

# ThinkSystem I/O Adapter Initial Update Procedures

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The following I/O adapters were released before ThinkSystem servers were available, but these adapters are supported in ThinkSystem servers.

- QLogic 16Gb FC Single-port HBA
- QLogic 16Gb FC Dual-port HBA
- Emulex VFA5.2 2x10 GbE SFP+ PCIe Adapter
- Emulex VFA5.2 2x10 GbE SFP+ Adapter and FCoE/iSCSI SW
- Emulex VFA5.2 ML2 Dual Port 10GbE SFP+ Adapter
- Flex System CN4052S 2-port 10Gb Virtual Fabric Adapter
- Flex System CN4054S 4-port 10Gb Virtual Fabric Adapter
- Emulex 16Gb FC Single-port HBA
- Emulex 16Gb FC Dual-port HBA
- Intel X710-DA2 ML2 2x10GbE SFP+ adapter

Because these adapters were available before the ThinkSystem servers, the firmware on these adapters do not support all of the functionality of the Lenovo management tools for ThinkSystem servers. Therefore, these adapters must be updated one time to the base level of firmware that is supported for the ThinkSystem product family.

The following update procedures are available, some of which may contain minor variations of the typical firmware update mechanisms.

**Note:** These procedures are one-time procedures. After the adapters are updated to the base level of firmware supported by the ThinkSystem product family, existing update methods can be used for any future updates.

## Manual In-band Update Package Execution

If an operating system is installed on the ThinkSystem server, manual execution of the individual update packages can be performed in-band within the host operating system. The procedure listed here is the typical procedure used for manual in-band updates.

1. Download the appropriate UpdateXpress package from the Lenovo Support website.
  - a. Go to:  
<https://datacentersupport.lenovo.com>
  - b. Navigate to the ThinkSystem server into which the adapter is installed.
  - c. Click Drivers & Software to find the appropriate UpdateXpress package.
2. Copy the downloaded binary to the host.
3. Manually run the binary with the -s parameter. Example:  

```
./qlgc-lnvgy_fw_fc_1.90.39-2690-2742.f_linux_x86-64.bin -s
```
4. When the update completes, reboot the server.

## Forced In-band Update using XClarity Essentials OneCLI

If an operating system is installed on the ThinkSystem server, you can use XClarity Essentials OneCLI to force a firmware update even though the adapter is not detected.

1. Download the appropriate UpdateXpress package from the Lenovo Support website.
  - a. Go to:  
<https://datacentersupport.lenovo.com>
  - b. Navigate to the ThinkSystem server into which the adapter is installed.
  - c. Click Drivers & Software to find the appropriate UpdateXpress package.
2. Download XClarity Essentials OneCLI.  
<https://datacentersupport.lenovo.com/us/en/solutions/Invo-tcli>
3. Copy the package binary, package XML, and OneCLI tool to the host.
4. Run XClarity Essentials OneCLI with the `--forceid` parameter specifying that the adapter update should be force-installed even if the adapter is not detected by XClarity Essentials OneCLI.

Example with update package in `/updates/` directory:

```
./OneCli update flash --scope latest --dir /updates/  
--forceid qlgc-lnvgy_fw_fc_1.90.39-2690-2742.f_linux_x86-64
```

5. When the update completes, reboot the server.

## Manual Update using Bootable Media Creator (BoMC)

You cannot install updates using BoMC in unattended mode. However, you can manually run BoMC and select the update to be installed.

1. Download the appropriate BoMC utility from the Lenovo Support website  
<https://datacentersupport.lenovo.com/us/en/solutions/Invo-bomc>
2. Run the BoMC utility and follow the instructions to create a bootable image containing the necessary updates.  
**Important:** Do **not** select the option for 'Unattended Mode'.
3. Boot to the generated BoMC image.
4. Follow the on-screen prompts until the list of available updates is displayed. If the adapter was not detected, the update won't be selected. Check the box next to the appropriate update to force an upgrade, even though the adapter is not detected.
5. When the update completes, reboot the server.

## Forced Update using Lenovo XClarity Administrator

If the ThinkSystem server is managed from Lenovo XClarity Administrator, you can force updates to the adapter even if the adapter is not detected.

1. On the Firmware Updates: Apply/Activate page, click the **All Actions** button and then select **Global Settings**.
2. Enable the setting for "Enhanced Support for Down-Level Devices" and click **OK**.
3. After enabling the above option, a new entry should be listed with the adapter name in the 'Device' column and "Other Available Package" in the 'Installed Version' column.

SlotDesign9_Slot 8	Unassigned / Un...	Unidentified	
Intel X722 LOM	Unassigned / Un...	1.1638.0 / 800009FC	Do not update
Disk Drive Update Program	Unassigned / Un...	Firmware Not Detected	Do not update
<input checked="" type="checkbox"/> CLogic Fibre Channel HBA Firmw...	Unassigned / Un...	Other Available Package	qlog-invgy_fw_fc_1.90.39-2090-2...

Check the box next to this entry and click the **Perform Updates** button.

4. When the update completes, XClarity Administrator automatically reboots the server.