

ELEMENT MANAGEMENT SYSTEM

FRAMEWORK





» Secure Role and View-based access

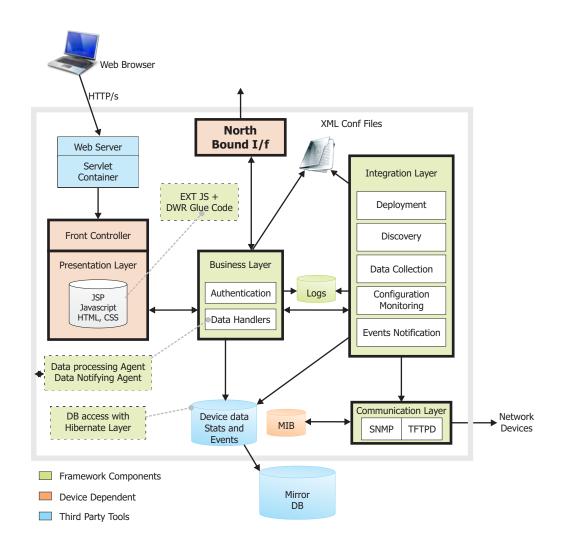
» Firmware and Configuration Upgrade Capabilities

EMS/NMS System Capabilities » Complete FCAPS Functionality Support: Fault, Configuration, Accounting, Performance » Security Management » Ability to Support Complete CLIENT's Product Family with device specific Customizations. » Independent Stand-alone as well as a Scalable Web-based EMS Solution. » Completely Customizable User Interface » Ability to integrate with third party Network Management Solution using Standard Northbound Interfaces: SNMP v1/v2/v3, XML based, Adaptable to other proprietary interfaces. EMS Framework Key Features » Automatic/Manual Discovery of Network Devices » Configuration of parameters using user friendly forms and template UI panels. » Graphical Map based network/equipment view or Logical network Topology View with Color coded status. » Integration with Google Maps: Network Topology & Grouping of the devices based on specific device characteristics, connectivity or geographical location. » Alarms as well as Statistical Data Gathering/Reporting/ Storing capability: Customizable Templates for Reporting and Monitoring Views. Monitoring with real-time Charts. Trap Syslog viewers

EMS ARCHITECTURE

Web-based EMS Architecture

ALTEN Calsoft Labs' EMS solution is a web-based, management application framework built using Java Servlet(J2EE) and Ajax technology. The use of Java and Ajax technology enables the EMS solution to run on many platforms such as Windows, Linux and UNIX variants. The overall architecture is a typical web-based client server design with multi front controller, presentation, business and integration layers.



Benefits of our Framework

ALTEN Calsoft Labs' offers production-ready EMS/NMS application development services based on our proprietary EMS/NMS framework. ALTEN Calsoft Labs' EMS/NMS framework provides leading edge EMS technology solution which includes ready to use framework architecture, design templates leveraging the latest GUI technologies, toolkits and standard management and web technology interfaces.

ALTEN Calsoft Labs' EMS solution serves as a flexible, secure, scalable framework around which any level of customization can be ordered for integration with existing network systems.

EMS FRAMEWORK

- » Customization and integration of solutions include
 - Custom development of adapters/clients to help rapidly integrate a vendor's existing technology into new EMS/NMS system.
 - Integration/Adaptation with existing FCAPS functionality
- » Custom development of graphical user interfaces (GUIs), features and tools for particular client requirements.
- » Customization of output format of generated reports on alarms, user credentials, Configurations, Network inventory profile, etc,
- » Custom development of application interfaces for northbound systems (e.g., features and/or tools to deal with particular needs of a customer or partner).

ALTEN Calsoft Labs' EMS/NMS solution together with its competent product engineering/customization service will fulfil a large spectrum of networking devices and equipments.

EMS FEATURES OVERVIEW

Configuration Fault Accounting **Performance** Security ☑ Alarm and Event ☑ Configuration ☑ Billing subsystem Authentication, Collection. Mgmt of multiple parameters implementation Authorization ☑ Fault Management retrieval from types of devices. in agent & manager mechanisms support on the network elements Auto discovery. ☑ Resource usage, User access agents Statistics collection cost, limits. ☑ Firmware change control with ☑ Alarm/Event report management. ☑ Integration with ☑ Thresholds. Alerts /Filtering various levels ☑ Network/User/ 3rd party billing ☑ Performance Used based views ☑ Fault diagnostics, End-to-End service analysis, statistics Correlation analysis mediation. provisioning. Secure devices & reporting ☑ Integration with ☑ Integration of Equipment Views interface SSL etc. open network Capacity planning billing and CRM management ☑ Network views & control modules. systems. with drag and drop trail logs ☑ Real time ☑ HP- openview function. monitoring charts Advent net webNMS Auto software northbound ☑ Integration with distribution interface, LDAP trouble ticketing ☑ Remote config systems. support ☑ Backup/Restore Alarm display on application and web based GUIs.

ABOUT ALTEN CALSOFT LABS

ALTEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALTEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi- tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALTEN Calsoft Labs is a part of ALTEN group, a leader in technology consulting and engineering services.

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