OpenComms Monitoring Solutions by Liebert

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- OpenComms Web Cards
- Nform network distributed monitoring solution
- MultiLink shutdown control softwear

Extending The Communication Capabilities Of Your Liebert Equipment

For enhanced remote communications and control of Liebert UPS and air conditioning units, the OpenComms Web and OpenComms NIC cards will deliver SNMP and web-management communications capabilities. Each Liebert system equipped with an OpenComms NIC or Web card takes full advantage of your Ethernet network, allowing remote monitoring from your computer desktop, network operations center or wherever network access is permitted.

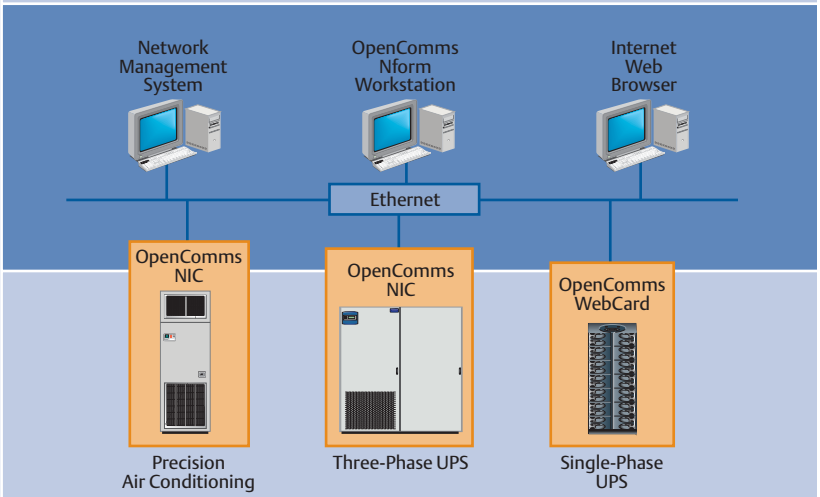
In addition to Web and SNMP capabilities, the OpenComms NIC, designed specifically for Liebert precision air conditioning units and three-phase UPS systems, also provides Modbus RTU communications for building management systems. Support for these standard open protocols allows simple integration into your monitoring system; thus leveraging prior infrastructure investments and established procedures.

The OpenComms cards support 10 and 100 MBit Ethernet network transmission speeds, which will be auto-detected upon connection to the network. Plus, these cards support in-the-field firmware updates, which increases the value of your investment.

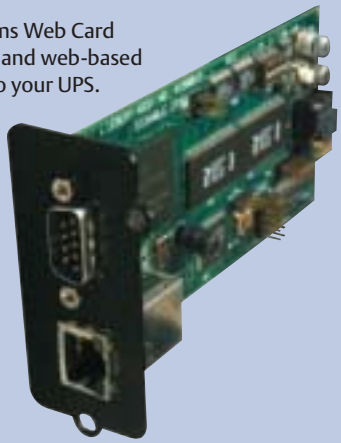
Bridging The Gap With Liebert's OpenComms™ Communication Interface Cards

Connecting to equipment in the distributed critical space is only part of the monitoring challenge. Liebert's OpenComms Nform leverages the network connectivity capabilities of your Liebert equipment to provide a centralized monitoring view of your distributed equipment. Utilizing the SNMP and Web technologies built into each of the OpenComms communication cards, OpenComms Nform will centrally manage alarm notifications to provide you with an easy interface to access critical status information.

OpenComms Nform effectively eliminates the need for expensive third-party monitoring applications. Liebert's "turn-key" approach to communications and monitoring minimizes your installation and maintenance costs, consolidates your view of the critical space status, and maximizes your uptime through automated notifications of alarm conditions. One company, providing you a complete high-availability solution.



The OpenComms Web Card provides SNMP and web-based management to your UPS.



The OpenComms NIC Card transforms Liebert units into manageable nodes within your Network, NMS and BMS systems.

INFORMATION SOLUTIONS
KNOWLEDGE THROUGH CONNECTIVITY

Liebert's OpenComms™ Nform is a network communications system that will enable you to leverage the distributed monitoring capabilities of your network connected equipment.

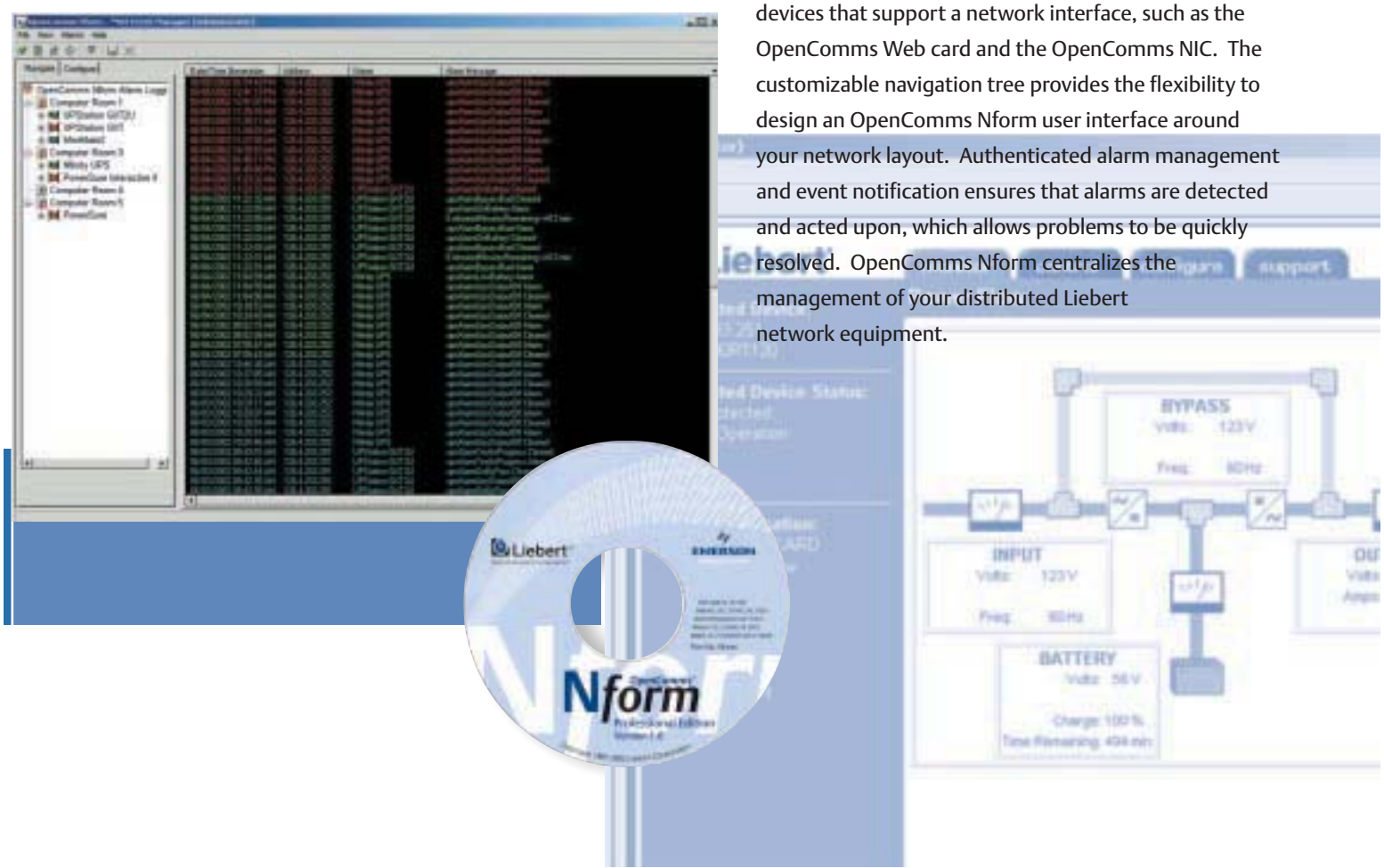
When Systems Are Critical...Monitoring Is Not An Option

Our OpenComms Nform software solution combines full-scale monitoring with cost-effective deployment through the use of the existing network infrastructure — so the cost of dedicated, out-of-band communications cabling is eliminated. It is both scalable and adaptable so it can grow as your systems expand and needs change.

The software can be configured to monitor your network for alarm notifications from Liebert power protection and precision cooling equipment. These alarms, or SNMP traps, can be received by the software and processed to trigger event actions such as e-mail alerts or local notifications.

For ease of use, OpenComms Nform's graphical user interface enables you to view device status conditions through either a native SNMP interface or an HTML web browser interface. The Alarm Log will manage all alarms that are received by OpenComms Nform, notifying the user of new or active alarms, enabling the user to acknowledge active alarms, and then close and delete acknowledged alarms. Built-in authentication can control which users have access to configure the OpenComms Nform settings.

OpenComms Nform will monitor any Liebert SNMP devices that support a network interface, such as the OpenComms Web card and the OpenComms NIC. The customizable navigation tree provides the flexibility to design an OpenComms Nform user interface around your network layout. Authenticated alarm management and event notification ensures that alarms are detected and acted upon, which allows problems to be quickly resolved. OpenComms Nform centralizes the management of your distributed Liebert network equipment.



LIEBERT SHUTDOWN CONTROL: MAXIMUM DATA PROTECTION

MultiLink automated shutdown software allows you to actively protect data on servers supported by the Liebert UPS equipment you are monitoring with OpenComms Nform, using the same OpenComms Web and OpenComms NIC cards. This stand-alone package provides maximum flexibility, including situations where using the network may not be feasible, MultiLink provides dedicated "out-of-band" solutions using the Multiport multiplexing units.

MultiLink™ Shutdown Software

Because today's critical business applications are often distributed over several computers, there is a need for UPS shutdown software capable of protecting information on multiple machines. MultiLink automated shutdown software performs the critical task of protecting your computers from costly damage and data loss as a result of power failures — on anything from a single workstation to a network of workstations. MultiLink is designed to run on a wide variety of operating systems.

Stay In Control

During an extended utility failure, MultiLink warns computer users of impending power loss and automatically shuts down computer operating systems in a smooth and orderly manner if the UPS battery capacity runs low.

Installed on a host computer, MultiLink communicates with the UPS using either network or direct cable connections to detect any loss of utility power and the status of the UPS battery. Using the network to send alarm messages and data can dramatically reduce cable and installation costs. Alternatively, using a Multiport device, separate communications cables can be run to each computer when the use of network wiring is a concern. For network communications, MultiLink employs the SNMP protocol and IP addresses. For direct cable connections, MultiLink uses either serial communications or contact closures, depending on the UPS model.

Expanded Capabilities

MultiLink Network Administration License: This upgrade expands the software's network capabilities by enabling the system administrator to monitor and control multiple devices, such as computers powered by the same UPS, other UPS systems and even other MultiLink installations throughout the network from a single location. This provides centralized management of distributed MultiLink installations.

CommSure: This rack-mounted unit is designed to help users maximize system uptime in their redundant power source, high-availability solutions. The communications interface ensures that computers will continue to operate as long as power is available from one UPS.

Multiport: When used in conjunction with MultiLink software, the Liebert Multiport multiplexing units communicate the status of a single UPS to multiple PC's, servers or workstations utilizing dedicated wiring.