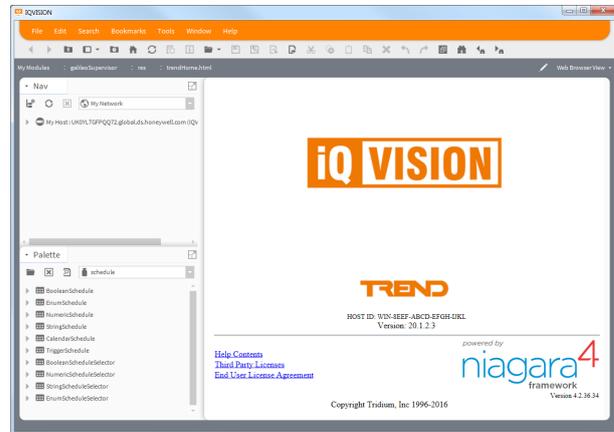


IQVISION Supervisor



Description

IQ®VISION is a building monitoring and management solution built upon the powerful Niagara 4 platform. It is capable of integrating Trend controllers, third party devices and internet protocols into a centralised software platform that is designed to manage buildings at an enterprise level.

IQVISION 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 – all of which can be used for highlighting and investigating energy use within buildings.

In addition, IQVISION provides a comprehensive, graphical engineering toolset for application development. HTML5 support enables the customisation of user interfaces that are viewable on diverse web-enabled computers, tablets and phones.

The embedded System Migration Tool greatly reduces set up time by allowing existing system data to be imported from the IQSET engineering tool and 963 supervisor. The tool also allows 963 schematics to be imported and converted into IQVISION's HTML5 format.

Third party device integration using open standard protocols such as BACnet, Modbus, MBUS and KNX is also supported.

Features

- Enhanced Trend IP Network Driver with full multi-site capability and Trend system model.
- HTML5 compliant web framework for full smart device compatibility.
- System Migration Tool for migrating device data and schematics from existing 963 and IQSET projects.
- 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.
- "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 alarm acknowledging.
- Access to alarms, logs, graphics, schedules, and configuration data with a standard web browser.
- Password protection and security using standard authentication and encryption techniques with optional security supported via an external LDAP connection.
- HTML-based help system that includes comprehensive on-line system documentation.
- Provides online/offline use of the Niagara Framework Workbench graphical configuration tool and a comprehensive Java Object Library
- Optional direct Ethernet based driver support for BACnet IP, EIB/KNX IP, Lon IP, Modbus IP master and slave, MBUS IP, SNMP and OPC client; additional point blocks for each driver may be purchased - see page 3.

COMPATIBILITY

IQVISION provides connectivity to a Trend system via any Ethernet-enabled device with an available virtual CNC (vCNC).

Controllers: IQVISION supports all IQ controllers with the exception of IQL and IQecoVav v1. IQ1 & 2 series controllers must be updated to the latest firmware available.

INSTALLATION

IQVISION is available as a download from the Trend Approved Partners site (PNet): <http://partners.trendcontrols.com>.

A username and password is required to access the site.

Once downloaded to your PC/laptop a step-by-step installation program will guide you through the installation process.

After installation the software must be licensed, and configured to operate as required, as described in the IQVISION Configuration Manual (TE201382) which is also available from PNet.

ORDER CODES

The IQVISION license scheme is based around a point count. A point is a single item of information that is stored into the IQVISION database and in the case of the Trend system includes sensors, knobs, switches, digital inputs, drivers and any additional software point (not connected with any controller) that you may want to add into IQVISION.

There are three main categories of point in IQVISION - genuine Trend points, open points and TONN points:

Genuine Trend Points

These are points controlled by Trend manufactured controllers (IQ1, IQ2, IQ3, IQ4, IQeco, XTEND, etc.). For this category of device the license is sized on the points you want to monitor. Point discovery is an embedded feature available through the discovery wizard embedded in the Trend driver. Trend devices and networks are not counted for licensing purposes. The main ordering codes are listed below:

IQV-500	IQVISION starter kit including Trend native driver and 500 point database size
IQV-2500	IQVISION starter kit including Trend native driver and 2500 point database size
IQV-5000	IQVISION starter kit including Trend native driver and 5000 point database size
IQV-15000	IQVISION starter kit including Trend native driver and 15000 point database size

If a customer wants to purchase additional Trend points to meet system requirements, they can do that by combining quantities of the following codes to reach the desired IQVISION database size:

IQV-100EXT	IQVISION additional 100 Trend database points
IQV-500EXT	IQVISION additional 500 Trend database points
IQV-2500EXT	IQVISION additional 2500 Trend database points

Open Points

These are points from open protocol equipped devices or subsystems that you wish to integrate straight into IQVISION. The IQVISION open driver packs include a selection of standard drivers that you can select to be used to perform head end integration.

Standard drivers are: BACnet IP, EIB/KNX IP, Lon IP, Modbus IP master and slave, MBUS IP, SNMP and OPC client. Open driver packs ordering codes are listed below:

IQV-500-OPEN	Extend base license with additional 500 Open protocols points
IQV-2500-OPEN	Extend base license with additional 2500 Open protocols points
IQV-5000-OPEN	Extend base license with additional 5000 Open protocols points
IQV-10000-OPEN	Extend base license with additional 10000 Open protocols points

Please note that open protocol license management is delivered in a way that as soon as you reach the limit for point count customers need to request license upgrade accordingly.

TONN Points

These are points controlled by TONN devices. The license scheme is based around the number of devices. Main ordering codes are listed below:

IQV-1-N	Upgrade Supervisor add 1 TONN connectivity
IQV-10-N	Upgrade Supervisor add 10 TONN connectivity

Maintenance Upgrade Options

IQVISION starter kits include an 18 month maintenance and free upgrade package. This can be extended by purchasing one of the following maintenance upgrade options:

IQV-MNT1	IQVISION maintenance upgrade - additional 1 year
IQV-MNT3	IQVISION maintenance upgrade - additional 3 years
IQV-MNT5	IQVISION maintenance upgrade - additional 5 years

Extended Support Options

IQV-OPC	Extend the open protocol points with OPC client connectivity
IQV-DB-CSV	Extend the capability for the supervisor to interact with Microsoft Excel
IQV-DB-SQL	Extend the capability for the supervisor to communicate SQL

PLATFORM REQUIREMENTS

IQVISION will run on the following operating systems:

Windows 10 (32-bit),
 Windows 10 (64-bit),
 Windows 8.1 Professional/Enterprise/Ultimate (32-bit),
 Windows 8.1 Professional/Enterprise/Ultimate (64-bit),
 Windows 7 Professional/Enterprise/Ultimate (32-bit),
 Windows 7 Professional/Enterprise/Ultimate (64-bit),
 Windows Server 2012 R2 Standard/Enterprise (SP2)
 (64-bit)

Your PC must comply with the minimum specification for the installed operating system as specified by Microsoft.

In addition to meeting the requirements for the operating system IQVISION requires the following:

Processor	:Intel® Xeon® CPU E5-2640 x64 (or better), compatible with dual- and quad-core processors.
Memory	:1 GB minimum, 4 GB or more recommended for larger systems.
Free Hard Drive Space	:4 GB minimum, more recommended depending on archiving requirements.
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).

If enterprise-level data archiving is required (optional), one of the following compatible database applications will need to be installed:

MS SQL Server 2012,
 MS SQL Server 2014.

Please send any comments about this or any other Trend technical publication to techpubs@trendcontrols.com

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