IP address or URL>/<path></td><td>Specifies an HTTP server.</td></tr><tr><td>-u ftp://<login:password>@<server name or IP address>/<path></td><td>Specifies an FTP server.</td></tr></table> <p>If -u is used in conjunction with -i, no update is performed. Only the package information is displayed.</p>	-u	Specifies the current local directory.	-u http://<IP address or URL>/<path>	Specifies an HTTP server.	-u ftp://<login:password>@<server name or IP address>/<path>	Specifies an FTP server.
-u	Specifies the current local directory.						
-u http://<IP address or URL>/<path>	Specifies an HTTP server.						
-u ftp://<login:password>@<server name or IP address>/<path>	Specifies an FTP server.						
[-c]	Cancels all pending update operations of the BIOS, BMC and SDR that were performed using the utility. The utility resets the internal flags in the BIOS, BMC and SDR to cancel the update operation, whether there is one or not. FRU updates take effect immediately.						
[-h ?]	Displays command line help information.						

Syntax examples:

```
flashupdt -u ftp://ftp.examplesite.com/UpdatePackage/ServerName
```

```
flashupdt -u "ftp://ftp.examplesite.com/Update Package/Server Name"
```

```
flashupdt -u ftp://Kevin:87w09@ftp.examplesite.com/UpdatePackage/ServerName
```

For Windows:

```
flashupdt -u c:\UpdatePackage\ServerName
```

For Linux:

```
flashupdt -u /UpdatePackage/ServerName
```

Updating the Server from a Remote Client

This utility can be executed remotely via a secure network connection using a Telnet Client and Terminal Services in Windows, or using a Telnet Client and Remote Shell under Linux. See your operating system documentation for further information on remotely logging-in and executing commands.

Once you have logged-in remotely, you can use the syntax described above. This process can be scripted to allow remote updates of multiple servers.

Glossary

The following terms and abbreviations are used in this document:

Term	Description
BMC	Baseboard Management Controller
Firmware	In this document, firmware refers to the BMC, FRU, and SDR components
FRU	Field Replaceable Units (a file used by the firmware to describe system components)
IPMI	Intelligent Platform Management Interface
SDR	Sensor Data Records