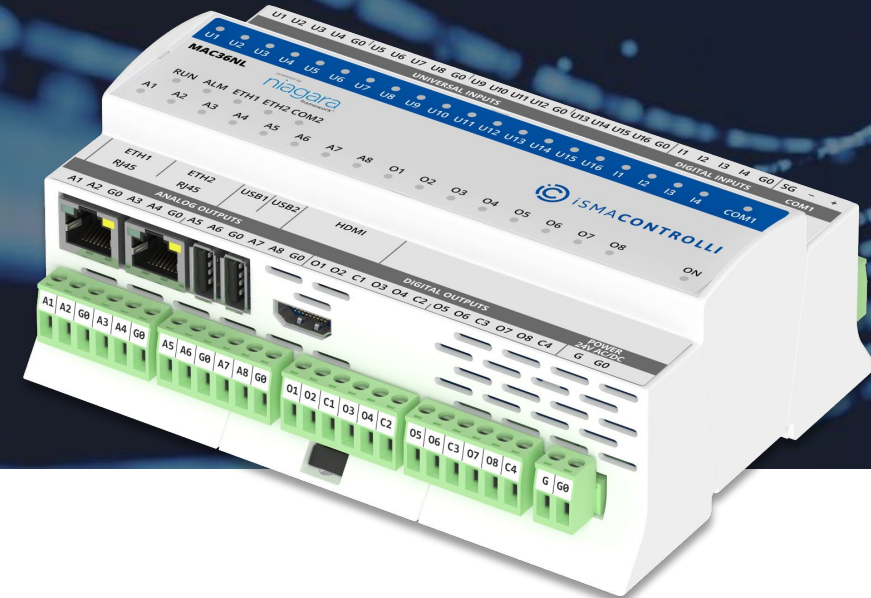


Niagara 4.12 and 4.10U3 for MAC36NL

niagara PORTABILITY



Niagara 4.12

Overview of the new features



Niagara 4.12 brings exciting new features that continue to evolve Niagara’s key tenets of visualization, rapid deployment, security, Edge, connectivity, certification and IT compliance.



Visualization

WebWiresheet 2.0
HTML5 Niagara
Point Manager View
HTML5 BQL Query
Builder



Connectivity

MQTT – Azure Auth
HTTP Driver
MSTP Engine Optimization
MaxPro Support in Video
Framework



Security

Critical Support Updates &
Enhancements



Deployment

Internationalization
Support
Edge Tools Updates

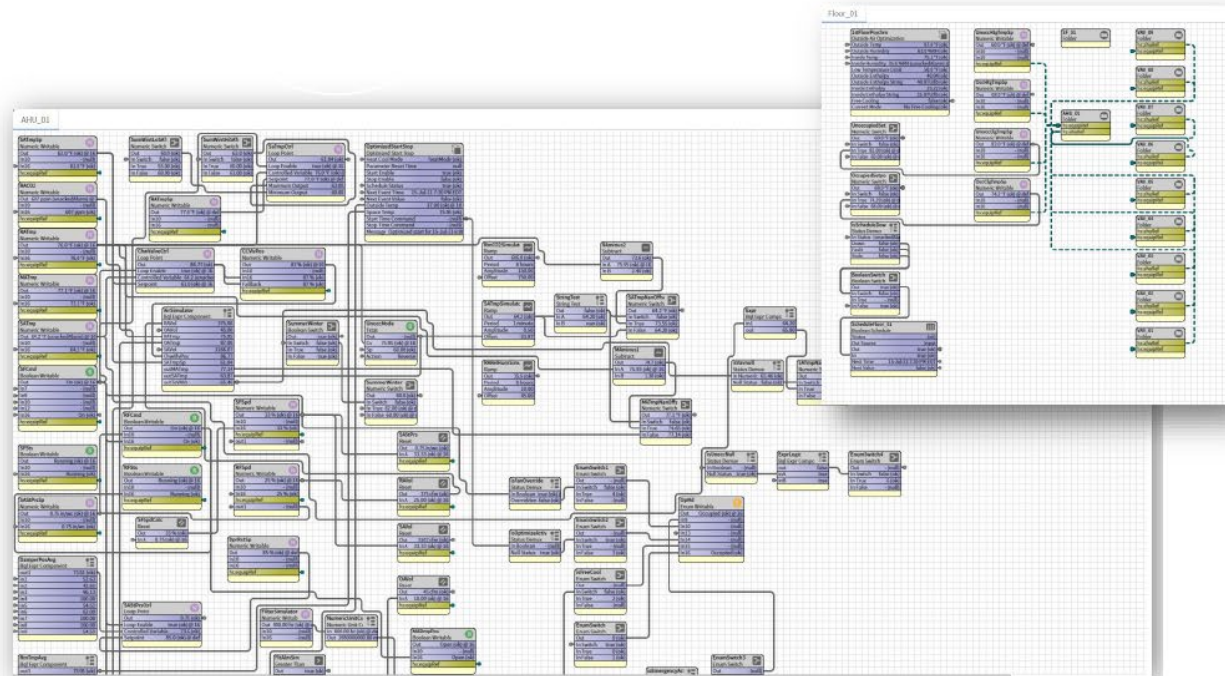
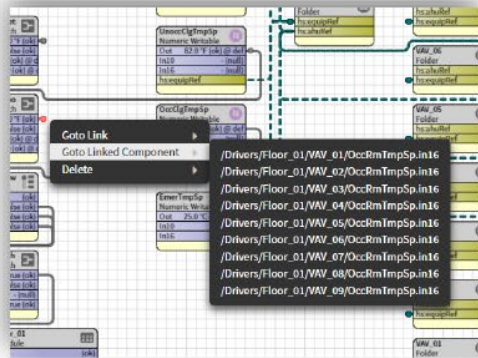


Certification & Compliance

Expanded History
Character
Limitation
BACnet Protocol
Revision 15
Update

WebWiresheet is a native HTML5 configuration tool which extends the power of the Workbench Wiresheet Application into a Browser Environment

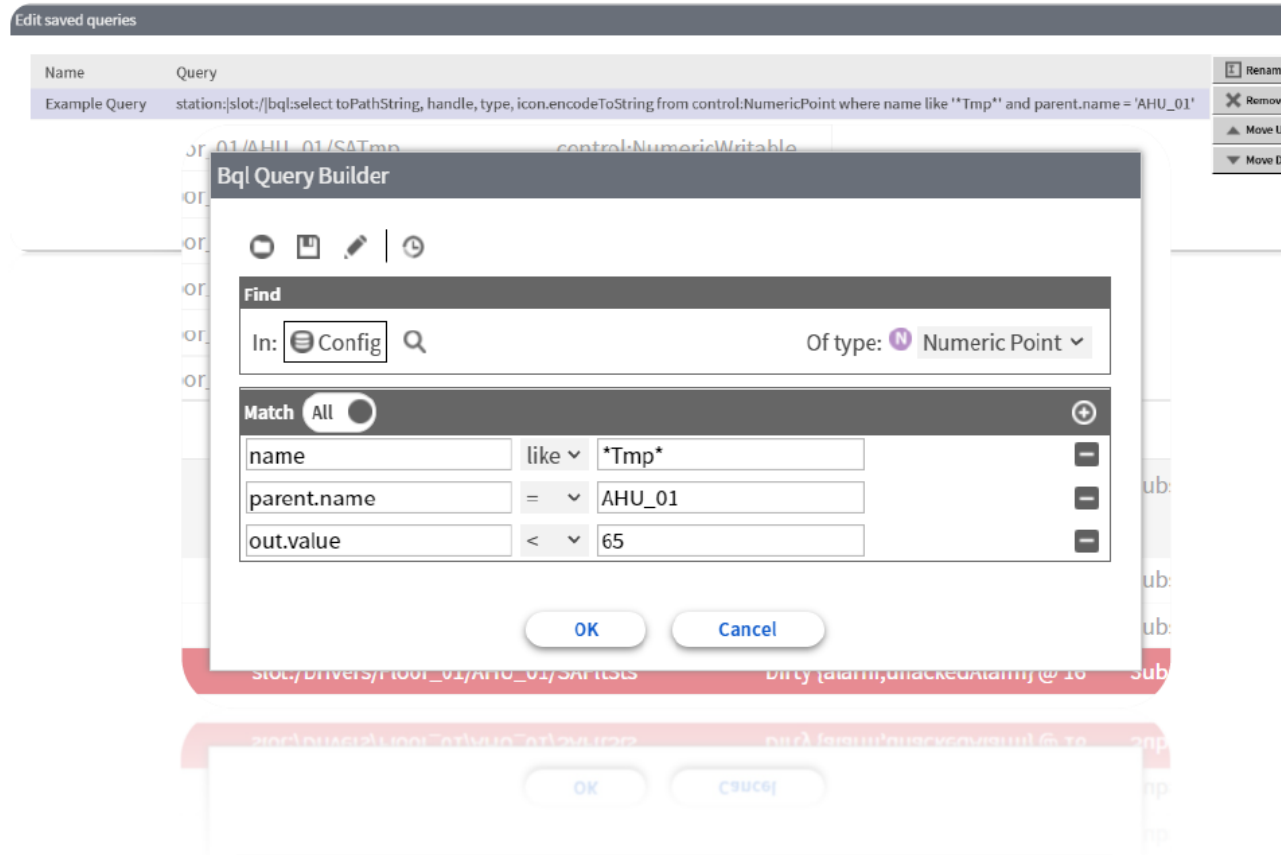
- Intuitive Linking
- Multi-Selection Mode
- Rapid Relation Marking
- Search Service Integration



HTML5 BQL Query Builder

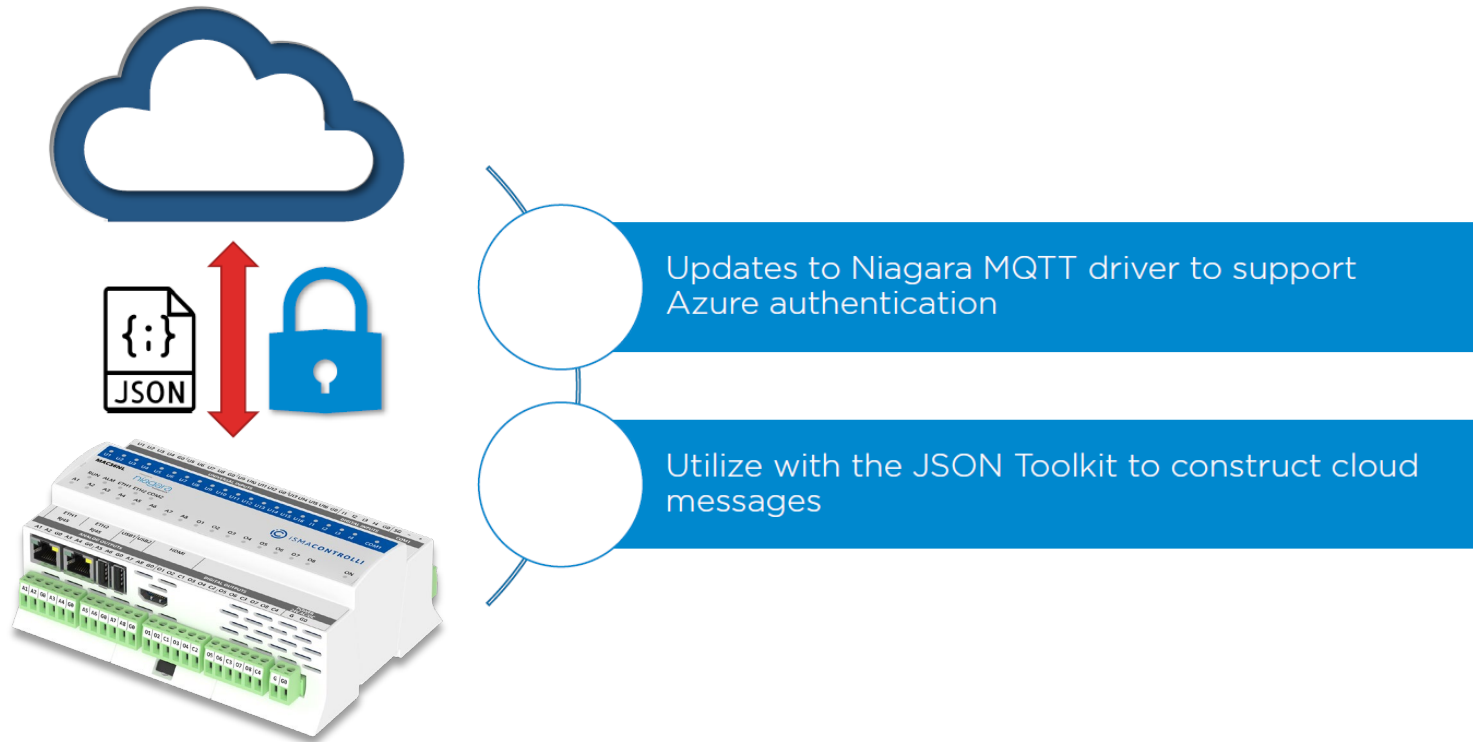
Provides an enhanced querying workflow and improved user experience, giving you even more flexibility to quickly get the job done

- Query components via an HTML5 Browser Interface
- Configure Reports in a Browser using the Report Service
- Create BQL queries for later use across your Niagara Stations



MQTT Driver Azure® Authenticator

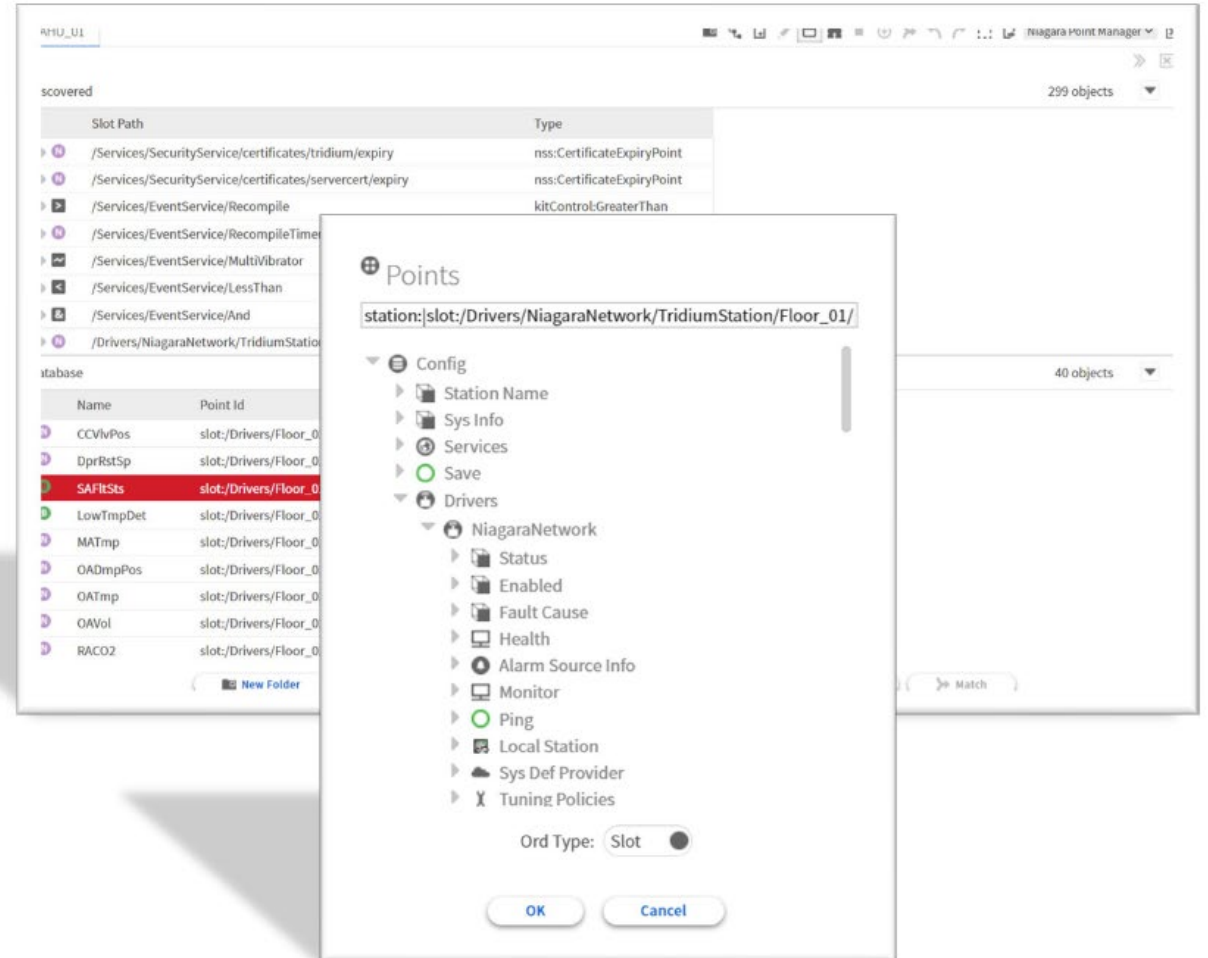
Reduce the time and complexity of integrating Niagara with cloud solutions with updated connectivity options.



HTML5 Niagara Network Point Manager

Extends the functionality of the Workbench Niagara Point Manager Application into a Browser Environment.

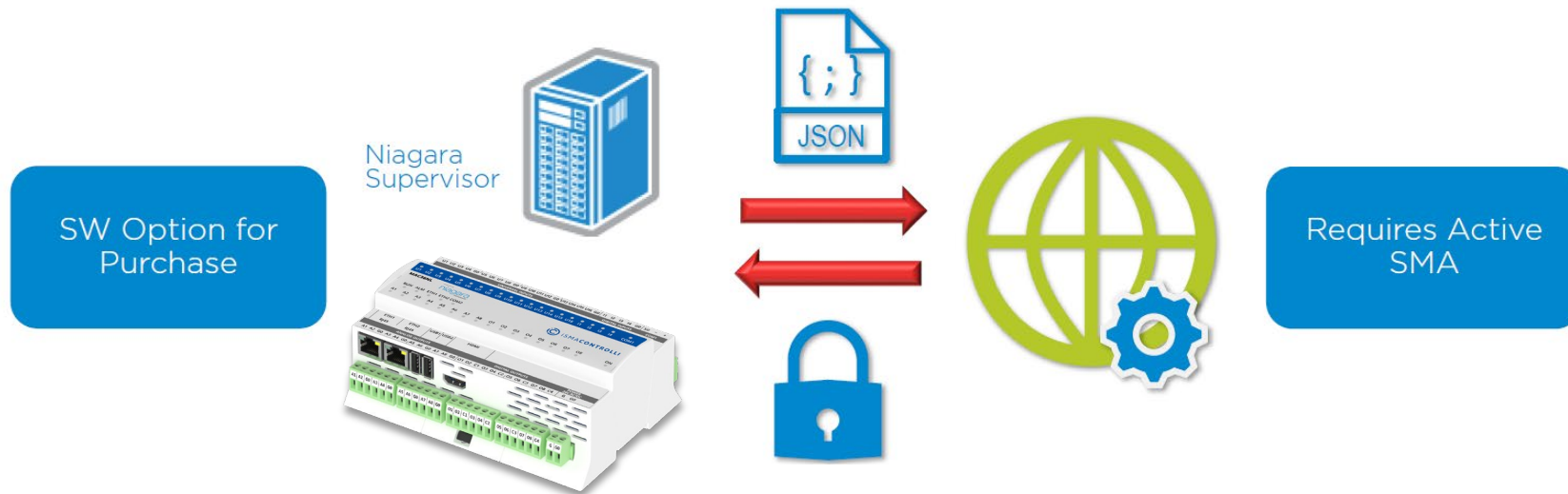
- Discovery and addition of components via an enriched HTML5 Browser Interface
- Drag-n-drop functionality
- Improved user experience
- Enhances your workflow efficiency
- Provides Added Flexibility



HTTP Client Driver

The HTTP Client module provides tools and a driver, which interact with HTTP services, such as web services and restful API endpoints

- Permits data exchange both in and out of a station
- Execute a GET, POST or PUT between Niagara and APIs or web services



User Prototypes & Authentication Scheme

- The SAML Authentication Scheme can now be configured to optionally merge user prototypes that match a user's prototype attributes, instead of just picking a single prototype.
- LDAP and Kerberos authentication schemes can now be configured to optionally merge user prototypes that match a user's prototype attributes, instead of just picking a single prototype.

Platform User Access

- Niagara Daemon user logins and login failures are now captured in the local station's "Security Audit Log"

Security Dashboard Enhancements

- Hidden Users are now displayed on the User Service Card

User Service

7

Warning 2
OK 1
Info 4

- ⚠ Number of hidden users: 1.
- ⚠ A Super User with name "admin" exists.
- ✅ Lock Out feature is enabled in the User Service.
- ℹ Number of all users in the station is: 4.
- ℹ Number of Super User accounts in the station is: 2.
- ℹ Password expiration is DISABLED for all users.
- ℹ Concurrent sessions are ENABLED for super users: admin, lucid

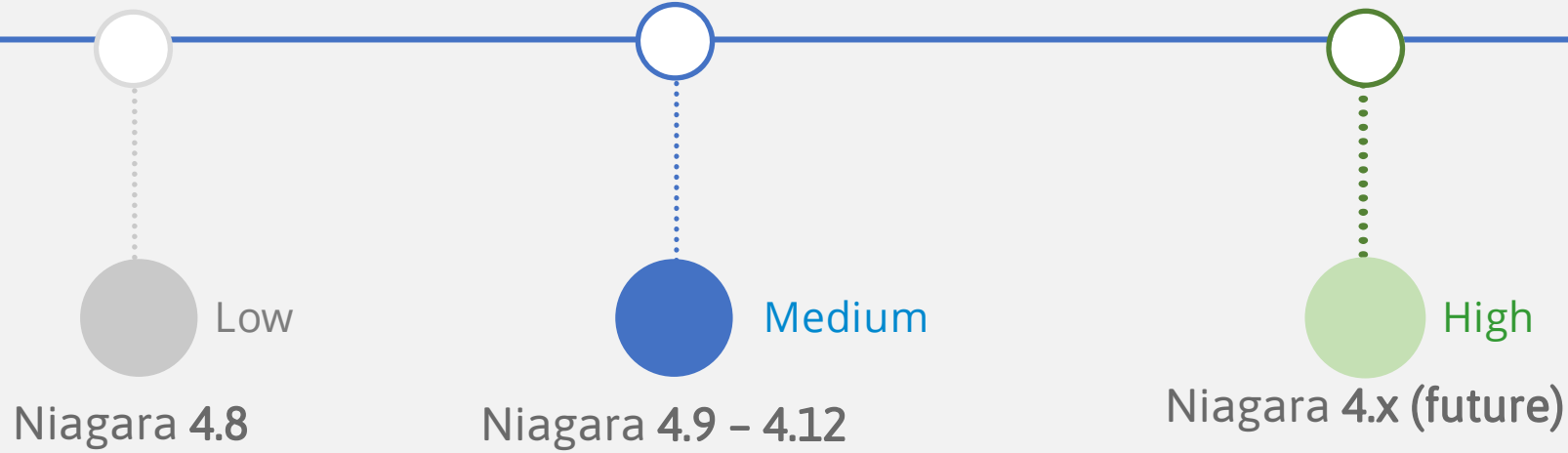
[MORE](#)

⚠ **Number of hidden users: 1.**
Hidden users may not show up in every view. An attacker could create a hidden user that would be difficult to detect. It is not recommended to have any hidden users.

Time Range: 21-Sep-21 9:27 AM EDT to 1

test/SecurityHistory

Timestamp	Operation	User Name	Message
21-Sep-21 9:27:33 AM EDT	Login	admin	/Services/FoxService/serverConnections/Session 127.0.0.1 Workbench 4.12.0.37.272
21-Sep-21 9:28:10 AM EDT	Login	stjkhjkh	Platform 127.0.0.1 Niagara/4.12.0.37.272
21-Sep-21 9:28:40 AM EDT	Login Failure	stjkhjkh	Platform 127.0.0.1 Niagara/4.12.0.37.272
21-Sep-21 9:35:40 AM EDT	Logout	admin	/Services/FoxService/serverConnections/Session 127.0.0.1 Workbench 4.12.0.37.272
21-Sep-21 10:42:26 AM EDT	Login	admin	/Services/FoxService/serverConnections/Session 127.0.0.1 Workbench 4.12.0.37.272
21-Sep-21 10:44:30 AM EDT	Changed	admin	Property /Services/FoxService/supportLegacyClients changed from 'Default: Yes (may change in future version)' to 'No [Recommended]
21-Sep-21 10:45:42 AM EDT	Changed	admin	Property /Services/WebService/hostHeaderValidationSettings.validateHostHeader changed from 'false' to 'true'

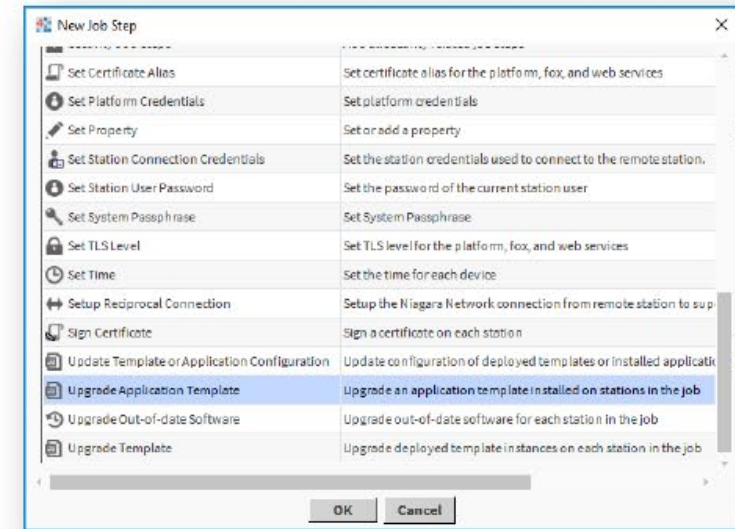
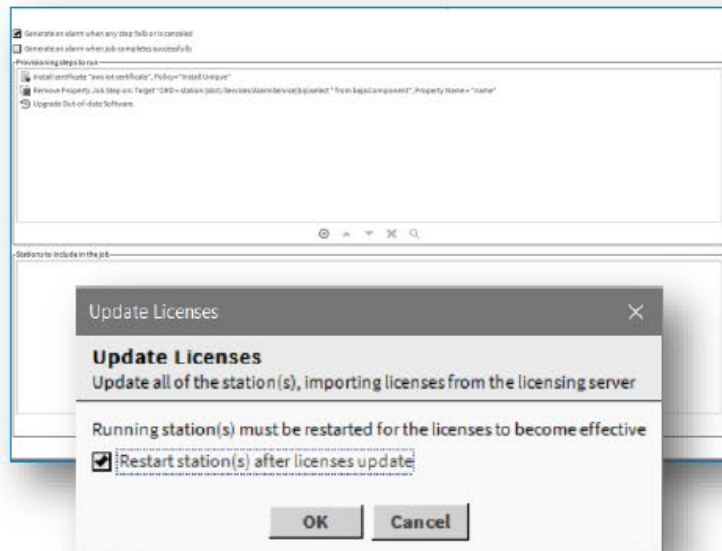


Verification Mode	Description
Low	Modules that are unsigned, untrusted, or have expired certificates will cause warnings but still function. Error if signed module modified after it was signed. Can be increased to Medium or High.
Medium	All modules must be signed by valid, trusted certificate (may be self-signed). Can be decreased to Low or increased to High.
High	All modules must be signed with CA Certificate. Can be decreased to Medium.

Facilitating Niagara at the Edge

Reduce time spent installing, commissioning, and configuring multiple Niagara devices with application templates and provisioning.

- Enhanced Layout – Combined Network & Device Job Step Windows
- New Provisioning Job Steps – Remove Platform User, Set Platform User & Remove Property
- Upgrade License Job Step now allows users to Defer Reboot for Later



History Character Limit Expansion

Giving you back the flexibility you deserve!

In previous versions of the Niagara Framework, the character limit on history names was 44. Now in Niagara 4.12, the limit has been expanded to 200 characters.

- Conform with any Point Naming Convention
- Removes the need for cryptic point naming
- Quickly Locate Niagara Histories



Supported Infrastructure

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

Supported Operating Systems

Windows	Linux	Virtual Machine	Mobile
Windows 10 64-bit Professional / Enterprise	Red Hat Enterprise Linux 7.x 64-bit	VMWare ESXi6.7	iOS 12
<u>Windows 11</u>	RedHat Enterprise Linux 8.x 64-bit		iOS 13
Windows Server 2016	Ubuntu Desktop & Server 20.04 LTS		Android 8 (Oreo)
Windows Server 2019			Android 9 (Pie)
			Android 10 (Queen Cake)

Supported Databases

SQL Database	Niagara SystemDB
MySQL Server 8.0 (mysql-connector-java-8.0.24)	Orient v3
MS SQL Server 2016 (v13)	
MS SQL Server 2017 (v14)	
MS SQL Server 2019 (v15)	
Oracle 12c.1/2	
Oracle 18c	
Oracle 19c LTS	

Supported Browsers

Browser	Mobile Browser
Chrome (v85)	Safari on iOS (v13.1)
Firefox (v81)	Chrome on Android (v85)
Microsoft Edge (v85)	
Web Launcher	

Niagara 4.12 Hidden Gems

A Collection of Smaller Features with each release that provides specific ongoing value for Niagara stations, applications, services and/or end-users



Visualization

- HTML5 ColorEditor
- PX Transform Pane –Mirror, Flip & Rotate
- HTML5 GridTableExport



Tagging

- New Version Property on All Dictionaries
- Ad-Hoc Enum Range Support



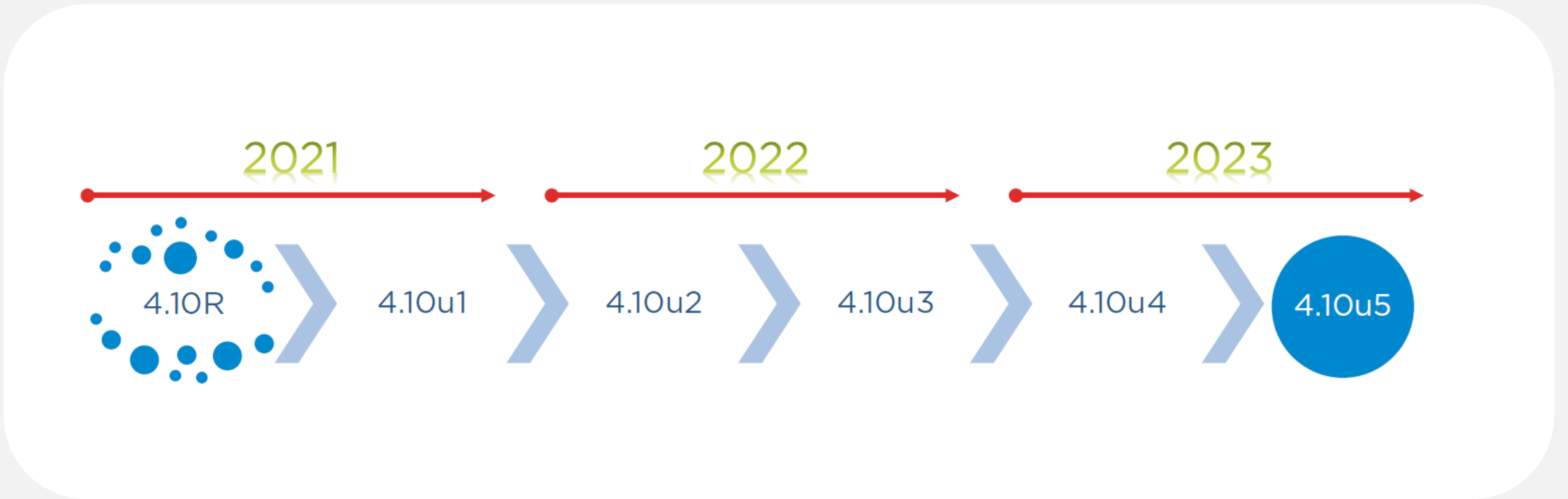
Connectivity

- kitControl Reset Component

Niagara 4.10U3

Overview







Support

Updates & Defect Fixes through Q4 2023



Stability

Targets Application Developers & Enterprises



Functionality

Powerful Feature Set

Niagara 4.12 and 4.10U3 for MAC36NL

Thank You
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