

# Fabric Inspector

## Fabric Diagnostics for Scale-out Fabrics

Fabric Inspector enhances Mellanox's Operating System (MLNX-OS™) management software with diagnostic capabilities to ensure fabric health.

Cluster management software must provide tools to help a Network Administrator bring up the network and optimize performance. Fabric Inspector includes a complete set of tools for fabric wide diagnostics to check node-node and node-switch connectivity and to verify routes within the fabric.

Advanced filtering allows creating filtering rules on a system wide basis, between nodes or port connections based on traffic patterns and user assigned system names (GUIDs).

### Fabric Visibility & Control

Fabric Inspector includes advanced monitoring engine that provides real time access to the switch, enabling:

- Fabric discovery
- Fabric status
- Nodes/ports and links errors indication detection and report

Fabric Inspector enables Topology matching of the discovered fabric versus a given topology file and alert any difference found.

### World Class Design

Fabric Inspector is a plug & play software within Mellanox Operating System (MLNX-OS) displaying and filtering all identified systems and nodes within the fabric (adapters, switches).

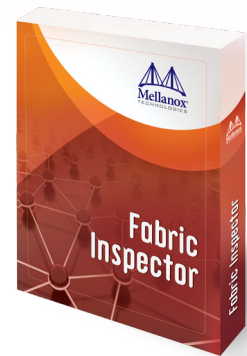
The display can be done according to activity status, port type (HCA, switch or management) or port rate (link speed or link width).

Fabric Inspector not only monitors the fabric status but also verify the correctness of the fabric, including:

- Subnet Manager (SM) correctness checks
- Network errors detection, such as: duplicated GUIDs, duplicated LIDs, all logic links are up.
- Credit loops
- Check partition configuration
- FW check
- Links Speed and Width checks according to supported or CLI values

### Mellanox Advantage

Mellanox Technologies is a leading supplier of end-to-end server and storage connectivity solutions to optimize data center performance and efficiency. Mellanox InfiniBand ConnectX<sup>®</sup>-3 adapters, switches, and software are powering Fortune 500 data centers and the world's most powerful supercomputers. The company offers innovative solutions that address a wide range of markets including HPC, enterprise data centers, cloud computing, and Web 2.0.



## HIGHLIGHTS

- Simplifies the management of large or complex environments
- Monitor the health of the infrastructure
- Quickly troubleshoots any connectivity problem
- Topology matching versus a given topology file

## HARDWARE SUPPORT

- Mellanox's InfiniBand MSX6XXX switches
- Mellanox's InfiniBand ConnectX<sup>®</sup>-3 adapters

Ordering Part Number	Description
LIC-Fabric-Inspector	IB diagnostics license for SwitchX systems for up to 648 nodes)