



# NemSiS Framework v2.0

## Product Brief

### Framework for Building Custom EMS/NMS Solutions

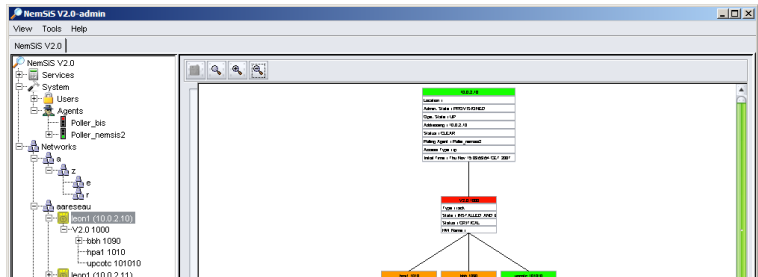
#### Key Features

- FCAPS support with focus on Inventory and Fault Management
- Full set of Northbound and Southbound Interfaces
- Robust, carrier-grade, and Highly scalable to 1000's of nodes
- Modern well proven architecture
  - Distributed: clients, server, ODBC database, polling agents
  - Polling Agents for specific devices
  - Server with Generic/Custom models
- Java J2EE and JDBC database

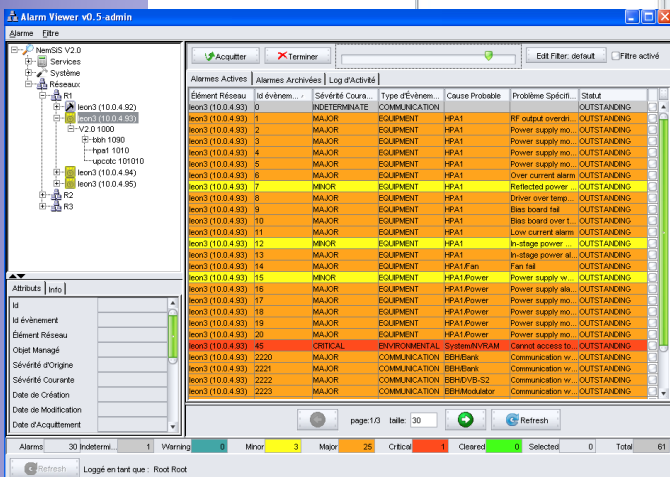
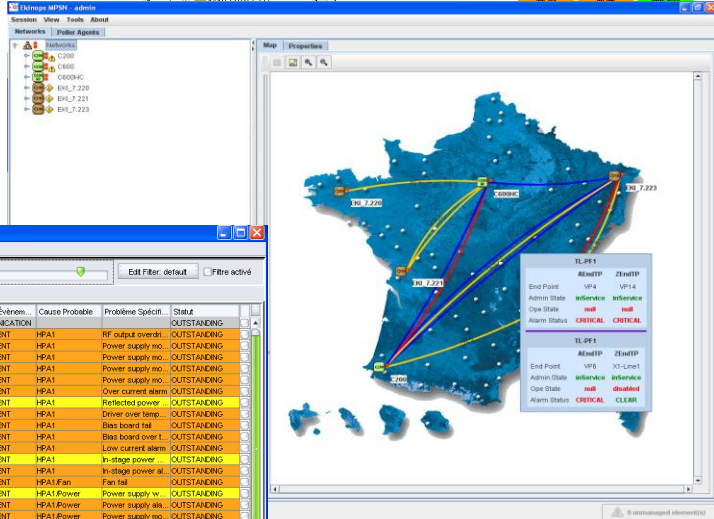
#### Key Benefits

- Easily customizable for OEMs and system integrators
- Simple to support to wide variety of network types:
  - IP networks
  - Optical networks
  - DVB networks
  - Powerline (PLC) networks
- Quicker time-to-market
- Lower Project Risk
- Simplified development
- Easy automatic update of client software

#### Inventory Browser



#### Topology Maps



#### Fault Management

# Product Description

## Discovery

- IP address scanning
- Customizable Device type identification

## Inventory

- Managed Object Model (M3100)
  - Network Element, Equipment Holder, Equipment, Port, Links
- Inventory Browser
- Operational, Administrative, Alarm Status

## Topology

- Network Maps
- Cell based hierarchy with User specified images
- Physical and Logical Links
- Alarm Status Display as Flags

## Configuration and Software Updates

- Online and Offline commands
- Enforced Planning Dates for commands
- Monitor commands progress
- Monitoring configuration inconsistencies with unplanned changes alarms
- Configuration Profiles and Templates
- Configuration/Software Upload/Download

## System Security

- User authentication/login
- Fully customizable security
  - Operator Profiles
  - Managed Object Domains
  - Access Control List, per Action Type, per User Profile per MO Domain

## Fault Management

- Customizable Alarm Synchronization
- Alarm table with user specified columns
- Alarm reduction: similarity and correlation
- Alarm Lifecycle (X.733)
- Alarm History
- Customized Filters

## Performance Management

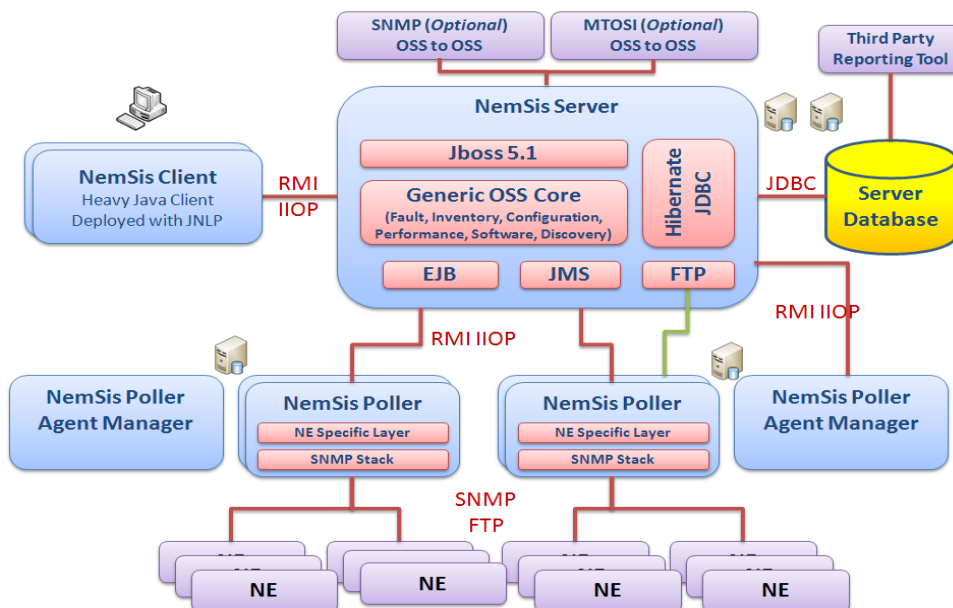
- Data Collection: FTP and SNMP

## Interfaces

- Northbound
  - MTOSI (TMF XML interface)
  - SNMP (traps)
  - OSS/J (customer request)
  - SQL for Database Reporting
- Southbound
  - SNMP V1/V2/V3 (traps, get/set)
  - FTP (client/server)
  - HTTP (client/server)
  - Telnet/SSH
  - CORBA, Others upon Customer Requests

## System Requirements

- Client/Server OS Requirements
  - Sun JRE 1.6 or above
  - Windows, Unix/Linux
- Database Requirements
  - Database supporting JDBC
  - MySQL, PostgreSQL, Oracle, SQL Server



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