WebNMS Framework

WebNMS Framework is a comprehensive network management platform that offers purpose-built applications and tools designed to simplify the management of networking devices and resources.

WebNMS Framework enables network monitoring, configuration and troubleshooting of each device or resource and manage an entire network from a single platform. WebNMS Framework has a true N+ architecture that allows multiple users to access its services simultaneously.

It delivers network level management while providing access to various element managers.

Its functionalities include:

- Unified management: It provides a common graphical interface and network management infrastructure for performing management functions, integrating applications, and unifying element management across multiple devices.

- Network-wide visibility: It enables extensive view and in-depth reporting of network activity across the network with functions such as discovery, physical and logical topology maps, centralized event management, graphs, and statistical information. This is also supported in distributed networks.

- Element management: It provides direct access to each device through its native element manager and allows all networking devices to be configured from a centralized location. It also supports policy-based management across multiple device types.

- Scalable architecture: It provides single-user and multi-user versions and an extensible architecture with applications that allow the network management environment to be tailored to the user’s network and budget needs. It supports management of very large networks with capability to distribute network facing functionalities across servers.

Comprehensive Network Management Functionalities
WebNMS Framework platform provides a solid foundation that is based upon:

**Widely Deployed Platform**

Over 120 network equipment vendors including large incumbents like Lucent, Nortel, Motorola, Siemens, Ericsson and startups like Movaz, Turin and others have successfully implemented and deployed management applications based on WebNMS Framework. WebNMS Framework has also been selected as a management platform for building NMS solutions by Service Providers such as Chunghwa Telecom, PT Telecom, Nexagent, Equant, and Uninet. Added to the proven track of Web NMS, it brings a cost-sensitive and feature-rich platform for developing a prudent network management solution.

**Productivity Enhancement Platform**

WebNMS Framework comes bundled with Studio Tools - with plugin for Eclipse IDE that enables easy design, development and maintenance of network management applications. For rapid development WebNMS Framework provides a comprehensive code-generation wizard that complements resource modeling and service customization tools by enabling complex instrumented applications. Additionally, WebNMS Framework offers Project Tools which are useful in development, testing, deployment, maintenance, support and re-licensing of WebNMS Framework based applications.

**Customization Capabilities**

WebNMS Framework facilitates advanced customization of management services through discovery filters, alarm and event filters, rules, and correlation logic with minimal coding. Purpose-built WebNMS Framework platform readily enables customization to varies technology domains that include ATM, SONET/SDH, Optical, VoIP, VPN, Cable, Wireless, Storage, and others.

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### WebNMS Framework Benefits

**Deployment Benefits**
- OSS Integration – NMA/TIRKS, OSMINE
- NE integration (TL1, SNMP, CORBA, CLI, XML, JMS...)
- BSS Integration (Remedy ARS)
- Deployment Flexibility
- Customizable GUI (for operators, administrators, planners etc.)

**Developer Benefits**
- Comprehensive FCAPS functions
- Provisioning, Policy, CNM, MTNM
- Productivity enhancement tools
- Prebuilt object models
- State-of-the-art technologies (J2EE, XML, Web services,...)
- Cross platform

**Business Value**
- Industry Standard Platform – 300+ custom implementations
- Orders of magnitude savings in total cost of ownership
- Deliver in months rather than years
- Investment protection – unified Platform
WebNMS Framework includes the following applications:

**Fault Management**
- Event/trap processing – filtering, suppression, propagation; with intelligent correlation
- Alarm drill down categorized by severity, managed resource type, time of day etc.
- Problem resolution work flow management – categorize alarms as open, closed and acknowledged

**Configuration Management**
- N-tier architecture with server support for storing, scheduling, auditing etc.
- Supports parameterized XML tasks for easy management of configuration functions
- Supports rollback capability for recovery from failures

**Discovery**
- Auto-discovery and topology update
- Rich information model to capture attributes of heterogeneous networks with deep discovery
- Topology summary and hierarchical representation of managed resources
- Intelligent grouping for simplified configuration management

**Performance Management**
- Analyze, filter and aggregate network performance data
- Distributed multi-tier architecture in the Polling Engine to provide more scalability and reliability.
- Customize aggregation policies
- Multi-level thresholding and hysteresis
- Intuitive and graphical performance management reports

**Security Management**
- Fine grained and extensible authorization including support for users, groups, roles, operations and object views
- Secure authentication and access control including SSL and secure RMI server access control
- J2EE security model support

**Inventory Management**
- Complete infobase of components and devices across the network
- Can also be integrated with any third party inventory management system
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Powering Element and Network Management Solutions

Product Brief

<table>
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<tr>
<th>System Features</th>
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<tbody>
<tr>
<td><strong>Application Servers</strong></td>
<td>JBoss</td>
</tr>
<tr>
<td><strong>Web Servers</strong></td>
<td>Tomcat</td>
</tr>
<tr>
<td><strong>Choice of Clients</strong></td>
<td>Java application client, Applet client, Web (HTML) client, and Java WebStart client</td>
</tr>
<tr>
<td><strong>Web Browsers</strong></td>
<td>Internet Explorer, Mozilla, FireFox</td>
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<tr>
<td><strong>Java Runtime Environments (JRE)</strong></td>
<td>JRE 1.6 (All Editions)</td>
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<tr>
<td><strong>JDK</strong></td>
<td>JDK 1.5 (All Editions)</td>
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<tr>
<td><strong>XML Parsers</strong></td>
<td>Any JXAP 1.4 compliant parser</td>
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<tr>
<td><strong>Language Support</strong></td>
<td>JDK 1.6 Internationalization API</td>
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<tr>
<th>WebNMS Framework Professional Edition</th>
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<tbody>
<tr>
<td>21004.0D</td>
<td>Named Developer License Fee per seat</td>
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<tr>
<td>21004.0ROBP</td>
<td>Professional Edition runtime : BE Primary Server (Mandatory)</td>
</tr>
<tr>
<td>21004.0ROS</td>
<td>Professional Edition runtime : BE Secondary Server (Optional)</td>
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<tr>
<td>21004.0PMS</td>
<td>Maintenance and Support Tools (Optional)</td>
</tr>
<tr>
<td>21004.0PS</td>
<td>WebNMS Framework Test Suite (Optional)</td>
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<th>Hardware Requirements</th>
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<tbody>
<tr>
<td><strong>CPU</strong></td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Memory</strong></td>
<td>1 GB RAM or Higher</td>
</tr>
<tr>
<td><strong>Disc Space</strong></td>
<td>400 MB + 200 MB Swap</td>
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About Zoho Corporation

Zoho Corporation provides affordable software for database migration, management and provisioning of complex networks, systems, and IT applications. With a broad product portfolio and an active customer base ranging from enterprises, equipment vendors, and service providers, Zoho Corporation has emerged as a very affordable and high-quality alternative to expensive software that is common in this industry.

Zoho Corporation has offices in CA, Austin, New Jersey, Chennai, Singapore, Tokyo and Beijing. It has a well-trained partner base around the globe and thousands of customers world-wide. For more information, call 925-924-9500 or visit our Web site at: www.webnms.com.