Nokia 5571 POL Command Center

System administration

The Nokia 5571 Passive Optical LAN (POL) Command Center (PCC) is an advanced management solution optimized for performance and usability in enterprise environments. As part of the Nokia Optical LAN solution, the Nokia 5571 PCC provides a highly intuitive, simplified environment for configuration, automatic activation, fault reporting, troubleshooting, maintenance and much more.

Optical LAN offers increased capacity and low maintenance, power and floor space requirements along with longevity that extends well beyond that of traditional Ethernet networks. These benefits can be fully realized when the proper tools are in place for supporting day-to-day operations. With the 5571 PCC, system administrators can benefit from the power of fiber with a highly intuitive user interface that eliminates complexity and empowers them with the information that they need, when they need it.

The Nokia 5571 PCC takes our experience gained in managing over 160 million access lines and applies it to the unique needs of enterprise, hospitality, healthcare, sport facilities and the private sector in general. Activation of new services is facilitated with predefined service definitions tailored for specific usage types. Adding new endpoints to the network is vastly simplified with optical network terminal (ONT) automatic activation. If an issue does arise, our advanced troubleshooting and alarm management tools will get you straight to the root of the problem. Networks are getting more complex, but managing them does not need to be, because your network is only as good as your ability to use it.

Features

- Intuitive, feature-rich, Web-based user interface
- Realistic network views using your floor plans
- Easy navigation to network elements and their physical locations
- Predefined service definitions for each usage type
- Discovery and automatic activation of new optical line terminals (OLTs)
- Automatic activation of new ONTs
- Bulk copy of provisioned ONTs
- Intuitive alarm views
- PCC orchestrated intershelf Type-B redundancy

Benefits

- Ease of use reduces training costs
- Provides clear and up-to-date records of network elements and their physical locations
- User type service definitions for reliable and consistent service provisioning

Note: Features content based on R1.1.0 baseline

- Simplifies network growth with automated ONT discovery and activation
- Imports existing Optical LAN services into PCC that were configured using command line interface (CLI)
- Streamlines network changes and upgrades with ONT replacement and move tools
- Verifies your service level agreements (SLAs) using the graphed metrics
- Simplifies a search for network issues through intuitive troubleshooting tasks

Technical specifications

Supported functions

- Web user interface
- Localization
- Fault management
- Configuration management
    - Copies ONT service configuration to multiple ONTs
    - Replace ONT
    - Groups ONTs
- Optical LAN metrics, graphing and charts
- Service alignment with a CLI configured network
- Optical LAN troubleshooting tools
- Search and filter
- Performance and security management
- Operational support
- SNMP trap forwarding interface to OSS

Supported network elements

- Nokia 7360 Intelligent Services Access Manager (ISAM) FX (FX-4, FX-8)
    - Line termination (LT) cards supported: FGLT-x
- ONT models: G-010P-A, G-040P-Q, G-240G-A, G-240G-C, G-080P-P, G-010G-A, G-040P-P

Hardware and operating system (OS) platforms

- Nokia 5571 PCC operates based on the client-server model. The application is installed on a physical server machine or VMware and is accessed from the user's machine (client) browser.
- Server requirements:
    - RAM: 8GB
    - CPU: 4 core
    - Hard disk space: 20GB free disk space under root volume and 30GB free disk space under logical volume manager (LVM)
- OS: Red Hat® Enterprise client requirements
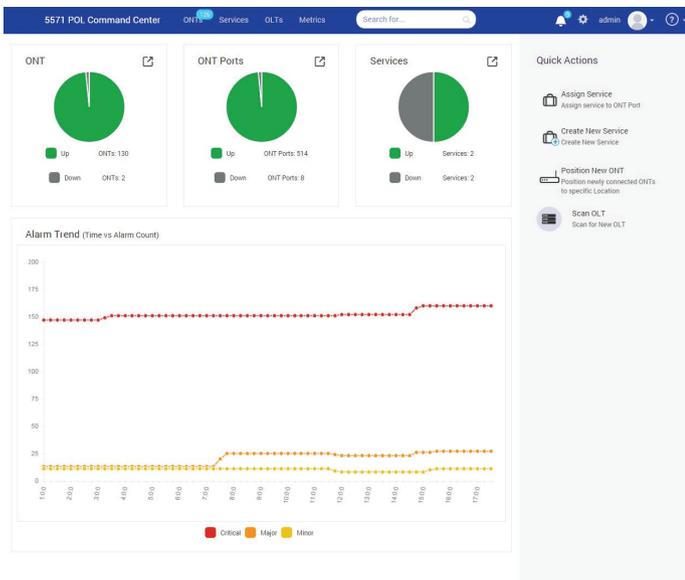   - Chrome, Firefox, Internet Explorer browser support

Scalability

- Up to 10,000 subscribers
- Up to 4 OLTs

Figure 1. Realistic network view

Figure 2. Landing page: key functions at your fingertips