\Orchestrating a brighter world

NEC

Enhanced Element Management System

UNMS EMS module

NEC
Unified Network Management System
Element Management System module

NEC UNMS MS module (NEC Unified Network Management System Element Management System module)

Main window

Total Alarms:
The total count of current active alarms (Not Ack / Total) in each category is shown at the top of the main window.

Map View:
It shows the correlated location of the network map on a graphical background

Event Log View:
It shows all events related to the network in real time.
A filter can be applied to this event log.

Map image:©OpenStreetMap contributors www.openstreetmap.org

The selected filter name is shown.   Login User Name

UNMS EMS Module Functions

Large Capacity
- Max. 10,000 NE (after weighted)
- Max. 100 User / 100 User Group
- Max. 15 Concurrent User Login

Fault Management
- Map Display
- Link Summary
- Active Alarm / Alarm History
- Event Log / Event Log History
- Alarm Panel
- Audible Alarm (Buzzer)
- Severity Setting
- Maximum Storage of Alarm/Event Logs : Up to 90 days

Performance Management
- Type of PM Data
- Threshold Setting and Alert
- Chart and Report Presentation of PMON Data
- PMON Data Storage

Security Management
- User and User Group Setting
- Password Policy enforcement
- Radius Support
- SSH/SSL
- Account Lockout
- Encryption

Configuration Management
- Auto-Discovery Function
- Offline NE Registration
- Bulk NE Program File Download (Firmware)
- Bulk Time Zone Setting

Northbound SNMP Interface (NBI)
- SNMPv1
- SNMPv2c
- SNMPv3

Southbound Interface
- SNMPv1
- SNMPv2c
- SNMPv3

Virtual Server

Specifications are subject to change without prior notice
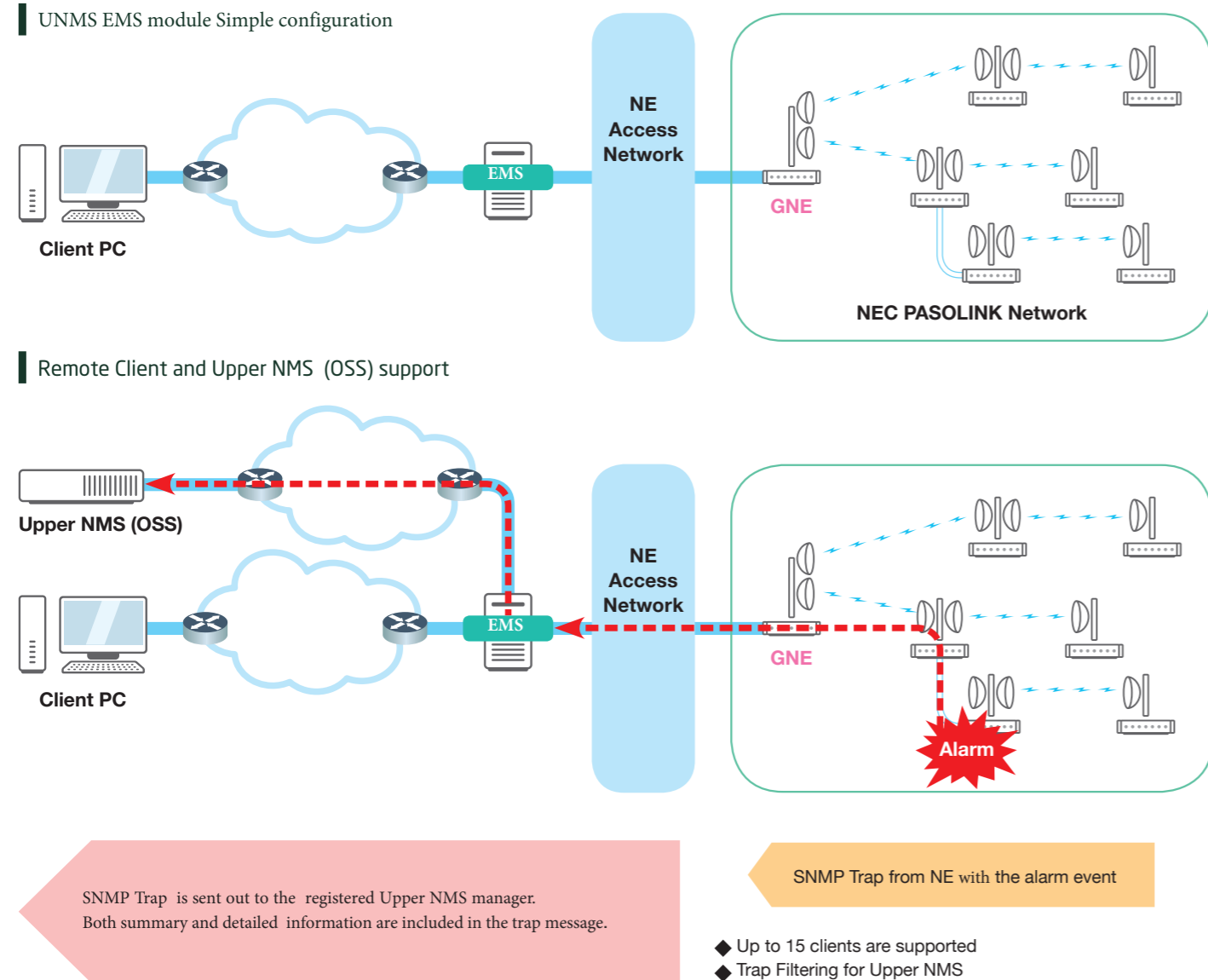
NEC Corporation
http://www.nec.com

NEC UNMS EMS module offers intuitive graphical user interface (GUI) for network operators to efficiently operate, manage and control network elements.

NEC UNMS EMS module is the enhanced element management system designed to provide operators with necessary tools for the administering, operating, monitoring and provisioning their NEC network products.

NEC UNMS EMS module collects and displays performance measures both in real-time and historical. It also has an interface to support optional report function tool that allows the operator to generate meaningful reports regarding the network performance. Northbound Interface (NBI) is available to support SNMP v3/v2c/v1 integration with OSS. It is also has a built-in interface for integration to NEC Unified Network Management System (UNMS) platform.

Network Elements(NE) can be configured remotely while security is maintained by employing enhanced security functions and protocols.

Typical system configuration of UNMS EMS module solution

UNMS EMS module Simple configuration

Remote Client and Upper NMS (OSS) support

SNMP Trap from NE with the alarm event

SNMP Trap is sent out to the registered Upper NMS manager. Both summary and detailed information are included in the trap message.

◆ Up to 15 clients are supported
◆ Trap Filtering for Upper NMS

User-Friendly Configuration management

Hierarchal View/Network Map
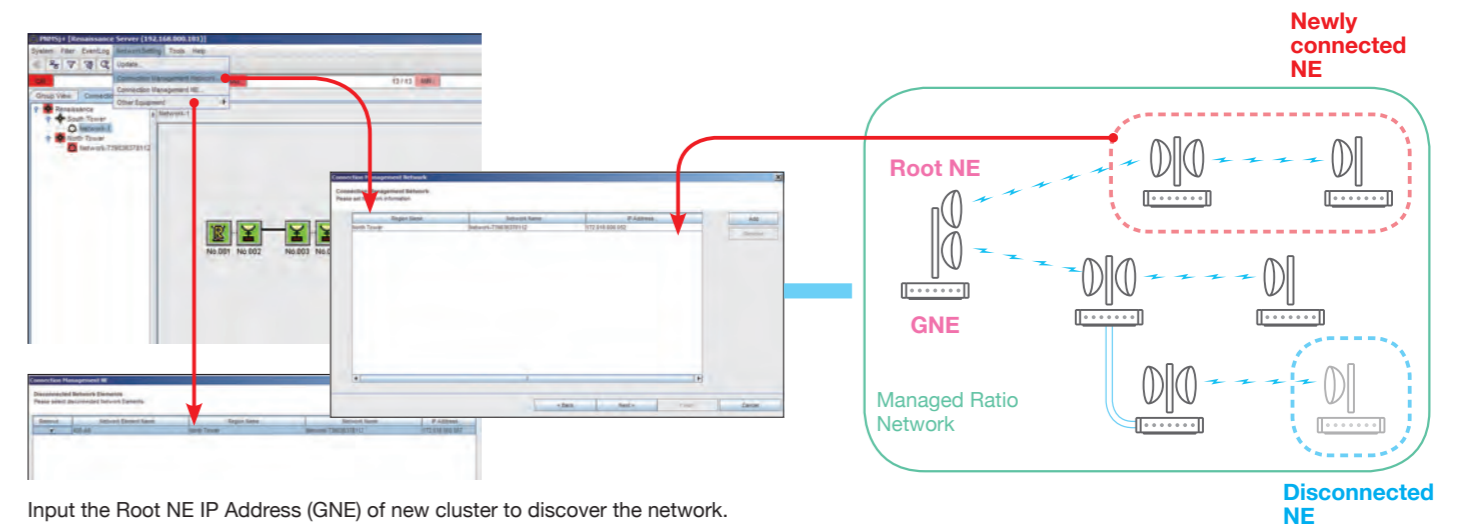
Link Summary

Active Alarm

NE List

NE Statistics

The UNMS EMS module GUI has a standard architecture containing standard menus and functions that makes straightforward navigation of the UNMS EMS module windows.

Auto-Discovery

Auto-Discovery function is supported for simplified network setup.
This reduces the workload when adding new NEs and modifying the existing radio network.
There no longer need to download configuration files and import NCT file in the UNMS EMS module for changes in topology.

Newly connected NE

Root NE

GNE

Managed Ratio Network

Disconnected NE

Input the Root NE IP Address (GNE) of new cluster to discover the network.
Then the newly connected NEs will be automatically detected.
Selecting the "Newly connected NE" from the pull down menu will allow the establishment of connections to the new NEs.
The disconnected NEs can be selected and deleted.

UNMS interface

NEC's NMS Solution

NEC UNMS offers L1/L2 Path management function that has been designed to be intuitive and reduce the time-to-configure of paths and sections for the network operators. Backhaul Resource Manager (BRM) function is accommodated dynamically control and optimize the network.