

Mellanox NEO

Cloud Orchestration and Management Software

Mellanox NEO™ is a powerful platform for managing scale-out computing networks. NEO enables data center operators to efficiently provision, monitor and operate the modern data center fabric.

Mellanox NEO serves as interface to the fabric, thus extending existing tools capabilities into monitoring and provisioning the data center network. Mellanox NEO uses an extensive set of REST APIs to allow access to fabric-related data and provisioning activities.

NEO eliminates the complexity of fabric management. It automates the configuration of devices, provides deep visibility into traffic and health, and provides early detection of errors and failures.

Scale-Out Fabric Management with NEO

Today's data centers require advanced management platforms that help maximize the utilization of the underlying infrastructure, and optimize the health and performance of the applications running on it.

Mellanox NEO eliminates the complexity that traditionally comes with fabric management. It provides visibility into fabric traffic and health, and seamlessly integrates with the existing management and control platforms in the data center.

Health & Performance Counter Monitoring

Mellanox NEO includes an advanced granular monitoring engine that provides real-time access to switch health and performance data, enabling:

- Real-time identification of fabric-related errors and failures
- Insight into fabric performance
- Preventive maintenance via granular alerts,

such as port state change, power fault, fan fault, and more

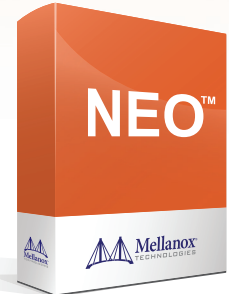
- Early detection of errors which can be critical to network and application performance and availability

Mellanox NEO as Network API

Mellanox NEO serves as interface to the fabric, thus extending existing tools capabilities into monitoring and provisioning the data center network. Mellanox NEO uses an extensive set of REST APIs to allow access to fabric-related data and provisioning activities.

The interface can provide external tools with the fabric topology, device health and performance status, alerts, and device and fabric management actions.

This allows taking advantage of existing tools and enhancing them, as well as building new DevOps oriented management frameworks.



HIGHLIGHTS

- Reduces complexity of fabric management
- Provides in-depth visibility into traffic and health information
- Network API supports integration, automation and SDN programmable fabrics
- Historical health and performance graphs
- Generates preventive maintenance and "soft degradation" alerts
- Quickly troubleshoots topology and connectivity issues
- Integrates and streamlines fabric information into your IT systems

CLI Player

As part of Mellanox NEO's network API concept, it includes a unique tool that allows users to apply policies from a central console to a single or multiple devices at once. The CLI player enables great flexibility and scalability in controlling the network.

The CLI player also offers various pre-defined templates to configure switches and automate the process of applying policies.

Integration with Existing Data Center Management Tools

Mellanox NEO provides an open object model to describe data center infrastructure and

conduct all relevant management actions. NEO's API enables integration with leading schedulers, cloud and cluster managers.

Easy Fabric Deployment and Operations

Mellanox NEO's central management console reduces the effort and complexity involved with bring-up and day-by-day fabric maintenance tasks.

This significantly lowers downtime and makes NEO the ultimate management tool for the most demanding data center environments.

- Mellanox NEO's advanced Fabric Health diagnostic tools enable the user to get

a clear picture of fabric and link health across the fabric, and greatly smoothens deployment and maintenance windows.

- Mellanox NEO's asset management capabilities enable effective tracking of fabric devices and ports, from the smallest to the largest (tens-of-thousand-node) clusters.
- Group operations such as switch firmware updates are enabled via a single mouse click.

SPECIFICATIONS**SOFTWARE PREREQUISITES**

- Mellanox NEO Server
 - x86_64
 - 4GB RAM Minimum
 - 20GB Available Disk Space Minimum
 - RedHat, CentOS, SLES - see release notes for full matrix support

ORDERING INFORMATION

- Mellanox NEO is available for free download at mymellanox.force.com/support.

MANAGED DEVICES

- Mellanox NEO manages Mellanox Ethernet, FDR and EDR edge switches

For more details please visit Mellanox.com



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