

# Updating Adapter Firmware

Each adapter card is shipped with the latest version of qualified firmware at the time of manufacturing. However, NVIDIA issues firmware updates occasionally that provide new features and bug fixes. To check that your card is programmed with the latest available firmware version, download the mlxup firmware update and query utility. The utility can query for available NVIDIA adapters and indicate which adapters require a firmware update. If the user confirms, mlxup upgrades the firmware using embedded images. The latest mlxup executable and documentation are available from <http://www.nvidia.com> > Products > Software > Firmware Tools.

## Firmware Update Example

```
[server1]# ./mlxup
Querying Mellanox devices firmware ...
Device Type:      ConnectX-5
Part Number:     MCX545M-ECAN
Description:     ConnectX@-5 VPI network interface card for OCP with Multi-Host, with host management, EDR IB
(100Gb/s) and 100GbE, single-port QSFP28, PCIe3.0 x16, no bracket.
PSID:           MT_2190110032
PCI Device Name: 0000:06:00.0
Base GUID:      e41d2d0300fd8b8a
Versions:       Current      Available
                FW 16.00.0000  16.00.0000

Status:         Up to date

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Part Number:     MCX545M-ECAN
Description:     ConnectX@-5 VPI network interface card for OCP with Multi-Host, with host management, EDR IB
(100Gb/s) and 100GbE, single-port QSFP28, PCIe3.0 x16, no bracket.
PSID:           MT_2170110021
PCI Device Name: 0000:07:00.0
Base MAC:       0000e41d2da206d4
Versions:       Current      Available
                FW 16.20.1000  16.24.1000

Status:         Update required

Perform FW update? [y/N]: y
Device #1: Up to date
Device #2: Updating FW ... Done

Restart needed for updates to take effect.
Log File: /var/log/mlxup/mlxup-yyyymmdd.log
```