

## AX Supervisor™

### Overview

***New levels of flexibility from the leading provider of open, Internet-enabled, automation infrastructure solutions***

Vykon® is a suite of Niagara-based products designed to integrate diverse smart devices into a unified, Internet-enabled, web-based system. Vykon solutions integrate LonWorks™, BACnet™, oBIX, Internet and web services protocols in a software platform that can be used in embedded controllers or server applications. Vykon includes integrated network management tools to support the design, configuration, installation, and maintenance of interoperable networks.



The Vykon AX Supervisor® is a flexible network server used in applications where multiple NiagaraAX-based JACE controllers will be networked together (SoftJACE®, JACE-545®, JACE-403®, JACE-200® or JACE-600®). The AX Supervisor serves real time graphical information displays to standard web-browser clients and also provides server-level functions such as: centralized data logging, archiving, alarming, real time graphical displays, 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.

oBIX is now included with the AX Supervisor as a means of integrating Niagara-based Release 2 JACEs. With release 2.3.522 or greater, the oBIX driver can be added to expose all data points, schedules, trends and alarms to an AX system. This oBIX

driver is both a client and a server.

### Features

- Java-enabled user interface (UI) as well as a non-Java UI for browsers.
- Supports users over the Internet / Intranet with a standard web browser, depending on the host PC resources.
- Optional enterprise-level data archival using SQL, Oracle or DB2 database, and HTTP/HTML/XML text formats.
- "Audit Trail" of database changes, database storage and backup, global time functions, calendar, central scheduling, control, and energy management routines.
- Sophisticated alarm processing and routing, including e-mail and paging.
- Provides access to alarms, logs, graphics, schedules, and configuration data with a standard web browser.
- Password protection and security using standard Java 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 JACE-201, JACE-545, JACE-403, JACE-200 or JACE-600 stations connected to a local Ethernet network, or the Internet.
- Provides online/offline use of the Niagara Framework WorkPlace AX® graphical configuration tool and a comprehensive Java Object Library.
- Optional direct Ethernet based driver support for BACnet I/P, OPC (Client), Modbus TCP, SNMP, and oBIX; additional point blocks for each driver may be purchased in blocks of 500 for each protocol. The use of oBIX is free for Niagara based oBIX sources, non-Niagara sources can be supported with the optional driver and point blocks.
- A "Small Building System" version is available for support of a system with up to three JACEs.

### Platform Requirements

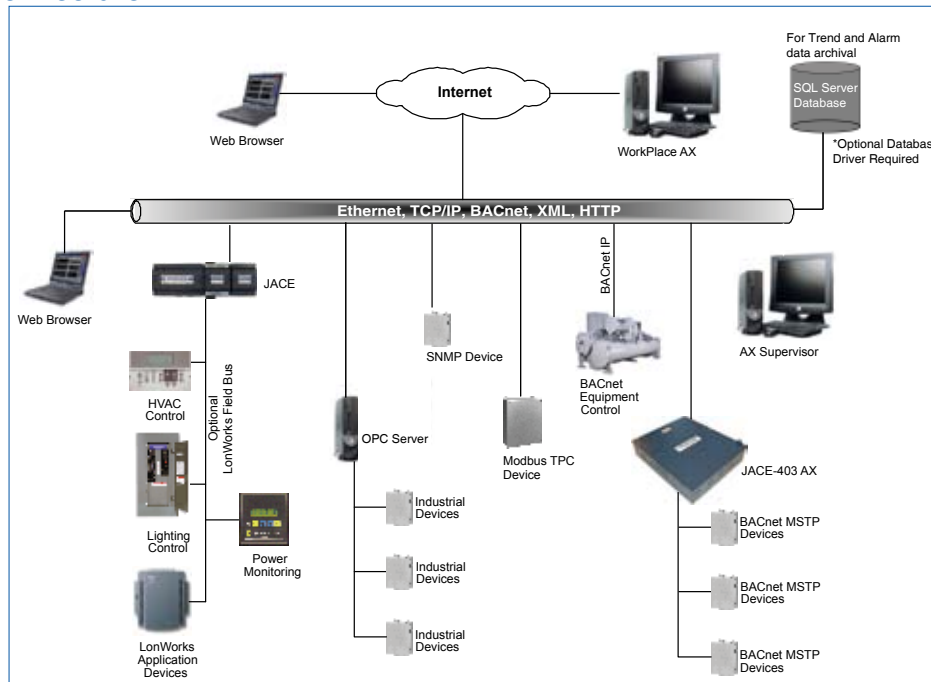
- **Processor:** Intel Pentium® IV, 2 GHz or higher
- **Operating System:** Microsoft Windows 2000™ or Windows XP Professional, Windows 2003 Server (if Microsoft IIS is disabled), Mozilla Firefox™, Internet Explorer™ 5.0 or later, or Netscape Communicator™ 4.5 or later.
- **Memory:** 1 GB minimum, 2GB or more recommended for large systems
- **Hard Drive:** 1 GB minimum, 5 GB for applications 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)
- **Modem:** 56 KB minimum, full time high speed ISP connection recommended for remote site access (i.e. T1, ADSL, cable modem)

## Ordering Information

Part number	Description
<b>S-AX</b>	Basic AX Supervisor; all JACEs must have EC-SP for connectivity to the AX Supervisor. oBIX client/server for Niagara sourced data included.
<b>S-AX-SBS</b>	Small Building System version of the AX Supervisor with a three JACE limit; all JACEs must have EC-SP for connectivity to the SBS AX Supervisor. oBIX client/server for Niagara sourced data included for up to 3 devices.
<b>S-AX-SBS-EXUP</b>	Upgrade from the <b>S-AX-SBS</b> to a full AX Supervisor.
<b>Optional Database Drivers for External Database applications (not available for SBS version of AX Supervisor):</b>	
<b>S-DB-SQL</b>	Microsoft SQL Database Driver
<b>S-DB-DB2</b>	IBM DB2 Database Driver
<b>S-DB-ORCL</b>	Oracle Database Driver
<b>S-AX-SBS-EXUP</b>	Upgrade from the <b>S-AX-SBS</b> to a full AX Supervisor
<b>WP-AX</b>	Additional copy of Workplace AX

Part number	Description
<b>Open system Drivers for AX Supervisor only (not for SBS)</b>	
<b>DR-S-BAC-AX</b>	Adds BACnet IP Client driver support to AX Supervisor; includes 500 points
<b>DR-S-BAC-500</b>	Adds 500 BACnet IP points to AX Supervisor with above driver option
<b>DR-S-MTCP-AX</b>	Adds Modbus TCP driver support to AX Supervisor; includes 500 points
<b>DR-S-MTCP-500</b>	Adds 500 Modbus TCP points to AX Supervisor with above driver option
<b>DR-S-SNMP-AX</b>	Adds SNMP driver support to AX Supervisor; includes 500 points
<b>DR-S-SNMP-500</b>	Adds 500 SNMP points to AX Supervisor with above driver option
<b>DR-S-OPC-AX</b>	Adds OPC Client driver support to AX Supervisor; includes 500 points
<b>DR-S-OPC-500</b>	Adds 500 OPC points to AX Supervisor with above driver option
<b>DR-S-OBIX-AX</b>	oBIX client for non-Niagara point data. Includes 500 points
<b>DR-S-OBIX-500</b>	Adds 500 oBIX points to AX Supervisor

## Typical Architecture



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