AX Supervisor

Overview

The JENEsys® suite of Niagara-based products integrate diverse smart devices into unified, Internet-enabled, web-based systems. These solutions integrate LonWorks, BACnet, Modbus, oBIX, Internet and web service protocols in a software platform that can be used in embedded controllers and server applications. The products include integrated network management tools to support the design, configuration, installation, and maintenance of interoperable networks.

The JENEsys AX Supervisor is a flexible network server used in applications where multiple Niagara^AX-based JENE-PC series controllers can be networked together. The AX Supervisor serves real-time graphical information to standard web-browser clients and also provides server-level functions such as: centralized data logging, archiving, alarming, trending, master scheduling, system-wide database management, and integration with enterprise software applications. In addition, the AX Supervisor provides a comprehensive, graphical engineering toolset for application development.

In addition to the 32-bit AX Supervisor, a 64-bit version for Windows based PCs is available for monitoring systems intended to monitor in excess of 150 and up to 500 JENE-PC series controllers. It supports the same feature set as the standard version.
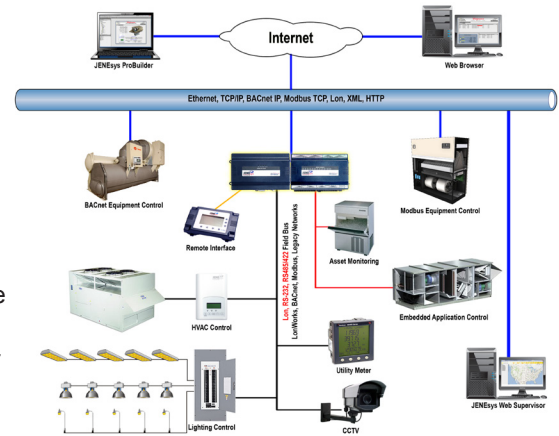
With Niagara^AX release 3.4 or greater, Lynxspring offers a platform for the AX Supervisor which runs on Red Hat Linux. Niagara^AX 3.4 and later versions provide AX Supervisor software that is targeted for a specific Linux-based platform: an Intel-based PC platform running the operating system of Red Hat Enterprise Linux 5.

For smaller installations, the Small Building Supervisor (SBS) offers the full functions of the Niagara Framework, but limits the number of Niagara-based connections to three. The Small Building Supervisor can run on a 32 and 64-bit Windows based PCs as well as Red Hat Enterprise Linux 5 based PCs. Also, the Small Building Supervisor can be upgraded to a full AX Supervisor if the job outgrows the limit of three Niagara-based connections.

oBIX is now included in all AX Supervisors as a means of integrating Niagara-based Release 2 (R2) JENEs. With the release 2.3.522 or greater, the oBIX driver can be added to expose all data points, scheduled, trends and alarms to an AX system. This oBIX driver is both a client and server.

Features

- Java-enabled user interface (UI) as well as a non-JAVA UI for browsers
- Supports an unlimited number of users over the Internet/Intranet with a standards web browser, depending on the host PC resources
- Optional enterprise-level data archival using SQL, My SQL, CSV, Oracle or DB2 database, and HTTP/HTML/XML text formats
- "Audit Trail" of database changes, database storage and backup, global time functions, calender, central scheduling, control, and energy management routines
- Sophisticated alarm processing and routing, including e-mail alarm acknowledging
- Access to alarms, logs, graphics, schedules, and configuration data with a standard web browser
- Password protection and security using standard JAVA (on Windows platforms only) authentication and encryption techniques with optional security supported via an external LDAP connection
- HTML-based help system that includes comprehensive on-line system documentation
- Supports multiple Niagara-based stations connected to a local Ethernet network, or the Internet
- Provides online/offline use of the NiagaraAX Framework ProBuilder graphical configuration tool and comprehensive JAVA Object Library
- Optional direct Ethernet based driver support for BACnet I/P, OPC (client), Modbus TCP, Lon IP, SNMP, etc.; Additional point blocks for each driver may be purchased in blocks of 500 for each protocol

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Platform Requirements

Processor:
- Intel Pentium® IV, 2.5 Ghz or higher, Core Duo also acceptable

Operating System:
- 32-bit Windows AX Supervisors, Microsoft Windows XP Professional, Windows 2003 or 2008 Server (if Microsoft IIS is disabled), Vista Business, or Windows 7, with Mozilla FireFox™ or Internet Explorer™ 5.0 or later is the required OS
- 64-bit Windows AX Supervisor, Win64 version of Windows XP Professioinal or Win64 version of Windows 7 is the required OS
- Linux AX Supervisors (32-bit), Red Hat Enterprise Linux 5 is the required OS

Memory:
- 1GB minimum, 2GB or more recommended for large systems, 8 GB or more recommended for the Windows 64-bit version

Hard Drive:
- 1 GB minimum, 5GB for application that need more archiving capacity

Display:
- Video card and monitor capable of displaying 1024 x 768 pixel resolution or greater

Network Support:
- Ethernet adapter (10/100 Mb with RJ-45 connector)

Connectivity:
- Full time high speed ISP connection recommended for remote site access (i.e T1, ADSL, cable modem)

Ordering Information

Model #	Description
JENE-SUP-AX-3	Small Building AX Supervisor software for Windows operating systems (see Platform Requirements) limited to 3 JENE-PC series or Soft-JENE connections; Includes Niagara Historical Database and ProBuilder AX. Includes oBIX client/server driver for connecting to Niagara based controllers only.
JENE-SUP-AX-100	Medium Building AX Supervisor software for Windows operating systems (see Platform Requirements) limited to 100 JENE-PC series or SoftJENE connections; Includes Niagara Historical Database and ProBuilder AX. Includes oBIX client/server driver for connecting to Niagara based controllers only.
JENE-SUP-AX-UNL	Large Building AX Supervisor software for Windows operating systems (see Platform Requirements) unlimited JENE-PC series or SoftJENE connections; Includes Niagara Historical Database and ProBuilder AX. Includes oBIX client/server driver for connecting to Niagara based controllers only.
JENE-SUP-AX-LNX-3	Small Building AX Supervisor software for Linux operating systems limited to 3 JENE-PC series or SoftJENE connections; Includes Niagara Historical Database and ProBuilder AX. Includes oBIX client/server driver for connecting to Niagara based controllers only.
JENE-SUP-AX-LNX-100	Medium Building AX Supervisor software for Linux operating systems limited to 100 JENE-PC series or SoftJENE connections; Includes Niagara Historical Database and ProBuilder AX. Includes oBIX client/server driver for connecting to Niagara based controllers only.
JENE-SUP-AX-LNX-UNL	Large Building AX Supervisor software for Linux operating systems with unlimited JENE-PC series or SoftJENE connections; Includes Niagara Historical Database and ProBuilder AX. Includes oBIX client/server driver for connecting to Niagara based controllers only.
Optional Database Drivers for External Database Applications	
JENE-SUP-SQL	Microsoft SQL Database Driver
JENE-SUP-DB2	IBM DB2 Database Driver
JENE-SUP-ORCL	Oracle Database Driver
JENE-SUP-MYSQL	MySQL Database Driver
JENE-SUP-CSV	Allows Excel and CSV file data to be imported into Niagara^{AX}
Open System Driver for AX Supervisor (not available for Small Building Systems or Linux Supervisors)	
JENE-SUP-BACNETIP	BACnet IP Client and Server Driver
JENE-SUP-MODBUS	Modbus TCP Driver
JENE-SUP-OPC	OPC Client Driver
JENE-SUP-SNMP	SNMP Driver
JENE-SUP-ILON	ILON Driver
JENE-SUP-OBIX	OBIX Driver for connecting to devices not powered by Niagara
JENE-DRV-SMN-AX-WS	Siemens System 600/Apogee Driver. This driver allows you to find, discover and learn all points and objects, using the MBC or MEC as a router to controllers on that network.
JENE-SUP-ASD	Barber Colman ASD Driver for AX Supervisor to integrate PEM, MZII, MNASDi and etc. Features Learn and discover functions.
JENE-SUP-GCM	Barber Colman GCM Driver for AX Supervisor. Able to perform Serial Tunneling and can work with S-AX and S-AX-SBS without point limitation.
JENE-SUP-N2C	Johnson N2 Open driver for AX Suervisor. With Learn and Discover functions.
JENE-SUP-RAVEN	Sierra Raven Driver
Video Drivers for AX Supervisor (not available for Small Building Systems or Linux Supervisors)	
JENE-SUP-DED-AX	AXIS IP Camera Driver
JENE-SUP-DED-AX	Dedicated Micros Video Driver (Dedicated Micros DVR must be purchased separately)
JENE-SUP-MLS-AX	Milestone Systems Driver
JENE-SUP-RPD-AX	Honeywell Rapid Eye DVR Driver