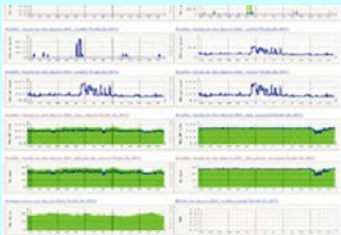


## Amperion-NMS

The Amperion NMS is a standard based network management system designed for managing and monitoring Amperion's B-PLC communications devices and network links. Utilizing a Graphical User Interface and report generation capabilities, the Amperion NMS provides continuous monitoring of the network from any location.

### Amperion-NMS

*Facilitating Management of Your Smart Grid Network*



Amperion-NMS performance report displaying performance monitoring



Google Earth map identifying geographical location B-PLC devices.

#### Automated SCADA Collection

SCADA data is collected at the substation and automatically sent across the B-PLC network to other substations and/or back to the control center saving the utility the cost of manual readings on site and improving reliability.

#### Lease Line Replacement

With B-PLC leased phone lines to substations can now be retired, saving the utility recurring telecom expenses.

#### Station Security

B-PLC is a low cost way to meet NERC-CIP requirements for station security using video surveillance to protect against copper theft and vandalism.

## Features and Benefits

### Performance Monitoring and Automated Report Generation

The Amperion NMS monitors network performance including throughput, temperature, uptime, and availability. This information can be viewed on screen or captured graphically in reports. The user has the flexibility of collecting hourly, weekly, monthly or yearly data for detailed analysis. The Amperion NMS may be configured to automatically email reports and alerts to identified users.

### Google Earth Network Visualization

Google Earth integration with the Amperion NMS provides the added benefit of a geographical display of the Amperion smart grid network. From the control center, the operator can easily identify the location of communications equipment and where problems are occurring in real-time so they may be fixed expediently.

### Configuration Management

The Amperion NMS provides a centralized portal for authorized management of all B-PLC devices in the network.

### B-PLC Fault Management

SNMP traps and Syslog messages are automatically logged in the Amperion NMS. Web-based management allows operators to view this information from any browser based client, including mobile devices.

### Remote Upgrades

The remote download capability of the Amperion NMS enables remote software upgrades to all Amperion network devices.

### Complete B-PLC Smart Grid Solution

The Amperion NMS complements the Amperion Phoenix gateway and B-PLC Coupler to make up a complete solution set of B-PLC communications on sub-transmission and transmission lines for smart grid applications.

