INNOTECH®

# NeoView

DS 23.23
November 2022

NeoView is part of the portfolio of Java-based controller/ server products, software applications and tools powered by the Niagara Framework®. It provides server-level functions for a network of NeoLink and other field devices. NeoView serves real-time graphical information to standard web-browser clients and performs essential functions such as analytics, centralized data logging/trending, archiving to external databases, alarming, dashboarding, system navigation, master scheduling, database management and integration with other enterprise software applications. Additionally, the NeoView provides a comprehensive graphical engineering toolset for application development and configuration.

NeoView allows the networking of multiple Niagara-based NeoLink or JACE devices, along with other IP-based controllers and field devices. It enables the design, configuration and maintenance of a unified, real-time controls network.

## Key Features

- Centralised system management
- Utilise tags to quickly navigate to buildings, systems and equipment when diagnosing operational problems or emergencies
- Compare data between buildings
- Export system data to external databases
- Integrate a Building Automation System (BAS) with other enterprise applications
- Integrate with other applications, such as work order management, analytics, etc.
- Single tool used to program NeoLink controllers and NeoView
- Remotely back up NeoLink or JACE applications to NeoView
- Batch provisioning of NeoLink firmware upgrades, security credentials, applications and commissioning options from NeoView
- Robust built-in analytic capabilities supported by standard Niagara components and visualizations
- Includes Niagara Analytics, which features data source, functional and mathematical programming blocks that enable sophisticated analytic algorithms
- Compatibility with Niagara Enterprise Security access control and security application. Allows integration of BAS and access control to save energy and optimise operations

*powered by* niagara framework®

## Cyber-security Features

- Single Sign-On with NeoView as an Identity Provider allows users to login into one station and access all other connected stations via a browser without having to re-authenticate. Eliminates need to manually configure and manage an external IdP.
- Third-Party Module Signing now enforces the signing of newly added modules and makes administrators aware of any existing, unsigned third-party modules, eliminating the risk that modules may have been tampered with or come from an untrustworthy source.
- Secure Boot via NeoLink will only boot-up with digitally signed trusted software, providing assurance against alteration.
- Data Encryption on the NeoLink and NeoView have encryption that meets the FIPS 140-2 federal standard suitable for mission-critical industries such as banking and for US government contracts. Data is encrypted when sent/ received, as well as at rest
- Built in PKI management tools allow integration with any PKI infrastructure, LDAP directories, Kerberos
- Security Audit Log provides users with a history of who, or what, is logging into or changing security-related settings on a NeoView instance

## SPECIFICATIONS

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| Features a HTML5 and Java-enabled user interface (UI), and includes a JavaScript data interface library (BajaScript) |
| 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, MySQL or Oracle databases, and HTTP/HTML/ XML, CSV or 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 email alarm acknowledging |
| Access to alarms, logs, graphics, schedules and configuration data with a standard web browser |
| Niagara follows industry best practices for cyber-security, with support for features such as strong, hashed passwords, TLS for secure communications and certificate management tools for authentication. A built-in Security Dashboard provides a comprehensive and actionable view of the security posture of your Neoview Niagara deployment |
| HTML-based help system that includes comprehensive online system documentation |
| Supports multiple Niagara-based stations connected to a local Ethernet network or the internet |
| 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 most Open IP field bus protocols (see supported drivers document) |

## SOFTWARE & DRIVERS

Every NeoView comes with a Niagara 4 software license, along with multiple open-protocol IP drivers that are compatible with standard control networks. If required, other drivers can be purchase separately. For an up-to-date list of supported drivers, visit the resource library on tridium.com.

## SOFTWARE MAINTENANCE

Purchase of a software maintenance agreement (SMA) is required with initial NeoView licensing. The initial SMA is for 18 months, with extended agreements of 3 years and 5 years available for discounted rates.

If a Software Maintenance Agreement is not in effect for any period, the price of maintenance for the next period for which it is purchased will be priced at a cost equal to the maintenance fee for the period(s) for which maintenance was not purchased, up to a maximum of 5 years, plus the maintenance fee for the next year.

For an up-to-date list of supported drivers, visit tridium.com.

## COMPATIBILITY

In any given Niagara system, the NeoView must be running the highest version of any Niagara instance in the architecture. When connecting to NeoLinks that are running older versions of Niagara, these compatibility guidelines apply:

- NeoView can connect to NeoLinks and JACE devices running Niagara AX versions 3.8 and higher.
- R2: NeoView can connect to NeoLinks or JACE devices running R2 through the oBIX XML interface only.

## PLATFORM REQUIREMENTS FOR NEOVIEW

NeoView may run acceptably on lower-rated platforms, or may even require more powerful platforms, depending on the application, number of data points integrated, data poll rate, number of concurrent users, performance expectations, etc.

- Processor: Intel® Xeon® CPU E5-2640 x64 (or better), compatible with dual- and quad-core processors
- Operating System: Windows 11, Windows 10 (64 bit), Windows Server 2016, Windows Server 2019 (64 bit), Red Hat Enterprise Linux 7.7, 8.1 (64bit)
- Mobile operating system: iOS 12, iOS13, Android 8 Oreo, Android 9 Pie, Android 10.0
- Browser: Chrome, Firefox, Microsoft Edge
- Mobile Browser: Safari on iOS, Chrome on Android
- Database: MySQL 5.7, 8.0, 9.0; Oracle Express 11g; Oracle 12, 18, 19c; MSSQL 2012, 2016, 2017, 2019
- Memory: 6 GB minimum, 8 GB or more recommended for larger systems
- Hard Drive: 4 GB minimum, more recommended depending on archiving requirements
- Display: Video card & monitor capable of displaying 1024 x 768 pixel resolution, 1080p (1920 x 1080) min. resolution recommended
- 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) & IPv6 compliant