Dhyan NetMan® is a powerful and robust software suite to manage and control networks, in both telecom and data networking spaces. Dhyan NetMan® can be configured with a full complement of Fault, Configuration, Topology, Performance and Security features to simplify the management of complex networks.

Dhyan NetMan® enables network administrators to efficiently monitor status and performance of all devices. Administrators can monitor network performance from any browser and pinpoint bottlenecks in real-time. With advanced Fault management features, Dhyan NetMan® provides alarm filtering, alarm correlation, and alarm handling features to help administrators isolate and correct problems in the network.

The Dhyan NetMan® User Interface has been designed with ease of use in mind to simplify the administrator’s tasks. Navigation between applications is simple and intuitive, with consistent access to reports and screens. Administrators can bring up any report quickly, in just two or three clicks. The user interface uses the latest technologies including AJAX, HTML5 and Bootstrap, to provide a rich and responsive user experience.

**Topology Display**

Dhyan NetMan® has the intelligence to automatically discover elements in the network and present a map view of all the deployed units, using a Google Map network view. It highlights faults in the network by using intuitive color coding for each network element. The operator can easily bring up details on any device from the map view.

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**Key Features**

- Scalable architecture can handle large networks
- Powerful Fault Detection and Reporting for problem resolution
- Intuitive state of the art web-based GUI for operator efficiency
- Enhanced network visualization using Google Maps support
- Built-in Trouble Ticketing interface
- Network element Auto-discovery and provisioning simplifies installs
- Bulk & Scheduled Element Provisioning Support
- Flexible graphing & reporting of key network metrics
- Simple to use reports on Top ‘N’ and Bottom ‘N’ indicators
- Supports SLA monitoring and assurance.
Fault Reporting

Dhyan NetMan® offers an intuitive GUI for tracking alarms and recording all the faults in the network. It has a built-in trouble ticketing interface to aid the administrator in managing the faults. Dhyan NetMan® has a range of publishing and display tools including automatic filtering, and forwarding of alarms to email or pager to ensure timely notification of problems.

Configuration

Dhyan NetMan® supports provisioning and software update of network elements. The operator can make use of template-driven bulk provisioning to update multiple network elements with a single command. Periodic scheduling of repeated tasks, including software upgrade, in non-peak hours can also be done to minimize impact on services and reduce administrator task load.

Reports

Dhyan NetMan® can monitor multiple key performance metrics continuously for each configured network element, and display the results in multiple report formats for the convenience of the administrators. It can generate reports such as Top ‘N’ Users, Bottom ‘N’ subscribers bandwidth usage or other key metrics within the defined network. These reports help the administrator to quickly identify the bottlenecks and problems within a specific network.

Both real-time reports and historical data reports are readily available.
SLA Assurance

Dhyan NetMan® generates reports on availability of all configured network elements and makes that data available in intuitive report formats. These availability reports help the service provider monitor the availability of all equipment within the network so as to offer a guaranteed SLA (Service Level Agreement) for the end-customer. Dhyan NetMan® provides availability statistics such as MTTR (Mean time to Repair), MTTF (Mean time to Failure) and MTBF (Mean time between Failure) to help the administrator narrow down the network problems related to specific equipment.

Dhyan NetMan® also has support for enforcing thresholds of various performance metrics. Using the threshold support, administrators can be warned of performance degradation rapidly and take necessary preventive actions to provide the guaranteed SLA.

Security

Dhyan NetMan® includes extensive security features for management of administrative user logins, based on the JAAS framework. These security features enable administrators to implement fine-grained security policies, with user-friendly access tools, to provide appropriate controls over access to network resources.

Robust Scalable Component Architecture

Dhyan NetMan® is built on a robust EJB and J2EE server infrastructure to provide an easily extensible, highly available management solution that can be deployed in a small configuration and then grow as needed. Dhyan NetMan® can be deployed in highly available configurations using clustering. Dhyan NetMan® can work with any JDBC-compliant database, and can run on either Unix or Windows servers.
Dhyan NetMan® can be customized for most application environments and equipment. The component-based architecture supports either delivery of a subset of the product features for rapid deployment, or the full management application suite, fully customized.

### Minimum Hardware Configuration for Dhyan NetMan®

<table>
<thead>
<tr>
<th>System Requirements</th>
<th>Microsoft</th>
<th>Linux</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Server Operating System</strong></td>
<td>Windows 2008, 2012 R2 Server Windows 7,8,10 (32 and 64 bit)</td>
<td>Red Hat Enterprise Linux 6 CentOS 7 (32 and 64 bit)</td>
</tr>
<tr>
<td><strong>Server Processor Type</strong></td>
<td>Xenon and Equivalent</td>
<td>Xenon and Equivalent</td>
</tr>
<tr>
<td><strong>Server Processor Speed</strong></td>
<td>2GHz</td>
<td>2GHz</td>
</tr>
<tr>
<td><strong>Server RAM</strong></td>
<td>8 GB Minimum</td>
<td>8 GB Minimum</td>
</tr>
<tr>
<td><strong>Server Disk Space</strong></td>
<td>40 GB Minimum</td>
<td>40 GB Minimum</td>
</tr>
<tr>
<td><strong>Client Browser</strong></td>
<td>Internet Explorer 10.0 or higher Mozilla Firefox 50 or higher Chrome 40 or higher</td>
<td>Internet Explorer 10.0 or higher Mozilla Firefox 50 or higher Chrome 40 or higher</td>
</tr>
<tr>
<td><strong>Database</strong></td>
<td>Oracle, MySQL, PostgreSQL, MS SQL</td>
<td>Oracle, MySQL, PostgreSQL, MS SQL</td>
</tr>
</tbody>
</table>