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AX Supervisor

Overview

New levels of flexibility available 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™, Modbus, 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 Niagara^{AX}-based JACE controllers will be networked together (SoftJACE®, JACE-545®, JACE-403®, JACE-200®, JACE-600®, JACE-700®, JACE-XPR®, or JACE-NXT® series.) 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. Additionally, the AX Supervisor provides a comprehensive, graphical engineering toolset for application development.

VYKON AX Supervisors are offered as a scalable solution for Windows 32 and 64 bit platforms and Linux. Start with licensing for as few as 3 Niagara Station connections and upgrade as the system grows.

oBIX is included with the VYKON AX Supervisor for Windows and Linux versions, as a means of integrating Niagara-based R2 JACEs at release 2.3.522 or greater. The oBIX driver can be added to R2 platforms at release 2.3.522 or greater 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 an unlimited number of 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 and SSL.





- HTML-based help system that includes comprehensive on-line system documentation.
- Supports multiple SoftJACE, JACE-200, JACE-403, JACE-545, JACE-600, JACE-700, JACE-XPR or JACE-NXT stations connected to a local Ethernet network or the Internet.
- Provides online/offline use of the VYKON 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, and SNMP; additional point blocks for each driver may be purchased in blocks of 500 for each protocol.
- A "Small Building System" version is available for support of a system with up to three JACEs.
- Available in a 64 bit Windows compliant version of the AX Supervisor for large systems monitoring in excess of 150 JACEs. All features of the standard AX Supervisor are included with this platform.

Platform Requirements

Processor

- Intel Pentium® IV, 2 GHz or higher, Core 2 Duo also acceptable.

Operating System

- Window Platforms: Windows Server 2008 R2, Windows7 Enterprise x86 & x64, Windows7 Professional x86 & x64, Windows XP Professional SP3 32-bit,, Microsoft Virtual Server 2008, VMWare Server 2
- For the Linux version, the required version is Red Hat Enterprise Linux 5.

Browsers

- Microsoft IE versions 7,8,9, Google Chrome version 15, and Mozilla Firefox version 8, 10, 12

Memory

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

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
AX Supervisor Parts	
S-AX-3	AX Supervisor software for Windows 32 and 64 bit platforms; Includes Niagara Historical Database and Workplace AX. Includes OBIX client / server driver for connecting to Niagara based controllers only. Licensed for 3 station connections maximum
S-AX-100	AX Supervisor software for Windows 32 and 64 bit platforms; Includes Niagara Historical Database and Workplace AX. Includes OBIX client / server driver for connecting to Niagara based controllers only. Licensed for 100 station connections maximum
S-AX-ENT	AX Supervisor software for Windows 32 and 64 bit platforms; Includes Niagara Historical Database and Workplace AX. Includes OBIX client / server driver for connecting to Niagara based controllers only. No Licensed limit on station connections.
S-U-AX-100	Upgrade from S-AX-3 to S-AX-100
S-U-AX-UNL	Upgrade from S-AX-100 to S-AX-ENT
S-AX-LNX-3	AX Supervisor software for Linux platforms; Includes Niagara Historical Database and Workplace AX. Includes OBIX client / server driver for connecting to Niagara based controllers only. Licensed for 3 station connections maximum
S-AX-LNX-100	AX Supervisor software for Linux platforms; Includes Niagara Historical Database and Workplace AX. Includes OBIX client / server driver for connecting to Niagara based controllers only. Licensed for 100 station connections maximum
S-AX-LNX-ENT	AX Supervisor software for Linux platforms; Includes Niagara Historical Database and Workplace AX. Includes OBIX client / server driver for connecting to Niagara based controllers only. No Licensed limit on station connections.
S-U-AX-LNX-100	Upgrade from S-AX-LNX-3 to S-AX-LNX-100
S-U-AX-LNX-UNL	Upgrade from S-AX-LNX-100 to S-AX-LNX-ENT
Optional Database Drivers	
S-DB-SQL	Microsoft SQL Database Driver
S-DB-DB2	IBM DB2 Database Driver
S-DB-ORCL	Oracle Database Driver
S-DB-MYSQL	Driver for MySQL database for the AX Supervisor
S-DB-CSV	Allows Excel and CSV file data to be imported into Niagara ^{AX}
Open System Drivers	
DR-S-oBIX-AX	AX Supervisor oBIX Driver for connecting to any devices not powered by Niagara, includes license for 500 oBIX points
DR-S-oBIX-500	Additional 500 point block for AX Supervisor oBIX Driver
DR-S-BAC-CL	BACnet IP Client Driver for the AX Supervisor; Includes license for 500 BACnet points
DR-S-BAC-SRV	BACnet IP Server for the AX Supervisor Note: Does not include client function
DR-S-BACNET	BACnet IP Client Driver with BACnet export functions for the AX Supervisor; Includes license for 500 BACnet points Note: Adding OWS and AWS to this part invalidates the BTL Listing
DR-S-BAC-SRV-UP	Add BACnet export functions to a BACnet IP Client Driver for the AX Supervisor
DR-S-BAC-CL-UP	Add BACnet IP client functions to a BACnet IP Server for the AX Supervisor; Includes license for 500 BACnet points
DR-S-BAC-500	Additional 500 point block for AX Supervisor BACNet [®] IP Driver

DR-S-BAC-OWS		Add BACnet Operator Workstation (OWS) to the AX Supervisor. Requires the BACnet IP Client Driver (DR-S-BAC-CL)
DR-S-BAC-AWS		Add BACnet Advanced Workstation (AWS) to the AX Supervisor. Requires the BACnet IP Client Driver (DR-S-BAC-CL)
DR-S-BAC-AWS-UP		Upgrade from an Operator Workstation (OWS) to an Advanced Workstation (AWS)
DR-S-OPC-AX		AX Supervisor OPC Driver - Includes license for 500 OPC points.
DR-S-OPC-500		Additional 500 point block for AX Supervisor OPC Driver
DR-S-MDB-AX		AX Supervisor Modbus TCP Driver - Includes license for 500 Modbus TCP points.
DR-S-MDB-500		Additional 500 point block for AX Supervisor Modbus TCP Driver
DR-S-MDB-SL-AX		Modbus TCP Slave Driver for the AX Supervisor that "serves" data to other Modbus Master devices over a Modbus TCP connection. Includes License for 500 Modbus TCP Slave Points
DR-S-MDB-SL-500		Additional 500 point block for the AX Supervisor Modbus TCP Slave Driver
DR-S-SNMP-AX		AX Supervisor SNMP Driver - Includes license for 500 SNMP points.
DR-S-SNMP-500		Additional 500 point block for AX Supervisor SNMP Driver
DR-S-ILON-AX		AX Supervisor ILON Driver - Includes license for 500 ILON points.
DR-S-ILON-500		Additional 500 point block for AX Supervisor ILON Driver
DR-S-SOX-ETH-AX		Sedona Framework SOX driver allowing for Supervisor communication to Sedona Framework enabled Ethernet and Wi-Fi networks for 1000 network points. Requires Niagara ^{AX} 3.6 or later.
DR-S-SOX-ETH-500		Additional 500 point block for Sedona Framework SOX communication driver allowing for Supervisor communication to Sedona Framework enabled Ethernet and Wi-Fi networks. Requires Niagara ^{AX} 3.6 or later.
DR-S-SimpleADR-AX		Base License for Supervisor includes 1 DRAS client connection and CRYPTO license for SSL connection. Requires AX Release 3.5 or higher.
DR-S-ADRClient-AX		Additional DRAS connection. Requires CRYPTO license for SSL if not installed. Requires AX Release 3.5 or higher.
Miscellaneous License Options		
SP-SSL		Secure Socket Layer license fee. Enables https communication.
Video Drivers		
DR-S-AXS-AX		AX Supervisor driver for AXIS IP cameras. Includes license for 16 cameras. Support for live viewing only.
DR-S-AXS-4		Additional 4 camera block for AX Supervisor AXIS IP camera driver.
DR-S-DED-AX		AX Supervisor driver for Dedicated Micros video. Includes license for 16 cameras.
DR-S-DED-4		Additional 4 camera block for AX Supervisor Dedicated Micros video driver.
DR-S-MLS-AX		AX Supervisor driver for Milestone video. Includes license for 16 cameras.
DR-S-MLS-4		Additional 4 camera block for AX Supervisor Milestone video driver.
DR-S-RPD-AX		AX Supervisor driver for RapidEye video. Includes license for 16 cameras. Not Supported on 64 bit platforms. Does not support remote video viewing.
DR-S-RPD-4		Additional 4 camera block for AX Supervisor RapidEye video driver.