FabricIT™ – InfiniBand Fabric Management
Integrated fabric management solution

FabricIT™ is a comprehensive management software solution that provides optimal performance for cluster computing, enterprise data centers, and cloud computing. The fabric management capabilities ensures the highest fabric performance while the chassis management ensures the longest switch up time. With FabricIT running on InfiniScale® IV powered fabrics, IT managers will see a higher return on their compute as well as infrastructure investment through higher CPU productivity due to higher network throughput and availability.

Switch Chassis Management
FabricIT chassis management software is included with every IS5000 series switch, enabling Network Administrators to monitor and diagnose the switch hardware. With local and remote configuration and management capabilities, chassis management provides parameter information including port status with event and error logs, CPU resources, and internal temperature with alarms. The chassis manager ensures low switch maintenance and high network availability.

Fabric Management
FabricIT fabric management provides a reliable and scalable management solution for cluster and data center fabrics. Its modular design integrates the subnet manager (SM) with advanced features simplifying cluster bring up and node initialization through automatic discovery and configuration. The performance monitors measure the fabric characteristics to ensure the highest effective throughput. Fabric Management is differentiated into basic, advanced and expert modes where support for various routing algorithms and fabric topologies are included.

Fabric Inspector
Cluster management software must provide tools to help a Network Administrator bring up the network and optimize performance. FabricIT 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). Maintenance is simplified with fabric command scheduling and single operation firmware and driver updates.

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 adapters, switches, and software are powering Fortune 500 data centers and the world's most powerful supercomputers. For the best in server and storage performance and scalability with the lowest TCO, Mellanox interconnect products are the solution.
### Feature Summary
- Comprehensive cluster management
- Cluster bring-up and diagnostic tools
- Switch chassis management
- Quality of Service enforcement
- Secure, remote configuration and management
- Performance monitoring
- Error, event and status notifications

### Hardware Support
- **Mellanox InfiniScale® IV Switch Family**
  - IS5030/5035 - 36 ports, up to 40Gb/s per port
  - MTS3610 - up to 324 ports, up to 40Gb/s per port
  - IS5600 - up to 648 ports, up to 40Gb/s per port
- **Mellanox InfiniBand HCA Adapters**
  - ConnectX® - Single or dual 10, 20 or 40Gb/s InfiniBand ports
  - InfiniHost® III Ex - Dual 10 or 20Gb/s InfiniBand ports
  - InfiniHost® III Lx - Single 10 or 20Gb/s InfiniBand port

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**FabricIT™ Mellanox InfiniBand Management Solution**

FabricIT Cluster Tools, Configuration Files, Scripts, Verification and Management Tools

- **Fabric Management**
  - Mellanox Subnet Manager
  - Performance/Provisioning
  - Cluster Management and Virtualization

- **Chassis Management**
  - System Configuration
  - Port Management
  - Parameter Monitoring

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**Mellanox Managed Switches**

InfiniBand cluster with Mellanox HCAs

- **Out-band Diagnosis Interface**
- Block Storage
- File Storage

**Remote Management Node**

**Ethernet Network**