proNX Service Manager

Product Overview

The proNX Service Manager helps network operations center personnel streamline the deployment and administration of next-generation metro and cloud networks. The software enables cloud and service providers to accelerate time-to-market, increase service velocity, improve customer satisfaction, and boost profitability by eliminating operational expense and complexity.

Product Description

Juniper Networks® proNX Service Manager software offers a graphical user interface that dramatically simplifies service activation, monitoring, and troubleshooting tasks. It also provides a complete set of device configuration, inventory, fault, and performance management capabilities for a broad variety of Juniper packet optical network elements.

Architecture and Key Components

The proNX Service Manager software includes provisioning templates, configuration wizards, and one-click service activation features that eliminate manually intensive and error-prone tasks, accelerate bandwidth turn-up and capacity expansion, and simplify operations. Using the point-and-click interface, NOC administrators can rapidly deploy new network resources and easily complete a wide variety of day-to-day tasks across the entire Juniper packet optical portfolio. High-level, service-centric views make it easy to provision, monitor, and troubleshoot end-to-end services. The proNX Service Manager solution provides a simple visual representation of each service, along with its components and performance details. The application also supports key fault, configuration, accounting, performance, and security management (FCAPS), including real-time and historical fault and performance reporting plus inventory management and software administration for network elements.

The proNX Service Manager Dashboard delivers a concise view of the health and performance of all Juniper packet optical platforms, including network-wide alarms and events as well as performance and inventory data. All information is presented on a single screen, allowing users to drill down to access detailed information as required.

At-a-glance network-wide visibility helps network administrators quickly identify and resolve issues, often before customers are even aware they exist. Utilization data provides instant visibility into configured and consumed capacity, allowing users to easily identify where network resources are reaching their limits and enabling proactive planning for network expansion. A browser-based responsive design user interface provides easy access from any device—PC, smartphone, or tablet.

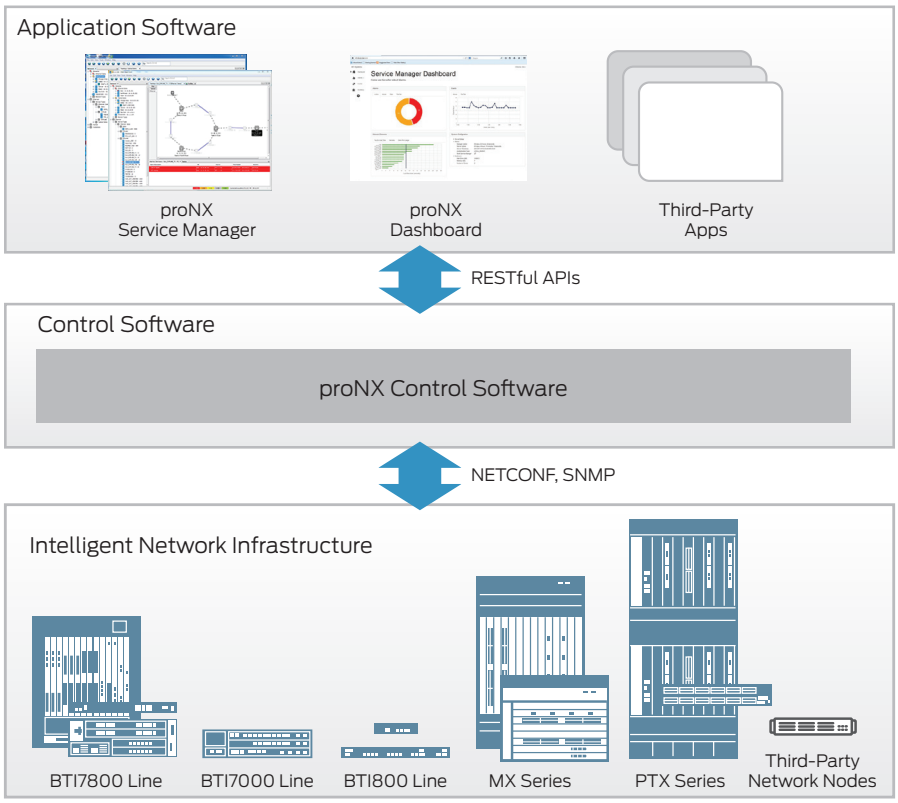

Figure 1. Juniper Networks proNX software portfolio

Features and Benefits

- Accelerates time-to-market and customer turn-up
- Optimizes service quality and customer satisfaction
- Eliminates manually intensive, error-prone management tasks
- Reduces ongoing operational expenditures
- Provides real-time visibility into network conditions
- Offers service-centric GUI with network topology map and device views
- Enables comprehensive web-based dashboard NOC monitoring
- Delivers point-and-click service activation, monitoring, and troubleshooting
- Includes service provisioning templates, configuration wizards, and end-to-end provisioning tools
- Provides FCAPS management capabilities
- Produces real-time alarms, events, and performance statistics reports
- Compiles historical fault and performance reports
- Offers network element management, including backup/restore, software and inventory management

Product Options

The proNX Service Manager is an integral component of Juniper Networks proNX Management Applications suite. The proNX software supports a layered, software-driven solutions architecture with distinct network, control, and application planes for ultimate scalability and extensibility.

Core Control Engine and Rich Management Applications

The proNX portfolio includes the proNX Control software domain controller, plus an extensive collection of service provisioning, monitoring, and troubleshooting applications including the proNX Service Manager. The proNX Control server provides a centralized control layer that facilitates end-to-end management and service orchestration across network elements and geographies. The software monitors and controls Juniper platforms via industry-standard NETCONF/YANG and SNMP interfaces. It also provides comprehensive northbound RESTful APIs that streamline integration with Juniper and third-party management applications such as operations support systems and business support systems (OSS/BSS).

Highly Scalable Client/Server Deployment Model

Juniper supports a distributed client/server network management deployment model. The proNX Service Manager software is a platform-independent, Java-based client front-end that communicates with back-end proNX Control servers via RESTful APIs. The proNX Dashboard Web client provides comprehensive monitoring and troubleshooting capabilities designed for NOC personnel to maximize service uptime. The proNX Control software runs on industry-standard x86 Linux hardware platforms or virtual machines, and can be clustered for high scalability and availability.

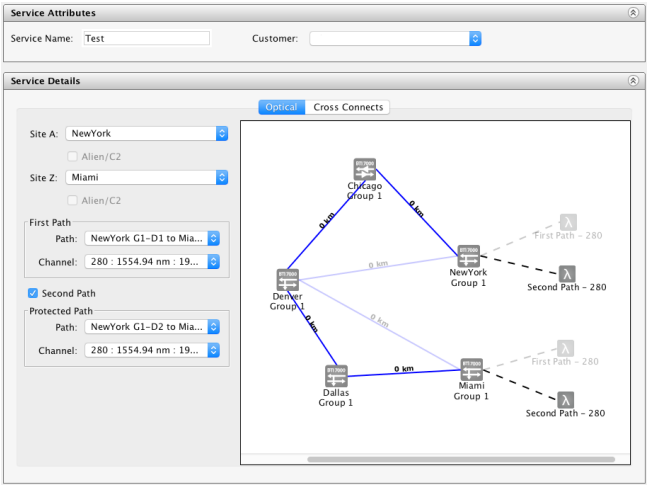

Figure 2. Service Activation screen

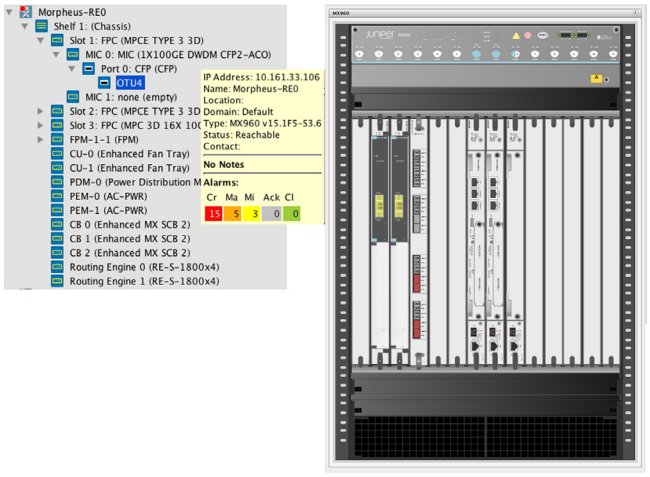

Figure 3. Service templates

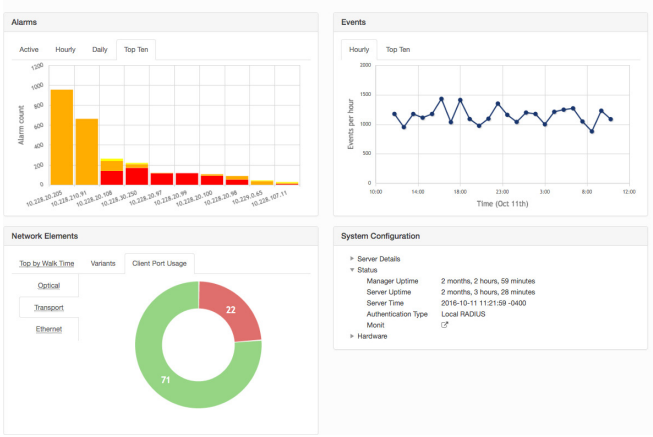

Figure 4. Service Manager dashboard

Specifications

Supported products	BTI7800 line: BTI7814, BTI7802; BTI7801 BTI7000 line: BTI7200, BTI7060, BTI7030, BTI7020 BTI700 line: BTI702, BTI704, BTI712, BTI718, BTI718E BTI800 line: BTI805, BTI810, BTI821, BTI822 MX Series 3D Universal Edge Routers: MX240, MX480, MX960, MX2010, MX2020 PTX Series Packet Transport Routers: PTX3000, PTX5000
Service types supported	Optical and transport layer services, including multiprotocol muxponders, multiprotocol transponders, reconfigurable optical add/drop multiplexing (ROADM), dense wavelength-division multiplexing (DWDM) OTN MIC Carrier Ethernet: EPLINE, EVPLINE, EPLAN, EVPLAN, E-ACCESS, including UNI/ NNI, UNI/NNI LAG, SLA/CFM, Y.1731, ERPS, MEF pseudowire
Simultaneous client support	20
Base server hardware and software recommendation	Intel 64 bit processor, 6 cores, 12 GB DDR3 RAM, 2x 1 TB 7k disks, hardware-based RAID, 2x 10/100/1000 Ethernet Red Hat Enterprise Linux 6.3 or later, CentOS equivalent

Note: proNX Service Manager and proNX Control Software are distributed together. They are not ordered separately.

Ordering Information

For ordering information, please consult the Juniper Networks price list or contact your local Juniper sales representative.

About Juniper Networks

Juniper Networks challenges the status quo with products, solutions and services that transform the economics of networking. Our team co-innovates with customers and partners to deliver automated, scalable and secure networks with agility, performance and value. Additional information can be found at Juniper Networks or connect with Juniper on Twitter and Facebook.

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