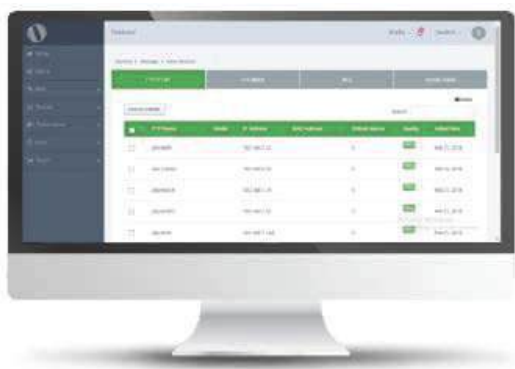


iEon - Element Management System for UBR



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



Supported UBR Family Models

- ion4l
- ion4xl
- ion8xl

Key Capabilities/Features in EMS

Network Architecture

EMS architecture is defined based on ITU-T Rec M.3010 which comprise of eMS, NMS and OSS/BSS systems. Architecture has been layered horizontally into five layers, Business Management Layer, Service Management Layer, Network management Layer, Element Management Layer and Network Element Layer

Configuration Management

Simple interface to create, update, delete and retrieve the managed network topology levels in the EMS. EMS can set any of the editable parameters in the network elements from a central location. This can be done for a single element or for a group of elements. Configuration can also be scheduled to take place later. Framework to update the firmware of the elements, this can be done for single or multiple elements. EMS system supports backup device configuration (both manual and automatic) and the ability to restore the data if required.

Viewing and Reporting

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. EMS supports email alerts and SNMP V2/V3 and forward alerts via Syslog server or SNMP trap.

Security Management

User activities are logged by EMS audit trail mechanism for future inspection. Framework to create roles and users. Role privileges and access can be managed from this module. Users with Read only, Read-write, etc privilege can be given based on topology. Option to block unauthorized user access.

FCAPS

FCAPS is built as per ITU M.3040 standard. With a design based on the FCAPS model, this software includes fault, configuration, accounting, performance and security management functions.

Software Management

EMS supports to update the software of the entire EMS system. Allows to keep latest software versions in the EMS system. Supports multiple software versions upgrade to single or multiple elements. EMS supports FTP for updating software versions or patches to the network element. EMS supports software update for local and remote elements.

Inventory Management

Complete inventory of elements differentiated based on topology. Important device parameters and status of the device can be visualized and exported into a report. Detailed information of each device is shown with line graphs for various parameters. New Elements can be discovered through IP address or MAC address base. System supports IPV4/6 discovery with single or bulk operation.

Performance Management

Performance reports by different time cuts (hourly, daily, weekly, monthly, etc.). Option to export the reports in Excel, .csv format, etc. Critical, major, and minor alarms are triggered based on user configuration of thresholds. Performance report covers, Traffic statistics, Bandwidth utilization, and connectivity time.

Hardware Modeling & Redundancy

EMS software is flexible to run on any off-the-shelf carrier grade x86 server or on cloud based infrastructure. According to deployment and requirements, carrier grade server should meet minimum specifications. Hardware dimensioning will vary, or change based on the element support. The redundancy options are 1:1, 1+1, N:1 or N+1.

Integration

Open North bound interfaces such as XML or TMF-CORBA can integrate with the other standard based NMS system.

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Email: iosupport@hfcl.com

Website: hfcl.com | io.hfcl.com

Office: 8, Commercial Complex, Masjid Moth, Greater Kailash II, New Delhi 110048