



RuggedMAX™ WiNMS Network Management System



The WiNMS is a member of the RuggedMAX™ family, a line of WiMAX-based Broadband Wireless Access systems. RuggedMAX™ systems are designed for robustness and simplicity, offering feature-rich services with low deployment and operation costs, for unmatched competitiveness and fast ROI.

WiNMS is a comprehensive network management system for RuggedMAX™ products-based networks. WiNMS provides all the network surveillance, monitoring and configuration capabilities required to effectively manage the network while keeping the resources and expenses at a minimum.

WiNMS offers a unified, scalable network management solution. WiNMS uses a distributed architecture, providing a robust, scalable and fully redundant network management system in which all single point of failures can be avoided.

WiNMS supports common network management applications providing comprehensive Fault, Configuration, Performance and Security management functionality:

Fault Management: Alarms and events real-time reporting, alarm sorting and filtering, alarm status management, event logging, historical event queries and color-coding according to severity.

Configuration Management: Device discovery and scheduled periodic updates, hierarchical location and

management, single and multiple unit configuration and software upgrade, unit configuration, logical and geographical topology views and inventory management.

Performance Monitoring: Monitoring of traffic load, wireless link performance parameters and quality of service performance statistics to identify problems and bottlenecks, maximize traffic capacity and optimize resource allocation.

Security Management: User management, user groups, functional permissions and passwords for multi-level authorization and access protection.

The system's components are designed to support a variety of system architectures for maximum flexibility enabling easy changes throughout the life cycle of the system. Supported architectures start with the minimal "All-in-One" system where all components reside on the same computer, through entry level systems with several remote Clients, to fully distributed systems and high-availability architectures with various redundancy and backup schemes. This flexible architecture provides a pay-as-you-grow strategy and on-the-fly system expansion and architecture for cost effective implementation.



Specifications:

Hardware Requirements:

CPU 733 MHz or higher
 Memory 256 MB RAM or Higher
 Disc Space 320 MB + 200 MB Swap minimum

System Features:

Application WebLogic JBoss
 Web servers Apache/Tomcat Java Web Server
 Client Java application client
 Java Runtime Environments JRE 1.4.2, JRE 1.4.0, JRE 1.3.1 (JRE)
 SNMP V1, V2, V3
 ITU/TMF ITU M.3100
 Standards support TMF 513
 TMF 608
 TMF 814A

WinMS Options:

	Standard	Advanced
Size of managed networks	Small and medium sized networks	Large and carrier-grade networks
Maximum number of concurrent clients	5	10 (can be scaled higher with more front-end servers)
Supported Databases	MySQL	Oracle MySQL

Supported Operating Systems:

Windows NT 4/2000/XP5.1/2003
 Linux / Solaris To be supported

Features:

Discovery
 Topology
 Map
 Fault/Alarms and Events Management
 Configuration Management
 Bulk Operations
 SW Management
 Performance Management
 Security Management
 Policy
 Reporting
 SNMP Northbound (optional)
 CLI Northbound (optional)
 IEEE802.16f/i MIB

TL1 Northbound (optional)
 CORBA Northbound (optional)
 Failover
 Distributed Front End / Load Balancing
 Remote Management
 TMF Support
 Log Monitoring
 Task Scheduling
 User Monitoring

Supported WiNetworks Systems:

16e family BST

Advanced Features (advanced version only):

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