Web Interface

LYNX

Introduction

The Web server that is embedded in LYNX DMS is used to have access to most of the remote administration and supervision features of the SCADA, without any heavy installation, through LAN (corporate Local Area Network) and WAN (Wide-Area Network, including the Internet) interfaces.

This feature requires a very light installation process, only on PC/Laptop running on Windows™. The initial installation stage can be done online, when first connecting to the Web server.

In addition to the viewing and configuration features of the SCADA, the Web server offers a wide range of services:

- Web Services interface to access the SCADA functions through third-party heterogeneous systems.
- PHP and Java Interfaces for creating dynamic contents and pages. These are standard in Web interfaces.
- Secure access through SSL services (SSH for applications that are started remotely).

Operation Principle for the Web Server

General Operation Principle

The Web server that is embedded in LYNX SCADA DMS meets any standards (formats, access methods, security, opening, etc.) available in current servers, and features many SCADA-specific aspects.

Access to Web functionality is done using a standard browser; versions of Microsoft Explorer (later than 6.0) and Mozilla Firefox (later than 1.0) are supported.

All the interactions are linked with permission levels that directly derive from the rights granted to LYNX users (or user classes).

Moreover, some extended features or features relating to the server technical administration are available to administrators only, regardless of the LYNX permissions (activity and access monitoring, service statistics for pages, etc.).

The Web functionality allows to remotely start most of the SCADA LYNX applications running under X11; the graphical editor and all the LYNX management tools can then be run remotely from a single click.

The viewing application that is run on client machines is based on an SSH connection to ensure: security (password validation, data encryption), performance (by compressing data), and easy implementation (all network connections are done through the SSH port).