

Element Management System

Element Management System (EMS Lite) is a smart, secure, lightweight, scalable, and easy-to-use application suite for managing UBRs (Network Elements). It offers a comprehensive set of network management tools that are easy to use from a client workstation configured with a web browser. EMS offers full FCAPS (fault, configuration, accounting, performance, and security) features in a highly scalable, feature-rich, resilient, and flexible platform that enables mission-critical, next-generation wireless networks for enterprise and service provider deployments



Software Features in EMS Lite System

Discovery

Used to discover and add new network elements to the system. Elements can be added via IP address.

Dashboard

Single-page view of the complete status of the network. The page includes pie charts showing device status, performance information, alarm and audit log summary

View Devices List

A list view of all devices, bifurcated based on topology. Important device parameters and status of the device can be visualized and exported into a report.

Reports

Reporting module for performance, inventory, audit logs, and alarms. Hourly, daily, and weekly reports can be downloaded from this module.

Hardware Replacement

Provision to replace a faulty hardware in the field with a new one. Data from the old hardware is restored to the new one to ensure smooth transition.

Single Device View

Detailed information of each device is shown with line graphs for various parameters.

Firmware Update

Element

Framework to update the firmware of the elements in a failsafe way. This can be done for single or multiple devices

System

Module to back up the entire EMS data. This data can be used to restore data in a faulty system or to create a new EMS system

Topology Creation

Simple interface to create topology levels in the EMS. Up to 6 levels of topology can be created.

Topology (Maps)

Visual representation of the location of elements on Google Maps. Each device and its links can be visualized in this page.

Device Polling

Performance parameters and other important information is polled from the device at regular intervals. (Default 5 minutes).

1+1 Redundancy Support

1+1 redundancy feature supports 1+1 DC (Data Center) + DR (Disaster Recovery) deployment for the enhanced resilience.

Back up and Restore

Element

A system to backup device configuration (both manual and automatic) and the ability to restore the data if required

System

All data of the EMS is backed up on a daily basis. This can be used to restore the data of the entire EMS system in case of a system failure. The backup and restore process is automated and takes place in the background. Users can restore the data to a specific point in time, if necessary.

Roles, Users, and Login

Framework to create roles and users. Role privileges and access can be managed from this module.

Alarms

Critical, major, and minor alarms are triggered based on user configuration of thresholds. Alarms are also triggered for system events like link up and down.

Provisioning

EMS Lite can set any of the editable parameters in the network elements. This can be done for a single element or for a group of elements. Provisioning can also be scheduled to take place at a later time.

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