



# DGX SPOD\_NMC 2.5

Exported: October 22, 2026

## Firmware

| Component  | B200    | B300    | GB200 | GB300 | VRNVL72 |
|------------|---------|---------|-------|-------|---------|
| DGX Bundle | 26.07.4 | 26.09.1 | 2.0   | 2.0   | 0.6     |

## Compute Node Firmware

| Component           | B200         | B300         | GB200             | GB300             | VRNVL72           |
|---------------------|--------------|--------------|-------------------|-------------------|-------------------|
| ConnectX-7 Firmware | 28.48.1132   | -            | 28.49.1118        | -                 | -                 |
| DOCA Host           | -            | -            | 3.4.1-010000      | 3.4.1-010000      | 3.3.0-090640      |
| HMC                 | 26.04-1-ga38 | B3-2606-02.0 | 260710.1.0_custom | 260911.1.0_custom | 260801.1.0_custom |
| BMC                 | 26.06.24     | 01.01.44     | 260710.1.0_custom | 260713.1.0_custom | 260727.1.3_custom |
| BF3_NIC             | 32.48.1132   | 32.47.2556   | 32.49.1118        | 32.49.1118        | -                 |
| BF3-BFB             | 3.2.1-50     | 3.2.1-50     | 3.4.1-11          | 3.4.1-11          | -                 |
| ConnectX-8 Firmware | -            | 40.49.1118   | -                 | 40.49.1118        | -                 |
| ConnectX-9 Firmware | -            | -            | -                 | -                 | 82.48.1688        |
| BF4-ISO             | -            | -            | -                 | -                 | 3.3.0-374.pdf     |
| BF4-PLDM            | -            | -            | -                 | -                 | 20260726.1        |

## Rack Firmware

| Component                     | B200 | B300 | GB200                       | GB300                       | VRNVL72     |
|-------------------------------|------|------|-----------------------------|-----------------------------|-------------|
| NVSwitch BMC Bundle           | -    | -    | GB200-P4978_0004_260616.1.0 | GB300-P4093_0004_260616.1.0 | -           |
| NVSwitch NVOS                 | -    | -    | 25.02.4463                  | 25.02.4463                  | 25.03.0566  |
| QM3 Switch Firmware           | -    | -    | 35.2014.1874                | 35_2014_5118                | -           |
| Switch CPLD Bundle            | -    | -    | GB200-P4978_0007_260512.1.0 | GB300-P4093_0007_260413.1.0 | -           |
| PMC Firmware (Delta / Liteon) | -    | -    | 3.2.4/1.3.10                | 3.2.4/1.3.10                | 3.3.8/2.3.3 |

| Component                     | B200 | B300 | GB200         | GB300         | VRNVL72      |
|-------------------------------|------|------|---------------|---------------|--------------|
| PSU Firmware (Delta / Liteon) | -    | -    | 01x04 / 01x01 | 01x04 / 01x01 | 04320409/0X6 |

## Host Software

### Cluster Management

| Component                         | B200    | B300    | GB200   | GB300   | VRNVL72 |
|-----------------------------------|---------|---------|---------|---------|---------|
| NVIDIA Base Command Manager (BCM) | 11.34.0 | 11.34.0 | 11.34.0 | 11.34.0 | 11.34.0 |
| nmc-airgap CLI Tool               | 2.3.3   | 2.3.3   | 2.3.3   | 2.3.3   | 2.3.3   |

### OS & Driver & System Stack

| Component                | B200                   | B300                   | GB200                  | GB300                  | VRNVL72                                     |
|--------------------------|------------------------|------------------------|------------------------|------------------------|---------------------------------------------|
| nvfwupdate               | 2.1.2                  | 2.1.2                  | 2.1.2                  | 2.1.2                  | 2.1.2                                       |
| DGX Base OS              | 8.0.0 / Ubuntu 26.04   | 8.0.0 / Ubuntu 26.04   | 7.5 / Ubuntu 24.04     | 7.5 / Ubuntu 24.04     | 8.1.0 / Ubuntu 26.04                        |
| DCGM                     | 4.6.1                  | 4.6.1                  | 4.5.2                  | 4.5.2                  | 4.6.1                                       |
| DGX OS Kernel            | x86: 7.0.0-1010-nvidia | x86: 7.0.0-1010-nvidia | 6.17.0-1012-nvidia-64k | 6.17.0-1012-nvidia-64k | arm64:linux-nvidia-bos-64k<br>7.0.0-2015.15 |
| GPU Driver               | R595TRD3               | R595TRD3               | 580.126.20             | 580.126.20             | R615TRD1                                    |
| NVSM                     | 26.06.02               | 26.06.02               | 25.09.07               | 25.09.07               | 26.06.02                                    |
| DOCA OFED                | 3.4.1-011000           | 3.4.1-011000           | 3.2.1-044413           | 3.2.1-044413           | 3.3.0-090623                                |
| nvidia-container-toolkit | 1.19.1                 | 1.19.1                 | 1.18.2                 | 1.18.2                 | 1.19.1                                      |

## Network

| Component           | B200       | B300       | GB200      | GB300      | VRNVL72 |
|---------------------|------------|------------|------------|------------|---------|
| Quantum NVOS        | 25.02.6300 | 25.02.6300 | 25.02.6300 | 25.02.6300 | -       |
| UFM Enterprise      | 1.15.1     | 1.15.1     | -          | -          | -       |
| Cumulus OS          | 5.16       | 5.16       | 5.16       | 5.16       | 5.16    |
| UFM XDR AC          | 2.3.30     | 2.3.30     | 2.3.30     | 2.3.30     | 2.3.30  |
| MLNX OS             | 3.12.6300  | 3.12.6300  | -          | -          | -       |
| Spectrum-X Ethernet | -          | 2.1        | -          | -          | -       |

## Workload Management

| Component | B200   | B300   | GB200  | GB300  | VRNVL72 |
|-----------|--------|--------|--------|--------|---------|
| Enroot    | 4.2.1  | 4.2.1  | 4.2.1  | 4.2.1  | 4.2.1   |
| Pyxis     | 0.24.0 | 0.24.0 | 0.24.0 | 0.24.0 | 0.24.0  |
| Slurm     | 25.05  | 25.05  | 25.05  | 25.05  | 25.05   |

Kubernetes

Core & Operators

| Component                  | B200     | B300     | GB200    | GB300    | VRNVL72  |
|----------------------------|----------|----------|----------|----------|----------|
| local-path-provisioner     | 0.0.36   | 0.0.36   | 0.0.36   | 0.0.36   | 0.0.36   |
| Kubeflow Training Operator | 1.9.2    | 1.9.2    | 1.9.2    | 1.9.2    | 1.9.2    |
| kgateway                   | 2.3.6    | 2.3.6    | 2.3.6    | 2.3.6    | 2.3.6    |
| Harbor                     | 2.15.0   | 2.15.0   | 2.15.0   | 2.15.0   | 2.15.0   |
| LeaderWorkerSet (LWS)      | 0.9.0    | 0.9.0    | 0.9.0    | 0.9.0    | 0.9.0    |
| Topograph (for Kubernetes) | 0.5.0    | 0.5.0    | 0.5.0    | 0.5.0    | 0.5.0    |
| Knative Operator           | 1.22.3   | 1.22.3   | 1.22.3   | 1.22.3   | 1.22.3   |
| MetalLB                    | 0.16.1   | 0.16.1   | 0.16.1   | 0.16.1   | 0.16.1   |
| MPI Operator               | 0.8.0    | 0.8.0    | 0.8.0    | 0.8.0    | 0.8.0    |
| Headlamp                   | 0.42.0   | 0.42.0   | 0.42.0   | 0.42.0   | 0.42.0   |
| Calico                     | 3.32.1   | 3.32.1   | 3.32.1   | 3.32.1   | 3.32.1   |
| HAProxy Ingress Controller | 3.2.8    | 3.2.8    | 3.2.8    | 3.2.8    | 3.2.8    |
| Network Operator           | 26.1.1   | 26.1.1   | 26.1.1   | 26.1.1   | 26.1.1   |
| GPU Operator               | v26.3.3  | v26.3.3  | v26.3.3  | v26.3.3  | v26.3.3  |
| Kubernetes                 | 1.35.7   | 1.35.7   | 1.35.7   | 1.35.7   | 1.35.7   |
| agentgateway               | 1.3.1    | 1.3.1    | 1.3.1    | 1.3.1    | 1.3.1    |
| ArgoCD                     | 9.5.20   | 9.5.20   | 9.5.20   | 9.5.20   | 9.5.20   |
| NVIDIA DRA Driver for GPUs | v25.12.0 | v25.12.0 | v25.12.0 | v25.12.0 | v25.12.0 |

Security

| Component | B200 | B300 | GB200 | GB300 | VRNVL72 |
|-----------|------|------|-------|-------|---------|
|-----------|------|------|-------|-------|---------|

| Component                | B200    | B300    | GB200   | GB300   | VRNVL72 |
|--------------------------|---------|---------|---------|---------|---------|
| OpenBao                  | 0.29.6  | 0.29.6  | 0.29.6  | 0.29.6  | 0.29.6  |
| cert-manager             | v1.17.2 | v1.17.2 | v1.17.2 | v1.17.2 | v1.17.2 |
| Keycloak                 | 7.3.2   | 7.3.2   | 7.3.2   | 7.3.2   | 7.3.2   |
| NMC Security Policies    | 2.4.9   | 2.4.9   | 2.4.9   | 2.4.9   | 2.4.9   |
| Kyverno                  | 3.8.2   | 3.8.2   | 3.8.2   | 3.8.2   | 3.8.2   |
| Secrets Operator         | 2.5.0   | 2.5.0   | 2.5.0   | 2.5.0   | 2.5.0   |
| NMC Gateway              | 0.4.1   | 0.4.1   | 0.4.1   | 0.4.1   | 0.4.1   |
| NMC OpenBao Configurator | 0.2.4   | 0.2.4   | 0.2.4   | 0.2.4   | 0.2.4   |

### Observability

| Component                  | B200        | B300        | GB200       | GB300       | VRNVL72       |
|----------------------------|-------------|-------------|-------------|-------------|---------------|
| DCGM Exporter              | 4.2.3-4.1.1 | 4.2.3-4.1.1 | 4.2.3-4.1.1 | 4.2.3-4.1.1 | -             |
| Grafana Loki               | 7.1.0       | 7.1.0       | 7.1.0       | 7.1.0       | 7.1.0         |
| NMC Grafana Visualizations | 27.3.8      | 27.3.8      | 27.3.8      | 27.3.8      | 27.3.8        |
| kube-prometheus-stack      | 87.18.0     | 87.18.0     | 87.18.0     | 87.18.0     | 87.18.0       |
| Minerva                    | 1.0.1       | 1.0.1       | 1.0.1       | 1.0.1       | Not Supported |
| Alloy                      | 1.17.1      | 1.17.1      | 1.17.1      | 1.17.1      | 1.17.1        |
| Prometheus Adapter         | 5.3.0       | 5.3.0       | 5.3.0       | 5.3.0       | 5.3.0         |

### AI Workload Platform

| Component     | B200          | B300          | GB200         | GB300         | VRNVL72       |
|---------------|---------------|---------------|---------------|---------------|---------------|
| NIM Operator  | 3.1.1         | 3.1.1         | 3.1.1         | 3.1.1         | 3.1.1         |
| Grove         | 0.1.0-alpha.8 | 0.1.0-alpha.8 | 0.1.0-alpha.8 | 0.1.0-alpha.8 | 0.1.0-alpha.8 |
| Run:ai        | 2.26.x        | 2.26.x        | 2.26.x        | 2.26.x        | Not Supported |
| NVIDIA Dynamo | 1.1.1         | 1.1.1         | 1.1.1         | 1.1.1         | Not Supported |

### Resiliency & Platform Management

| Component | B200 | B300 | GB200 | GB300 | VRNVL72 |
|-----------|------|------|-------|-------|---------|
|-----------|------|------|-------|-------|---------|

| Component                               | B200          | B300          | GB200         | GB300         | VRNVL72       |
|-----------------------------------------|---------------|---------------|---------------|---------------|---------------|
| Autonomous Hardware Recovery (Runbooks) | 2.5.45        | 2.5.45        | 2.5.45        | 2.5.45        | 2.5.45        |
| NMC LaunchPad                           | 0.8.10        | 0.8.10        | 0.8.10        | 0.8.10        | 0.8.10        |
| NVIDIA Resiliency Extensions (NVRx)     | 0.6           | 0.6           | 0.6           | 0.6           | 0.6           |
| Autonomous Job Recovery (AJR)           | 1.7.0-patch11 | 1.7.0-patch11 | 1.7.0-patch11 | 1.7.0-patch11 | 1.7.0-patch11 |
| Autonomous Hardware Recovery (Software) | 29.2.31       | 29.2.31       | 29.2.31       | 29.2.31       | 29.2.31       |
| NetQ                                    | Not Supported | Not Supported | 5.2.1         | 5.2.1         | Not Supported |
| Dynamic Power Software (DPS)            | Not Supported | Not Supported | 0.9.0         | 0.9.0         | Not Supported |

# Appendix: Terms and Definitions

|                                                              |                                                        |                                            |
|--------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|
| AHR: Autonomous Hardware Recovery                            | GPU: Graphics Processing Unit                          | OFED: OpenFabrics Enterprise Distribution  |
| AJR: Autonomous Job Recovery                                 | Grafana: Visualization and Dashboarding Platform       | OS: Operating System                       |
| APS: Auto-Resume Policy                                      | HMC: Hardware Management Controller                    | PMC: Power Management Controller           |
| ARE: Autonomous Recovery Engine                              | HTTP: Hypertext Transfer Protocol                      | Prometheus: Metrics Collection System      |
| BCM: Base Command Manager                                    | K8s: Kubernetes                                        | PSU: Power Supply Unit                     |
| BMC: Baseboard Management Controller                         | KPI: Key Performance Indicator                         | RAS: Run:ai Admission Service              |
| CMHA: Cluster Management High Availability                   | Loki: Log Aggregation System                           | RCS: Run:ai Control Service                |
| CPLD: Complex Programmable Logic Device                      | LTS: Long-Term Support                                 | RLS: Run:ai Logging Service                |
| CUDA: Compute Unified Device Architecture                    | MFT: Mellanox Firmware Tools                           | RMA: Return Merchandise Authorization      |
| cuDNN: CUDA Deep Neural Network Library                      | MIG: Multi-Instance GPU                                | RMB: Run:ai Message Bus                    |
| DCGM: Data Center GPU Manager                                | NCCL: NVIDIA Collective Communication Library          | RQS: Run:ai Queueing Service               |
| DGX: NVIDIA Deep GPU Xceleration AI Compute System           | NetQ: NVIDIA Network Telemetry and Validation Platform | RTPU: Run:ai Training Processing Unit      |
| DNS: Domain Name System                                      | NIC: Network Interface Card                            | Run:ai: AI Workload Orchestration Platform |
| DOCA-Host: DOCA Host Software Package                        | NMS: Network Management System                         | SBIOS: System Basic Input Output System    |
| DOCA-OFED: DOCA-based OpenFabrics Enterprise Distribution    | NMX: NVIDIA NVLink Management Software                 | SBOM: Software Bill of Materials           |
| DOCA: Data-Center-on-a-Chip Architecture                     | NMX-C: NVIDIA NVLink Management Software (Controller)  | SLS: Streaming Log Service                 |
| DPU: Data Processing Unit                                    | NMX-M: NVIDIA NVLink Management Software (Manager)     | SMR: System Management Read Only Memory    |
| EROT: Embedded Root of Trust                                 | NMX-T: NVIDIA NVLink Management Software (Telemetry)   | TLS: Transport Layer Security              |
| ETCD: Distributed Key-Value Store (Kubernetes)               | nvfwupdate: NVIDIA Firmware Update Tool                | TSDB: Time-Series Database                 |
| FACT: Fault Attribution and Characterization Technology      | NVL72: NVIDIA NVLink Large-Scale Rack Architecture     | TUI: Text User Interface                   |
| GB200: NVIDIA DGX Grace Blackwell 200 System                 | NVOS: NVLink Operating System                          | UFM: Unified Fabric Manager                |
| GB300: NVIDIA DGX Grace Blackwell 300 System                 | NVRx: NVIDIA Resiliency Extension                      | UI: User Interface                         |
| GDRCopy: GPU Direct Remote Direct Memory Access Copy Library | NVSM: NVIDIA System Manager                            | ZTP: Zero-Touch Provisioning               |
| GDS: GPUDirect Storage                                       | NVSwitch: NVIDIA NVLink Switch                         |                                            |