

# Niagara 4

## Recent Developments in BAS



Wednesday, July 29<sup>th</sup>  
10:30 a.m. – 11:15 a.m. (MST)

# Panel



**Johnny DeLoach is a Client Services Advisor for Haynes Technology & Energy Solutions specializing in BAS and controls, working closely with clients to develop building and asset strategies that strengthen business operations profitability and reduce risk associated with aging infrastructures.**



**Jerry Gray is the founder and president of Enterprise Controls Group based in Cleveland, Ohio. Jerry has been a member of the BAS community for more than 20 years mostly devoted to integration and programming. Tridium's Niagara Framework enables him and his team to focus on complex system integrations, custom visual management displays, and mission critical control environments.**



**David Jonas is a Haynes project manager specializing in BAS, HVAC controls & IT network management. David helps owners understand the needs of network security, remote access and software management. David has 20+ years BAS experience.**



# Topics

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- Background (what is Niagara?)
- Then & Now (R2, AX & N4)
- Niagara-AX end of life – Key dates
- How this affects your business
- Trade up program & discounts
- COVID & controls



# What is Niagara?

Niagara Framework (*open platform*)

- You may have heard these terms but what do they mean and why do I care?
  - Tridium, Niagara, open-source, non-proprietary
  - JACE's, open-protocol
  - Web-based interface
  - Integration of legacy control systems, phased upgrades
  - Internet of Things (IoT)



# Then & Now (Niagara R2'99, AX'05 & N4'15)

- Software & platform version updates
- The internet changes – so does hardware & software
- Features, security, AX to N4 conversions, analytics
- User interface, mobile device graphics (*no Java plug-in required, HTML-5 technology*)



# Niagara-AX End of Life – KEY DATES

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- February 12, 2020: Niagara AX 3.8 U5 is released. This will be the last Niagara AX release for legacy JACE platforms. (JACE 2, 3E, 6, 6E, 7, Sec JACE 6)
- October 1, 2020: AX Supervisor models no longer available for sale. Niagara 4 model may be purchased with AX downgrade.
- July 1, 2021: (\*\*critical date\*\*)
  - Sales of all Niagara AX licenses and license options end
  - Sales/replacements for Legacy JACEs end
  - Fixes for defects and cyber issues end
  - Real world scenario
- If you still have AX JACE's, we encourage you to upgrade any of your older hardware now to JACE 8000s to keep your systems operable while migrating to the latest Niagara 4 release.



# How this affects you

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- Niagara–AX will be obsolete *(no software patches or JACE hardware)*
- Capital expense vs. ops/emergency expense
- Budgeting for Niagara–4 upgrades
- Take advantage of hardware discounts available until December 15, 2020
- Potential for hardware shortages 2<sup>nd</sup> half of 2021



# Niagara-AX Trade Up Program

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- Hardware Price Incentives for upgrading to Niagara-4
- Up to 30% off the costs of JACE-8000 hardware and software
- Budget season is now
- Incentives expire December 15, 2020





# COVID & Controls

## Recommendations for Property Managers & Building Engineers

### Operations

- Review sequence of operations are functioning properly
- Ensure temperature set points are acceptable for indoor comfort and maximize energy efficiency
- Check building schedules meet building occupancies

### Ventilation

- Continuous operation of system fans
- Increase outside air, but maintain indoor conditions
- Flush building sequence 2 hours before and after occupancy

### Filtration

- MERV 13+ upgrades
- Maintain regular replacement schedule

### Disinfection

- Encourage bi-polar ionization for air treatment
- Encourage UV-C for surface treatment
- Review airflow patterns in the space and avoid recirculation of contaminants



# Q&A

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- Thanks for your time!
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