

## Niagara 4.13



**Paweł Szarmański** Solution Product Manager

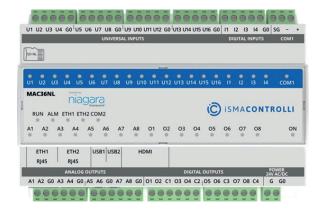


#### **Continuous Update process**





- Powered by Niagara N4 Framework
- Supported versions of Niagara N4.4 N4.6, N4.7, 4.8, 4.9, 4.10(LTS), **4.11, 4.12, 4.13**
- Now supports N4.13U2

















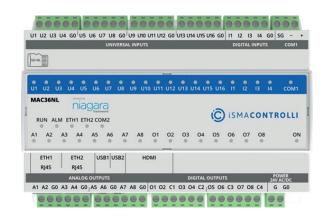


#### MAC36NL

**BACnet Revision 15 compliance** 

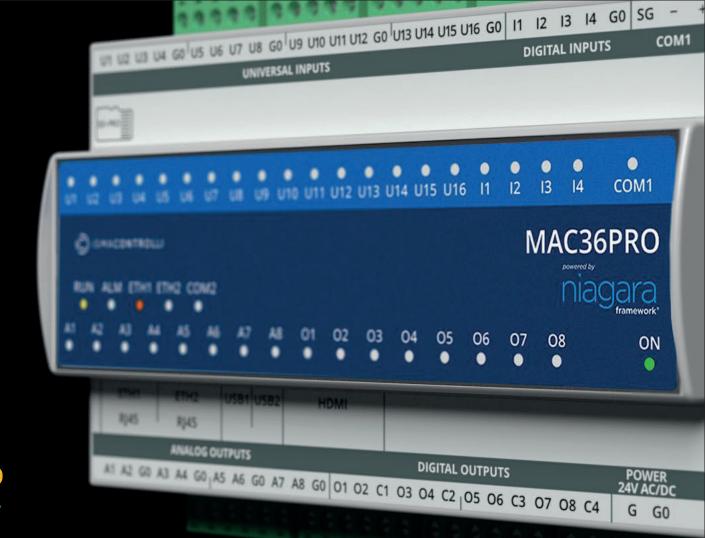








Based on Niagara 4.12U2



MAC36PRO Performance. Redefined.

#### MAC36PRO

Licensing



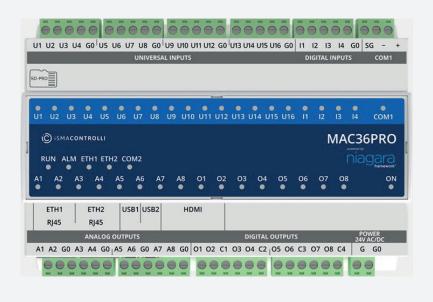
MAC36NL	Point limit
iSMA-B-MAC-L-50	50
iSMA-B-MAC-L-100	100
iSMA-B-MAC-L-250	250
iSMA-B-MAC-L-500	500
iSMA-B-MAC-L-1250	1250

MAC36PRO	Point limit
iC-MAC-L-100	100
iC-MAC-L-250	250
iC-MAC-L-500	500
iC-MAC-L-1250	1250
iC-MAC-L-2500	2500
iC-MAC-L-5000	5000

#### MAC36PRO

#### Currently supported Niagara version



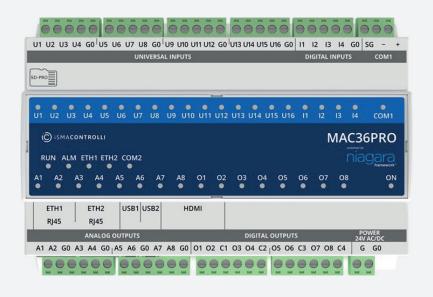




#### **MAC36PRO**

#### ismacontrolli

Niagara Support







iSMA-B-J9

### **KEY FEATURES**

- Quad core iMX8M+ CPU
- Double the amount of RAM.
- 4X the amount of storage
- Ubuntu Core 20 operating system
- · Wireless and Non-Wireless model
- Refreshed branding clip
- Easy drop-in replacement/upgrade to iSMA-B-J8
- Supports all existing expansion modules (+remote IO)
- All connectors in same location and same orientation

## **ROADMAP OBJECTIVES**

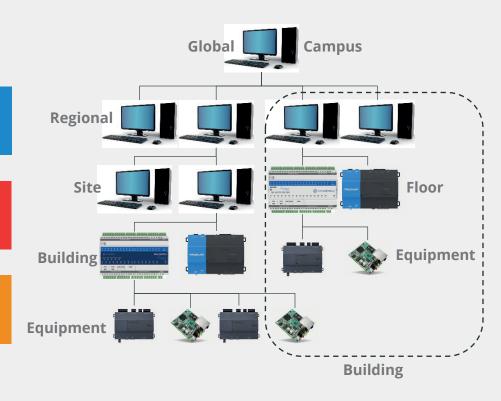
- Remote device management
- Edge computing platform
- Mobile management UI
- Machine learning capabilities (NPU)

## NEW NIAGARA 4.13 DEPLOYMENT FEATURES



## **MULTI-TIERED SYSTEM DB**

- Niagara System Architecture Flexes to Any Layout
- Query Entire Niagara System From A Single Database Location
- Expedite UI Configuration Through Hierarchies and Virtual Px Views



## **MULTI-TIERED SYSTEM DB**

Expanded the functionality and benefits of Niagara's System Database and Indexing to support vast architecture layouts with:

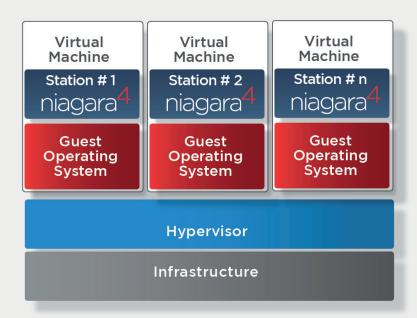


Niagara's System Database and Indexing establishes an entity data model to enable querying of the entire Niagara system from a single location

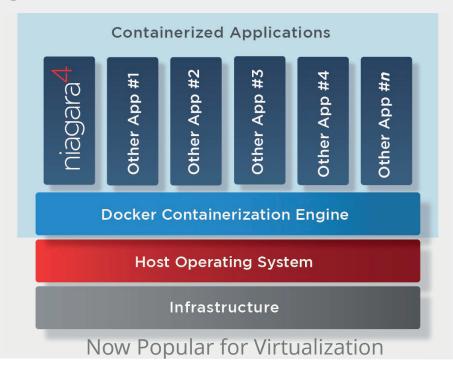
**Design more intuitively. Design more efficiently!** 

## **CONTAINERIZED NIAGARA**

Containers are less resource intensive and more portable than Virtual Machines. Can ease development, deployment and upgrades.



Formerly Popular for Virtualization



### **CONTAINERIZED NIAGARA**

Subscription can be purchased for:

### **ON PREM**

Supervisor deployment on a server device housed locally

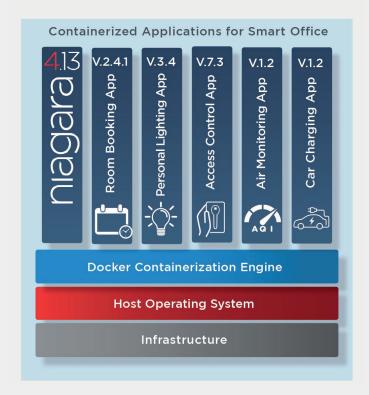
### **CLOUD**

Supervisor deployment in a cloud service

### **PORTABLE**

Embedded deployment whereby a Niagara development partner deploys Niagara containers on its own proprietary or a third-party commercial device or server – 'Containerized Portable Niagara' or CPN

NOTE: A subscription Niagara instance will perform a system exit — that is, it will stop working — if subscription renewal is not paid.



Example deployment of Containerized Niagara on a partner-built mobile hub.

## **SUBSCRIPTION LICENSING**

SaaS Subscriptions: Purchased using OPex rather than CAPex

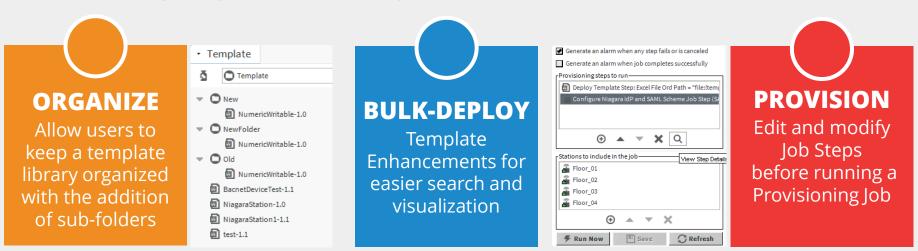
## More purchasing flexibility!



NOTE: A subscription Niagara instance will perform a system exit—that is, it will stop working—if subscription renewal is not paid.

## EDGE TEMPLATE AND DEPLOYMENT TOOLS UPGRADES

Reducing time spent installing, commissioning and configuring multiple Niagara devices using Niagara Provisioning

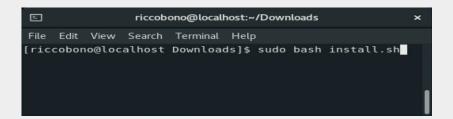


**Key enhancements for NIAGARA-at-the-EDGE deployments!** 

## SILENT INSTALL

## **UNATTENDED INSTALLER**

Enabling *Silent Install* allows for automated installation of Niagara Framework via programming. This streamlines PC maintenance, automated testing, and bundling installations with additional applications.





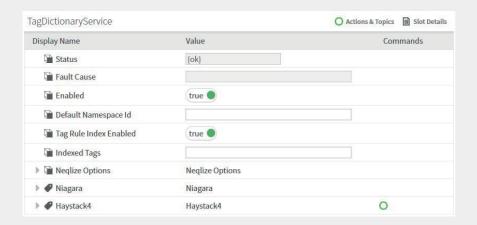


NIAGARA
4.13
INDUSTRY
COMPLIANCE



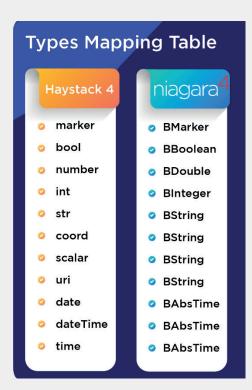
## **HAYSTACK 4 SUPPORT**

Haystack 4 encompasses a taxonomy and an ontology. Evolved to capture machine-readable relationships of things along with their contextual data



### **HAYSTACK DICTIONARY**

Aligns Niagara Tagging with the latest Haystack Tag Dictionary. Updatable in-place and without a module update from Tridium.



### **EASY MIGRATION**

Haystack 4 items equivalent to the Haystack 3 versions are added during migration action.

## SYSLOG INTEGRATION

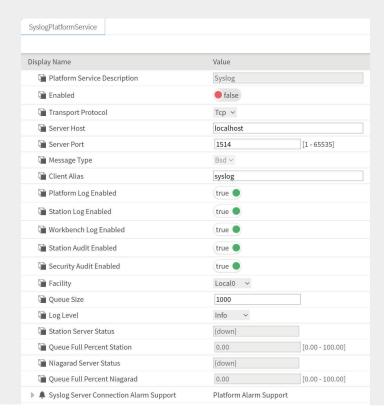


Aligns to the IT standard in message logging



Enables consolidation to a central repository for system management

## Meet IT System Administrator requirements for proper audit logging, monitoring, and detection



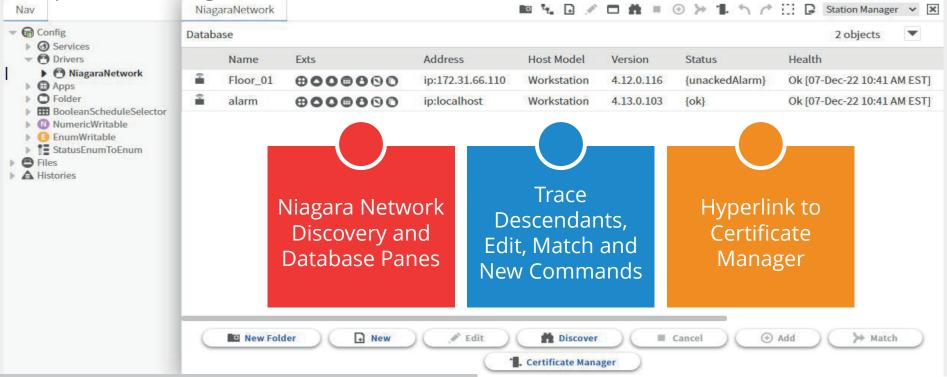
## NIAGARA 4.13 VISUALIZATION



## HTML5 NIAGARA NETWORK STATION MANAGER VIEW

Eliminating a dependency on workbench removes logistical burdens and eliminates the 'module-and-version-dependency' guessing game.

Open a browser, login, and GO!



Simplicity in technology

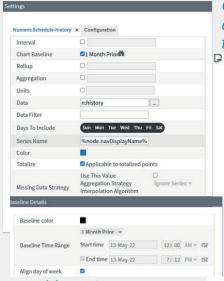
## **NIAGARA ANALYTICS**

Make data-driven decisions by visualizing collected data on an Analytics Web Chart with an established baseline

Custom BASELINING

**EASE-OF-USE** Upgrades

HARDENING Measures



Updated documentation across the product to enable easier application design

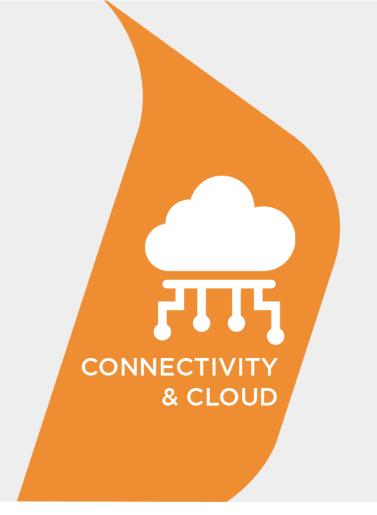
Large collection of general hardening improvements & defect clean-up

Customize a web chart or dashboard by adding an additional time series to represent a baseline to a dataset



Configurable settings such as: node color, time-period, baseline time range, and align day of the week

## NIAGARA 4.13 CONNECTIVITY & CLOUD



### **AUTHENTICATION VIA EMAIL**

Maintain security posture using preferred authentication by major email providers: Microsoft (365/Exchange) and Gmail



Used to send out reports, charts and alarms from a station through the smtp transport



Used to receive alarm acknowledgements to a station through the pop3 or imap transport



OAuth2, Client Credential Flow authentication for unattended email integration



Security
Dashboard Card
to monitor email
service security
best practices







## **VIDEO DRIVER FRAMEWORK**

Improved how video live streams from industry standard cameras are integrated into Niagara.

HTML5 browser viewing enabled

- Video can now display via Real Time Streaming Protocol (RTSP)
- Added New Px Widgets to natively support Pan, Tilt, Zoom (PTZ) camera functions

### **ENTERPRISE SECURITY UPDATES**

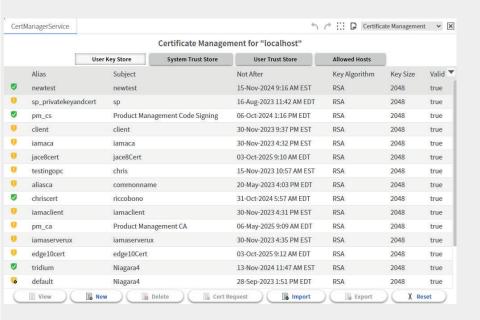
Optimized and streamlined the process of adding a new user to this Niagara-native physical security application

- JOIN Process: Auto-Grouping; Auto-filling of Parameters; Optimized User Sync Manager
- REPLICATION Process: Enhanced logging; job summary now displays
- More feedback to the user when checking status of workflow and debugging

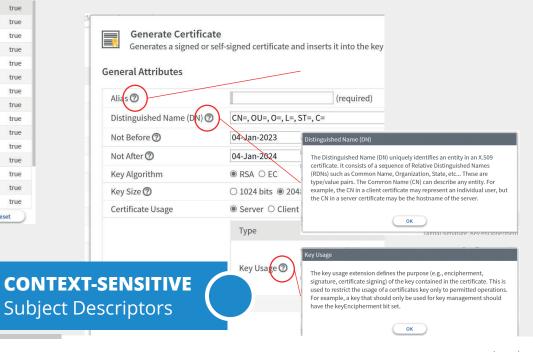
## NIAGARA 4.13 CYBERSECURITY



# CERTIFICATE MANAGEMENT SIMPLIFIED



Browser (HTML5 View) access without need for Workbench; useful to IT network admin persona



Simplicity in technology

## **CERTIFICATE MANAGEMENT & HTML5 VIEW**

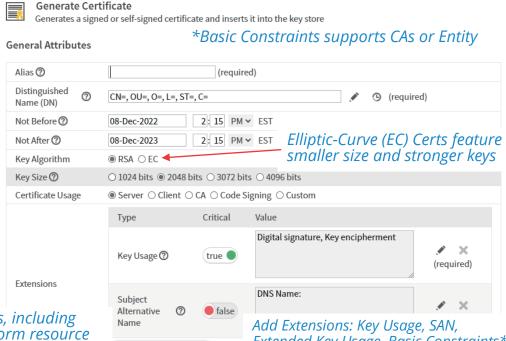
Enhanced UI aids in the setup & configuration of certificates; similar to Security

Dashboard









SAN: Supports a variety of identity types, including email, DNS name, directory name, uniform resource identifier (URI), IP address, registered ID

Extended Key Usage, Basic Constraints\*,
CRL Distribution Points

Simplicity in technology www.ic.tech

Add Extension

## **UPDATED OS & ENTERPRISE APPLICATIONS**

Support Added for:





Thank you!

