

AGENDA



Niagara 4.15 Overview













niagara 4.15

ALWAYS EVOLVING ACROSS FIVE DIMENSIONS

DEPLOYMENT



- HTML5 Px Editor
- HTML5 RelationManager
- 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



NEW HTML5 WEB VIEWS







WIRESHEET niagara 4.15



RELATIONS







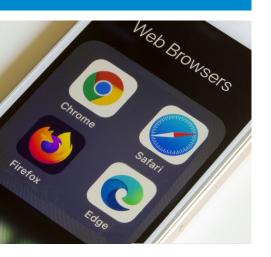
DATA MANAGEMENT & VISUALIZATION



INTEROPERABILITY & CONNECTIVITY



niagara Clouds niagara remoteTM





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





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MORE HTML5 WEB VIEWS

Engineer Niagara Stations through a web browser client.

Save Time!











SERVICE

NETWORK

HTML5 PX EDITOR

Create and edit graphics through the browser. UI Design no longer requires Workbench.







HTML5 PX EDITOR

Enables editing graphics and designing custom GUIs remotely.

HTML5 RELATION MANAGER

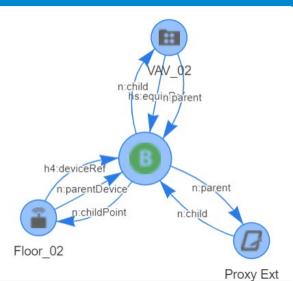
Define relationships through the browser. Relationship tagging no longer requires Workbench.





HTML5 RELATION MANAGER

Relation Manager Web View enables defining relationships remotely.









JACE 9000 WiFi



niagara 4.15

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





ACCESS CONTROL TRANSFORMS WITH NIAGARA 4.15







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.



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.



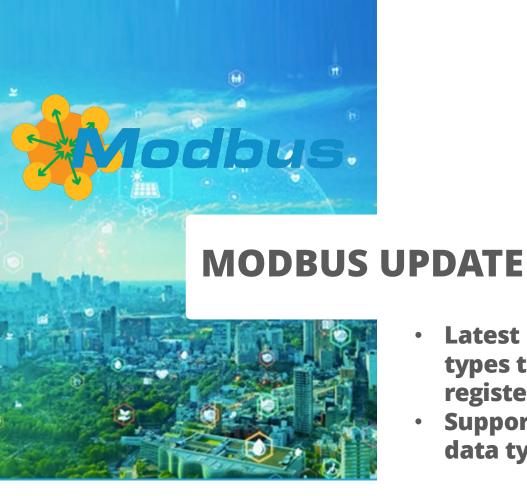




INTEROPERABILITY ENHANCEMENTS



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- 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





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

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 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

BACNET 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





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

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







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.



OSDP MANUFACTURERS















by TRIDIUM



































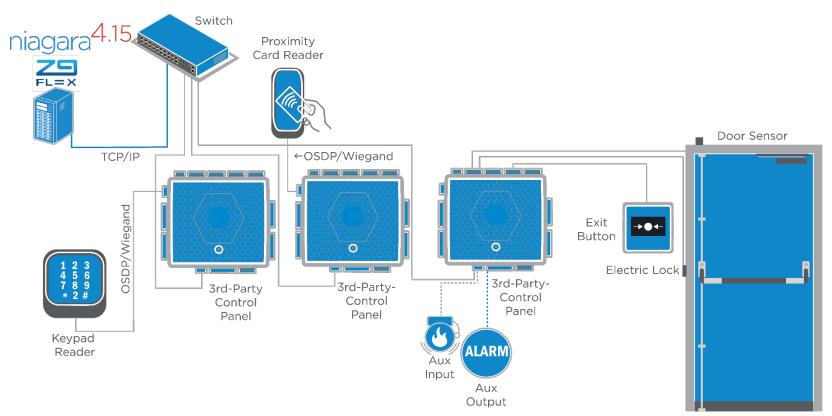






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EXAMPLE NETWORK ARCHITECTURE

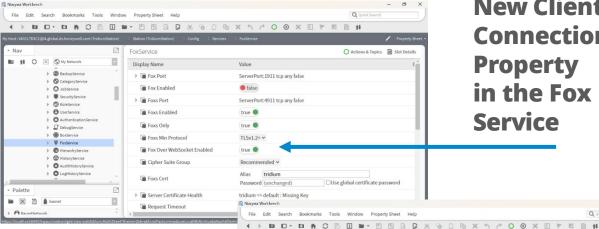






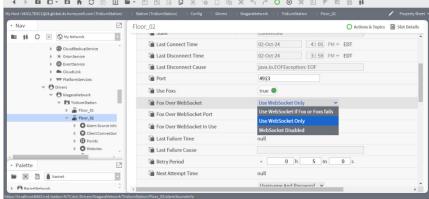
Fox over WebSocket is a new option for Station-to-Station connections when Foxs is not available.

FOX OVER WEBSOCKET



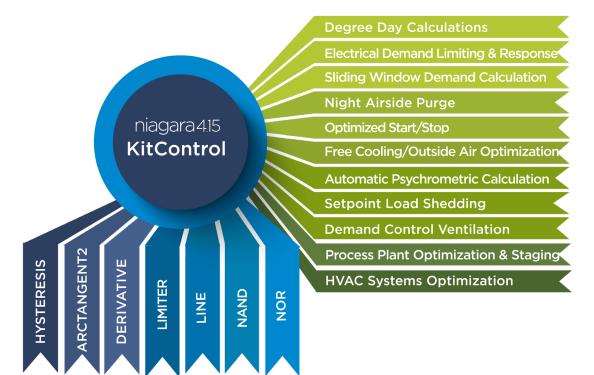
New Client Connection **Property** in the Fox **Service**







ADDITIONAL KITCONTROL OBJECTS



DOE-led Control
Design Language
(CDL) Initiative
OpenBuildingControl



Aligns with ASHRAE 231p

Goal = a unified CDL for Building Environmental Control Sequences

New AHSRAE 231p CDL Standard Elementary

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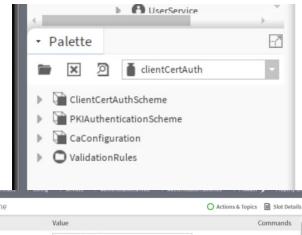
Authenticate With Common Access Card when accessing Niagara through a browser!

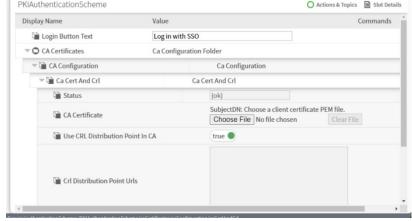


PKI AUTHENTICATION FOR BROWSER

New ClientCertAuth Scheme:

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



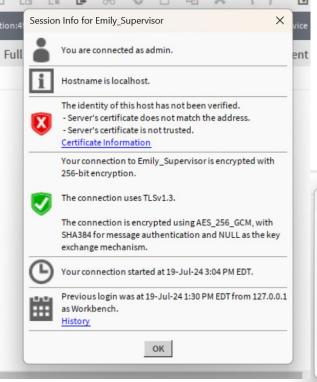




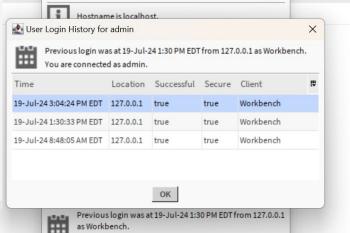


Now users can check their login history for both the platform and the station.

USER LOGIN HISTORY



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







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





BACNET TEST LABS CERTIFICATION

ASHRAE Standard 135 open communication protocol of choice for field devices





- 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



4.15 - UPDATE BUILD CADENCE & DATES

