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niagara 4.15

FEATURES OVERVIEW

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AGENDA

01 Niagara 4.15 Overview

02 Deployment

03 Interoperability

04 Connectivity

05 Cyber Defense

06 Compliance

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ALWAYS EVOLVING ACROSS FIVE DIMENSIONS

DEPLOYMENT

- HTML5 Px Editor
- HTML5 Relation Manager
- JACE-9000 WiFi Support
- Access Control Badge Printing

INTEROPERABILITY

- Driver Updates | Modbus, Mbus, OPC-UA, SNMP, BACnet

CONNECTIVITY

- Fox over WebSocket
- kitControl Refresh
- Niagara Access

CYBER DEFENSE

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

COMPLIANCE

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

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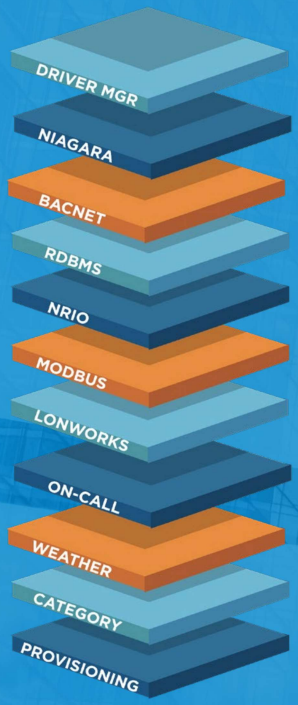
NEW HTML5 WEB VIEWS



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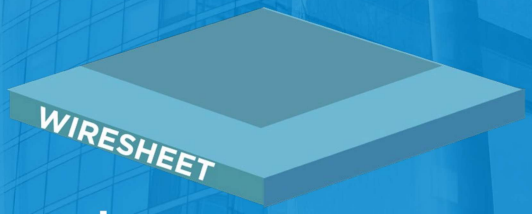

niagara 4.15

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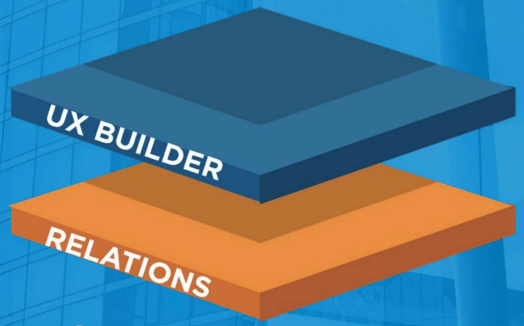

niagara remote™

=

A Significant Step-Up in

DEPLOYMENT EASE

DATA MANAGEMENT & VISUALIZATION

INTEROPERABILITY & CONNECTIVITY

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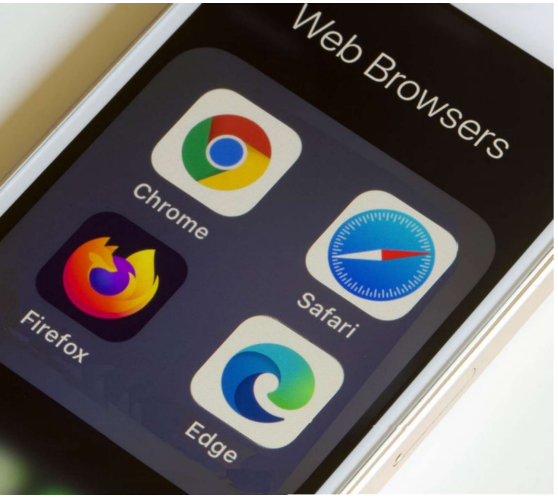
niagara cloud SUITE™

niagara remote™



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!

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Any *Tech*, Any Station, Anywhere...
niagara
remote™
No Added
GATEWAY
No VPN

DEPLOYMENT EASE/ FLEXIBILITY

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MORE HTML5 WEB VIEWS

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

Brand Agnostic

Client Version Agnostic

Connect via IT-Friendly HTTPS

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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

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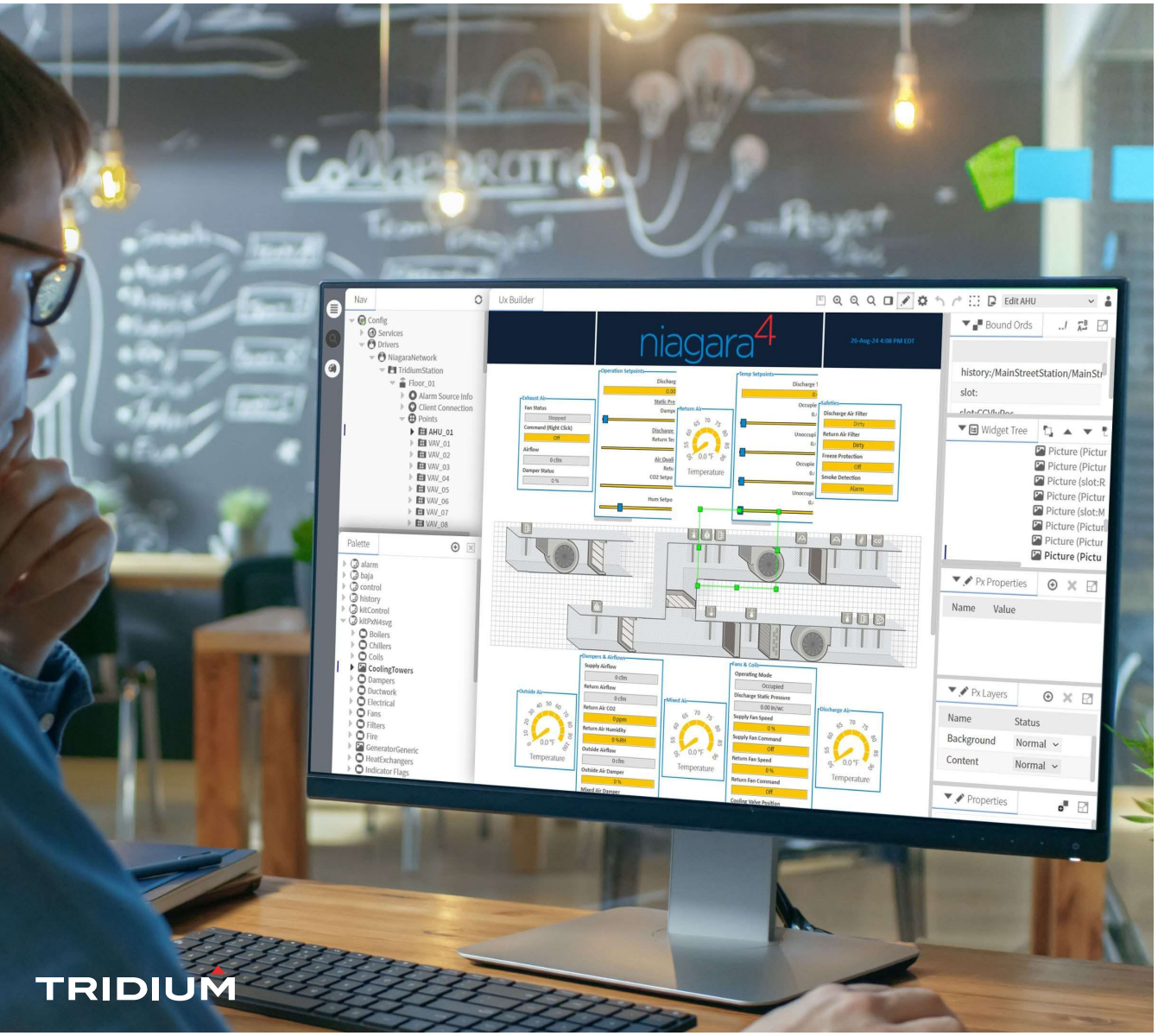

HTML5 PX EDITOR

Enables editing graphics and designing custom GUIs remotely.

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HTML5 RELATION MANAGER

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

HTML Relation Sheet

View, create, edit, and delete relations

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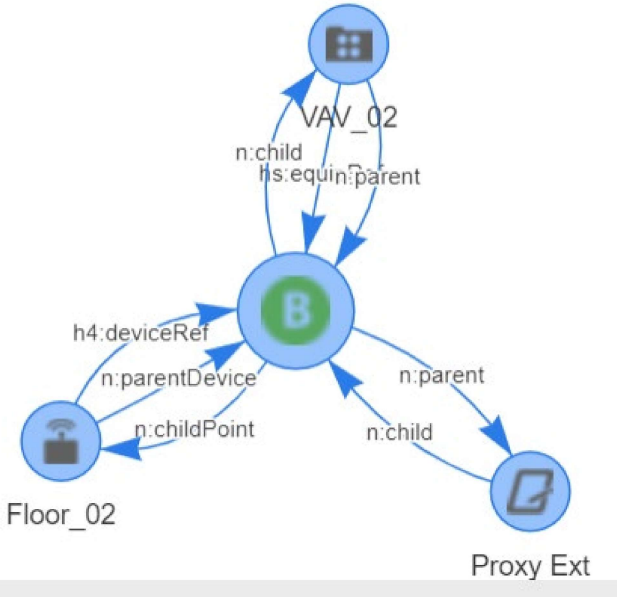
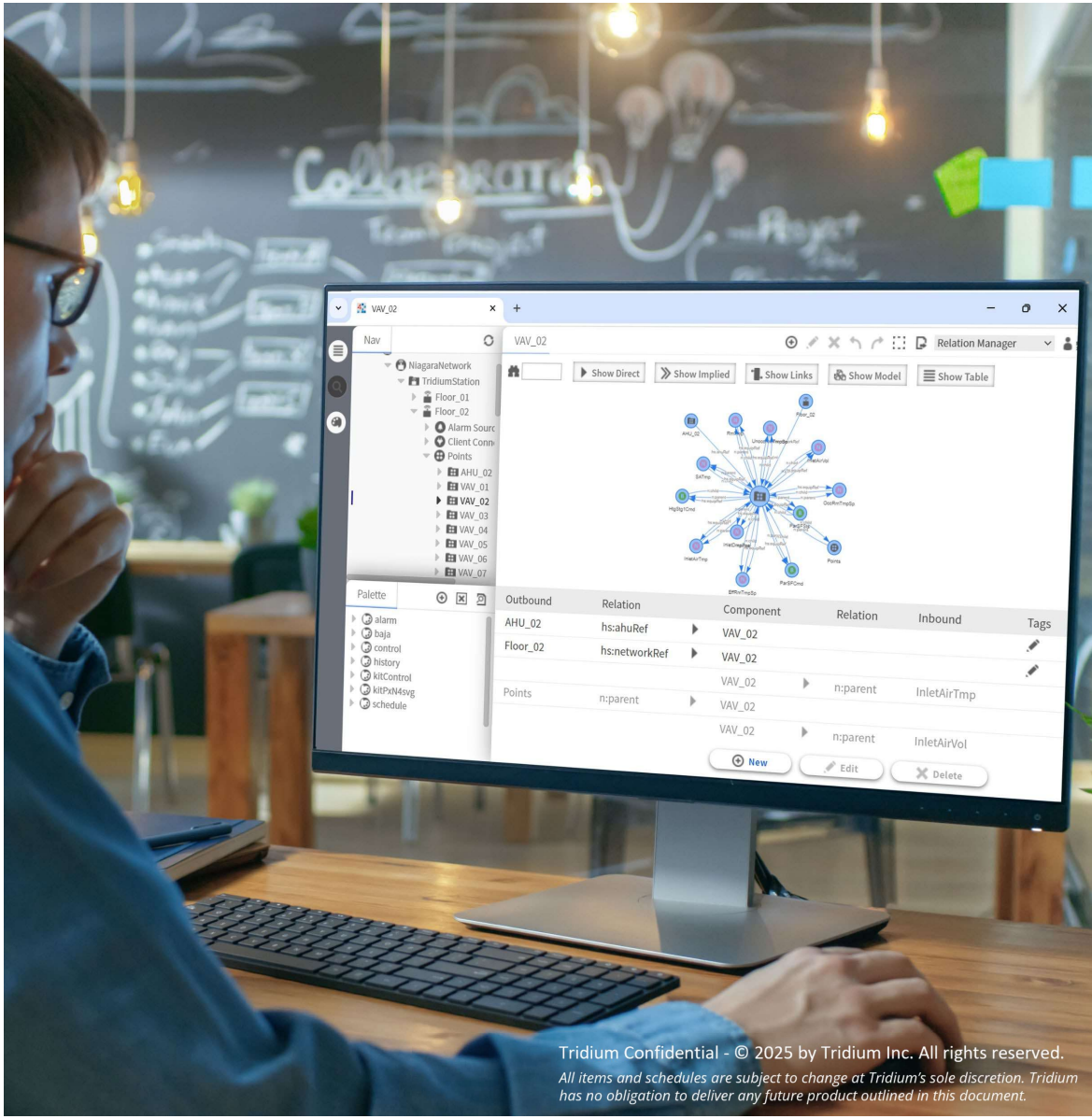
HTML5 RELATION MANAGER

Relation Manager Web View enables defining relationships remotely.





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JACE-9000 WIFI SUPPORT

Now You Can Order
WiFi-Enabled
JACE 9000!

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JACE 9000 WiFi

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- Supports WiFi 5 (802.11ac)
- Supports IEEE 802.11a/b/g/n/ac networks

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ACCESS CONTROL TRANSFORMS WITH NIAGARA 4.15

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Your unified platform to integrate access control with BMS!

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.

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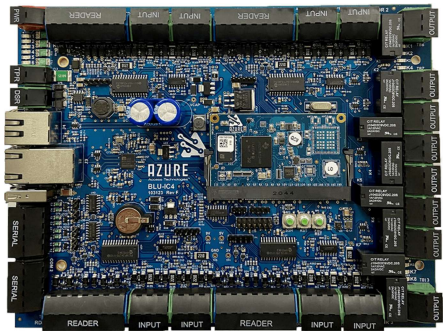
NIAGARA ACCESS™

- Built on an open framework
- Supports integration with multiple 3rd 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



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

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INTEROPERABILITY ENHANCEMENTS

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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

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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.

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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.

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ASHRAE Standard 135 open communication protocol of choice for field devices

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BACNET REVISION 18

BACnet International

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

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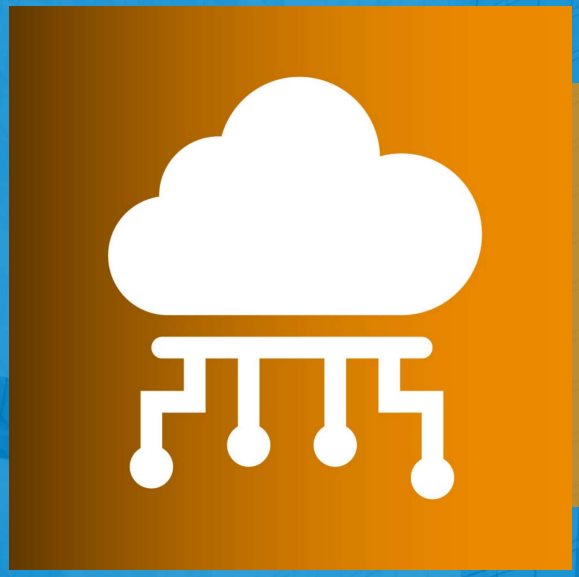

CONNECTIVITY ENHANCEMENTS AND UPDATES

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Niagara Access™ is built on an open framework by Z9 Security. Integrates with multiple OSDP-verified access control vendors.

OSDP™

niagara access™ will support:

- OSDP & Wiegand Protocols
- Multi-class card readers
- Multiple TCP/IP smart controllers with PoE, Onboard-IO, Wi-Fi and Ethernet connectivity

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The **Open Supervised Device Protocol (OSDP)** is an access control communication standard further developed by the **Security Industry Association (SIA)** to facilitate secure communication between access control systems.

In 2008, the **Open Supervised Device Protocol (OSDP)** access control communications standard was created to improve interoperability among access control and security products and donated to the **Security Industry Association (SIA)**, a not-for-profit trade organization.

In May 2020, OSDP was approved as an international standard by the **International Electrotechnical Commission (IEC 60839-11-5).** In December of the same year, SIA OSDP v2.2 was released based on the IEC 60839-11-5 standard. SIA continues to refine and update the standard to maintain maximum flexibility and to keep ahead of evolving security threats.

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OSDP MANUFACTURERS

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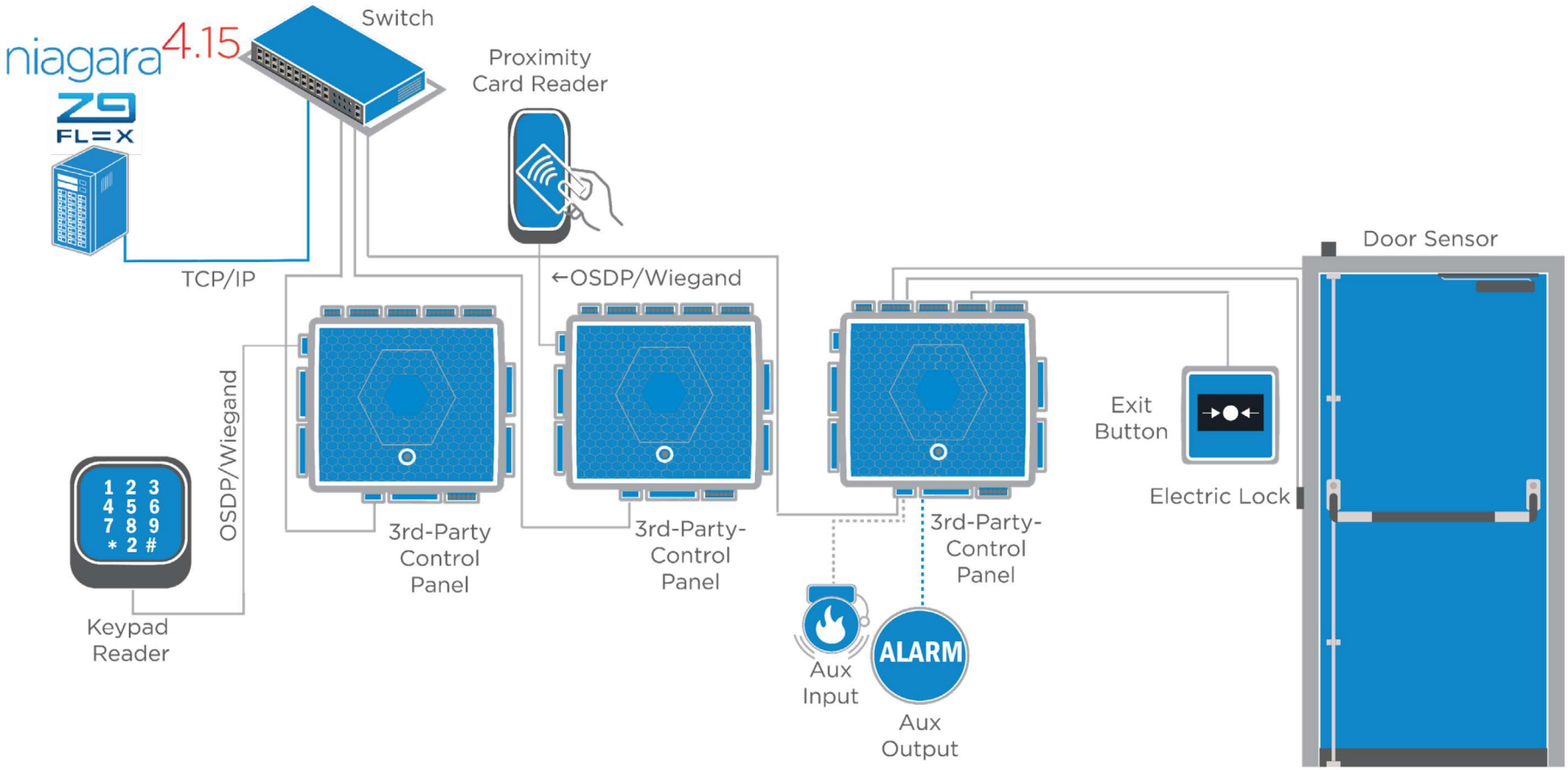
EXAMPLE NETWORK ARCHITECTURE



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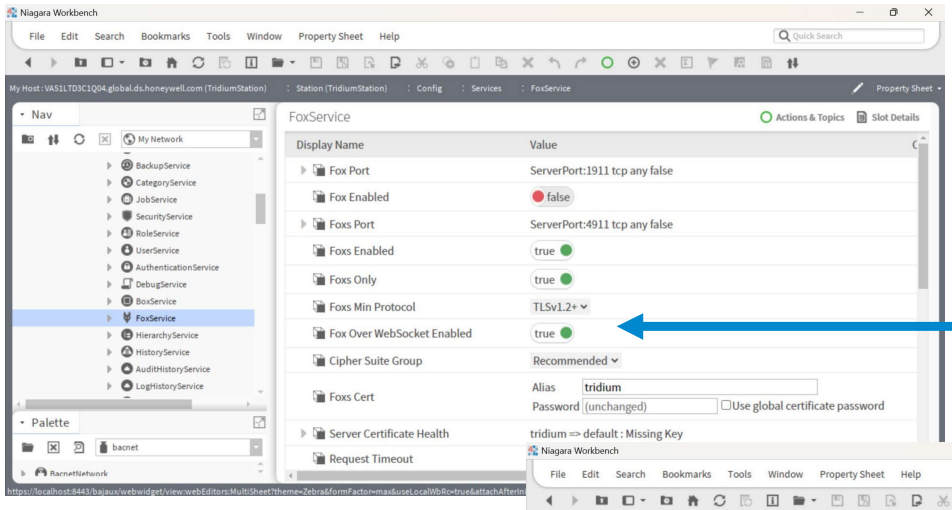
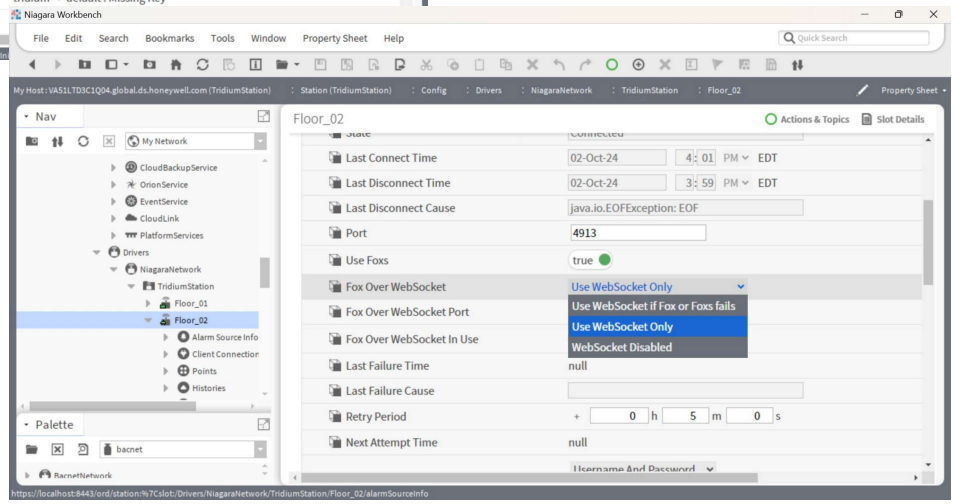
FOX OVER WEBSOCKET

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



New Client Connection Property in the Fox Service



For use when IT restricts ports 1911 and 4911.

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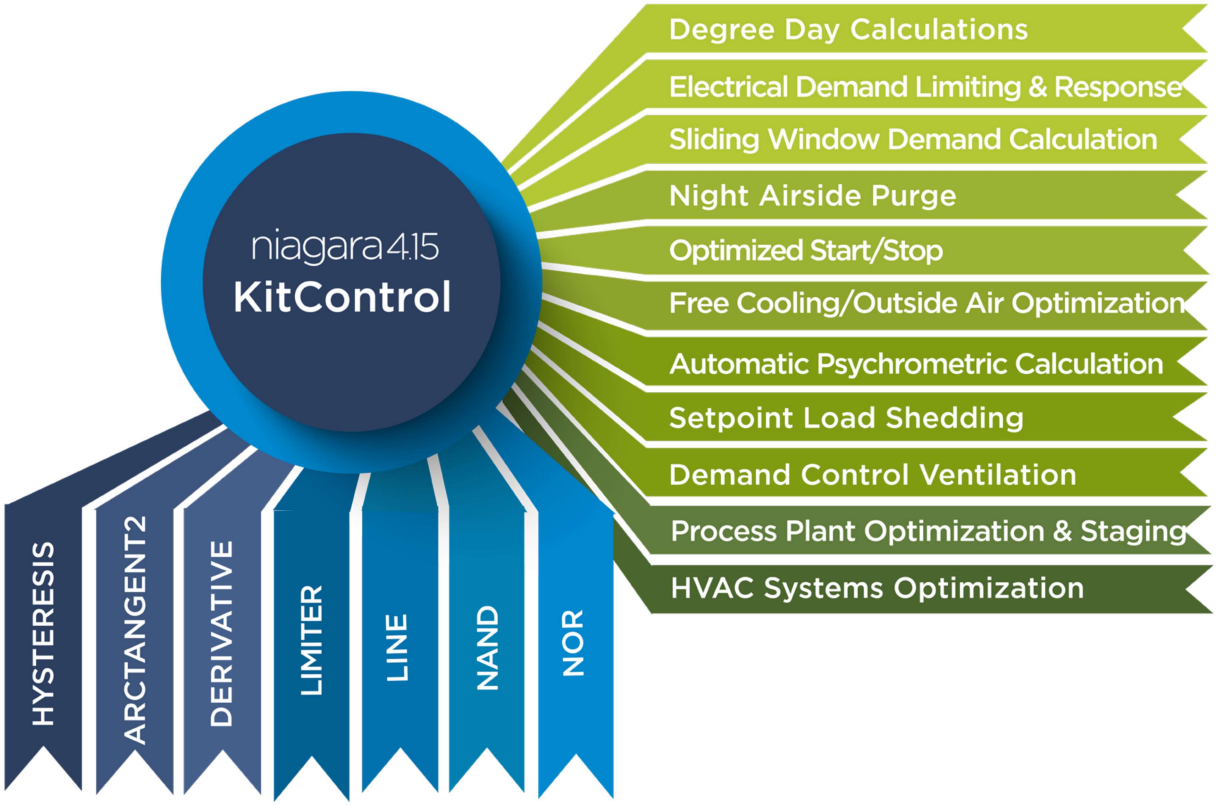
ADDITIONAL KITCONTROL OBJECTS



New AHSRAE 231p CDL Standard Elementary Blocks

DOE-led Control Design Language (CDL) Initiative

OpenBuildingControl

U.S. DEPARTMENT OF ENERGY
Office of Energy Efficiency & Renewable Energy

Aligns with ASHRAE 231p

Goal = a unified CDL for Building Environmental Control Sequences

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CYBER DEFENCE UPGRADES

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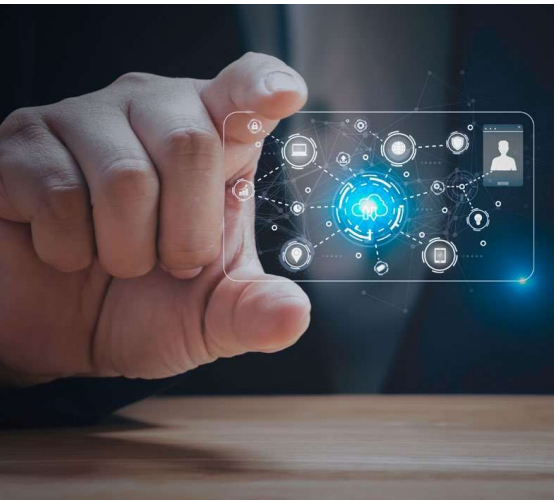
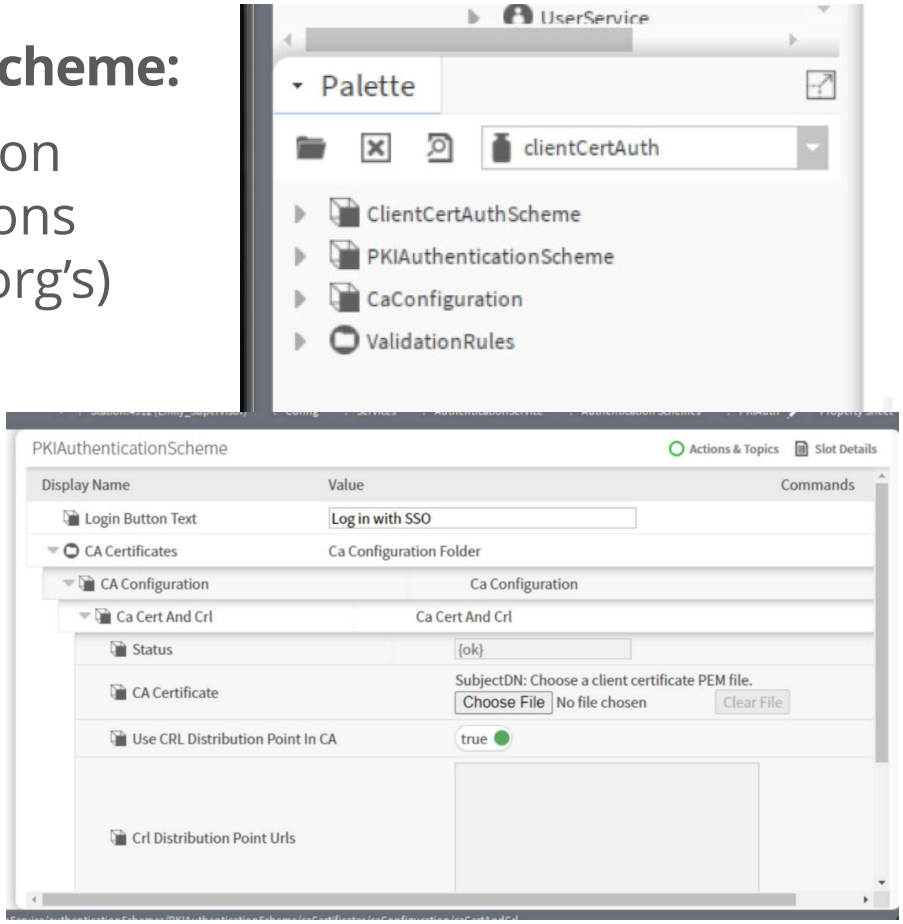
PKI AUTHENTICATION FOR BROWSER

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



New ClientCertAuth Scheme:

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



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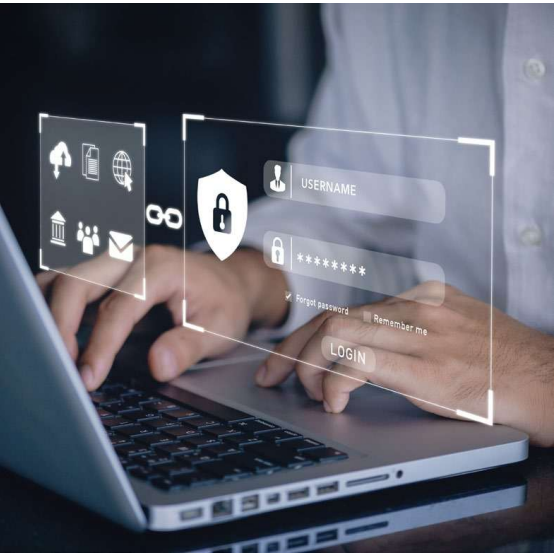
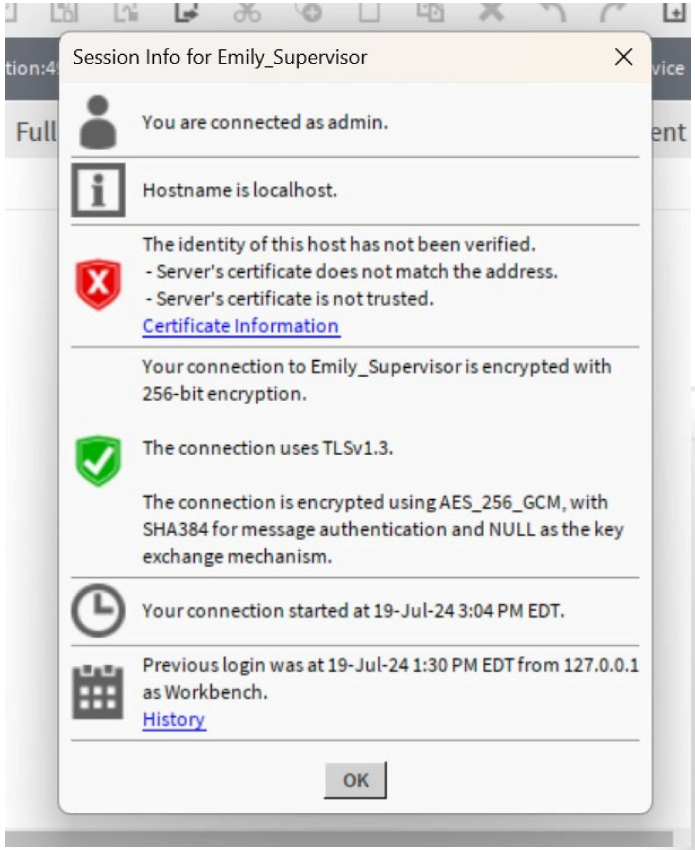
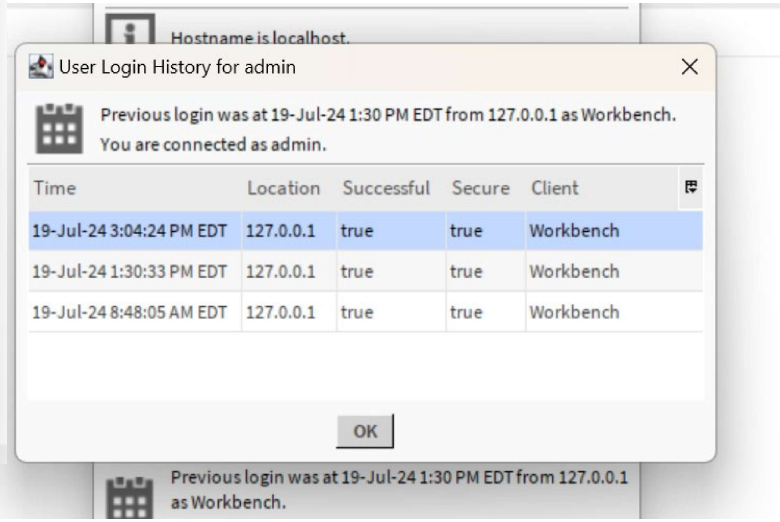


USER LOGIN HISTORY

Now users can check their login history for both the platform and the station.



Users can ensure that they recognize all logins to their account, helping detect potential attacks on the system.



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No longer can users gain access to a Niagara station via unprotected offline bog file.

ENCRYPTING HASHED PASSWORDS

- Passwords in the bog file will be encrypted, salted, and hashed
- Users will need to use the passphrase and station copier to successfully keep user passwords functional

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COMPLIANCE UPGRADES

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BACNET TEST LABS CERTIFICATION

ASHRAE Standard 135 open communication protocol of choice for field devices

BACnet International

- B-BC Profile for Jace 9000, & Jace 8000
  - with BACnet Secure Connect link layer!
- AWS Profile for Supervisors
- Protocol Revision 18 Certification Testing Coming Soon

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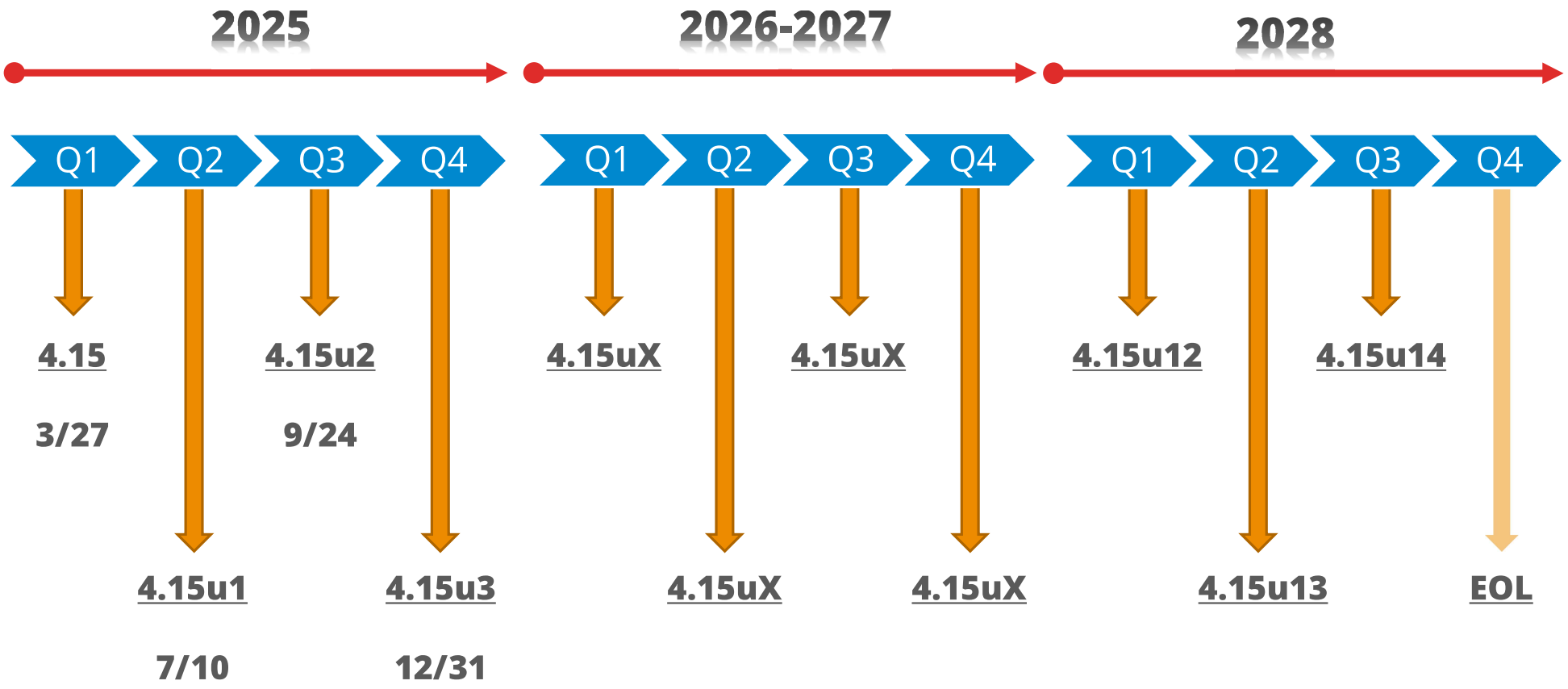
4.15 – UPDATE BUILD CADENCE & DATES



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