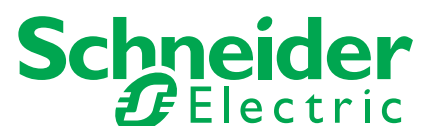


StruxureWare™ for Buildings

Enterprise Server

A StruxureWare server is the core of the system and performs key functionality, such as control logic, trend logging, and alarm supervision. The Enterprise Server is the Windows® application version of a StruxureWare Server that collects site-wide data for aggregation and archiving, yet is flexible enough to run stand-alone applications. The Enterprise Server also serves as a single point of administration for StruxureWare, Schneider Electric's intelligent Building Management System.



Make the most of your energySM

StruxureWare for Buildings Enterprise Server Features



PRODUCT AT A GLANCE

- Networking powerhouse
- Global view of the system
- Text and graphics-based programming tools
- Centralized alarms and data management
- Insight into actions taken on the system
- Native support for open protocols – BACnet, LonWorks, and Modbus
- IT friendly and secure

At the top of the StruxureWare architecture is the Enterprise Server. It is the central point from which users can configure, control, and monitor the entire system.

Networking powerhouse

The Enterprise Server can run multiple control programs using a variety of protocols. It can manage alarms, users, schedules, and logs. Data from the Enterprise Server can be delivered directly to the operator or to other devices and servers throughout the site or enterprise.

Global view of the system

The entire system, including all of the Automation Servers, and their associated devices, can be accessed and configured through the Enterprise Server.

This overview of the site provides easier mass change engineering and data analysis. The Enterprise Server also aggregates the event and alarm data from all its associated Automation Servers. Trend logs can also be aggregated through the use of extended trend logs.

Text and graphics-based programming tools

Unique to the industry, the Enterprise Server has both Script and Function Block programming options. This flexibility assures that the best programming method can be selected for the application.

Centralized alarms and data management

Alarms from multiple devices throughout the site, including Automation Servers, are collected by the Enterprise Server for centralized logging, display, and management. Users can also view event logs and trend logs from multiple servers.

The Enterprise Server hosts the historical and configuration databases. These databases store current information, including trends, alarms, user activity, and property information.



StruxureWare for Buildings Enterprise Server Features (continued)

Insight into actions taken on the system

It is important to log more than basic activity. In StruxureWare, every action is logged with a timestamp, the user who performed the action, and the values that were changed.

Open building protocol support

One of the cornerstones of StruxureWare is support for open standards. The Enterprise Server can natively communicate with three of the most popular standards for buildings: BACnet, LonWorks, and Modbus.

Native BACnet support

The Enterprise Server communicates directly to BACnet/IP networks. Compliant with ASHRAE 135-2004, the Enterprise Server meets the BACnet Building Controller (B-BC) profile, the most advanced BACnet Device Profile. This capability provides access to the full range of BACnet devices from Schneider Electric and other vendors. The Enterprise Server can also serve as a BACnet Broadcast Management Device (BBMD) to facilitate BACnet systems that span multiple IP networks.

Native LonWorks support

The Enterprise Server has native LonWorks capability and works with a range of LonTalk adapters to communicate to TP/FT-10 LonWorks networks. Integrated LonWorks functionality enables access to LonWorks devices from Schneider Electric and other vendors. LonWorks networks can be commissioned, bound, and configured from the Enterprise Server using the built-in LonWorks Network Management Tool. No third-party tools are needed.

Native Modbus support

The Enterprise Server natively integrates Modbus RS-485 master and slave configurations, as well as TCP client and server. This allows full access to the range of Schneider Electric products that communicate on the Modbus protocol, such as power meters, UPS, circuit breakers, and lighting controllers.

IT friendly and secure

The Enterprise Server communicates using networking standards, such as DHCP and HTTP (see sidebar for more). This makes installation easy, management simple, and transactions secure.

Supported Protocols

- IP addressing (IPv6 ready)
- TCP communications
- DHCP / DNS for rapid deployment and lookup of addresses
- HTTP - Internet access through firewalls, enabling for remote monitoring, and control
- NTP (Network Time Protocol) for time synchronization throughout the system
- SMTP enables sending email messages
- JSON messages are used to structure the exchange of data



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StruxureWare for Buildings Enterprise Server Specifications

Specifications

Hardware requirements

Processor

Minimum: 1.0 GHz
Recommended: 2.0 GHz or higher

Memory

Minimum: 2 GB
Recommended: 4 GB or higher

Hard Disk

Minimum: 20 GB

Drive

A DVD Drive is required if your copy of StruxureWare was delivered on disk.

Other Devices

A Microsoft mouse or compatible pointing device is required.

Software requirements

Operating systems

Microsoft Windows XP 32-bit SP3
Microsoft Windows 7 32-bit
Microsoft Windows Server 2008 32-bit

Required additional software

Microsoft .Net 3.5 SP1

Communication

TCP

Binary, port configurable, default 4444

HTTP

Non-binary, port configurable,
default 80

SMTP

Email sending, port configurable, default 25

NTP

Time synchronization

BACnet

BACnet/IP

Supports the following LonTalk adapters:

- NIC709-PCI
- NIC709-USB
- NIC709-USB100
- NIC709-IP
- NIC852

Other protocols may be used for particular additional functionality. See Technical Documentation.

Part number

SW-ES-BASE-0, StruxureWare Enterprise Server, no maintenance
SXWSWESXX00001



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