



EC-Net 4 Supervisor



Overview

The EC-Net™ 4 Supervisor is a software platform used in server-class applications. It makes managing all buildings at an enterprise level possible, giving facilities managers the ability to quickly respond to problems and insights to optimize their system.

The EC-Net 4 Supervisor allows multiple Niagara-based EC-BOS series controllers, along with other ECLYPSE™ Connected IP and Wi-Fi products series, to be networked together. It serves real-time graphical information to standard Web-browser clients and provides server-level functions. These functions include centralized data logging/trending, archiving to external databases, alarming, dashboarding, system navigation, master scheduling, database management, and integration with other enterprise software applications through an XML interface (oBIX standard). Also, it provides a comprehensive graphical engineering toolset for application development.

Applications

- Integrate a variety of devices and protocols into a common distributed automation system
- Create a network environment with comprehensive database management, alarm management and messaging services

Features & Benefits

Enhanced Integration Platform for System Integrators:

With improved navigation, searching, tagging and templating functions, system integrators and end users are able to customize dashboards for easier data analysis:

- Tag your data with preloaded or custom dictionaries
- Create standardized templates that can be reused for other projects and applications
- Templating allows EC-Net 4 to automatically apply existing tags to new devices
- Enhanced navigation tree and property sheet views, using graphical elements and styling to highlight and distinguish important system information and data
- Data cleansing function removes system outliers and errors for more precise data analysis and a more representative presentation of a system

Improved Graphical User Interface for End Users

- Adaptive end user views are displayed using HTML5, for a consistent user experience across all web browsers and devices, including desktop, tablet and mobile
- Benefit from tagged data to quickly access devices, points and other system information
- Tag-based navigation and filtering functions enable easier data and performance analysis
- Drag & drop tools for faster and easier presentation of data such as charts

Powerful Security Features

EC-Net 4 ensures both your system and your data are secure at all times through advanced authentication and encryption processes:

- Data in motion and sensitive data at rest are encrypted (foxs/https/platformtls)
- Supports features such as strong hashed passwords, TLSv1 for secure communications and certificate management tools for authentication
- EC-Net 4 can be integrated with existing enterprise identity and access management systems, such as LDAP and Kerberos
- Employs a Role-Based Access Control (RBAC) for simplified configuration of user access and permission controls
- All user actions, along with any security issues, are recorded in an audit log for increased traceability

Capacity-Based Licensing Model

The licensing model for the EC-Net 4 Supervisor is simplified and includes standard IP-based open protocol drivers (e.g. BACnet®, LonWorks®, Modbus®) by default. Determine the number of EC-BOS connections required and the number of IP-based points that will be integrated and select the right capacity license from the start. License upgrades can be purchased in the future as your needs grow.

Model Selection

EC-Net 4 Supervisor Versions

EC-Net 4 Supervisor is available in the following capacity range. Software maintenance is required when purchasing EC-Net 4 Supervisor software—see the following sections.

Model	Product Description
EC-Net 4 Supervisor 0	EC-Net 4 Supervisor with 0 Niagara network connections. Includes standard drivers. Is also licensed to run EC-Net ^{AX} 3.8. Software Maintenance Agreement (SMA) must be purchased in conjunction with Supervisor software.
EC-Net 4 Supervisor 1	EC-Net 4 Supervisor with 1 Niagara network connection. Includes standard drivers. Is also licensed to run EC-Net ^{AX} 3.8. Software Maintenance Agreement (SMA) must be purchased in conjunction with Supervisor software.
EC-Net 4 Supervisor 2	EC-Net 4 Supervisor with 2 Niagara network connections. Includes standard drivers. Is also licensed to run EC-Net ^{AX} 3.8. Software Maintenance Agreement (SMA) must be purchased in conjunction with Supervisor software.
EC-Net 4 Supervisor 3	EC-Net 4 Supervisor with 3 Niagara network connections. Includes standard drivers. Is also licensed to run EC-Net ^{AX} 3.8. Software Maintenance Agreement (SMA) must be purchased in conjunction with Supervisor software.
EC-Net 4 Supervisor 10	EC-Net 4 Supervisor with 10 Niagara network connections. Includes standard drivers. Is also licensed to run EC-Net ^{AX} 3.8. Software Maintenance Agreement (SMA) must be purchased in conjunction with Supervisor software.
EC-Net 4 Supervisor 100	EC-Net 4 Supervisor with 100 Niagara network connections. Includes standard drivers. Is also licensed to run EC-Net ^{AX} 3.8. Software Maintenance Agreement (SMA) must be purchased in conjunction with Supervisor software.
EC-Net 4 Supervisor UNL	EC-Net 4 Supervisor with Unlimited Niagara network connections. Includes standard drivers. Is also licensed to run EC-Net ^{AX} 3.8. Software Maintenance Agreement (SMA) must be purchased in conjunction with Supervisor software.
EC-Net 4 Supervisor Demo	EC-Net 4 Supervisor Demo. Includes all drivers and EC-Net 4 Pro. Can also run EC-Net ^{AX} 3.8. Purchase this version for internal use, ex. technician's laptops. Note: This license expires annually and its renewal is covered by the EC-Net Support Fee.

EC-Net 4 Supervisor Software Maintenance Agreement

Software maintenance is required when purchasing an EC-Net 4 Supervisor software. The minimum initial software maintenance plan is 18 months. Optional 3 or 5 year maintenance may be substituted.

If Maintenance coverage is not purchased for any period, the price of Maintenance for the next period for which it is purchased will be (a) the Maintenance fee for the period(s) for which Maintenance was not purchased, up to a maximum of 5 years; and (b) the Maintenance fee for the next year.

These software maintenance plans are ordered separately according the EC-Net 4 Supervisor version chosen. See the price list for more details.

Model	Product Description
EC-Net 4 Supervisor 0 - 18 month SMA	EC-Net 4 Supervisor 0 - Initial 18 month maintenance must be purchased in conjunction with initial Supervisor software. Optional 3 or 5 year maintenance may be substituted.
EC-Net 4 Supervisor 0 - 1 year SMA	EC-Net 4 Supervisor 0 - 1 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 0 - 3 year SMA	EC-Net 4 Supervisor 0 - 3 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 0 - 5 year SMA	EC-Net 4 Supervisor 0 - 5 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 1 - 18 month SMA	EC-Net 4 Supervisor 1 - Initial 18 month maintenance must be purchased in conjunction with Supervisor software. Optional 3 or 5 year maintenance may be substituted.
EC-Net 4 Supervisor 1 - 1 year SMA	EC-Net 4 Supervisor 1 - 1 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 1 - 3 year SMA	EC-Net 4 Supervisor 1 - 3 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 1 - 5 year SMA	EC-Net 4 Supervisor 1 - 5 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 2 - 18 month SMA	EC-Net 4 Supervisor 2 - Initial 18 month maintenance must be purchased in conjunction with Supervisor software. Optional 3 or 5 year maintenance may be substituted.
EC-Net 4 Supervisor 2 - 1 year SMA	EC-Net 4 Supervisor 2 - 1 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 2 - 3 year SMA	EC-Net 4 Supervisor 2 - 3 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 2 - 5 year SMA	EC-Net 4 Supervisor 2 - 5 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 3 - 18 month SMA	EC-Net 4 Supervisor 3 - Initial 18 month maintenance must be purchased in conjunction with Supervisor software. Optional 3 or 5 year maintenance may be substituted.
EC-Net 4 Supervisor 3 - 1 year SMA	EC-Net 4 Supervisor 3 - 1 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 3 - 3 year SMA	EC-Net 4 Supervisor 3 - 3 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 3 - 5 year SMA	EC-Net 4 Supervisor 3 - 5 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 10 - 18 month SMA	EC-Net 4 Supervisor 10 - Initial 18 month maintenance must be purchased in conjunction with Supervisor software. Optional 3 or 5 year maintenance may be substituted.
EC-Net 4 Supervisor 10 - 1 year SMA	EC-Net 4 Supervisor 10 - 1 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 10 - 3 year SMA	EC-Net 4 Supervisor 10 - 3 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 10 - 5 year SMA	EC-Net 4 Supervisor 10 - 5 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 100 - 18 month SMA	EC-Net 4 Supervisor 100 - Initial 18 month maintenance must be purchased in conjunction with Supervisor software. Optional 3 or 5 year maintenance may be substituted.
EC-Net 4 Supervisor 100 - 1 year SMA	EC-Net 4 Supervisor 100 - 1 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor 100 - 3 year SMA	EC-Net 4 Supervisor 100 - 3 year maintenance (Includes new and interim releases)

EC-Net 4 Supervisor 100 - 5 year SMA	EC-Net 4 Supervisor 100 - 5 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor UNL - 18 month SMA	EC-Net 4 Supervisor UNL - Initial 18 month maintenance must be purchased in conjunction with Supervisor software. Optional 3 or 5 year maintenance may be substituted.
EC-Net 4 Supervisor UNL - 1 year SMA	EC-Net 4 Supervisor UNL - 1 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor UNL - 3 year SMA	EC-Net 4 Supervisor UNL - 3 year maintenance (Includes new and interim releases)
EC-Net 4 Supervisor UNL - 5 year SMA	EC-Net 4 Supervisor UNL - 5 year maintenance (Includes new and interim releases)

Core Capacity Upgrades

Core upgrades add extra Niagara connection capacity to the EC-Net 4 Supervisor software. The following options are available.

Model	Product Description
Niagara Connection Adder	Adds one additional Niagara connection to EC-Net 4 Supervisor.
EC-Net 4 Supervisor 100 Upgrade	Upgrades "small" EC-Net 4 Supervisor (EC-Net 4 Supervisor 0 through EC-Net 4 Supervisor 10) to 100 Niagara connections. Will maintain any Niagara Connection Adder that were added to original license.
EC-Net 4 Supervisor UNL Upgrade	Upgrades EC-Net 4 Supervisor 100 to unlimited Niagara connections.

Database Drivers

Many open protocol IP drivers are included with EC-Net 4 Supervisor. However, the following database drivers must be purchased separately if required.

Model	Product Description
EC-DR-S-DB-MYSQL	MYSQL Database driver.
EC-DR-S-DB-ORCL	Oracle 11G Database driver.
EC-DR-S-DB-SQL	SQL Database driver.
EC-DR-S-DB-CSV	CSV Database driver.

Device Integration Packs

Device integration packs add extra device connection capacity to the EC-Net 4 Supervisor software. The following options are available.

Model	Product Description
EC-Net 4 Supervisor 10 Device Pack	Supports up to 10 devices or 500 points (Standard drivers included).
EC-Net 4 Supervisor 25 Device Pack	Supports up to 25 devices or 1,250 points (Standard drivers included).
EC-Net 4 Supervisor 50 Device Pack	Supports up to 50 devices or 2,500 points (Standard drivers included).
EC-Net 4 Supervisor 100 Device Pack	Supports up to 100 devices or 5,000 points (Standard drivers included).
EC-Net 4 Supervisor 200 Device Pack	Supports up to 200 devices or 10,000 points (Standard drivers included).
EC-Net 4 Supervisor 500 Device Pack	Supports up to 500 devices or 25,000 points (Standard drivers included).
EC-Net 4 Supervisor 1000 Device Pack	Supports up to 1000 devices or 50,000 points (Standard drivers included).

Compatibility

In any given EC-Net 4 system, the EC-Net 4 Supervisor must be running the highest version of any Niagara instance in the architecture.

When connecting to EC-BOS series controllers that are running older versions of EC-Net 4, these compatibility guidelines apply:

- EC-Net^{AX}: EC-Net 4 Supervisors can connect to EC-BOS series controllers running EC-Net^{AX} versions 3.6.406, 3.7.108, 3.8.38.
- EC-Net R2: EC-Net^{AX} and EC-Net 4 Supervisors can connect to an EC-BOS running R2 through the oBIX XML interface only. oBIX is included in all EC-Net^{AX} and EC-Net 4 Supervisors as a means of integrating EC-Net-based Release 2 (R2) EC-BOSs. With Release 2.3.522 or higher, the oBIX driver can be added to expose all data points, schedules, trends and alarms to an EC-Net^{AX} or EC-Net 4 system. This oBIX driver is both a client and a server.

Specifications subject to change without notice.

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