MOTOROLA *SOLUTIONS*

LTE BROADBAND OPERATIONS SUPPORT PLATFORM

The business of providing safety and service to the public is a 24/7 operation. Ensure personnel have the communication network they need for successful operations with Operations Support Platform (OSP) from Motorola Solutions and gain the comprehensive access to the tools and information you need to confidently manage and maintain Motorola Solutions LTE broadband systems.

ONE REAL-TIME VIEW

A web-based portal means you have a single point of easy access to all your network operations with intuitive visibility to your alarms, performance stats, usage reports and more. Network information can be viewed as an overlay on a geographic topology for a real-time visualization, in graphs for trend analysis or in tabular format, while correlated data provides a complete view of the health and status of your communication system.

SIMPLIFIED OPERATIONS

Built-in functions are optimized for public safety workflows with real-time displays for incident and emergency management. Analytics deliver the most relevant information front and center and key performance thresholds alert personnel when events exceed operational norms.

SECURE ENVIRONMENT

Centralized security protects your mission-critical network and individual agency database partitions from unauthorized access. Role Based Access controls what users can do based on their role within the agency while audit trails document chronological sequences and activities.

FUTURE READY

Advanced open interfaces allow integration with compatible third party applications and the latest interface technologies provide increased options for future systems support.

OPERATIONS SUPPORT PLATFORM

| NETWORK MANAGEMENT | UNIVERSAL PROVISIONING MANAGER | SECURITY MANAGEMENT | LOG MANAGEMENT | BACKUP AND RESTORE | EXPENSE MANAGEMENT |

NETWORK MANAGEMENT

The standards based fault management server supports SNMP to provide real-time alarm and fault notification for the LTE infrastructure, backhaul, and transport networks. An SDK enables the ability to integrate any element for alarm management that provides an SNMP interface.

FAULT MANAGEMENT CAPABILITIES INCLUDE:

- Active Alarm View
- Alarm Correlation
- Alarm Details
- Alarm Filtering
- Alarm History
- Automated Discovery and Device Inventory
- Correlation Engine
- External Notifications
- Network Explorer Tree View
- North Bound Interface
- Summary View
- Toolkit for Third-Party SNMP Elements

UNIVERSAL PROVISIONING MANAGER

Universal Provisioning Manager stores data for up to 100,000 LTE subscribers and provisions LTE devices with LTE, secure VoIP and Motorola Public Safety Applications including Intelligent Middleware Services and WAVE 7000 Broadband Push-To-Talk (PTT). In addition to individual user adds, deletes and modifications, bulk add provisioning improves on the standard manual command line interface (CLI) method, resulting in more efficient, user-friendly, and less error prone provisioning and a lower total cost of operation. Database partitioning ensures individual agencies only have access to the user and subscriber records you grant them access to.

PERFORMANCE MANAGEMENT

Performance Monitoring utilizes a number of data sources, including raw performance counters, real-time data streams and call detail records. The included data warehouse provides for long-term storage of performance data. Additionally, a robust set of 3GPP defined RAN and core Key Performance Indicator (KPI) reports are also provided. Live performance monitoring displays, including network and service performance information, allows the operator to have constant visibility into usage trends and overall performance of the network. The performance management server supports threshold alarms that can be triggered when KPI values exceed a critical level. For expanded flexibility, additional toolkits are available to retrieve performance measurements and create reports from third party SNMP elements.

SECURITY MANAGEMENT

The Security server provides an aggregation point for all the security events sourced from firewalls, intrusion detection systems, host-based anti-virus software and syslogs from the network elements. The aggregation is performed for the entire communications system and provides a central repository and event parsing for logs that aid in the detection of security threats and possible intrusion incidents.

LOG MANAGEMENT:

The Log Management server provides standard and customizable dashboards for the centralized and real-time monitoring of logs and security events generated by: the DNS server, the NTP server, EPC firewalls, routers and switches and up to 500 eNBs. Log management also supports log correlation which is essential to performing in-depth threat analysis, forensics, and overall system monitoring.

BACKUP AND RESTORE

Backup and Restore protects critical data on the LTE network including; configurations, provisioning and other files, from loss in the event of a disaster or a malfunction with network appliances and applications. The backup function provides a unified, network wide method to routinely update and maintain data for Motorola Solutions, Ericsson and selected third party elements. Bulk offload capability (i.e. network backup, DAS, external hard drive) facilitates off-site storage. In case of a disaster or a fault, the restore function repopulates network device application servers with key data from previous backups with no or minimal disruption to the LTE network.

EXPENSE MANAGEMENT

Expense Manager supports multiple subscriber usage ratings. Usage can be rated by pay-as-you-go, fixed or location. These options allow the flexibility for you to choose the charging plan that best fits your business model.

To learn more about how Operations Support Platform provides the single point of access to the tools and information you need to manage and maintain Motorola Solutions LTE mission-critical broadband communication systems, contact your Motorola representative or visit **motorolasolutions.com/publicsafetylte**.

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