



NF  
25

CONNECTING  
THE WORLD

# NEW PRODUCT RELEASES UPDATE



**STEPHEN HOLICKY**  
Chief Product Officer  
Tridium

# AGENDA

**1**

**Features  
Summary**

**2**

**Deployment  
Ease/  
Flexibility**

**3**

**Connectivity**

**4**

**Niagara  
Cloud**

**5**

**Niagara  
Hardware**

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# niagara 4.15

## ALWAYS EVOLVING ACROSS FIVE DIMENSIONS

### DEPLOYMENT



- HTML5 PX Editor
- HTML5 Relation Sheet
- JACE-9000 WiFi Support
- Access Control Badge Printing

### INTEROPERABILITY



- Driver Updates | Modbus, MBus, nSNMP

### CONNECTIVITY



- Fox over WebSocket
- kitControl Refresh
- OSDP Support

### CYBER DEFENSE



- CAC Authenticator Support (Browser)
- User Login History
- Encrypted Hashed Passwords

### COMPLIANCE



- BACnet Protocol Revision 18 Update
- QNX 7.1 Upgrade for JACE-8000 + Edge-10

An aerial photograph of a tropical beach and resort area. The foreground features a curved stone breakwater extending into the clear, turquoise water. The beach is sandy and lined with numerous lounge chairs and umbrellas. Behind the beach, there is a dense line of lush green trees, and further inland, a residential or resort area with buildings featuring red-tiled roofs. The sky is overcast and grey. The text "DEPLOYMENT EASE/ FLEXIBILITY" is overlaid in large, white, bold, sans-serif font across the center of the image.

# DEPLOYMENT EASE/ FLEXIBILITY

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# MORE HTML5 WEB VIEWS

Engineer Niagara Stations through a web browser client.  
**Save Time!**



# HTML5 PX EDITOR

Create and edit graphics through the browser. UI Design no longer requires Workbench.  
NextGen UI/UX Builder



HTML5  
Graphics Editor

Create and Edit  
Graphic Pages

# HTML5 RELATION MANAGER

Define relationships through the browser. Relationship tagging no longer requires Workbench.

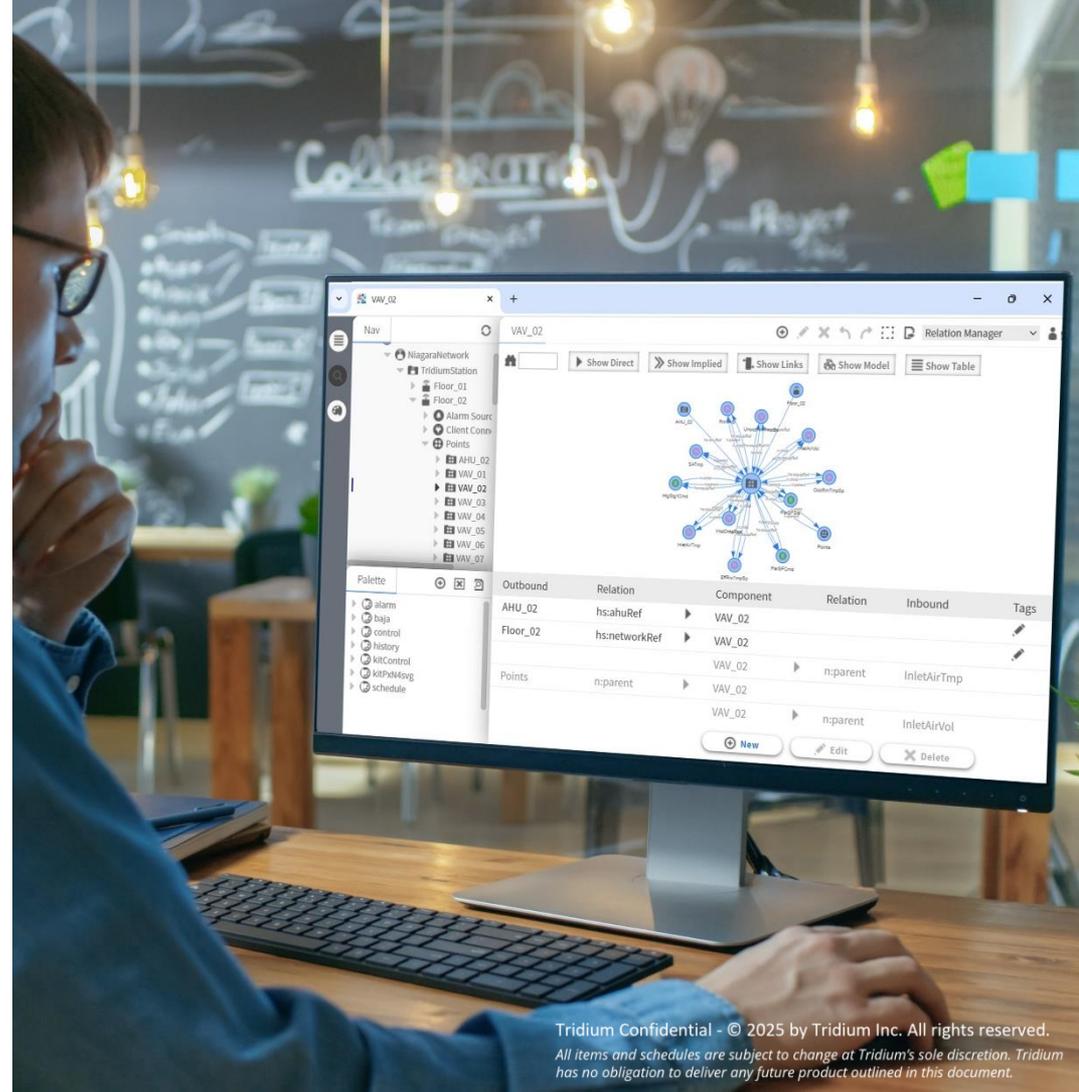
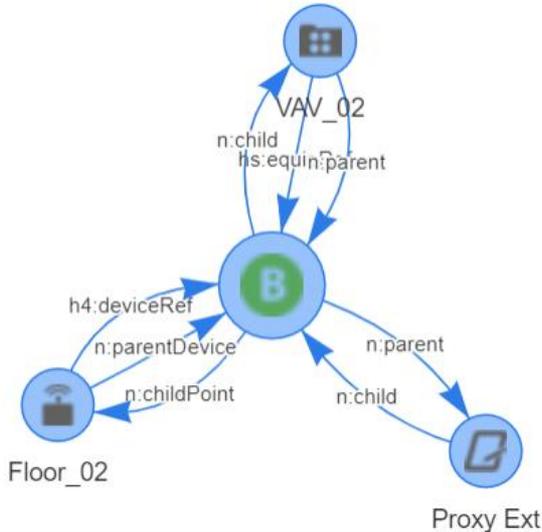


HTML Relation Sheet

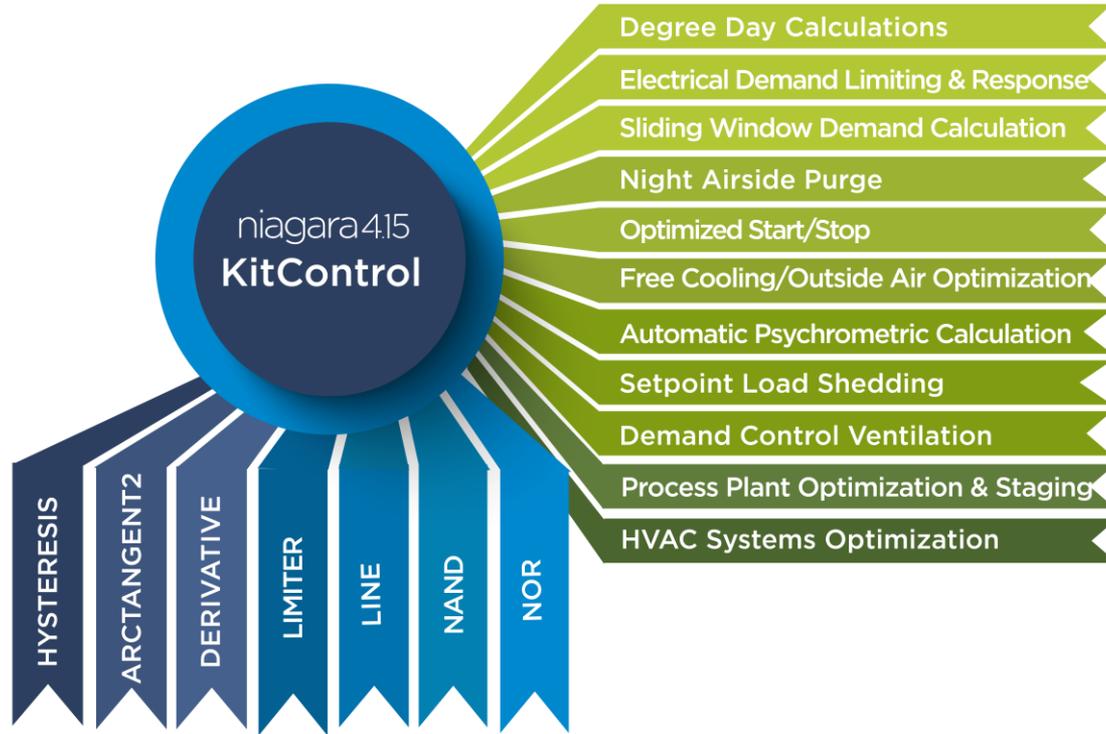
View, create, edit, and delete relations

# HTML5 RELATION MANAGER

Relation Manager Web View enables defining relationships remotely.



# ADDITIONAL KITCONTROL OBJECTS



New ASHRAE 231p CDL Standard Elementary Blocks



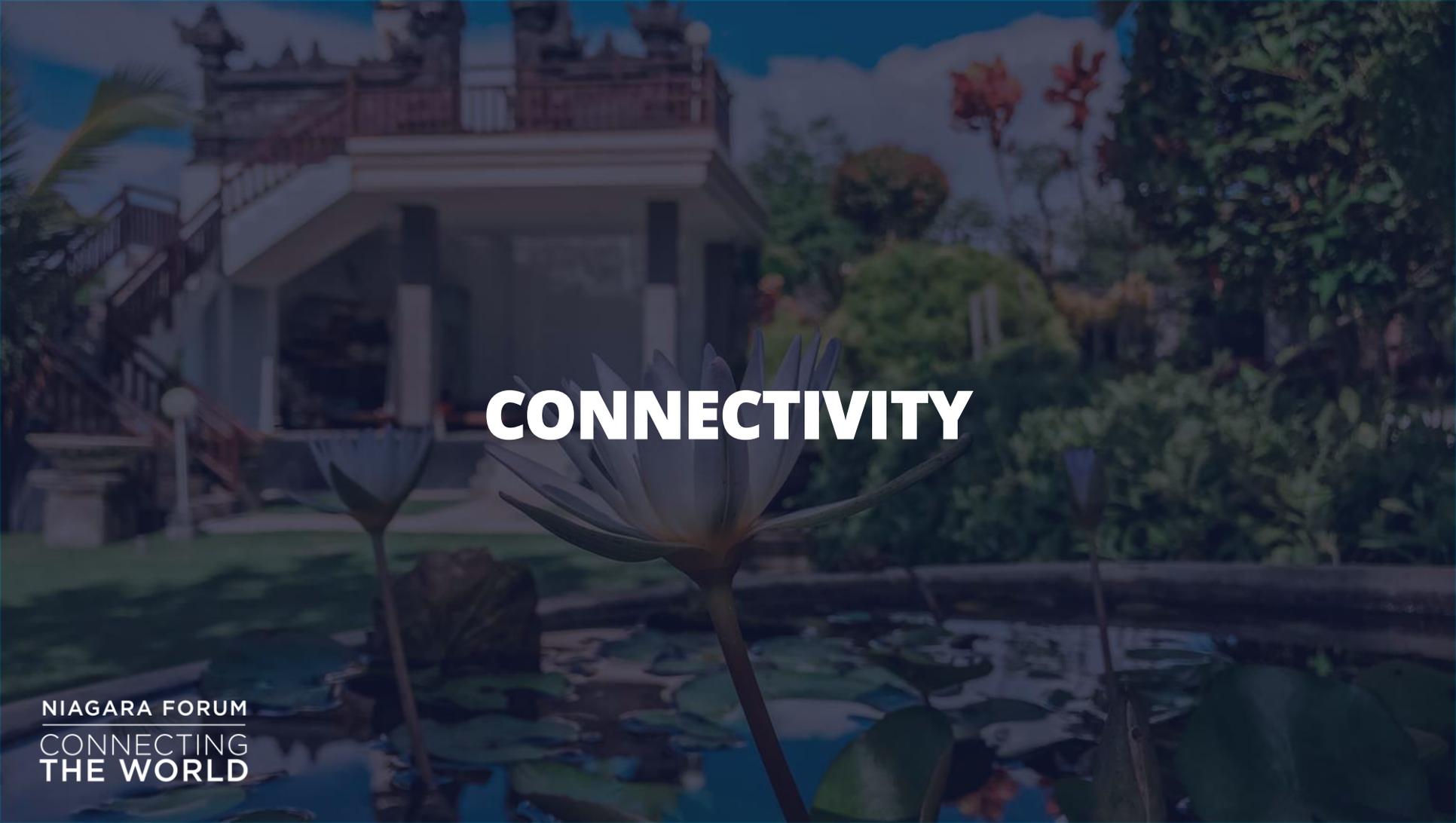
DOE-led Control Design Language (CDL) Initiative



OpenBuildingControl

Aligns with ASHRAE 231p

Goal = a unified CDL for Building Environmental Control Sequences



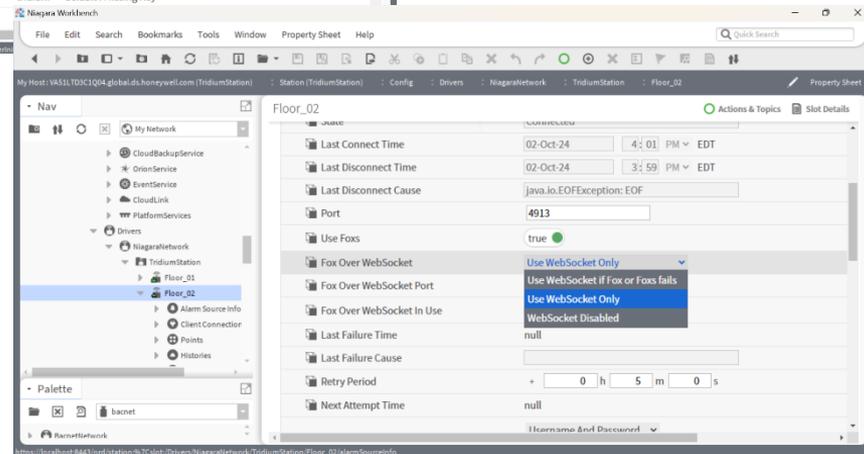
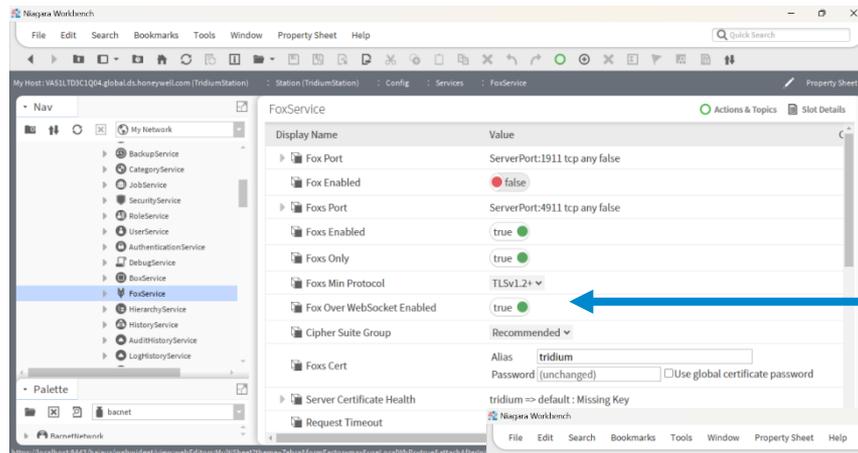
# CONNECTIVITY

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# FOX OVER WEBSOCKET

New Client Connection Property in the Fox Service



Fox over WebSocket is a new option for Station-to-Station connections when Foxs is not available.

For use when IT restricts ports 1911 and 4911.



## MODBUS UPDATE



Ping more than 2 registers at a time when addressing Modbus devices

- Latest Modbus meters have data types that call for addressing 4 registers at a time
- Support for a 48-bit unsigned long data type was added and factored



# OPC-UA UPDATE

- Added bi-Direction point types for OPC UA Server enabling actions on server points
  - One point manages both incoming and outgoing data values (i.e. bi-directional)
- Enhancements to support OPC UA Client Arrays in a nested structure when discovering OPC points

**Integrate more easily with one of the most basic and familiar protocols used in industrial automation.**

Integrate more easily with one of the most basic and familiar protocols used in data centers.

# SNMP UPDATE

- Ability to configure an export type for SNMP export folders.
  - For example, if the user exports as the integer type, the backing SNMP type will also be an integer.
- An "Index Value" column has been added to the SNMP table view. This includes displaying both the OID representation of a row as well as the index of the row in the order of other rows in the table.



ASHRAE Standard 135  
open communication  
protocol of choice for  
field devices



## REVISION 18

Implementing the Revision 18 continues the progress towards the most recent revision and adds additional features requested from BACnet focused markets:

- **Value Source** – view the source device or process of a write or command on BACnet writable points
- **Network Port Object** – allows users to view and configure the BACnet device's network settings through Niagara

B-BC Profile for Jace 9000, & Jace 8000

- with BACnet Secure Connect link layer!

AWS Profile for Supervisors

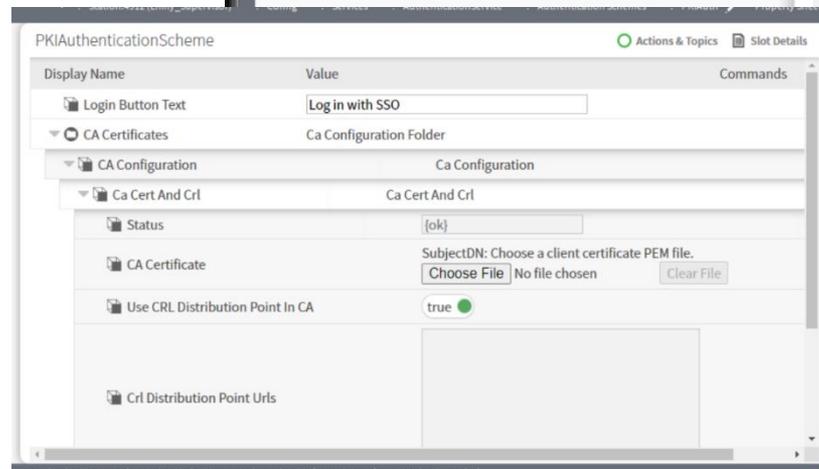
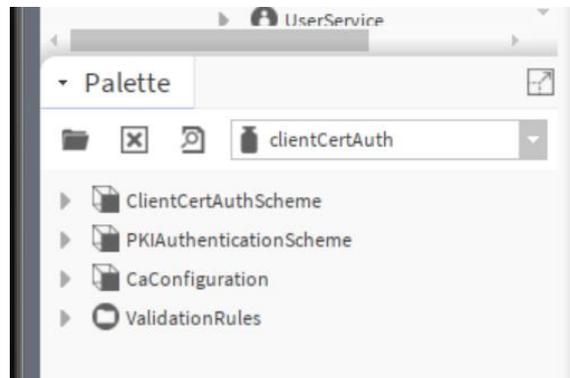


Authenticate  
With Common  
Access Card  
when accessing  
Niagara through  
a browser!

# PKI AUTHENTICATION FOR BROWSER

## New ClientCertAuth Scheme:

Simplifies authentication process for organizations (such as government org's) who utilize PKI-based authentication





# NIAGARA CLOUD

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# NEW HTML5 WEB VIEWS



+



=



*A Significant Step-Up in*



**DEPLOYMENT EASE**



**DATA MANAGEMENT & VISUALIZATION**



**INTEROPERABILITY & CONNECTIVITY**



## DO MORE REMOTELY!

4.15's new HTML5 Web Views expand what can be done remotely through a browser, strengthening the value proposition of a Niagara Remote subscription.

- Troubleshoot a Niagara deployment
- Do regular engineering and maintenance work
- Check the status of Niagara stations across a Niagara-based network
- Design/edit Graphics and UI
- Do regular engineering and maintenance work

No additional hardware, gateways or VPNs needed!

Payback measured in fewer truck rolls!

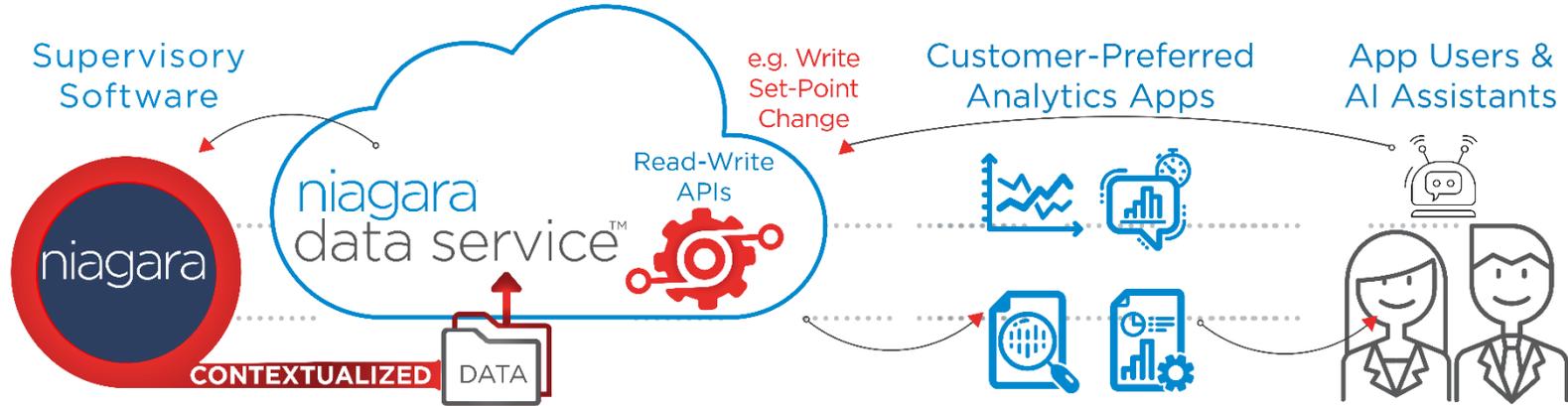
**Any Tech, Any Station, Anywhere...**

niagara  
remote™



# NIAGARA CLOUD

## INTERACTIVE REALTIME DATA



### Instant Data Access via Read-Write API:

- Retrieve live data on-demand

### Dynamic updates:

- Push changes directly to your Niagara system, eliminating delays and manual updates.

# ALARMS MANAGEMENT API

## QUERY ALARMS DATABASE

### Alarms Service API 1.0 OAS 3.0

[/api/v1/alarms/v3/api-docs](#)

Servers

Authorize

#### alarm-history-controller

POST `/customers/{customerId}/alarms:search` Query alarms by customerId.

#### alarm-state-controller

GET `/customers/{customerId}/devices/{deviceUuid}/alarms/state` Query alarm states by customerId, deviceUuid and, optionally, sourceId

GET `/customers/{customerId}/devices/{deviceUuid}/alarms/count` Query alarm counts by customerId, deviceUuid and, optionally, sourceId

**ALARM HISTORIES:** Provides access to all the alarm records uploaded to the cloud, including those that may no longer exist on the originating stations due to the limited space on a device.

**ALARM STATES:** Displays the last reported alarm record values for each individual alarm source.

**ALARM COUNTS:** Reports the number of alarm records, grouped by acknowledgment state (acked, unacked, ack pending) that the device reported last.

# ALARMS MANAGEMENT USER INTERFACE

## ALARMS BY DEVICE

DEVICES						Search
Device	Host ID	Project	Location	Services		
VM_DeviceOne	Win-545E-2B92-FEF8...	New project	Richmond	    		
VM_Device_Alarm	Win-545E-2B92-FEF8...	New project	Richmond	    		
va51j9	Tst-EDDD-740B-4639...	Project 1	Richmond	    		

- Detailed alarm information
- Alarm notes
- Export device alarm information
- Filter alarms

## VIEW ALL ALARMS

Service Accounts		ALARMS							
Services	Search	Filters: Duration : Today	Priority	Device	Source	Status	Timestamp	Alarm Class	Ack Sta
    			<input type="checkbox"/> LOW	va51j9	EnumWritable	Fault	25 Jul 2024, 7:21 PM	defaultAlarmClass	unacked
			<input type="checkbox"/> LOW	va51j9	EnumWritable	Fault	25 Jul 2024, 7:09 PM	defaultAlarmClass	unacked
			<input type="checkbox"/> LOW	va51j9	EnumWritable	Fault	25 Jul 2024, 6:56 PM	defaultAlarmClass	unacked

An aerial photograph of a tropical coastal town. The foreground shows a sandy beach with a curved stone breakwater extending into the turquoise water. A small boat is visible near the breakwater. The middle ground is filled with lush green trees and buildings with red-tiled roofs. The background shows a larger town and a distant horizon under a clear sky. The text 'NIAGARA HARDWARE' is overlaid in large, white, bold, sans-serif font across the center of the image.

# NIAGARA HARDWARE

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# JACE 9000 WiFi

## niagara4.15

- Supports WiFi 5 (802.11ac) on JACE 9000
- Supports IEEE 802.11a/b/g/n/ac networks
- 4.15.0.130 will be the Factory image



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# JACE 9000 WiFi Specs

JACE 8000	JACE 9000
WiFi 4 (802.11n)	WiFi 5 (802.11ac)
1x1 802.11 a/b/g/n	1x1 802.11 a/b/g/n/ac
Off, Access Point (WAP), Client Hardware Switch	Off, Access Point (WAP), or Client <b>Software Switch</b>
WPAPSK / WPA2PSK supported	WPAPSK / WPA2PSK supported
	Bluetooth (Not Supported Yet) Bluetooth 5.2 LE
WiFi Disabled at Factory	Separate Hardware SKU (unbundled)

# ACCESS CONTROL TRANSFORMS WITH NIAGARA 4.15

niagara  
Enterprise Security



niagara  
access™



# ACCESS CONTROL UPDATE

niagara

## access™ is now in beta!

- Niagara Access™ is a powerful access control solution supporting the latest innovations in physical security and access control.
  - *New access control solution for Niagara*
- 4.15 Adds Native Badge Design
  - Users can now create card templates in Workbench, take or import photos, and print customized badges from Niagara Access™ Supervisor with browser access.

**Your unified platform to integrate access control with BMS!**

# NIAGARA ACCESS™

- Built on an open framework
- Supports **integration** with multiple 3<sup>rd</sup> party Open Supervised Device Protocol (**OSDP-verified**) access control hardware
- **TCP/IP smart controllers** with multiple options (1 door, 2 doors, 4 doors)
- 12 VDC
- POE
- Connectivity
  - Ethernet
  - Wi-Fi
- Support **OSDP & Weigand Protocols**
- Support Multi-class readers
- **Native badge design**



Armatura  
Global Solutions



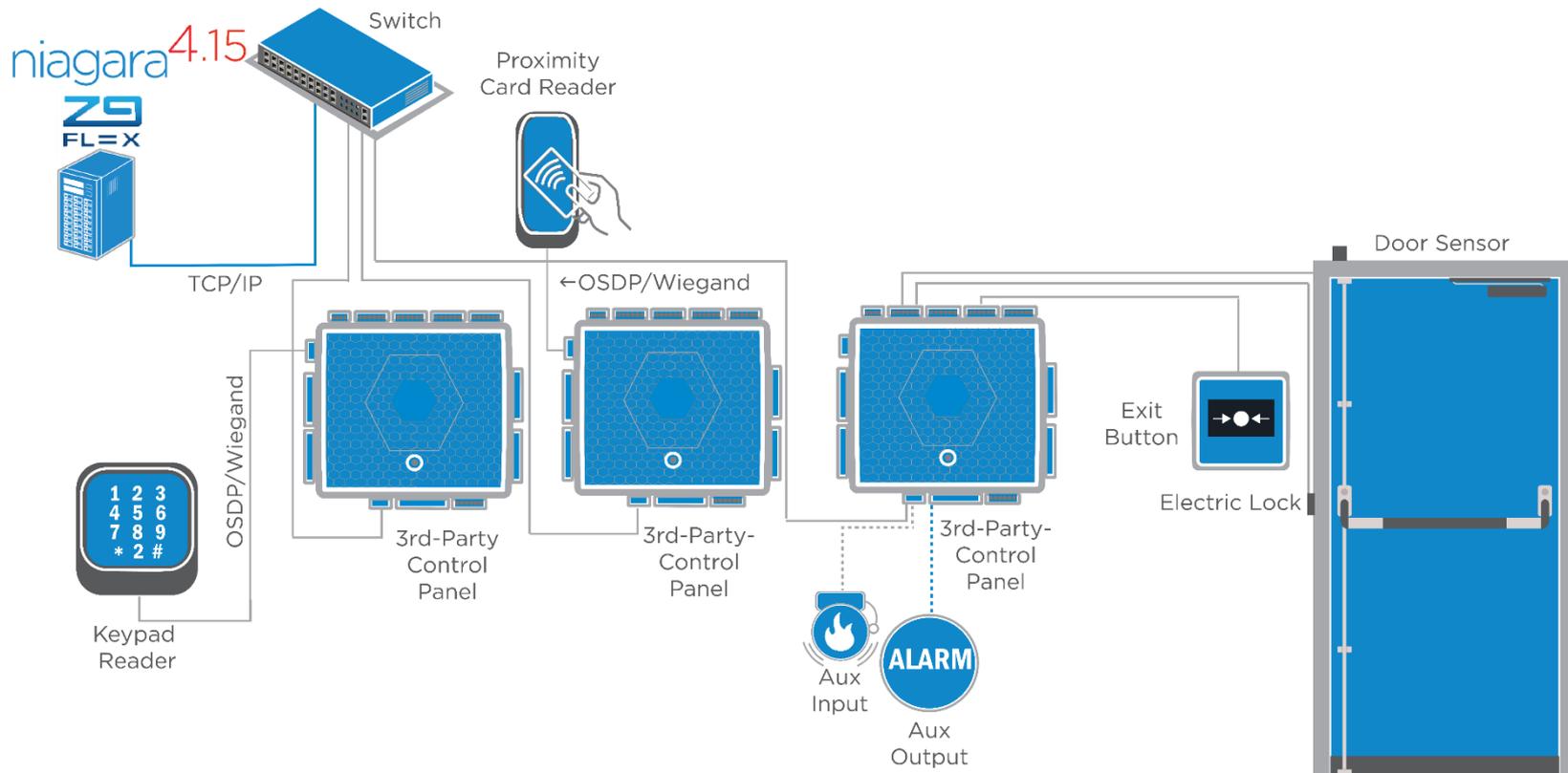
**AZURE**  
Access Technology™



...and many more  
Hardware Options.  
Learn more in the  
Connectivity Section  
of this presentation.



# EXAMPLE NETWORK ARCHITECTURE





**THANK YOU!**

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