An aerial photograph of a city skyline at dawn or dusk, with a thick layer of white clouds covering the lower part of the frame. Several skyscrapers are visible, including the Shanghai Tower, the Jin Mao Tower, and the Shanghai World Financial Center. The sky is a mix of light blue and soft pinkish-orange. The text 'WEBS N4.9' is in red and 'FEATURES OVERVIEW' is in black, both in a bold, sans-serif font.

# **WEBS N4.9** **FEATURES OVERVIEW**

**Honeywell**

# WEBS NIAGARA FRAMEWORK: ALWAYS EVOLVING -4.9

WEBS N4.9 brings exciting new features that continue to evolve Niagara's key tenets of visualization, rapid deployment, security, Edge, connectivity, certification and IT compliance.



Visualization

Tag Based Graphics  
Video Framework &  
Driver Update



Deployment

Edge Tools Updates  
ACE for  
Portable Niagara  
CIPer Model 10  
ACE Support for  
IO-R



Security

SAML Internal IdP  
Security History  
Critical  
Support/Enhancem  
ents



Connectivity

MQTT  
Authentication  
JSON Toolkit



Certification &  
Compliance

Expanded Support for  
Databases, OS, and  
browsers

# INTEGRATION WITH VIDEO SURVEILLANCE



## Maximize the safety and protection of building assets and occupants

- Video Surveillance can now be seamlessly incorporated into your Building Management System (BMS) with html-5 presentation.

## Stream live or recorded video feeds

- Browser or Mobile Device Ready
- Control PTZ Cameras
- Incorporate Video into system graphics

## Integrate Video with Niagara Alarm Console

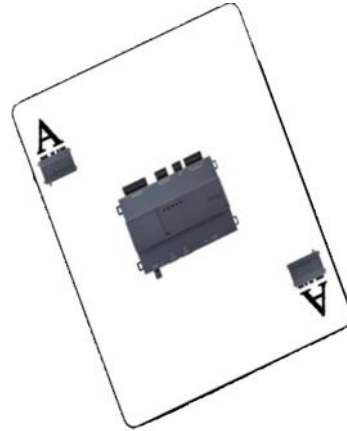
- Display Video Feeds for cameras associated with Niagara Alarms
- Pop-up Video on alarm
- Go to PTZ Preset on alarm
- Detect Motion / Occupancy

## Supported Integrations

- Milestone Xprotect Professional+ and Corporate
- Axis Cameras (Live Viewing)

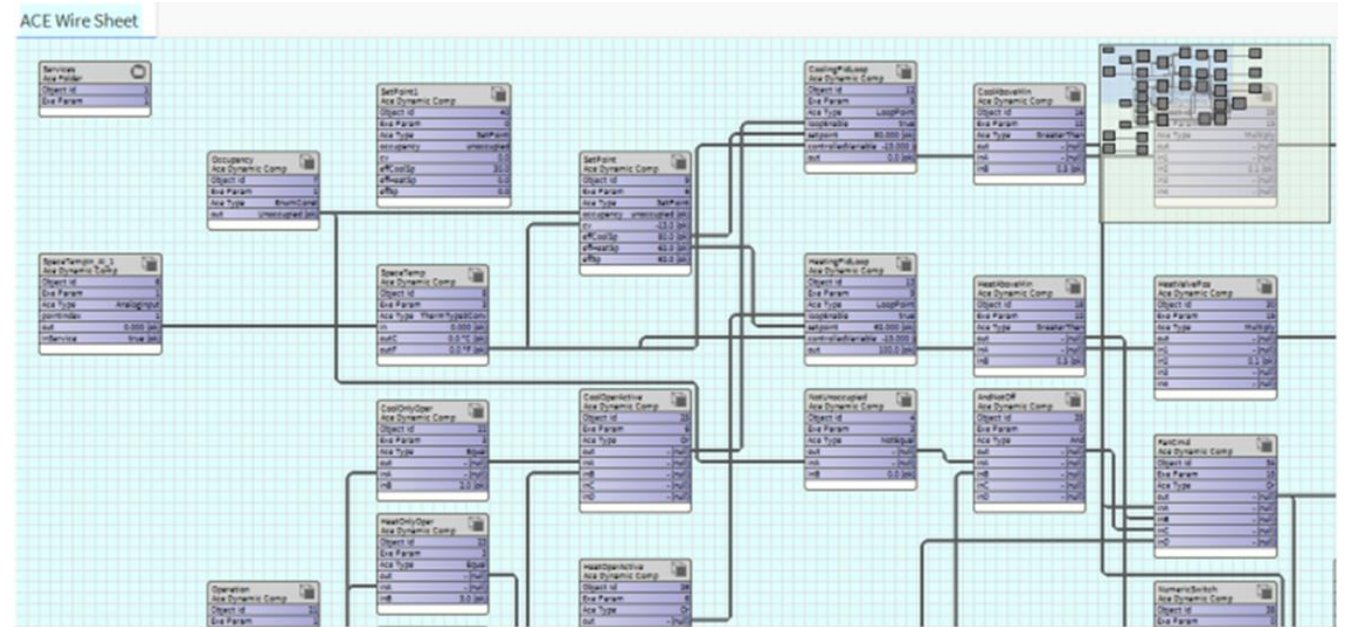


# ENABLING CRITICAL CONTROL OF FIELD EQUIPMENT



Updated to support 2 IO-R-34 modules and control of both onboard and remote IO with ACE, utilize CIPer Model 10 in more projects and for more applications by enabling critical control of field equipment that require additional IO modules

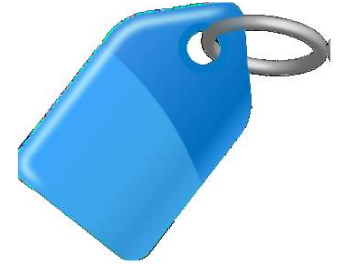
# ACE- DETERMINISTIC RUNTIME ENGINE



ACE for CIPer Model 10 enables fast startup to control time and deterministic timing when servicing the IO. Create deterministic applications in Wire Sheet as you would in normal WEBs applications.

ACE offers deterministic time and fast startup to control times that enables critical control of field equipment and reduces downtime.

# ENHANCED GRAPHICS WITH TAG BASED VISUALIZATION



Zone Data	
Return Temp	74.9 °F
Fan	Off
Heat Valve	0 %
Damper	100 %
Box Flow	457.7 cfm
Box Flow Setpoint	458.8 cfm
Static Pressure	2.2 in/wc

Zone Data	
Space Temp	72.1 °F
Supply Temp	52.5 °F
Effective Setpoint	72.0 °F

Control	
Operating Mode	Cooling

Alarm Simulation	
Alarm Mode	Normal Operation

Time spent re-creating graphics for a common application is money wasted

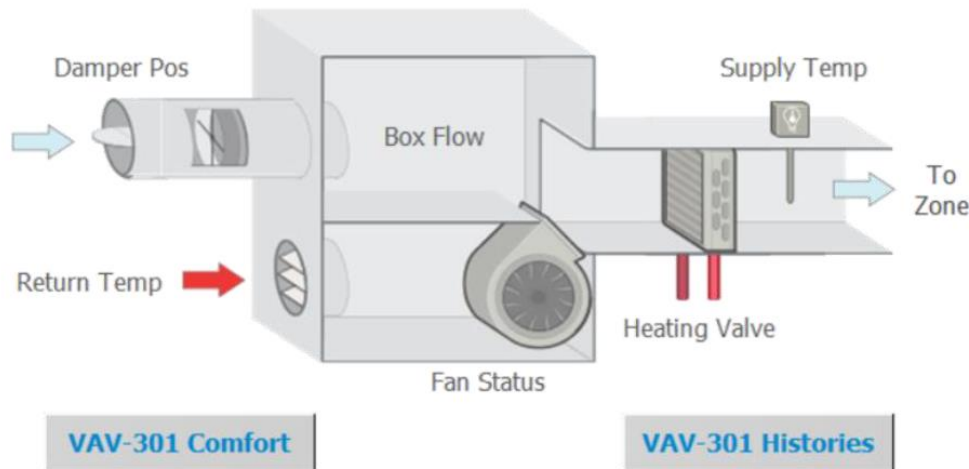
- Create local graphics based on tags once, and then reuse for any other Niagara instance that features tags

Tags and metadata are the future of building management

- Conform with the latest building design specifications by using a graphical user interface (GUI) based entirely on tags

Want to see more information?

- Check out the Tridium Talk and free Tridium University module.



# SECURELY NAVIGATE NIAGARA STATIONS WITH SINGLE SIGN ON

WEBs-N4.4 introduced Single Sign On (SSO) with your Identity Provider (IdP). WEBs-N4.9 now features native IdP capability

Reduce reliance on IT support infrastructure when accessing Niagara Stations via a browser

- Users can now utilize WEBs N4.9 as an IdP, instead of manually configuring and managing an external IdP
- Improves the security posture of your stations by centralizing user credentials and management

Improve user navigation and experience across WEBs infrastructure

- SSO allows users to login into one station and access all other connected stations without having to re-authenticate



# ENABLING CLOUD CONNECTIVITY

WEBs-N4.4 introduced Single Sign On (SSO) with your Identity Provider (IdP). WEBs-N4.9 now features native IdP capability

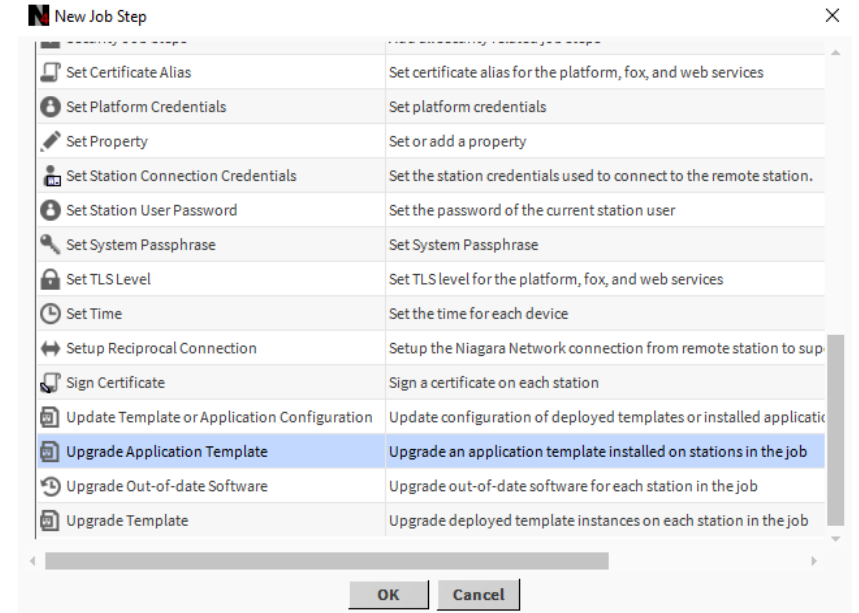
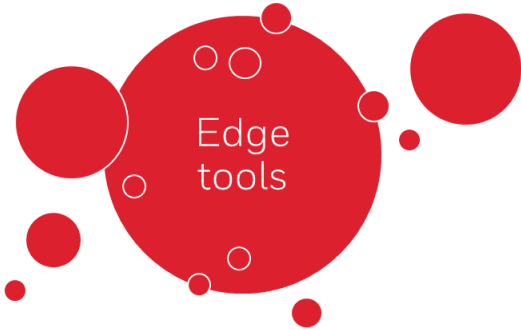


Reduce the time and complexity of integrating Niagara with cloud solutions with updated connectivity options.

- Updates to Niagara MQTT driver to support AWS (Amazon Web Services) Authentication.
- New JSON Toolkit to construct bespoke messages into required formats for cloud communication.



# FACILITATING NIAGARA AT THE EDGE



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

The latest updates to Edge Tools include the ability to upgrade installed application templates, flexibility in defining and configuring peer device and/or station proxies upon installation of an application template, and new provisioning steps.

# IT OPERATIONS SUPPORT



Facilitate compliance and enable modern services that need to communicate with the web by allowing secure connectivity behind corporate IT proxy servers. Niagara Proxy Service now supports HTTPS connections and digest authentication scheme!

# UNDERSTANDING ACCESS TO WEBS N4.9

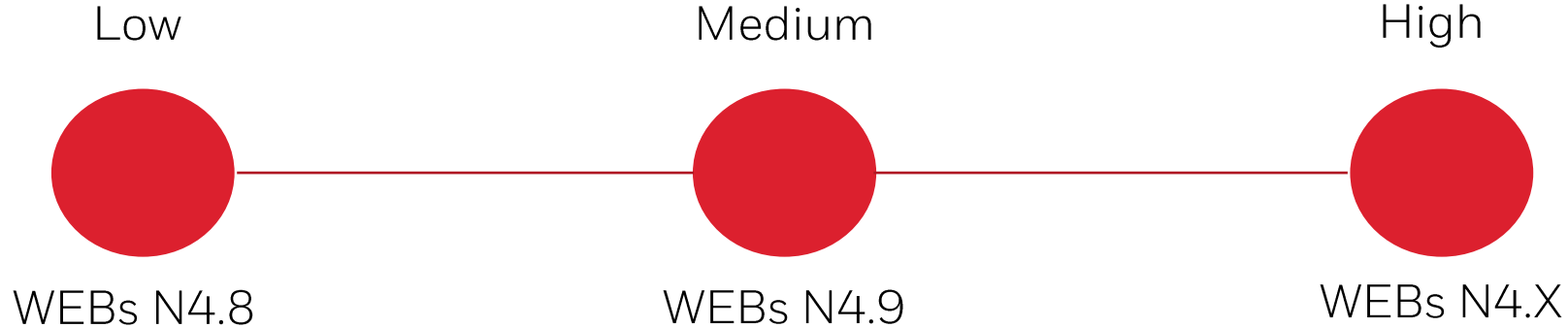


Understand who or what is logging into or changing security related settings on your WEBS N4.9 station with a dedicated Security History Log.

Coupled with the Niagara Security Dashboard (WEBS N4.8), this is a powerful tool for administrators and security professionals to ensure that their WEBS N4.9 system is appropriately configured and compliant with security standards.

# SECURING NIAGARA -3RDPARTY MODULE SIGNING

## Default Verification Mode by Version



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.

# UPDATED INFRASTRUCTURE

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

## Supported OS/Browser/DB (Added noted in bold)

OS, Browser, DB	Version
Red Hat Enterprise Linux	7.7, 8.1
Windows Server	10 (64bit), 2016, <b>2019</b>
VMWare ESXi	<b>6.7</b>
Oracle Database	<b>19c, 18c ... 12.2/12.1</b>
MySQL Database	<b>8</b>
MS SQL Server Database	2016, <b>2017, 2019</b>
Browsers (Current Rev)	Chrome, FireFox, Microsoft Edge
Mobile Browsers	Safari (iOS 12, 13), Chrome (8, 9, 10)

## Deprecated OS/Browser/DB Support

OS, Browser, DB	Version
Red Hat Enterprise Linux	7.5, 7.6
Windows Server	7 (32/64), 8.1, 2012
Oracle Database	11g
MySQL Database	5.7
MS Sql Server Database	2012
Browsers	Internet Explorer 11, Opera
Mobile Browsers	Safari (iOS 10, 11), Chrome (Android 6, 7)
Java Web Start	N/A