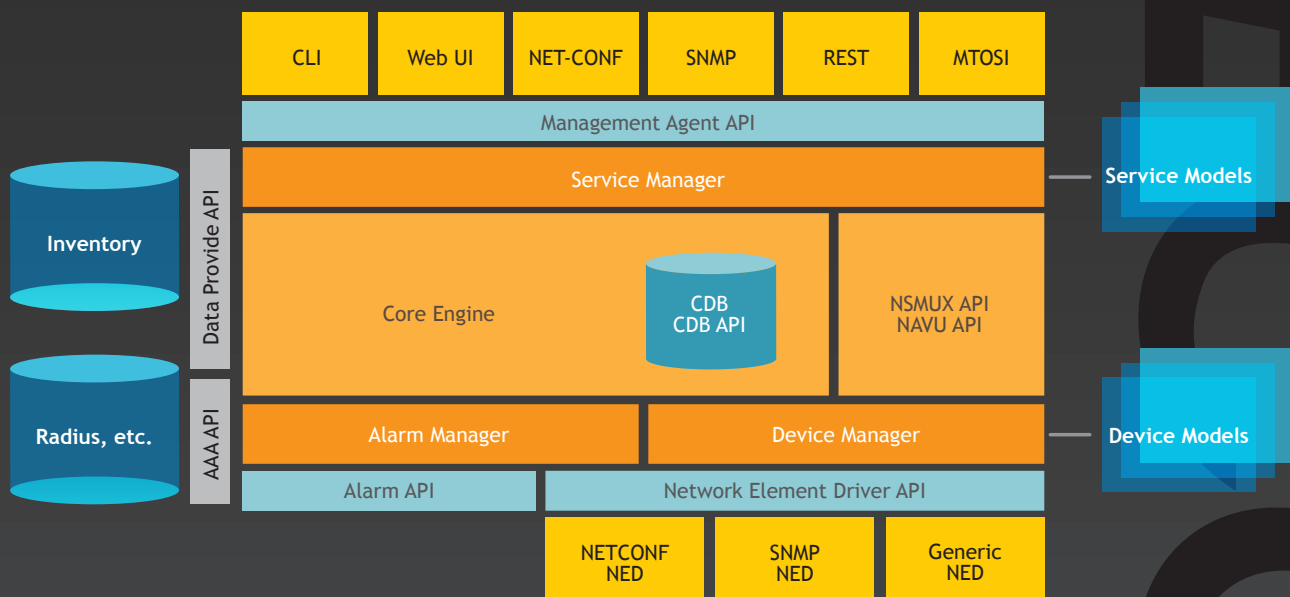


NETPULSE EMS

Pulsecom Element Management System



Pulsecom's **NetPulse EMS** is a Carrier Class, Data Model driven management system that provides YANG-based Northbound OSS/BSS interface support.



NetPulse is a true carrier-class EMS that scales to support tens-of-thousands of Pulsecom Network Elements. Both Network Element and Service views are available to operations personal and higher-order OSS systems. Full service management for Subscriber and Resource facing services with FCAPS transaction-based network management are provided.

Various generic Northbound Interfaces (NBI) are included for seamless integration into OSS environments. Provisioning can be accomplished through service modeling using the NetPulse Service Manager, which can be bypassed to allow provisioning information to be received through a customizable NBI. **NetPulse** provides configuration backup and restore, alarm collection, filtering and monitoring, hardware and software administration and maintenance, and connectivity troubleshooting services for all Pulsecom Network Elements. APIs are provided that facilitate connections to inventory databases, and allow for secure AAA transactions.

Business Tier transaction management includes QoS analysis, trend analysis and BSS queries. Along with alarming and fault management, the **NetPulse EMS** collects and securely stores end-to-end Performance Management information from network elements. Delay, delay variation, loss and availability can be calculated for each service instance and presented to higher-order systems for report generation.

FEATURES

- YANG Model-driven approach
- Northbound management interfaces
- Customizable NBI
- Fail-safe distributed transaction management
- Roll-back Management
- Device Simulation
- Automated Configuration Management
- Common CLI or GUI for all Devices or Services
- Provision Services by Cloning or Copy-and-Edit
- "What-if" analysis before change commit
- Stateful Alarm Manager
- Security Management through AAA, RADIUS, TACACS+ and more...
- Configuration changes to named device groups
- Manage the same Network Elements running different firmware revisions
- Inventory audits

NORTHBOUND INTERFACES

- Command Line Interface (CLI)
- Web GUI (HTTP/HTTPS)
- NETCONF
- SNMP
- REST
- MTOSI
- Generic XML (custom)

MINIMUM HARDWARE REQUIREMENTS

- X86 based Solaris 10 system or Linux 5+ system
- Intel i7 Quad-Core Processor
- 32GB RAM
- 150MB Drive Space
- 1Gbps LAN NIC

RECOMMENDED HARDWARE REQUIREMENTS

- X86 based Solaris 10 or Linux 5+ system
- Intel Xeon E5-2648 Processor or better
- 64GB RAM
- 300GB Drive Space
- 10Gbps LAN NIC

SCALABILITY

- Supports tens-of-thousands of Network Elements
- Supports millions of Services
- High-Availability option (roadmap item)

PULSECOM

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