Static Bundle on ThinkSystem V4 servers

Formerly known as UXSP
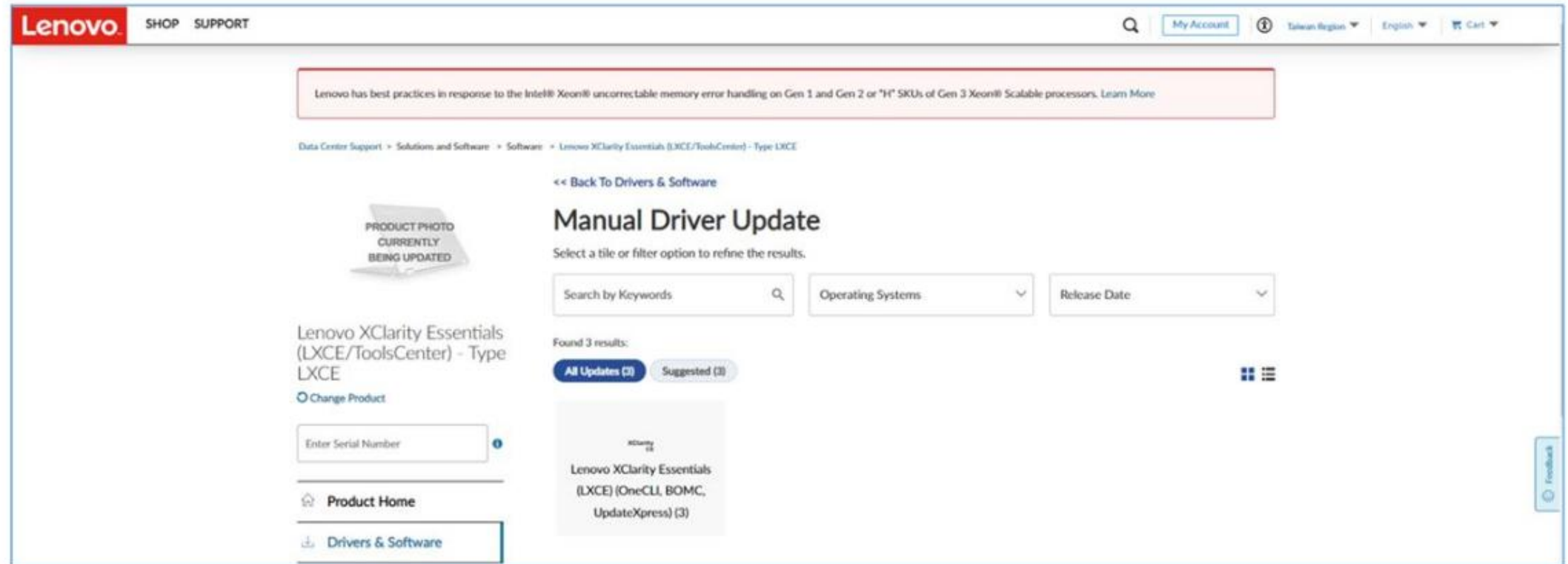
Lenovo

UXSP - Static Bundle

Starting with the release of the BHS platform, UpdateXpress System Pack (UXSP) will be known as Static Bundle or Update Bundle. From a service perspective, the procedure used to download Static Bundle with LXCE on ThinkSystem V4 servers has not changed.
LXCE download link:

Lenovo XClarity Essentials (LXCE/ToolsCenter) - Type LXCE

LXCE acquisition for Static Bundles

Use the following OneCLI command to get the Static Bundles for a specific model:

`OneCli.exe update acquire --ostype platform --mt xxxx,xxxx,xxxx --dir C:\pkg`

Sample command:

`lnvgy_utl_lxceb_onecli02a-4.4.1_winsrv_x86-64.exe update acquire --mt 7d7a --scope uxsp --ostype platform --dir platform`

```
lnvgy_utl_lxceb_onecli02a-4.4.1_winsrv_x86-64.exe update acquire --mt 7d7a --scope uxsp --ostype platform --dir platform
```

LXCE file name

Specific model 7d7a

To download UXSP static bundles for all OS platforms

Click the button to see the sample output

LXCE command

Note: Refer to the LXCE user guide for more command line details.

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LXCE acquisition for Static Bundles

LXCE acquisition for Static Bundles

```
C:\>lnvgy_utl_lxceb_onecli02a-4.4.1_winsrv_x86-64.exe update acquire --mt 7d7a --scope uxsp --ostype platform --dir plat
form
Extracting...
Executing...

Start to download from Lenovo......

Acquiring list of updates for Machine-Type=7d7a OS="platform"...
Done
(1 of 19) : lnvgy_fw_drives_all-j9m19-0662_anyos_comp ... Done
(2 of 19) : lnvgy_fw_xcc_usx344a-5.10_anyos_comp ... Done
(3 of 19) : mlnx-lnvgy_fw_nic_cx-j9d1e-0262_anyos_comp ... Done
(4 of 19) : lnvgy_fw_raid_mr3.5.940-j9cup-0182_anyos_comp ... Done
(5 of 19) : brcm-lnvgy_fw_nic_nxe-j9crf-01c2_anyos_comp ... Done
(6 of 19) : lnvgy_fw_lxum_eal504c-1.04_anyos_comp ... Done
(7 of 19) : lnvgy_fw_uefi_usel28c-4.20_anyos_comp ... Done
(8 of 19) : lnvgy_fw_raid_mr3.5.540-j9cu6-0242_anyos_comp ... Done
(9 of 19) : lnvgy_fw_storage-adapter_smartpqi.350-j9c8r-0122_anyos_comp ... Done
(10 of 19) : lnvgy_fw_sysboard_ptx.16.retimer-j9cr9-0482_anyos_comp ... Done
(11 of 19) : lnvgy_fw_storehba_mpt3.5.440-j9lqa-01c2_anyos_comp ... Done
(12 of 19) : lnvgy_fw_lxpm_eal114g-4.13_anyos_comp ... Done
(13 of 19) : intc-lnvgy_fw_nic_net.i350-j9crc-01a2_anyos_comp ... Done
(14 of 19) : intc-lnvgy_fw_nic_net.x700-j91n8-02e2_anyos_comp ... Done
(15 of 19) : elx-lnvgy_fw_fc_lp.31-j9d15-01c2_anyos_comp ... Done
(16 of 19) : elx-lnvgy_fw_fc_lp.35-j9d15-01c2_anyos_comp ... Done
(17 of 19) : brcm-lnvgy_fw_nic_nxl-j9d1f-0342_anyos_comp ... Done
(18 of 19) : lnvgy_fw_bootstor_nvme-j9d1e-02e2_anyos_comp ... Done
(19 of 19) : lnvgy_bundle_svcpack_ut-j9m7a-02a2-24b.1_platform_comp ... Done


Start to download BMU packages from Lenovo......
(1 of 2) : lnvgy_utl_lxce_bmu-1.0.1-3.1.27_anyos_32-64 ... Done
(2 of 2) : lnvgy_utl_lxce_onecli02a-4.4.1_linux_x86-64 ... Done

Succeed.
```

Searching for Static Bundles on Lenovo eSupport

Work through the instructions to get Static Bundles for a specific model.

Click each number in turn to see the procedure.

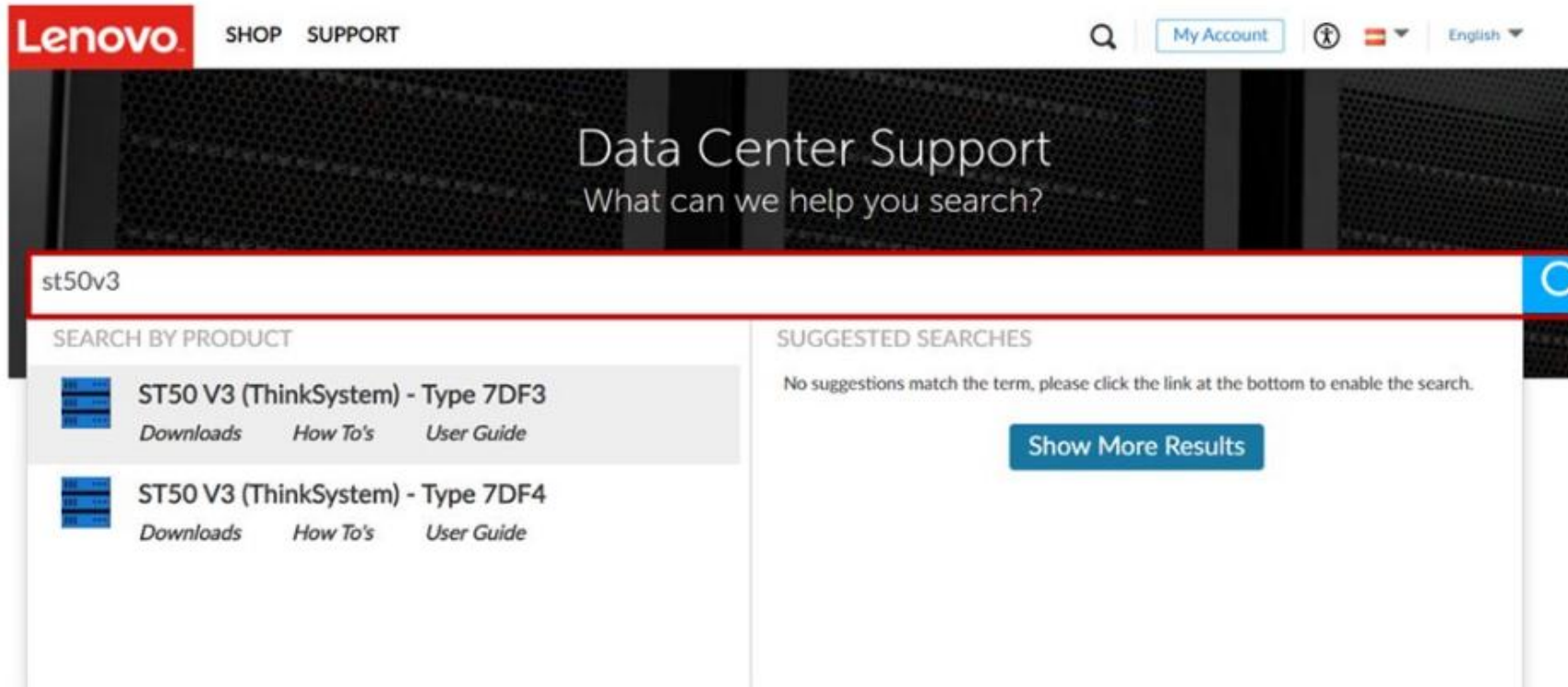Step   **1**—**2**—**3**

Lenovo

Searching for Static Bundles on Lenovo eSupport

- Go to eSupport: https://datacentersupport.lenovo.com/at/en/
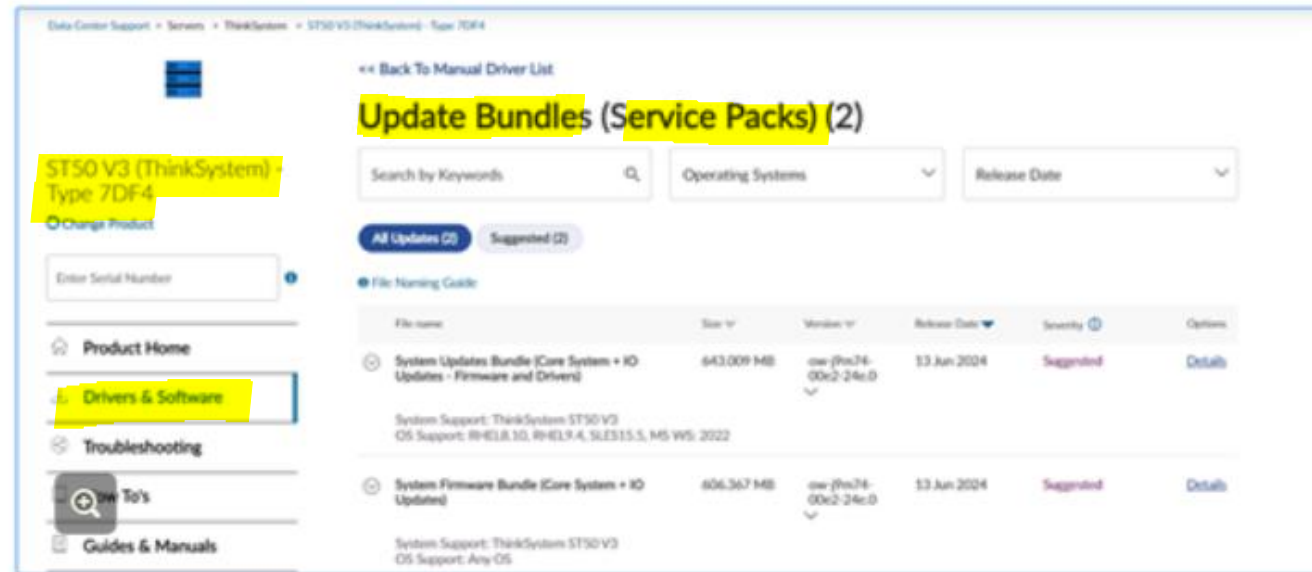- Enter the name of the model you want to search for – ST50 V3 is used as an example here

Step ①—❷—❸
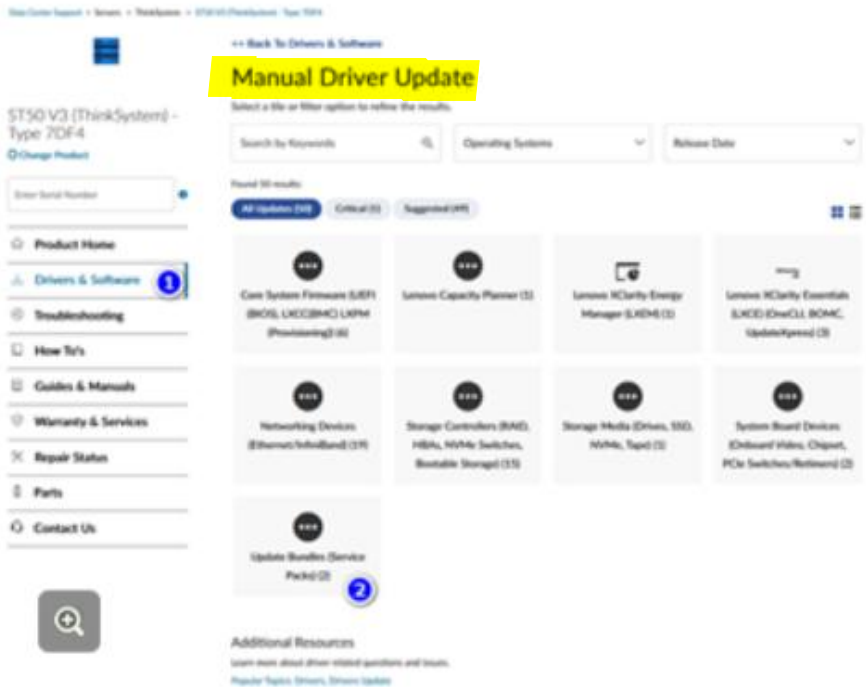
Searching for Static Bundles on Lenovo eSupport

Select **Drivers & Software**, and then select **Update Bundles** (**Service Packs**) (2)

Step ①—②—③

Searching for Static Bundles on Lenovo eSupport

In the **System Updates Bundle (Core System + IO Updates - Firmware and Drivers)** section, look for **System Updates Bundle Payload** and click **Download**.

Step ①——②——③

Searching for Static Bundles on Lenovo eSupport

In the **System Updates Bundle (Core System + IO Updates - Firmware and Drivers)** section, look for **System Updates Bundle Payload** and click **Download**.

Step ①—②—③

Overview

LXCA 4.2.0 will support the SR630 V4 wave 1 and the SD530 V4 wave 1. Support scope will be limited to the following functions:
- Discovery and management
- Inventory
- Monitoring
- Firmware updates

The LXCA 4.2.0 release date will be aligned with the SR630 V4 wave 1.

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LXCA - Discovery and management

LXCA supports the same discovery and management functions on the ThinkSystem V4 platform as it did on the previous V3 platform.

Manage

SN#1234567890 is going to be managed.

Choose to use managed authentication or not

☑ Managed Authentication

Choose the type of credentials

◉ Use manually entered credentials

◯ Use stored credentials

◯ Use Identity Management credentials

user name

password

◉ Do not create a recovery account and leave all local users enabled.

◯ Create a recovery account and disable all local users.

◯ Create a recovery account from stored credential and disable all local users.

☐ Set new password if credentials are expired (Optional) ⑦

Role Groups: Default   ▾

This will perform the following actions against server:
1. Configure NTP clients to use the NTP settings from Lenovo® XClarity Administrator
2. Configure for managed authentication

🔍

Manage   Cancel

Lenovo

LXCA - Discovery and management

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Role Groups: Default ▼

LXCA supports the same discovery and management functions on the ThinkSystem V4 platform as it did on the previous V3 platform.

This will perform the following actions against server:
1. Configure NTP clients to use the NTP settings from Lenovo® XClarity Administrator
2. Configure for managed authentication

Manage   Cancel

Lenovo

LXCA - Inventory

LXCA supports the same inventory functions on the ThinkSystem V4 platform as it did on the previous V3 platform, but with some known limitations.

- LXCA relies on events to update some of its inventory information in real time. However, XCC does not support all event types for the SR630 V4 wave 1, which leads to delays in reflecting some inventory changes in LXCA.
  For example, if a user toggles the LED status, the change will not appear in LXCA until an inventory refresh is triggered or when LXCA automatically collects a full inventory.
- **CPU and Memory Subsystem Level Utilization** and **Air Temperature History** are not supported for the SR630 V4 wave 1, and LXCA cannot retrieve this data for the **Power and Thermal** page.

Lenovo XClarity Administrator

Dashboard | Hardware ▾ | Provisioning ▾ | Monitoring ▾ | Administration ▾

XCC-7DFY-1234567890.pa-lxca.com
Normal
On

General
- Summary
- Inventory

Status and Health
- Alerts
- Event Log
- Jobs
- Light Path
- Power and Thermal

Configuration
- Configuration
- Feature on Demand Keys

Servers>XCC-7DFY-1234567890.pa-lxca.com Details - Summary

Edit Properties

Server:	XCC-7DFY-1234567890.pa-lxca.com
User-Defined Name:	
Status:	Normal
Host names(IMM):	XCC-7DFY-1234567890
IP addresses(IMM):	10.241.128.65 fe80::c6c6:e6ff:fe7d:6318
Rack Name / Unit:	Unassigned / Unassigned
Groups:	
Type Model:	7DFY-N01NRB
Serial number:	1234567890
Architecture:	x86
Description:	
Product name:	ThinkSystem SD520 V4Planar
UEFI firmware:	DBE101Y / 0.10 (Jul 24, 2024, 8:00:00 AM)
Security Mode:	Standard Security
Configuration status:	No profile assigned
Server pattern:	
System Guard:	Status: Disabled Action: No Action

Installed Devices

	Installed Devices
Processors	2.2 GHz - 144 Processor Cores
Memory	(1) 64 GB
Drives	0
Expansion cards	0

LXCA – Firmware updates

Major changes have been made to the LXCA firmware update function for the BHS platform:
- The BMU update has been replaced by LXUM for BHS. With this change, LXCA no longer uploads the BMU image to XCC port 115 via ssh, and it no longer connects to the BMU OS via port 6990.
- LXCA has added a "multi-push" option to the update process. With this option, multiple updates are pushed to XCC, and then the XCC Redfish API is used to apply them.
- LXCA has introduced a new activation rule called **OnReset Activation**, which pushes updates to XCC for application during the next system reboot.
- The update process for **Delay/Prioritized** activation has been changed.
- An option has been added to disable the **Monitor update process until complete** function. This function is obly supported for **OnReset** activation mode, and when it is disabled, LXCA firmware update jobs will stop after the updates have been pushed to XCC.

Refer to the following slides for more information.

Firmware updates - Immediate activation

With immediate activation, LXCA will:
1.   Power off the server at the beginning of the process if any updates require a system reboot
2.   Apply all core firmware
   • XCC, UEFI, LXUM, LXPM, LXPM drivers
   • Back up XCC and FPGA – due to be supported in v4.2
   • Reboot XCC if XCC or FPGA is updated
3.   Push all the reset updates
   • Use the multi-push option to send updates including I/O, RAID, GPU, disk drive, and PSoC to XCC, and then call XCC to apply them
4.   Restart the system to make sure all the updates are activated
5.   Restore the system power status

Click HERE for screen captures.

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Firmware updates - OnReset activation

With OnReset activation, LXCA will:

1. Push all updates to XCC with the multi-push option
2. Remind the user to restart the device manually. XCC will apply and activate updates during the next system reboot.
   - If **Monitor update process until complete** is enabled (the default option), LXCA will monitor the XCC firmware update job until it is complete. The user can cancel the update before the system reboot. Click HERE and HERE for screen captures.
   - If **Monitor update process until complete** is disabled, the firmware update will be carried out after the user is reminded to restart the server. With this option, the canceling of an update is not supported.
3. No power actions will be performed on the system during the update process.

Note: As XCC does not support Backup XCC updates with the multi-push option, OnReset activation cannot be used to update Backup XCC.

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Firmware updates - Delayed activation

Delayed activation operates in almost the same way as OnReset activation – the only difference being that Backup XCC will be updated before the multi-push step.

Firmware updates - Prioritized activation

With Prioritized activation, LXCA will make a greater effort to apply and activate core firmware components. LXCA will:

- Update XCC if there are no unmet UEFI prerequisites on the target system, and then reboot XCC to activate it.
- Update LXUM, LXPM, LXPM Linux, and LXPM Windows drivers, and back up XCC – tasks which do not require a system reboot for activation.
- Push all the remaining updates to XCC.
- Remind the user to restart the device manually. XCC will apply and activate updates during the next system reboot.
- Not perform any power actions on the system during the update process except for rebooting XCC after updating it.

Click HERE for a screen capture.
Note: UEFI will be updated in a multi-push job because activation requires a system reboot. FPGA will be updated in a multi-push job because if it is updated when the system is power on, activation would require an XCC and system reboot.

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