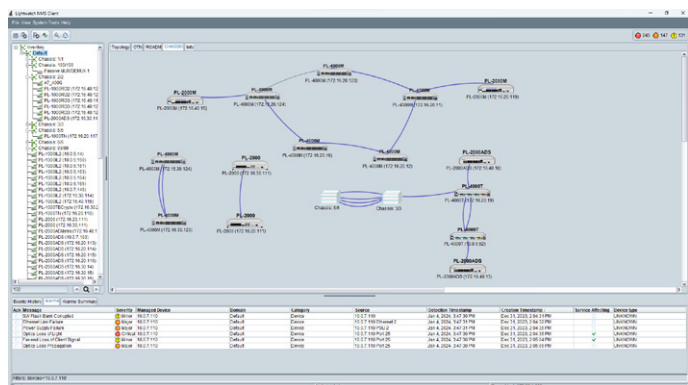


PacketLight LightWatch NMS

Multi-platform Java-based network management system (NMS)



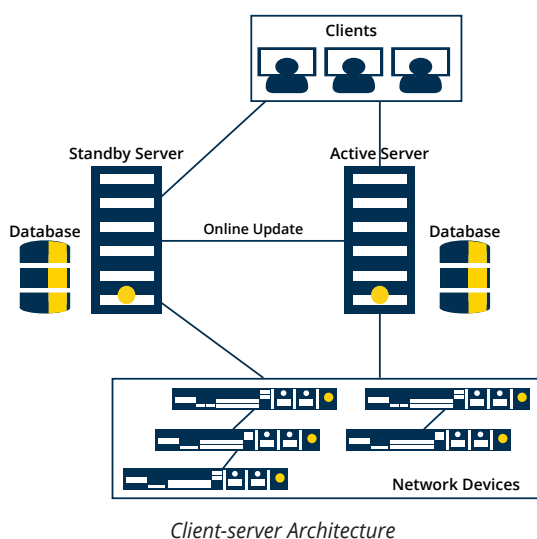
Overview

PacketLight LightWatch™ provides full fault management, configuration, accounting, performance, security (FCAPS) functionality and is compliant with telecommunications management network (TMN) standards.

LightWatch is built with a client-server architecture. It uses the MySQL™ database, and is built with modular client pay-as-you-grow offerings, scalable to 500 network elements and 20 clients.

For fast and complete recovery, LightWatch supports server redundancy and daily database backup.

LightWatch also provides centralized management of user accounts and several types of users with configurable access privileges: Administrators, NetAdmins, Technicians, Users.



Technical Specifications

Hardware Requirements

Server:

- CPU: Intel® Core I7 3.0 GHz
- RAM: 16 GB
- Hard Drive: 500GB free disk space
- Network Interface Card: 1000 Mbps

Client:

- CPU: Intel® Core I5 2.5GHz or higher
- RAM: Minimum 8GB
- Hard Disk: 4GB free space
- Screen Resolution: 1024x768 or higher

Software Requirements

Server:

- Windows Server 2019/2022
- Windows 10/11
- Linux Ubuntu 22.04/ 20.04.6

Client:

- Windows 10/11
- Linux Ubuntu 22.04/ 20.04.6
- macOS 14.1.1 Big Sur

Scalability

Network Elements: Up to 500

Clients: Up to 20

Management Protocols

Between Server to NE: SNMPv2c/v3

File Transfer Between Server to/from NE: TFTP/SFTP

Web Browser to NE: HTTP/HTTPS

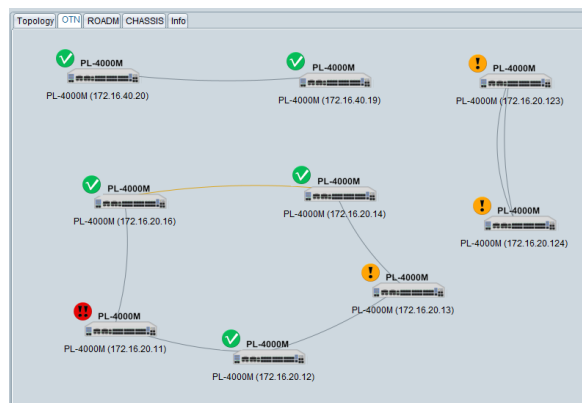
CLI to NE: Telnet/SSH

Syslog Messages from NE to the Server: Syslog

Highlights:

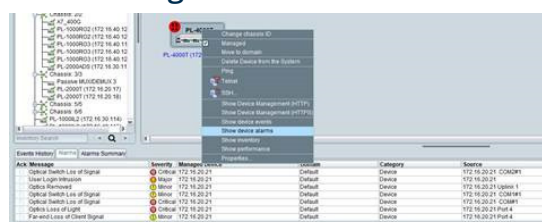
- Hierarchical topology of the devices in the network
- NMS server resiliency
- Network fault management
- Network inventory management
- Task scheduling (upload/download)
- Collects and stores PM counters from all network elements
- Advanced A-Z service management

Topology



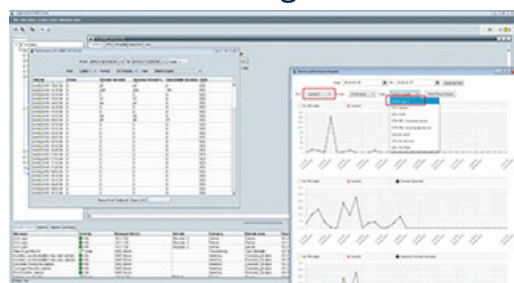
- Allows hierarchical domains in the network
- Automatic network topology discovery
- Manual drawing of the connections between nodes
- Multi-chassis management
- Allow definition of background map

Fault Management



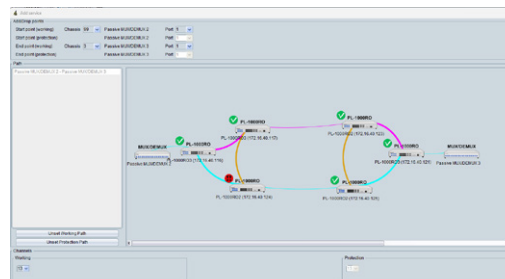
- Displays history of network events
- Shows current alarms
- Supports filtering events and alarms
- Keeps up to 30 days of event history
- Event forwarding to email
- Supports audible alarms

Performance Management



- Collects PM from all devices in the network
- Displays 30 days of history of 15-minute and Day PM data
- Supports configurable graphical view of PM data
- Supports export of PM information into an external file

SMM - Service Management Module



- Supports OTN and channel service provisioning.
- Supports ring, linear add/drop and multi degree topologies.
- Supports provisioning of unprotected, protected and restoration services.

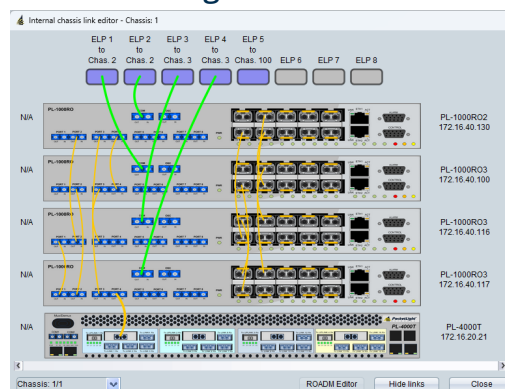
Task Scheduling

- Download of new SW version into groups of device elements
- Upload of configuration files from group of device elements
- Download of configuration files into group of devices
- Downloading license files into group of devices
- Uploading log files from group of devices

Inventory

- Displays inventory of group of network elements
- Filters network elements according to field values
- Supports export of inventory into an external file

Chassis Management



- Supports virtual chassis view with each device information
- Supports drawing the internal connections within the virtual chassis
- Supports full service awareness with advanced chassis service management module (CSMM)
- Automatic consistency check with other service provisioning wizards