



Lenovo XClarity Essentials Bootable Media Creator Readme



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About Lenovo XClarity Essentials Bootable Media Creator

Users can use Lenovo XClarity Essentials Bootable Media Creator (hereinafter referred to as BoMC) to create bootable media suitable for firmware updates, VPD updates, inventory and FFDC collection, advanced system configuration, FoD Keys management, and diagnostics on supported ThinkSystem, System x, BladeCenter systems, and storage platform.

Using BoMC, users can create a single bootable image on supported media (such as CD, DVD, ISO image, USB flash drive, or set of PXE files) that bundles multiple ThinkSystem, System x, and BladeCenter systems updates from UpdateXpress System Packs containing firmware update packages. From V11.4.0, BoMC supports users to update firmware on supported storage platforms through bootable ISO. From V11.5.1, BoMC supports users to create a full (all-in-one) bootable image for full management function, including firmware update, VPD update, inventory and FFDC collection, advanced system configuration, FoD Keys management, diagnostics, RAID configuration, and secure erase.

Important: Device drivers are not included in the bootable image and must be updated separately.

BoMC can acquire the latest bootable environment, UpdateXpress System Pack, individual updates, and other required components from the local system. You can also download these components from the Lenovo Web site. You can use an HTTP proxy server when connecting to the Lenovo Web site. The server shall support SSL.

You can run only one instance of Bootable Media Creator on a system at a time, whether it is started from the graphical or command-line interface.

You must have administrator or root-equivalent operating-system privileges to use Bootable Media Creator.

Information resources

You can find additional information about Lenovo XClarity Essentials Bootable Media Creator in the product documentation and on the World Wide Web.

Documentation

The following documentation resource provides additional information about Lenovo XClarity Essentials Bootable Media Creator.

Publications

[Lenovo Bootable Media Creator \(BoMC\) User Guide](#)

Use this Web site to download the most up-to-date version of *Lenovo Bootable Media Creator Installation and User Guide*.

Web resources

These Web sites provide additional resources for the System x and IBM BladeCenter products.

Web sites

- [Bootable Media Creator \(BoMC\) for Lenovo x86 servers](#)

Use this Web site to download the Lenovo XClarity Essentials Bootable Media Creator tool and documentation.

- [Lenovo XClarity Essential website](#)

Use this Web site to download tools that support ThinkSystem, System x, and BladeCenter products.

These Web sites provide information about product compatibility and support, warranties and licenses, and various technical resources:

- [Lenovo BladeCenter Support products and services](#)
- [Lenovo Server Proven](#)
- [Lenovo Server and Storage Resource Library](#)

Forums

Use these Web sites to learn about various forums that are available to discuss technology-related and product-related issues pertaining to ThinkSystem, System x, and BladeCenter hardware and software products. These Web sites include links for obtaining the forums using Rich Site Summary (RSS) feeds.

- [ThinkSystem Forum Web site](#)
- [System x Forum Web site](#)
- [BladeCenter Forum website](#)

Installation and upgrade information

Complete installation instructions, including supported hardware, operating systems and bootable media, such as USB keys, are provided in the ToolsCenter for Lenovo x86 Servers Information Center information center on the Web at publib.boulder.ibm.com/infocenter/toolsctr/v1r0/topic/bomc/bomc_t_installing_bomc.htmlpublib.boulder.ibm.com/infocenter/toolsctr/v1r0/topic/bomc/bomc_t_installing_bomc.html.

System Enablement Pack (SEP) for ToolsCenter provides an update to existing ToolsCenter tools by providing a collection of files and utilities to support a specific set of machine types until the next version of the tools is released.

To add support for new machine types, use the **Update Support List** function of the Bootable Media Creator to update the support list from the IBM web site with the systems listed in the support list page. When the tool creates bootable media from the IBM site, it acquires the required SEPs for the supported systems and includes them in the created media. This is the preferred method of applying SEP.

You can also manually download the SEP files from "<http://www.lenovo.com/support>" on page and place them in your working directory before running the tool to create your media. The file to download depends on the purpose of your image:

ibm_utl_sep_3.0x_winpe*

for ServerGuide deployment boot images.

ibm_utl_sep_3.0x_windows*

for Update images, including deployment and update.

ibm_utl_sep_3.0x_anyos*

for diagnostic and update boot media.

Known limitations, problems, and workarounds

This section describes limitations, problems, and workarounds that are applicable to Lenovo XClarity Essentials Bootable Media Creator.

Limitations and problems

The following limitations and problems are applicable to Lenovo XClarity Essentials Bootable Media Creator.

When specifying the certificate for custom proxy/URL security configuration in the process of running BoMC under Linux, if users click Browse for the second time, the browse window might not be displayed on the BoMC interface.

On the Network Access page, select **HTTPS** in the **Proxy Type** drop-down list, select **Custom proxy security configuration** and **Custom URL security configuration**, and click **Browse...** to specify the certificate for both selection. When users click Browse for the second time, the browse window might not be displayed.

Workaround: Do one or more of the following:

- Manually switch to the browse window in the background.
- Adjust the window size to view the browse window in the background.
- Use BoMC on Windows instead.

Fail to run BoMC with core dump on SLES 12.x OS when issuing sudo BoMC binary.

On SLES 12.x, run `su root` to switch to root account, and then run BoMC binary.

Intel VROC Integrated Caching cannot be configured or displayed with BoMC created ISO.

Run OneCLI instead.

BoMC does not support to save log to USB drives with NTFS format and only support FAT32 format.

Before saving log to USB drive, please format it to FAT32 format first.

BoMC does not support to display “installed version” of some options on ThinkSystem SR635 and ThinkSystem SR655.

In the “Installed Version” column, “Adapter Discovered” is displayed for options detected on the server, and “Undetected Device” is displayed for options undetected on the server. To update the firmware, select the option, click **Next**, and follow the wizard to complete the update process.

All BoMC paths must use standard English-language alphanumeric characters

All BoMC paths must use standard English-language alphanumeric characters and must not include spaces, special characters, or non-English language characters.

Only TFTP server running on Linux OS is supported when creating a PXE directory with BoMC.

If you are creating a PXE directory with BoMC, only a TFTP server running on a supported version of Linux OS can be used.

Workarounds

The following workarounds are applicable to Lenovo XClarity Essentials Bootable Media Creator.

By default, the secure erase feature is not supported by the on-board SATA disks on ThinkSystem SR635 and ThinkSystem SR655.

The status of on-board SATA disks is “frozen” by default on ThinkSystem SR635 and ThinkSystem SR655, so they cannot be directly erased. To perform secure erase on the on-board SATA disks, users should change the settings of TPM physical presence jumper first, and then BoMC will try to set the on-board SATA disks to “unfrozen” status by changing the UEFI/XCC settings. After booting the server to Maintenance OS next time, the status change will take effect. For more information about the system board jumpers, go to [ThinkSystem Documentation](#), search your server model, and then click **Server components** → **System board jumpers**.

The keyboard does not work when confirming to exit bootable media

After booting a system with bootable media created using Bootable Media Creator, when you select to exit the program, you are prompted to confirm the exit action. The keyboard cannot be used to confirm the exit action.

Use the mouse to confirm the exit action.

cygwin1.dll conflict

Bootable Media Creator ships the `cygwin1.dll` (version 1.5.24, renamed to `cygwinz.dll`), which is required by the `mkisofs.exe` and `cdrecord.exe` utilities. The cygwin DLL does not support multiple versions running at the same time. You must exit all other applications that depend on `cygwin1.dll` before running Bootable Media Creator on a Microsoft Windows system.

USB flash drives that are used by Linux are not recognized by Windows

To enable Microsoft Windows to recognize the USB flash drive for Bootable Media Creator on a Windows system, format the USB flash drive on a Linux system to *FAT32* file format using the `mkdosfs` utility. For example: `mkdosfs -I -F 32 /dev/sdb`.

Failure when burning created ISO files to CD/DVD, or created CD/DVD fails to boot

If you are unable to burn created ISO files to CD or DVD media, or if the CD or DVD you have created fails to boot, try using an alternative media writing software or use a different brand and type of media.

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