Dhyan SmartMan® is a robust and feature-rich tool that can manage smart meters and other elements in the wired or wireless network that connects them. With Dhyan’s Component Architecture, Dhyan SmartMan® can be customized to work with all Smart Grid elements. SmartMan has advanced functionality that makes Smart Grid use more efficient and cost-effective.

In addition to managing meters, SmartMan® can also manage the wireless or wired network infrastructure that is part of the overall data collection network. SmartMan can manage other electrical devices on the grid such as air conditioners, refrigerators, and other home appliances.

The user interface of SmartMan® has been designed with utility operators in mind. The interface uses technologies such as AJAX and Flash to enhance the user experience and help with productivity. Graphical and text-based reports are available with analysis tools. These tools allow operators to filter what they see and address priority events.

Deployment Manager

Dhyan SmartMan® Deployment Manager can use the Google Maps view to display individual meters, meter regions, and all devices that are part of the Smart Grid network. It uses color coding to help users easily detect faulty devices and view outages.

**KEY FEATURES**

- Scalable Architecture to manage millions of smart devices (such as meters)
- Can be deployed in the cloud
- Deployment Manager with meter auto-discovery
- Defect Detection and Tracking for isolating and correcting problems
- Software Upgrade Manager to streamline field updates
- Enhanced visualization of meter deployment with Google Maps
- Built-in Trouble Ticketing Interface for tracking field issues
- Flexible Graphing and Reporting for outages and usage
- Automatic reports on critical meters and critical regions for fast drill down
- Reports on Top 'N' users or Bottom 'N' meters in any region
- Monitors energy usage to support alternative rate agreements
- Manages monitoring devices connected to a meter
- Provides support for WiFi, WiMAX and ZigBee standards
- Network support to manage Smart Meter network links
Defect Detection & Tracking

Dhyan SmartMan® offers an intuitive GUI for recording all outages and faults in the Smart Grid network. It has a built-in trouble ticketing interface to aid the administrator in managing faults. SmartMan® includes tools that allow automatic filtering and the forwarding of alarms to devices. It also features an integrated escalation engine with the ability to escalate tickets that are not addressed within a pre-defined time. SmartMan® generates reports on critical meters and regions to help operators at a utility quickly identify and address issues. Built intuitively for your needs, SmartMan's tools give your support staff an edge to stay on top of problems.

Reports

Are you in the dark about what your meters are doing? Take control of your data. SmartMan® continuously monitors all the key performance metrics for each element on the smart grid network and has the ability to generate a multitude of useful reports. Utilities can better manage demand with reports like “top ‘N’ users of power during peak time” or “bottom ‘N’ users with low-usage.” Extensive reports help the utility operator quickly identify problems within their grid. Armed with the power of data, utilities can offer customers different services based on their usage patterns.

Dhyan SmartMan® also has support for enforcing thresholds over various performance metrics. With the threshold feature, support administrators can spot performance degradation ahead of time. This allows them to take the preventive actions needed to maintain guaranteed service levels.
Installation and Upgrade Management

Dhyan SmartMan® has features to help a utility with the initial installation of smart meters or software upgrades, as well as with inventory management. Simplify the task of bringing your new devices online through the bulk import and auto-discovery features. SmartMan supports software upgrades in devices such as meters. This allows groups of devices to be upgraded on a schedule set by the operator. When hardware replacement is required, the automatic backup of device configuration data adds resiliency to the network. Dhyan SmartMan® can also be configured to maintain a full inventory of deployed equipment.

Minimum Hardware Configuration for Dhyan SmartMan ®

<table>
<thead>
<tr>
<th>System Requirements</th>
<th>Microsoft</th>
<th>Linux</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server Operating System</td>
<td>Windows 2003, Windows XP</td>
<td>Red Hat Enterprise Linux 5.0</td>
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<tr>
<td></td>
<td>Professional Edition (SP2)</td>
<td>CentOS 5.x</td>
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<td>Vista</td>
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<td>Windows 7</td>
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<td>Server Processor Speed</td>
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<td>Server Disk Space</td>
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<td>Mozilla Firefox 3.x or higher</td>
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<tr>
<td></td>
<td>Mozilla Firefox 3.x or higher</td>
<td>Chrome 40.x or higher</td>
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<tr>
<td>Database</td>
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<td>Oracle, MySQL</td>
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</tbody>
</table>

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