

## EION Subscriber Manager

### WiMAX Subscriber Device Configuration and Performance Management



**EION Subscriber Manager provides complete monitoring and control of WiMAX subscriber devices.**

#### PRODUCT FEATURES

- Enhanced FCAPS Capability
- Remote Subscriber Station Upgrade
- Device and Profile Lists via XML
- High Level Reporting

#### OVERVIEW

- Client-server architecture provides full-featured intuitive interface for advanced management of subscriber devices
- Performance collection for subscriber devices to gather statistical data
- Provides Northbound Interfaces for OSS Integration
- Supports import of device and profile lists (via XML)
- Support for several WiMAX subscriber devices with TR-069 or OMA-DM management protocol

#### CONFIGURATION AND FIRMWARE MANAGEMENT

Configuration management enables operators to configure subscriber devices in addition to remote software loading-activation via TR-069 or OMA-DM. These functions include:

- Subscriber Station configuration
- Remote Subscriber Station upgrade
- Bulk upgrade for all Subscriber Stations of the same type
- Configuration file management
- Remote Subscriber Station reboot
- VoIP configuration

Supported features depend on the Subscriber Station Type.

## EION SUBSCRIBER MANAGER

### PERFORMANCE AND ACCOUNTING MANAGEMENT

Network performance and usage data from each subscriber device network are readily available to the operator. The collected statistics include:

- Packet Counters
- Throughput Statistics
- Error Counters
- Radio Performance (Uplink/Downlink CINR and RSSI)

All the measurements and statistics are performed in one hour intervals. Gathered data is stored in the database and retrieved on demand for reporting, troubleshooting and trend analysis. Data is available in both text and graphic format.

### REPORTING

Various reports are generated daily to provide high level overview of the system like:

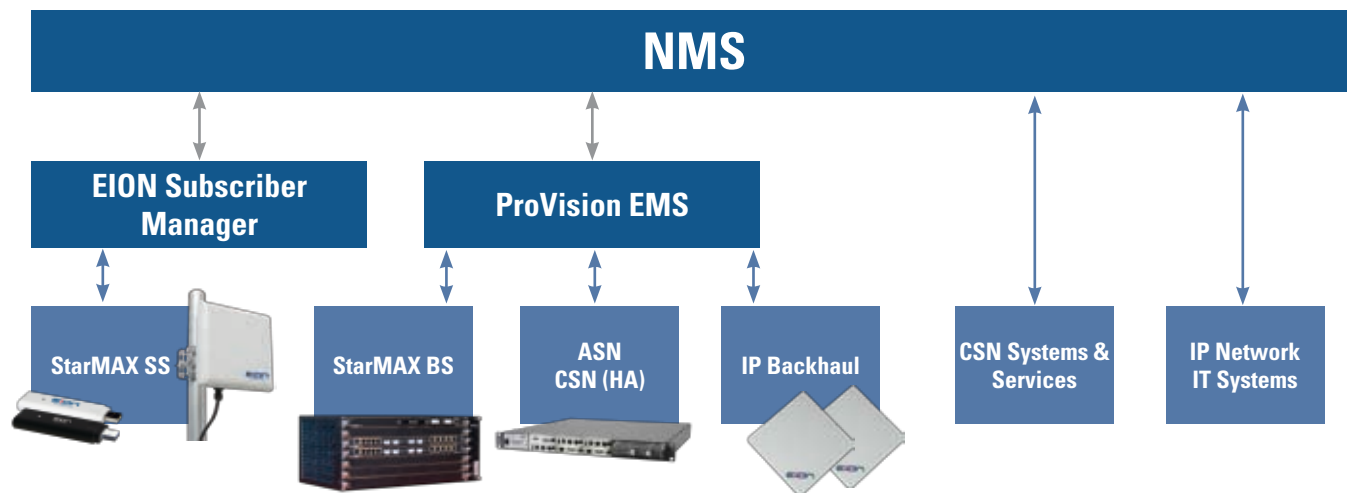
- Firmware revision and upgrade reports
- Not authorized connection attempts
- Daily unique Subscriber Station count

### SECURITY MANAGEMENT

Each EION Subscriber Manager client implements several layers of security:

- Authentication
- Authorization
- Logging

All Management activities are logged including login/logout, provisioning activities and system failures. Operators must login before they are allowed to use the system. The system supports several levels of authorization, assigned to different operators based on their user role/privileges.



### SYSTEM SPECIFICATIONS

HW Platform	Operating System	Server Support	Client Support	MySQL Database Option	Oracle Database Option	Supported Subscriber Devices
Intel	Windows (7, XP Pro, 2003/2008 Server)	Yes	Yes	Yes	Yes	30,000 / server
SUN SPARC	Solaris 10	Yes	No	Yes	Yes	100,000/server