Niagara 4.10 Features Overview





Niagara Framework: Always Evolving – 4.10

Niagara 4.10 brings exciting new features that continue to evolve Niagara's key tenets of visualization, rapid deployment, security, Edge, connectivity, certification and IT compliance.



TRIDIU

Enhanced Virtual Graphics with Tag Based Visualization



Time spent re-creating graphics for a common application is money wasted

- In Niagara 4.10, Tag Based Graphics can now be used with SystemDB and Virtuals
- Create local graphics based on tags once, and then reuse throughout your entire enterprise portfolio, thereby saving time and reducing the chance of graphics being out of sync

Tags and metadata are the future of building management

• Conform with the latest building design specifications by using a graphical user interface (GUI) based entirely on tags

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Introducing a Cutting-Edge and Performant UI – UxMedia

- Enables an improved end user experience
 - Faster graphics load time by removing the rendering and layout from the JACE and shifting it to the browser
 - UxMedia widgets provides immediate feedback upon value changes
- Fosters an enriched modern developer environment
 - Utilize rich sets of open-source development tools to enable a native HTML5 and JavaScript UI that is more flexible and adaptable to future cloud-based solutions
 - Ul development process is more efficient since evaluating widget changes does not require a module rebuild and a station restart - just hit refresh in the browser to try out the new behavior!
 - Instantaneously convert existing PX Graphics to utilize UxMedia via the PxMediaMigrator and the browser-native Audition Mode





Video Surveillance Viewer

HTML5 Surveillance Viewer

- Select Video Layout
- Drag-drop cameras onto your screen
- Save your view for future use.
- Allows operators to quickly display group

Axis Camera Discovery

New labor-saving feature that scans you



HTML5 Tag Manager

- Provides an enhanced tagging workflow and improved user experience, which quickly helps you get the job done right
 - Enables the bulk tagging of components via an enriched HTML5 Browser Interface
 - Drag-n-drop functionality
 - Seamlessly view direct and implied tags
 - Export all **direct and implied** component tags to a spreadsheet for templating and ongoing management
 - Integration with the Niagara Search Service
 - Added as a default view on all station components for enhanced flexibility
 - Harness the power of tagging in your Niagara stations
 - Enables the analysis of large quantities of disparate data
 - Provides essential insight into your building systems and equipment operation
 - Eliminates the inherent issues associated with bespoke point naming schemas
 - Conformity with Division 25 and the prospective ASHRAE Standard 223P

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Facilitating Niagara at the Edge





🚰 New Job Step X						
	·····					
Set Certificate Alias	Set certificate alias for the platform, fox, and web services					
Set Platform Credentials	Set platform credentials					
🖋 Set Property	Set or add a property					
💼 Set Station Connection Credentials	Set the station credentials used to connect to the remote station.					
Set Station User Password	Set the password of the current station user					
🔍 Set System Passphrase	Set System Passphrase					
G Set TLS Level	Set TLS level for the platform, fox, and web services					
Set Time	Set the time for each device					
↔ Setup Reciprocal Connection	Setup the Niagara Network connection from remote station to sup					
💭 Sign Certificate	Sign a certificate on each station					
Dpdate Template or Application Configuration	Update configuration of deployed templates or installed applicatio					
Dygrade Application Template	Upgrade an application template installed on stations in the job					
🕲 Upgrade Out-of-date Software	Upgrade out-of-date software for each station in the job					
Dpgrade Template	Upgrade deployed template instances on each station in the job					
OK Cancel						

Reduce time spent installing, commissioning, and configuring multiple Niagara devices with application templates and provisioning. The latest updates to Edge Tools include:

- New provisioning steps
 The ability to unagraph of an analysis
- The ability to upgrade or reconfigure installed application templates
- Flexibility in defining and configuring peer device and/or station proxies when installing an application template
- Ability to capture and reuse the as-built configuration of an application template



Facilitating Niagara at the Edge

New Supervisor Edge Licensing Scheme for Niagara Network connections Allows you to connect 10 times more Edge devices to a Supervisor for the same price.

Today

1 Niagara Network Connection = 1 Edge device



4.10

1 Niagara Network Connection = 10 Edge devices



powered by



All items and schedules are subject to change at Tridium's sole discretion. Tridium has no obligation to deliver any future product outlined in this document.

- * Applies to 150 points-based license or less for Edge 10 and OEM devices 'powered by Niagara framework' not applicable to JACE
- * If devices are upgraded to >150 points, then licenses revert to full connection

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Bulk Certificate Signing Tool



- Significantly reduces the time spent signing multiple certificate signing requests
 - Workbench Tool provides the native simultaneous bulk signing of certificates with the same CA
 - Critical Enabler for BACnet/SC
- No need for a 3rd party signed certificate converter to generate browser compatible formats
 - Provides the ability to generate a signed certificate in PKCS7 format
 - Simplifies the process of generating signed certificates essential for ensuring secure Browsers access



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Enabling Cloud Connectivity



Reduce the time and complexity of integrating Niagara with cloud solutions with updated connectivity options.

- Updates to Niagara MQTT driver to support Google Authentication (JWT).
- Utilize the JSON Toolkit, introduced in Niagara 4.9, to construct bespoke messages into required formats for cloud communication.





Securing Niagara - 3rd Party Module Signing

Default Verification Mode by Version



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warnings but still fu	nction.	Error if	signed	module	modified	after it	was signed.	Can
be increased to Me	dium o	r High.						

Medium	All modules must be signed by valid, trusted certificate (may be self-signed). Can be decreased to Low or increased to High

All modules must be signed with CA Certificate. Can be decreased to Medium.

High

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Supported Infrastructure

Keeping pace with advancing infrastructure to enable more efficient, long-term support.

Supported OS/Browser/DB

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OS, Browser, DB	Version			
Red Hat Enterprise Linux	7.7, 8.1			
Windows Server	11, 10 (64bit), 2016, 2019			
VMWare ESXi	6.7			
Oracle Database	19c, 18c 12.2/12.1			
MySQL Database	8			
MS SQL Server Database	2016, 2017, 2019			
Browsers (Current Rev)	Chrome, FireFox, Microsoft Edge			
Mobile Browsers	Safari (iOS 12, 13), Chrome (8, 9, 10)			
Niagara SystemDB	Orient v3			



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