XClarity Essentials Bootable Media Creator

Introduction to BoMC, how-to instructions, and text-mode examples

Lenovo

What is Bootable Media Creator?

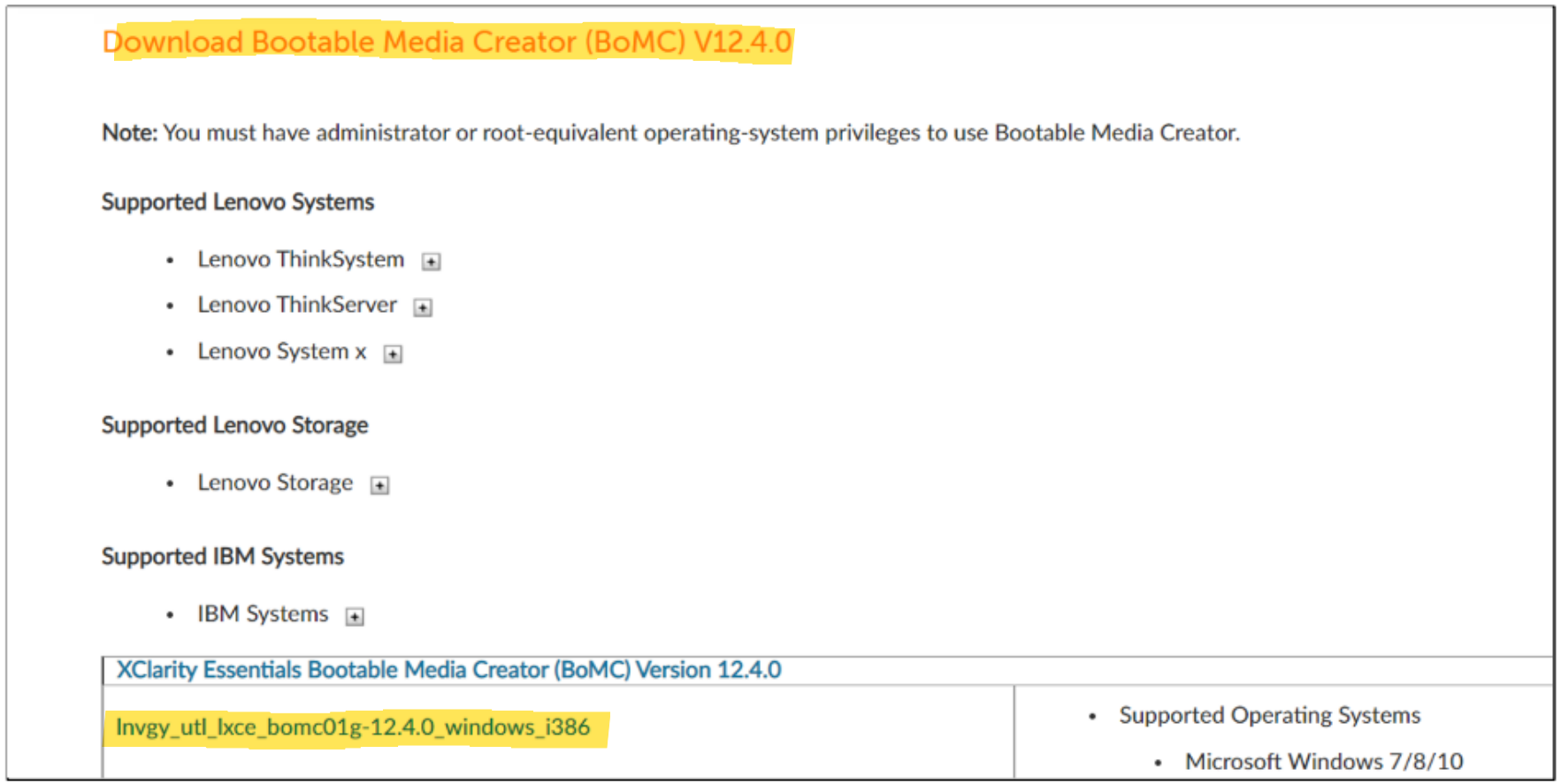
Bootable Media Creator (BoMC) is a utility that can create bootable media to apply firmware updates offline.

Unlike previous versions, the bootable media creator does not support preboot diagnostic and operating system deployment function images for ThinkSystem servers, but this function is still supported for System x servers.

BoMC is available both as a GUI interface or a command-line interface.

Downloading BoMC

BoMC can be downloaded from Lenovo Support at
https://datacentersupport.lenovo.com/tw/zh/solutions/lnvo-bomc



Download Bootable Media Creator (BoMC) V12.4.0

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

Supported Lenovo Systems

- Lenovo ThinkSystem
- Lenovo ThinkServer
- Lenovo System x

Supported Lenovo Storage

- Lenovo Storage

Supported IBM Systems

- IBM Systems

XClarity Essentials Bootable Media Creator (BoMC) Version 12.4.0	
lnvgy_utl_lxce_bomc01g-12.4.0_windows_i386	• Supported Operating Systems • Microsoft Windows 7/8/10

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How to create bootable media with the BoMC GUI

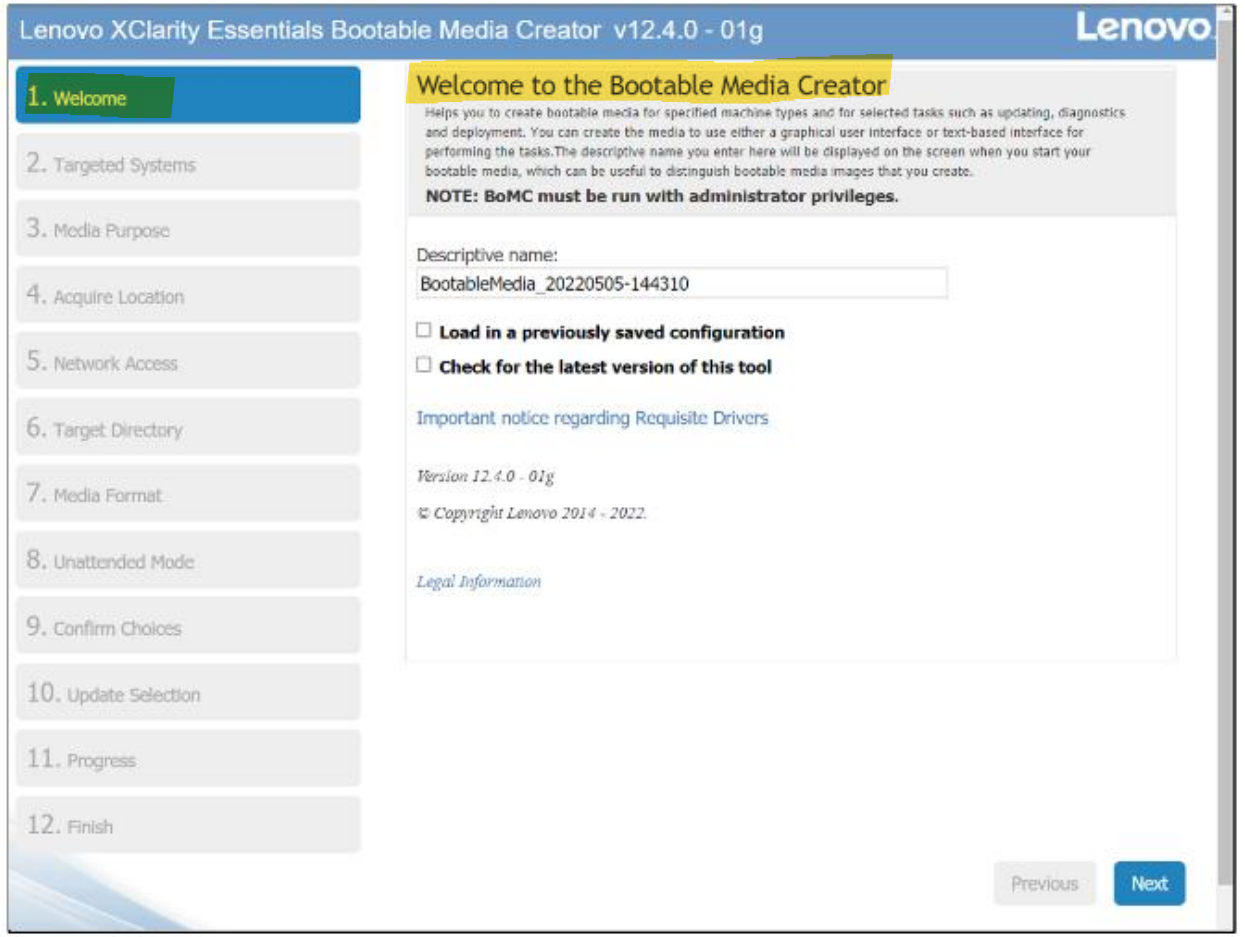
Work through the following procedure to create a bootable media for a ThinkSystem server with the GUI-based BoMC utility.

Click each number in turn to see the procedure.

Step 1 2 3 4 5 6 7 8 9 10

How to create bootable media with the BoMC GUI

After downloading the LXCE BoMC utility from Lenovo Support, run it directly (no installation is required). When the welcome page is displayed, click **Next** to continue.



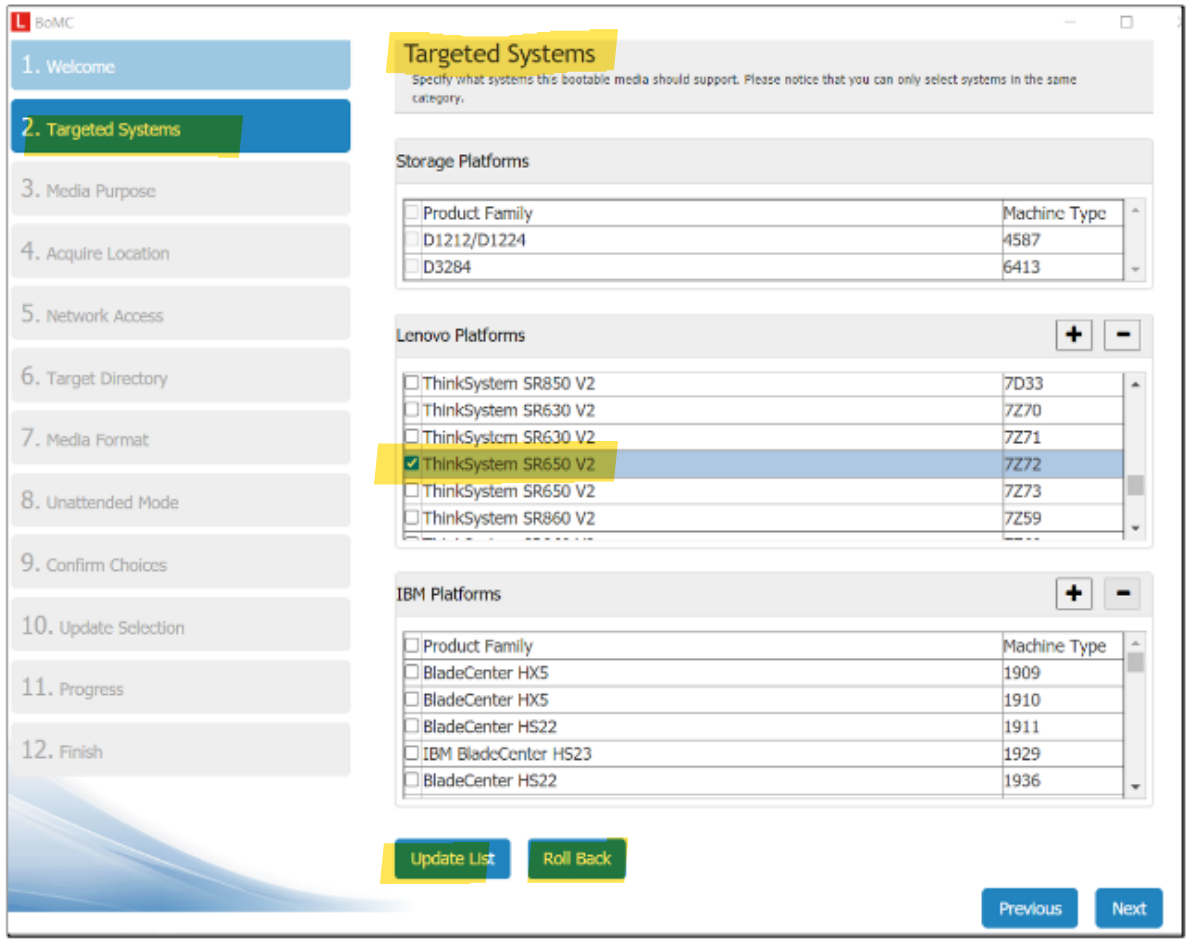
Step 1 2 3 4 5 6 7 8 9 10

How to create bootable media with the BoMC GUI

Select one or more ThinkSystem servers. A single bootable image can support multiple target machine types.

The **Update List** button updates the system support list. The **Rollback** button rolls back to the original system support lists.

After making a selection, click **Next** to continue.



Step 1 2 3 4 5 6 7 8 9 10

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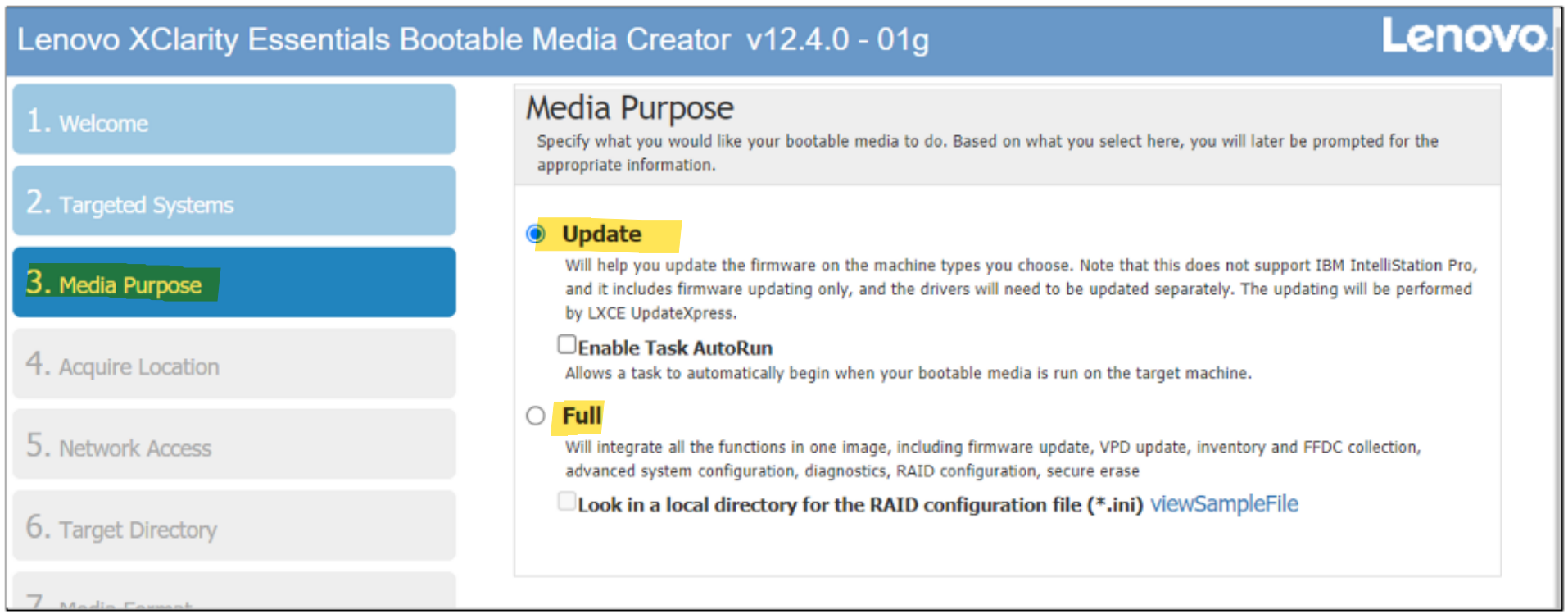
How to create bootable media with the BoMC GUI

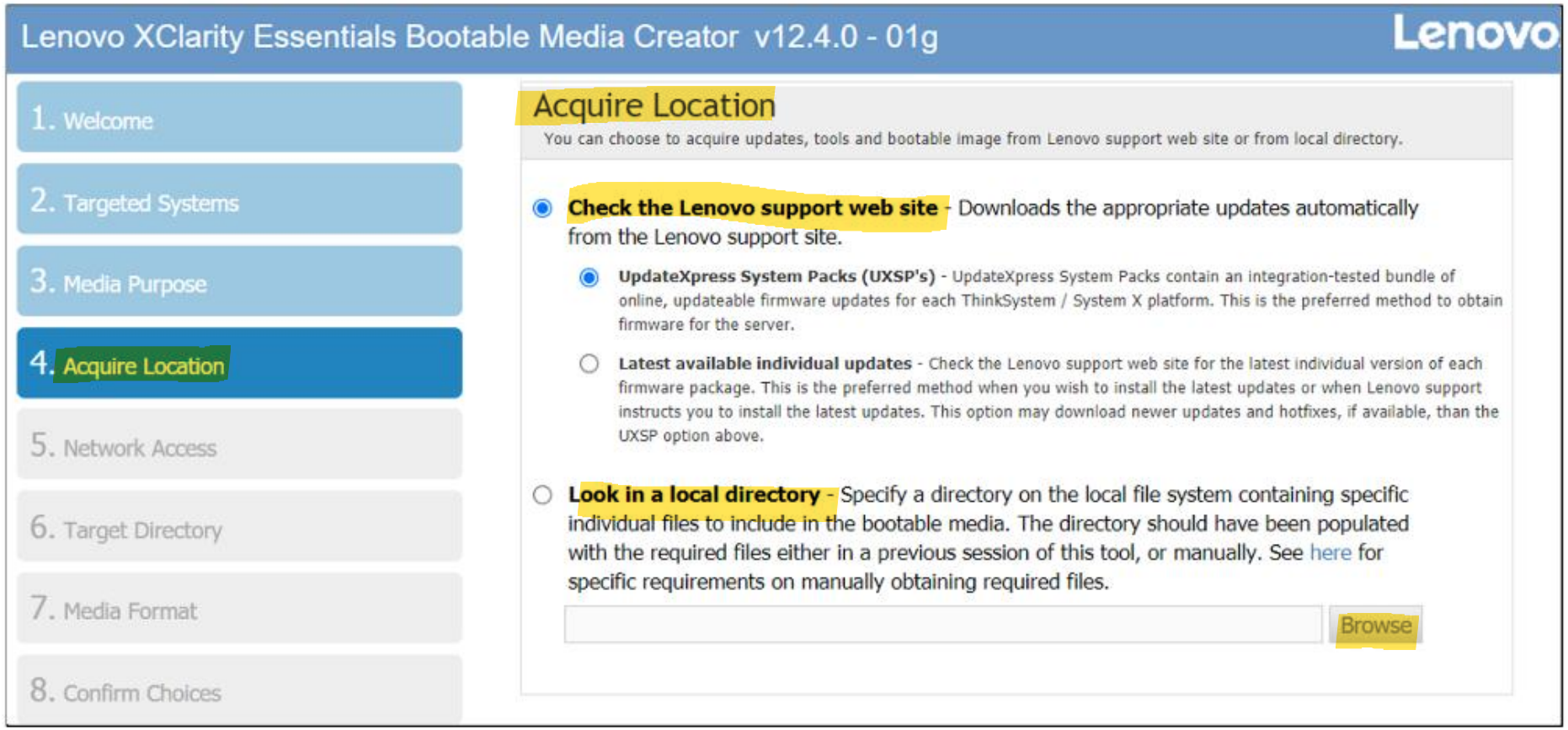
Select the **Media Purpose**. You can create the BoMC package with firmware updates only, or the full package with firmware updates, VPD updates, inventory and FFDC collection, advanced system configuration, diagnostics, RAID configuration, and secure erase features.



Step 1 2 3 4 5 6 7 8 9 10

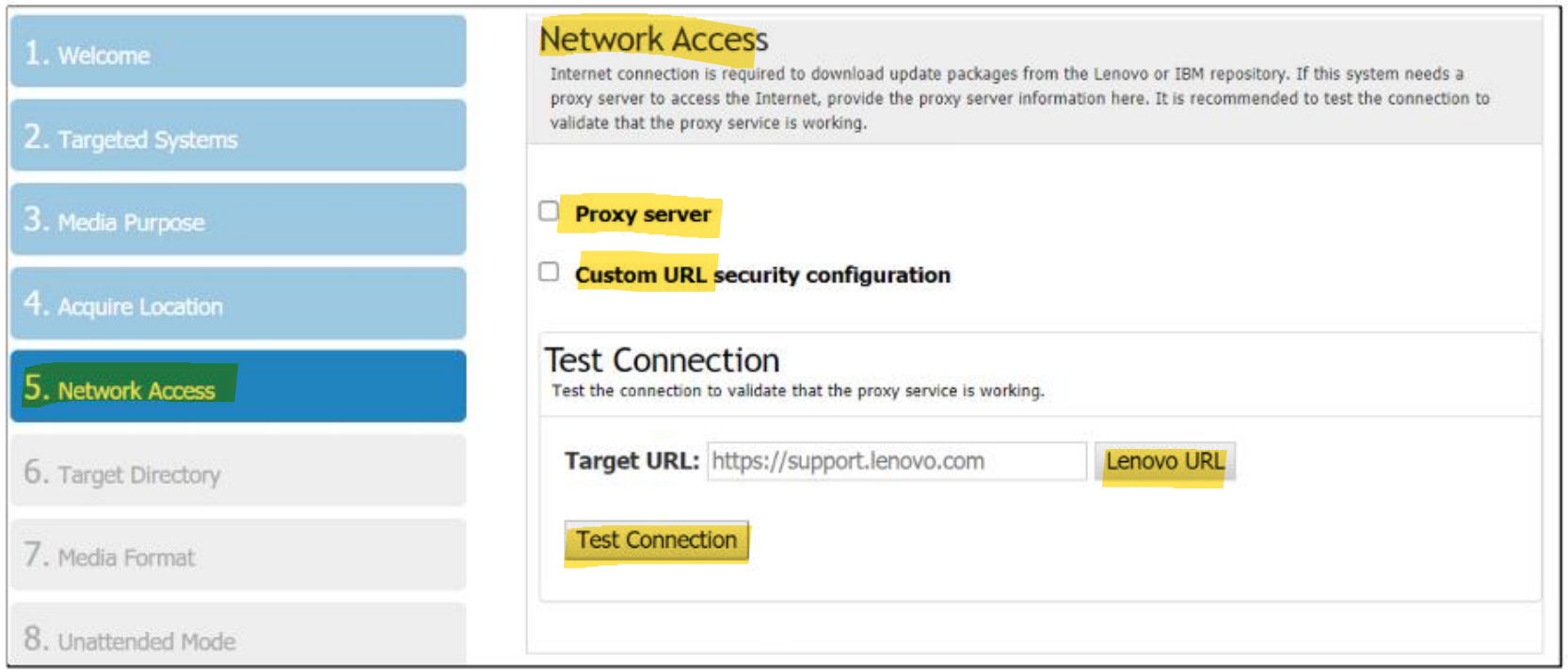
How to create bootable media with the BoMC GUI

Follow the instructions to select the location from which you want to acquire files for the BoMC package.



How to create bootable media with the BoMC GUI

If necessary, set up a proxy server or custom URL security configuration to download update packages.



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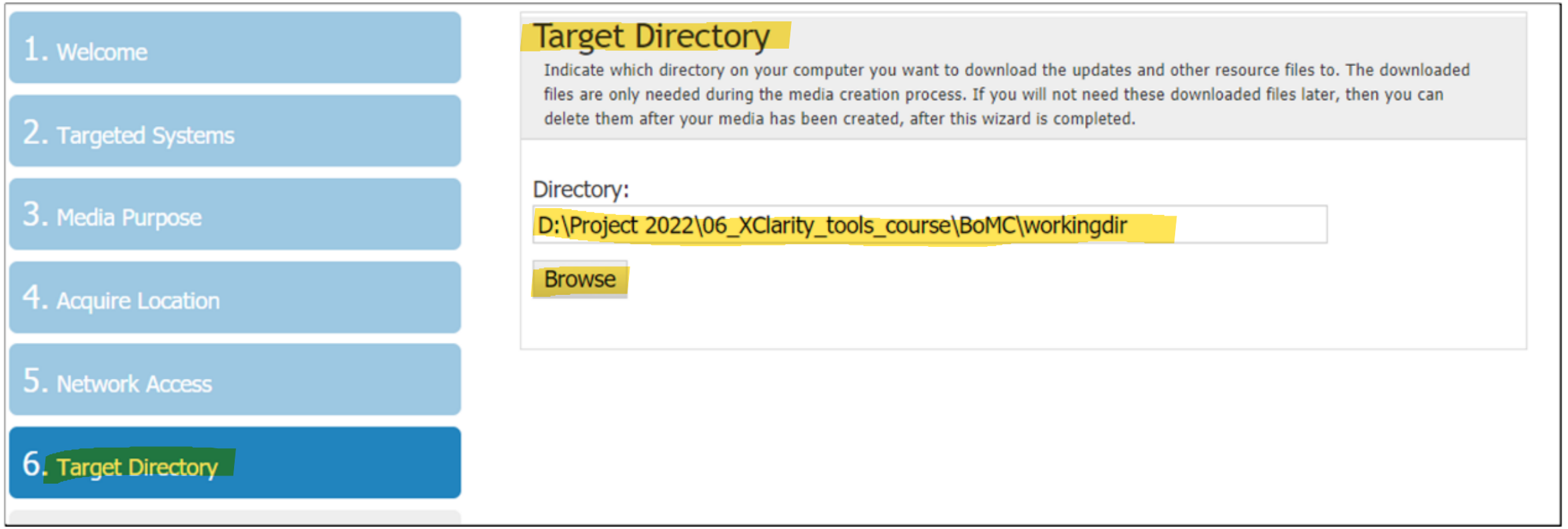
How to create bootable media with the BoMC GUI

Select the target directory for the updates and other resources files.



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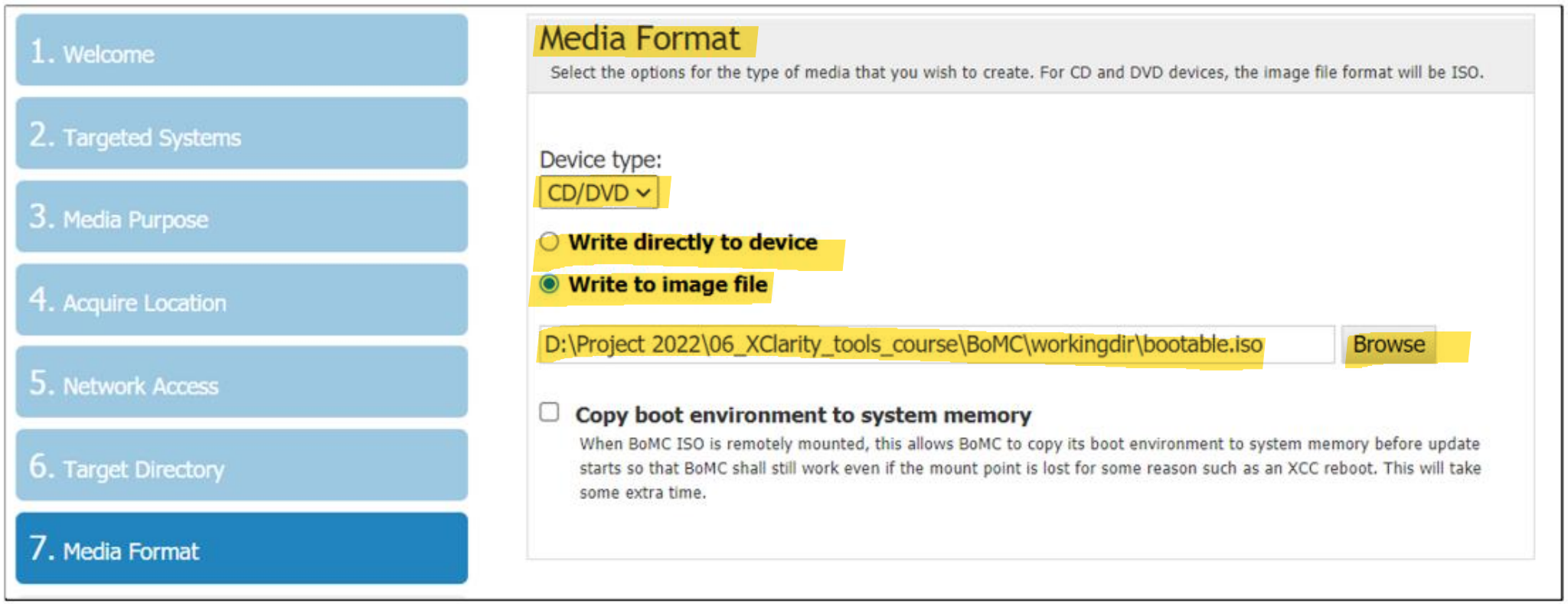
How to create bootable media with the BoMC GUI

Select the format you want to use for the creation of the BoMC package.



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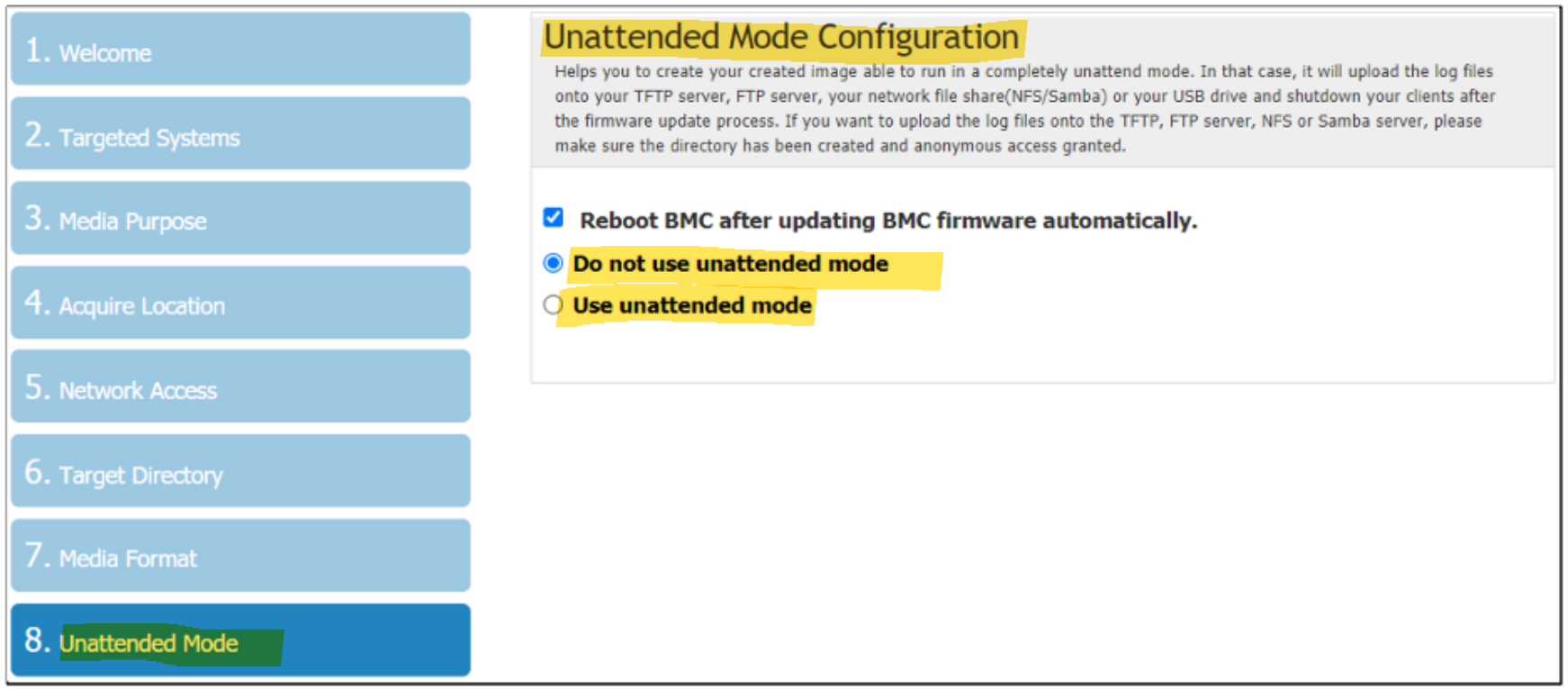
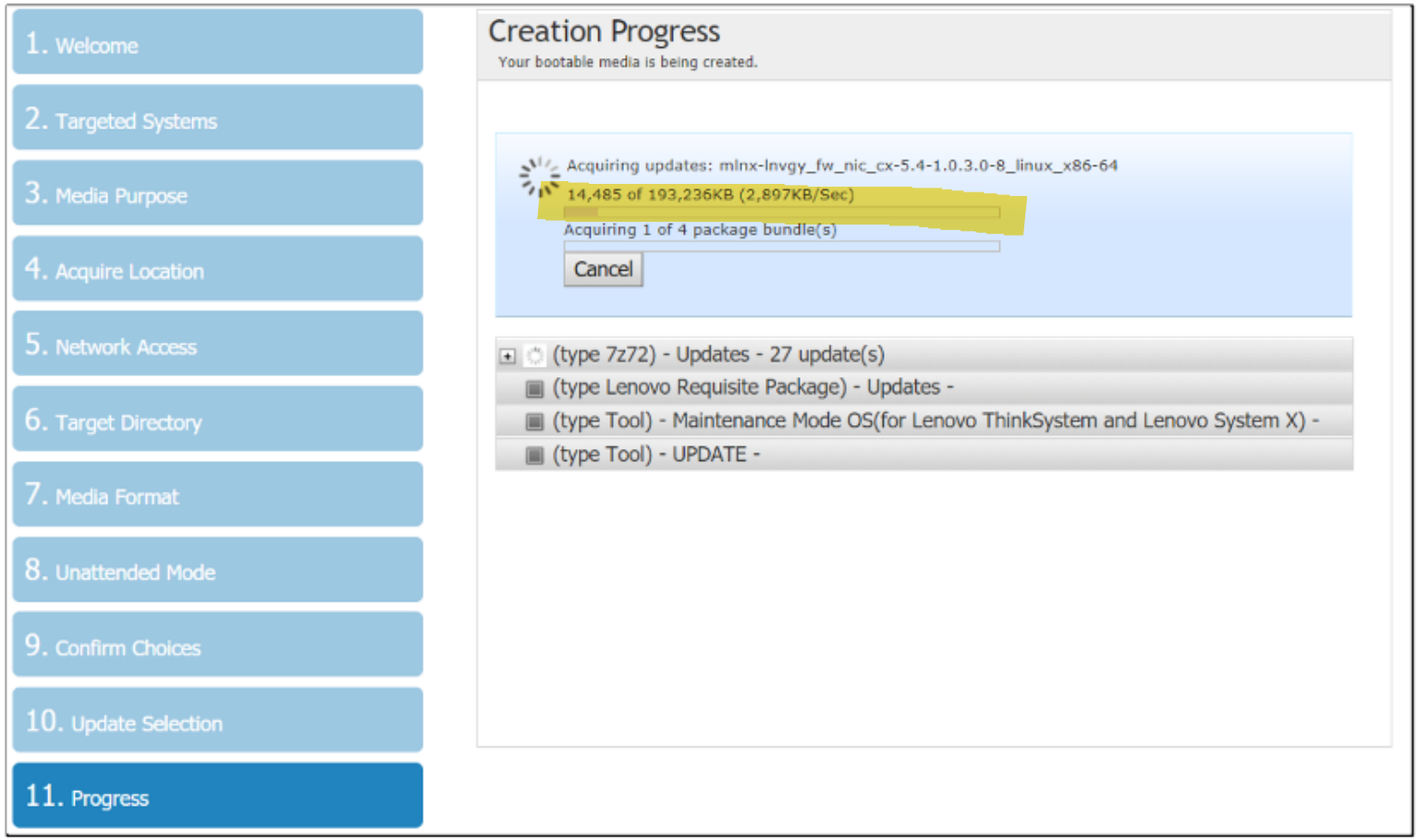
How to create bootable media with the BoMC GUI

If you selected **Update** on the **3. Media Purpose** screen, you can choose to use the unattended mode for the BoMC package. Refer to the description on the BoMC screen for more information about the unattended mode.



How to create bootable media with the BoMC GUI

You can review your choices on the **9. Confirm Choices** screen and update your selection on the **10. Update Selection** screen. BoMC will start downloading the update files on the **11. Progress** screen.



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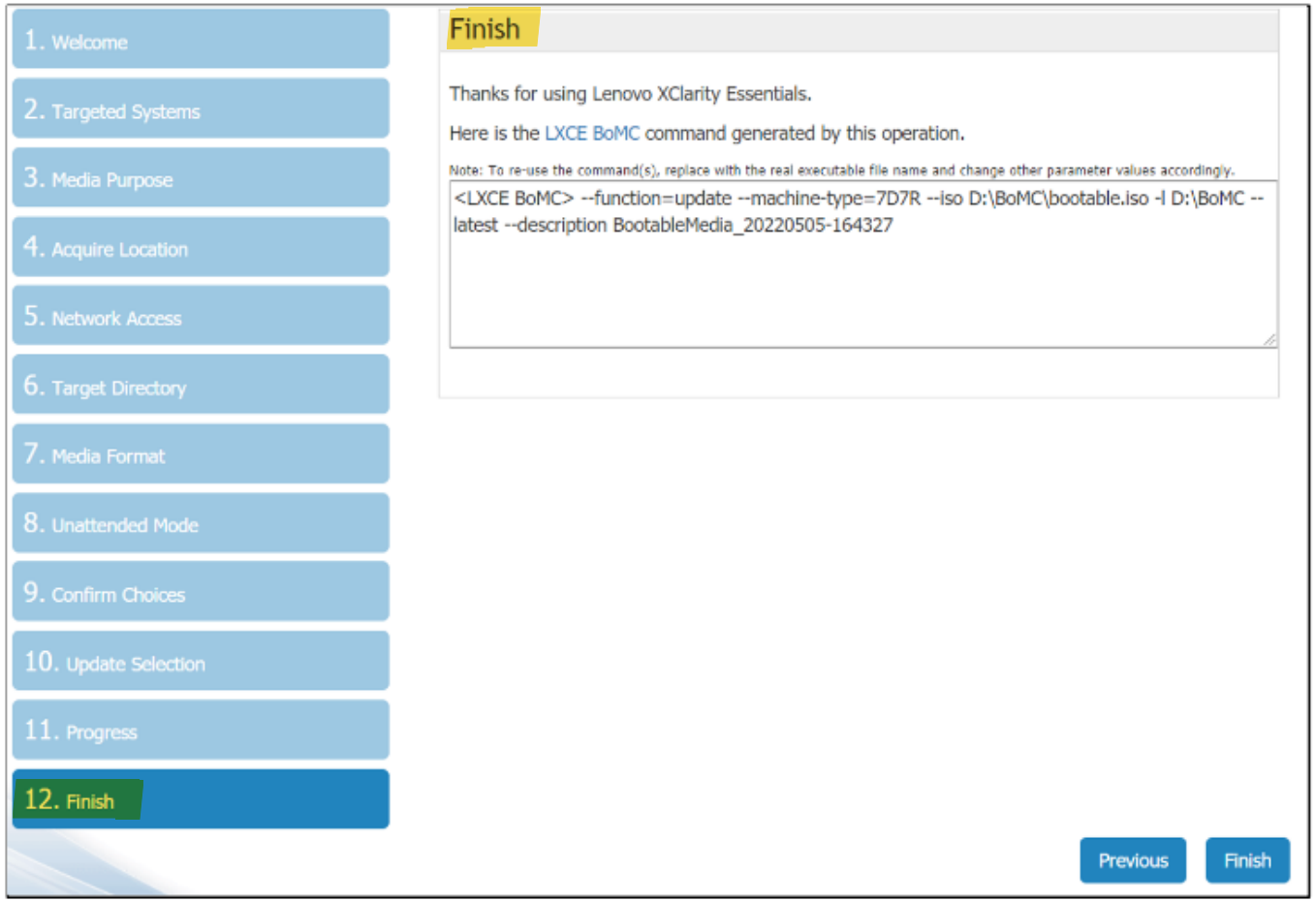
How to create bootable media with the BoMC GUI

The bootable media creation process is complete. Click **Finish** to close the utility.



Step 1 2 3 4 5 6 7 8 9 10

How to create bootable media with BoMC CLI mode

To create a bootable image to perform software updates using BoMC CLI mode, open a command prompt or terminal and navigate to the BoMC root directory.
Click the different options on the left to see the commands used to perform bootable image creation.

Check for a new version of BoMC

Create a bootable image using an HTTP proxy

Create a bootable image on a USB device

Create a bootable image using local files

Create a bootable image that supports all ThinkSystem servers

For Windows

```
lnvgy_utl_bomc_<version>_windows_i386.exe --check-update --report
```

For Linux

```
./lnvgy_utl_bomc_<version>_slesXX_i386.bin --check-update --report
```

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- Create a bootable image using local files
- Create a bootable image that supports all ThinkSystem servers

For Windows

```
lnvgy_utl_bomc_<version>_windows_i386.exe --function=update --machine-type=<machine type>
-l <working directory> --iso=<output filename.iso> --proxy-address=<proxy ip address>
--proxy-port=<proxy port> --proxy-user=<username> --proxy-password=<password>
```

For Linux

```
./lnvgy_utl_bomc_<version>_slesXX_i386.bin --function=update --machine-type=<machine type>
-l <working directory> --iso=<output filename.iso> --proxy-address=<proxy ip address>
--proxy-port=<proxy port> --proxy-user=<username> --proxy-password=<password>
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For Windows

```
lnvgy_utl_bomc_11.0_windows_i386.exe --function=update --
machine-type=<machine type>
--usbkey=<USB drive letter> -l <working directory>
```

For Linux

```
./lnvgy_utl_bomc_<version>_slesXX_i386.bin --function=update --
machine-type=<machine type>
--usbkey=<USB drive letter> -l <working directory>
```

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For Windows

```
lnvgy_utl_bomc_11.0_windows_i386.exe --function=update --
machine-type=<machine type>
-l <working directory> --iso=<output filename.iso> --no-acquire
```

For Linux

```
./lnvgy_utl_bomc_<version>_slesXX_i386.bin -function=update --
machine-type=<machine type>
-l <working directory> --iso=<output filename.iso> --no-acquire
```

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For Windows

```
lnvgy_utl_bomc_11.0_windows_i386.exe --function=update --
machine-type=all-thinksystem
-l <working directory> --iso=<output filename.iso>
```

For Linux

```
./lnvgy_utl_bomc_<version>_slesXX_i386.bin --function=update --
machine-type=all-thinksystem
-l <working directory> --iso=<output filename.iso>
```

BoMC full-functional ISO image

With BoMC version 12 or later, users can create a full-functional BoMC ISO image, which integrates the following functions into one ISO image:

- Firmware updates
- VPD updates
- Collecting inventory information and FFDC logs
- Configuring RAID
- Advanced system configuration
- Managing Features on Demand (FoD) keys
- Secure erase

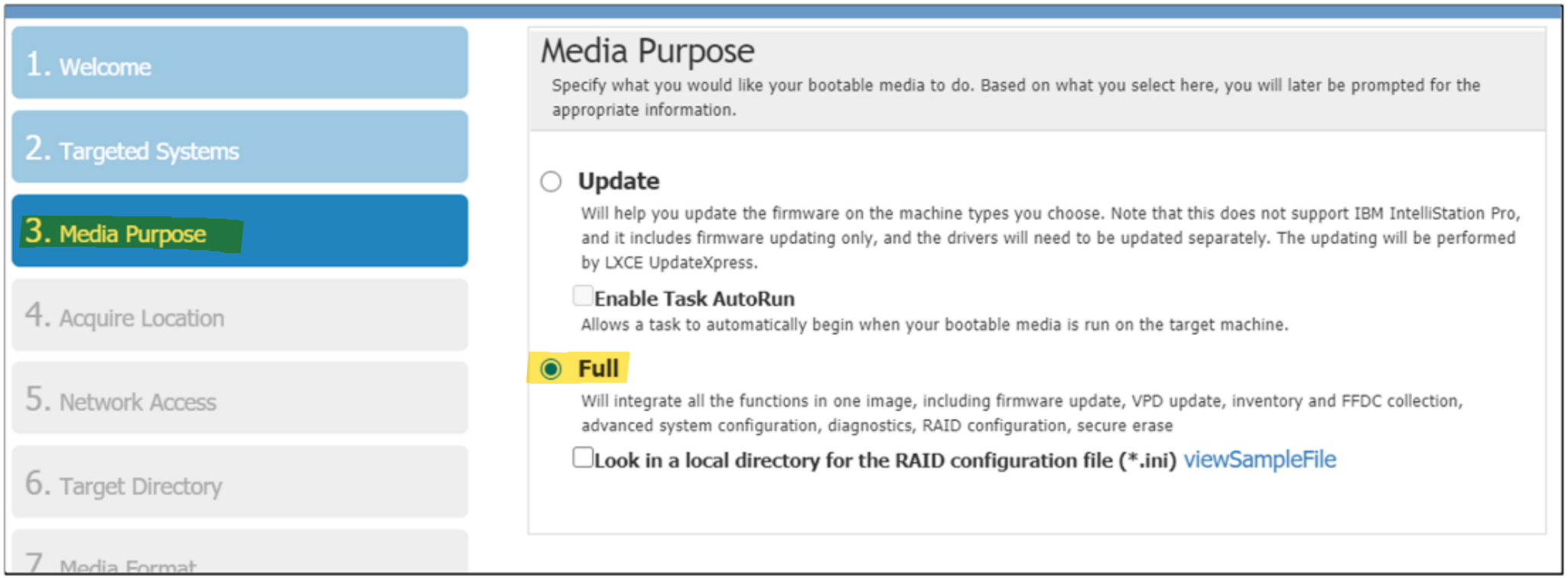
The full-functional BoMC ISO image function applies to all ThinkSystem or System x servers which can support BoMC – it's not just for ThinkSystem V2 servers. Use BoMC v12.0.1 or later for ThinkSystem V2 servers.

Click each number in turn to see the procedure.

Step 1 2 3

BoMC full-functional ISO image

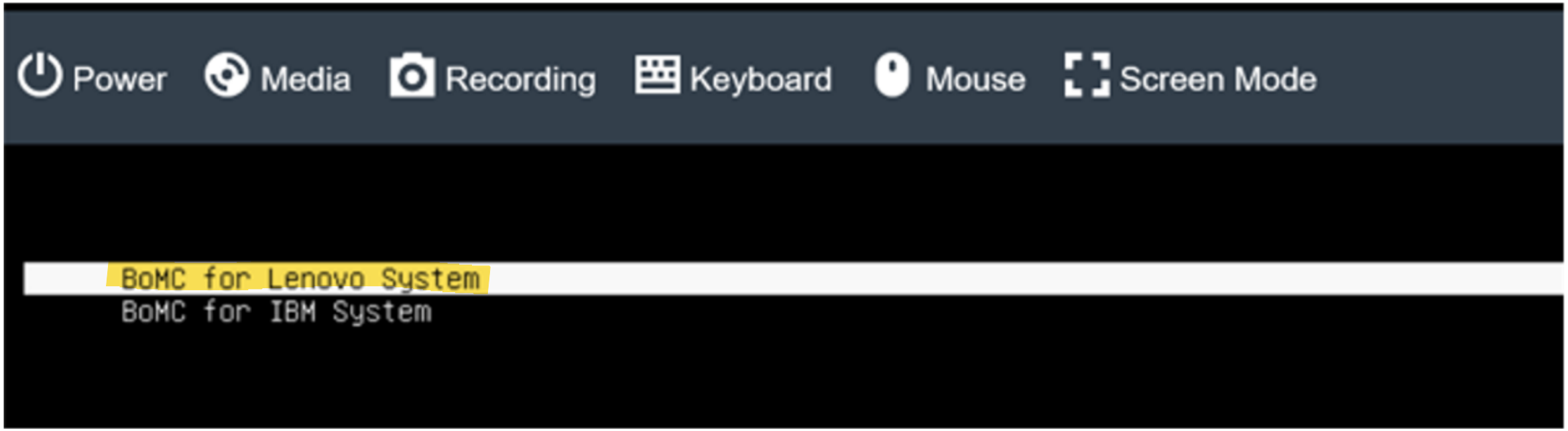
Download and run BoMC. Select **3. Media Purpose** and then **Full** to create the full-functional BoMC ISO image.



Step 1 — 2 — 3

BoMC full-functional ISO image

After creating the ISO image, use it to boot the system. A BoMC for Lenovo or IBM system selection will be displayed. To continue, select the system type you are using.



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BoMC full-functional ISO image

A text-based user interface will be displayed. To select one of the functions, enter the corresponding number.