



The NETSERVER range of Web Servers provide seamless, reliable and secure connectivity between LONWORKS® control networks and any corporate IP (Internet Protocol) data network or the Internet whilst maintaining true LONWORKS interoperability.

This scalable solution Web enables a full range of control and monitoring applications from single devices such as utility meters right through to large multi-building systems. NETSERVERS can remotely monitor and control LONWORKS devices via the Internet, at a price that is competitive regardless of the size of application.

The engineering and diagnostic tools provided enable the system to be easily configured without the need for specialized engineering skills.

The applications supported by the NETSERVER enable it to function as an area controller for a system or device, this enables a variety of traditionally discrete controllers to be replaced by a single multi-functional controller. In addition to the Web serving capabilities and graphical design tools, the NETSERVER also supports Alarm Handling, Data Logging and Scheduling services.

Web Configurable Applications

Configuration and presentation of the following applications are available through the browser / client :

Alarm Handling Full alarm handling of LONWORKS variables can be provided from the network or via logic configured in the controller. Alarm data can be stored in the controller or on a remote server in a SQL, Oracle and Access databases or exported using XML and presented using Customizable style sheets. Alarms can also be associated with an Action Sheet, this enables detailed descriptions of actions to be taken in the event of an alarm condition. E-mails can also be generated based on alarm events.

Data Logging Presentation of the logged data is available through Configurable Web pages. The data is logged on interval or event and can be stored locally in the controller or on a remote IP server in a SQL, Oracle and Access databases. Data is exported via XML and can be presented graphically or via user Customizable style sheets.

Scheduling Multiple time schedules are programmed through the configurable Web pages. The scheduler also encompasses an optimum start stop routine. Triggers from a schedule can start functions such as logging or set the value of a network variable. Holidays and Specials Days are also graphically configured through the browser.

ALL NETSERVERS can be customised to Web-enable manufacturers LONWORKS products.



instruments for industry



Web Serving

The NSX-10 NETSERVER is a cost effective, embedded Web Server that allows Standard Web pages to be served directly to your Web browser. At the core of the NSX-100/1000 NETSERVER is the ALTITUDE Server; a Java based Web-serving application with a host of modular data services and applications. Standard Web pages can be served directly to your Web browser from any NETSERVER without the need for a dedicated graphical user interface. Multiple Client applications can then take control or monitor any part of the control network, subject to valid user authentication, enabling remote monitoring, diagnostics and support through the Internet or corporate data network. A diagnostic tool is pre-loaded which allows complete remote control over the IP network; this includes back-ups, upgrades, diagnostics and remote application development.

Rapid application engineering

Engineering tools have been built into all NETSERVER platforms to minimise the engineering time, while also enabling a completely customizable application to be developed around the needs of the end user. Automatic learning of all nodes and associated network variables from the LNS database is incorporated, which logically display themselves in the Project Explorer. From here, nodes can be linked to graphical representations of the physical application and animations developed to suit. Intelligent 'Smart Components' can be created to generate generic graphical displays from a single network variable to a fully populated node. Simply drag a LONWORKS network variable or node from the object tree on to a graphic page and all the associated control points and graphics will configure themselves on the graphical view automatically.

Simple Management Tool with Scalability

The NETSERVER is able to provide real-time control and monitoring from a single network variable running in a Java Applet on multiple desktops, e.g. set-point control, right through to a complete system. Complex applications can be dramatically simplified through logical navigation and graphical representation of systems.

The NETSERVER platforms allow user requirements to grow, while retaining all the engineering invested into the original platform. This enables applications originally developed for the NSX-10/100 to be loaded on to the NSX-100/1000 without losing valuable hours of engineering time.

The NSX-100/1000 NETSERVERS also benefits from the scalable LNS architecture that allows a single remote LNS database on the IP network to manage multiple NETSERVERS. Alternatively a single LNS database can be hosted within the NSX-100/1000 NETSERVER. The NSX-1000 NETSERVER will also support LONMAKER for Windows to provide network management of the LONWORKS network.

Connectivity to Third Party Systems /Protocols

Through the addition of communication drivers (optional extra) the NSX-1000 NETSERVER provides integration between LONWORKS and many proprietary and open protocols. A wide range of Ethernet and Serial drivers are supported including BACnet, Modbus and Profibus. Click the links below to view or download the driver list pdf document.

Altitude-X, provides a mechanism to extract data from a NETSERVER enabling data to be monitored and controlled from remote applications. This software component is based on an Active-X control and allows other applications to communicate with the NETSERVER. Data can also be transferred via the industry standard 'XML' into style sheets or spreadsheets, enabling real-time or logged data to be viewed in standard browsers as well as a variety of common desktop applica-

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