JENEsys Edge® Portfolio
Powered by the Niagara Framework®

A single, scalable, and extendable platform utilizing the Niagara Framework to seamlessly control, manage, and monitor equipment and systems.

- Niagara Portability
- Open Systems, Protocols & Standards
- Award Winning Business & Operating Value

LYNXSPRING®

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The Niagara Framework®

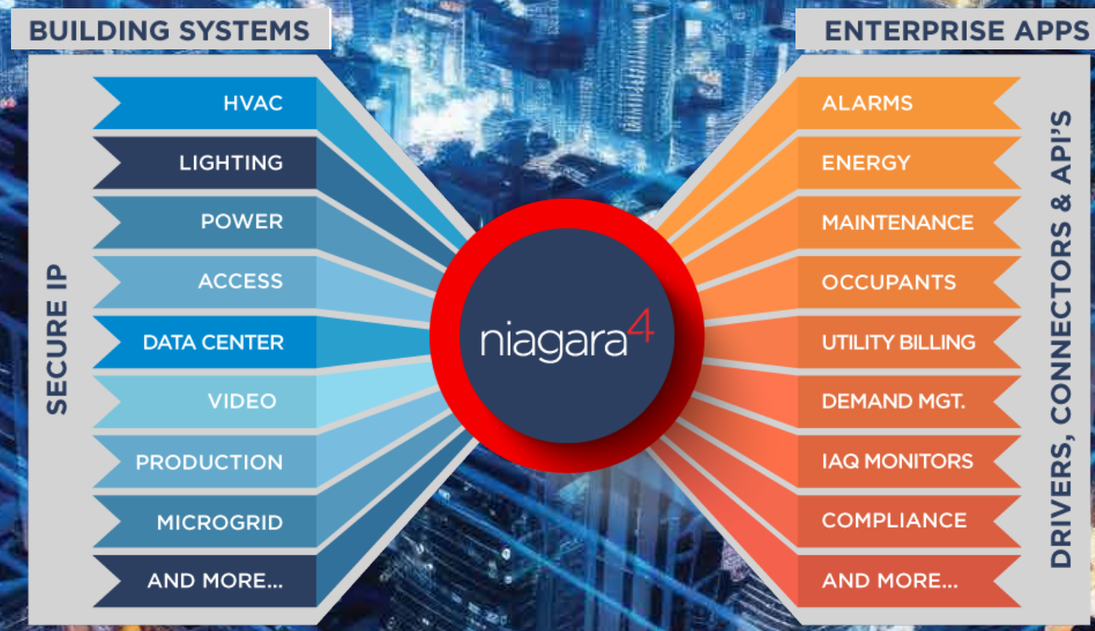
Buildings today are equipped with a variety of direct digital controls from HVAC equipment and lighting controls to security and energy management systems. Effective integration and interoperability between these systems is critical to improve a building operating system's performance in modern and dynamic business environments.

Globally, surpassing more than 1 million instances deployed, Tridium's Niagara Framework is a proven building integration platform that is widely accepted.

A unique strength of the Niagara Framework is its ability to easily connect, normalize, integrate, and interoperate with multiple disparate BAS systems and devices, supporting all the open standard network protocols used in buildings today.

Niagara supports a wide range of protocols including LonWorks®, BACnet®, Modbus, MQTT, legacy systems and Internet standards. The Niagara Framework also includes integrated network management tools to support the design, configuration, installation, and maintenance of interoperable networks.

The de facto standard in building automation and integration, Niagara supports data interoperability and drives predictive analytics that lead to even more efficient and optimized building systems.



By 2021, Lynxspring was the 4th largest/fastest growing Tridium OEM

Lynxspring is an Authorized Tridium Dealer

Niagara solutions are available through many partners and distribution channels, including OEMs, distributors, independent systems integrators, and other technology companies.

Tridium does not sell the Niagara Framework and related products directly to end users. Instead, they employ an open distribution model in which they align themselves with industry partners to sell, market, install and support their products.

Lynxspring was one of Tridium's very first partners, and one of the original early adopters of the Niagara Framework technology and the JACE controller.

Lynxspring has been a Niagara Distributor since 2002 and collaborated in the design of Niagara AX in 2005. In 2006, Lynxspring became a Niagara OEM and secured manufacturing rights.

In 2017, Lynxspring became the first Niagara platform portability partner which led to the development of our JENEsys Edge product line.

The Niagara Framework serves over 90% of the Building Automation marketplace

Niagara Portability

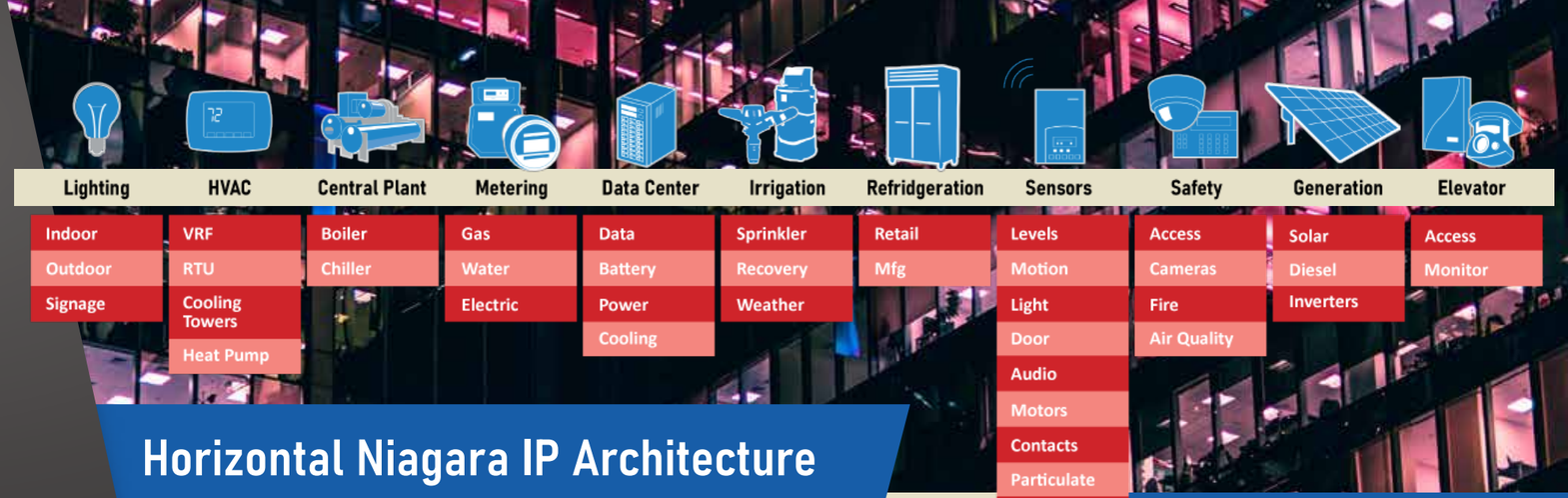
In 2017, Lynxspring—under agreement with Tridium—extended Niagara's functionality by porting it onto open hardware and software platforms developed and manufactured by Lynxspring.

As a result, we developed and launched JENEsys Edge, a Niagara IP-based portfolio of programmable controllers that support IP connectivity, integration, interoperability, data access and control at the edge.

The versatility, functionality, and broad footprint of the JENEsys Edge portfolio using the industry's most widely deployed platform makes this a powerful, cost-effective, and economical solution for system integrators, building operators and equipment manufacturers.

Why Specify Niagara in Your Building Projects?

- Choice in Open Environment, Protocols & Procurement
- Proven & Trusted with Over 1 Million Instances Deployed
- Has the Support of Major HVAC Control Manufacturers
- Sold Globally and Accepted as the De facto Standard in Building Integration
- 50,000+ Worldwide Community of Developers, Integrators, Engineers, and Contractors
- A Single Software Tool Leveraging Industry-Wide Niagara Expertise/Certification Training



Horizontal Niagara IP Architecture

Benefits of the JENEsys Edge Portfolio of Controls

The development of Lynxspring's JENEsys Edge product line has helped redefine the structure of smart technology and flatten the topology of traditional building control architectures.

JENEsys Edge enables a horizontal network architecture that delivers the connectivity, integration, and interoperability required for today's modern building systems and equipment. Simplifying facility management, JENEsys Edge Niagara IP-based controllers are scalable, customizable, and provide:

- Legacy Integration Capabilities
- Modular and Programmable Capabilities
- Secure IP Networks at the BAS Device Level
- No Vendor Lockdown = Contractor Independence
- Integration of Proprietary & Incompatible Equipment
- IP-Based Peer-to-Peer (Direct Access to Any Device)
- Advanced Sequence of Operations for Edge Devices
- Faster, Simplified Vulnerability Patching and Remediation
- Running Applications at the Edge (i.e., Analytics, CMMS)
- Visibility & Control of Data Management Across the Enterprise
- Flexibility to Define BAS System Data as the Building Owner/Operator Sees Fit

Reasons to choose JENEsys Edge:

- **Over 43,000 controllers deployed globally**
- **JENEsys Edge 534, 514 & 414 eligible for federal accreditation within the Risk Management Framework**
- **JENEsys Edge 534 line satisfies IT Security requirements within the General Services Administration**
- **JENEsys Edge VAV has ready-to-use sequences based on ASHRAE Guideline 36**
- **JENEsys Edge 534 awarded Best Tech Innovation Intelligent Buildings from Realcomm/IBcon**
- **Ideal for small to mid-sized facilities, multi-site, plant and equipment control**
- **MADE IN USA**

Open Systems, Open Protocols & Open Standards

Lynxspring's JENEsys Edge portfolio streamlines all areas of your building's operations addressing challenges like data visibility, maintenance, sustainability, energy management and facility usage.

Developed on an open Linux platform, JENEsys Edge is a great option, with Niagara 4 already ported and embedded, offering a scalable and extensible platform.

JENEsys Edge contollers have built-in IO, run on Linux OS, include the full Niagara 4 stack, are programmed with standard universal Niagara Workbench, available with several licensing options and support BACnet IP, BACnet, MSTP, Modus TCP/IP and Modbus RTU.

They are also designed to integrate a variety of protocols, XML-based connectivity options and open APIs.

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While some Niagara providers prefer to offer a closed NiCS (Niagara Compatibility Statement) licensing model, Lynxspring's JENEsys Edge product line is open NiCS and open licensing.

JENEsys Edge can easily connect and manage any Niagara tool or system without the need to modify the license structure. This prevents vendor lock-in, and many challenges associated with a closed NiCS environment.

JENESYS edge® Lynxspring's Niagara Product Line

Designed to provide maximum performance at minimum cost, JENEsys Edge allows you to build off of the same network deployment and add more applications as needed.

Reduce Engineering Time & Installation Costs

Lynxspring is a great source to seamlessly control, manage and monitor your equipment and systems. With extra IO on-board, you can extend Niagara control to plant, unitary, RTU or AHU, equipment and to smaller facilities.

Whether operating a single building, multiple retail outlets, a large industrial manufacturing plant, a multi-story commercial building or an entire university campus; JENEsys Edge is a cost effective and scalable solution for your specific use case.

JENEsys Edge incorporates a unified control station that makes it easier to manage and identify opportunities for performance improvement and cost savings.

With real-time management and control, JENEsys Edge enables better optimization of equipment and demand response and provides valuable data into energy consumption and the utilization patterns of your facilities.

After launching the innovative JENEsys Edge 534 Niagara controller in 2017, Lynxspring was awarded IBcon's "Best Tech Innovation" in Intelligent Buildings

JENEsys Edge Delivers Business & Operating Value

Financial & Business Management

- Scalability, flexibility, and extensibility.
- Improves visibility into operational assets.
- Operates in a cyber-secured environment.
- Streamlines multiple operations via a central location.
- Open system/open standards/reduces vendor lock-in.
- Increases profitability/lowers cost of operations.
- Preserves existing legacy system investments.

Maintenance and Operations

- UI on web, desktop, and mobile.
- Easy installation/rapid deployment.
- Remote access for diagnostics/repair.
- Quick troubleshooting/problem resolution.
- Supports preventative maintenance.

Energy Management

- Real-time data driven dashboards.
- Supports improved energy control/management.
- Provides data on consumption patterns/trends.
- Supports data aggregation from multiple systems.
- Helps to identify/reduce energy utilization costs.
- Increases tenant/occupant comfort.

Facility & Equipment Management

- A single tool/device universality.
- Multi-vendor system/app interoperability.
- Increases system/equipment functionality.
- Supports multi-party software/hardware.
- Reduces equipment downtime & maximizes lifetime value.

Networked, Wireless Control Design

Lynxspring's products are especially designed incorporating IP networks that support most commercial building functions. JENEsys Edge devices join your OT with common standards and a common IP network.

New wiring expenses can cost you upwards of 20% to 80% of the retrofit project costs. Through our networked and wireless controls design, you save on wiring and labor for your lighting, chillers, boilers, fire and security systems, air handler units, roof top units, fan coil units and humidity control.

Advantages of the JENEsys Edge

JENEsys Edge controllers include standard protocol communications such as BACnet, Modbus, and Fox with on-board IO, a small footprint, and offer multiple licensing options.

They also allow Niagara control to be applied in a wider variety of instances such as equipment control, small building applications and application-specific projects.

One IP Platform.
Many Possibilities.

LYNXSPRING®
www.lynxspring.com

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