
TRIDIUM
NS2024
APRIL 15 - 17 | ANAHEIM, CA

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POWER OF PARTNERSHIP

Optimizing Higher-Ed Facility Performance via Niagara in the Cloud

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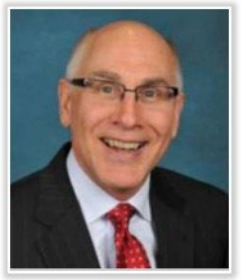
Introductions

David Payne, VP Operations & Energy,
SSC Services for Education



Dave Love, Chief Cross Sale Officer,
Albireo Energy

Aaron Mason
Director of Operations
Hawkeye Energy Solutions

Set the Stage

- Why is this type of solution needed by SSC or your clients?
- What are challenges that SSC or Hi Ed clients trying to solve with their current facility management operating model?

Vision

- Multi-faceted, single seat solution that is scalable to monitor and support multiple clients across US with (Green, Yellow, Red) pins to get a quick overview of client building status
- Manage educational client's facility operating data: energy consumption, BAS points trend/alarms, MEP equipment performance and work order status
- Manage operational and contractual SLAs to benchmark KPI's at the client site and across all accounts
- Provides for ongoing facility performance improvements through FDD & Analytics for predictive maintenance, energy efficiency, sustainability, operational excellence, cost reduction and student experience.
- Future applications include Janitorial, grounds, compliance, lighting control, water management, space utilization, filter management optimization.....

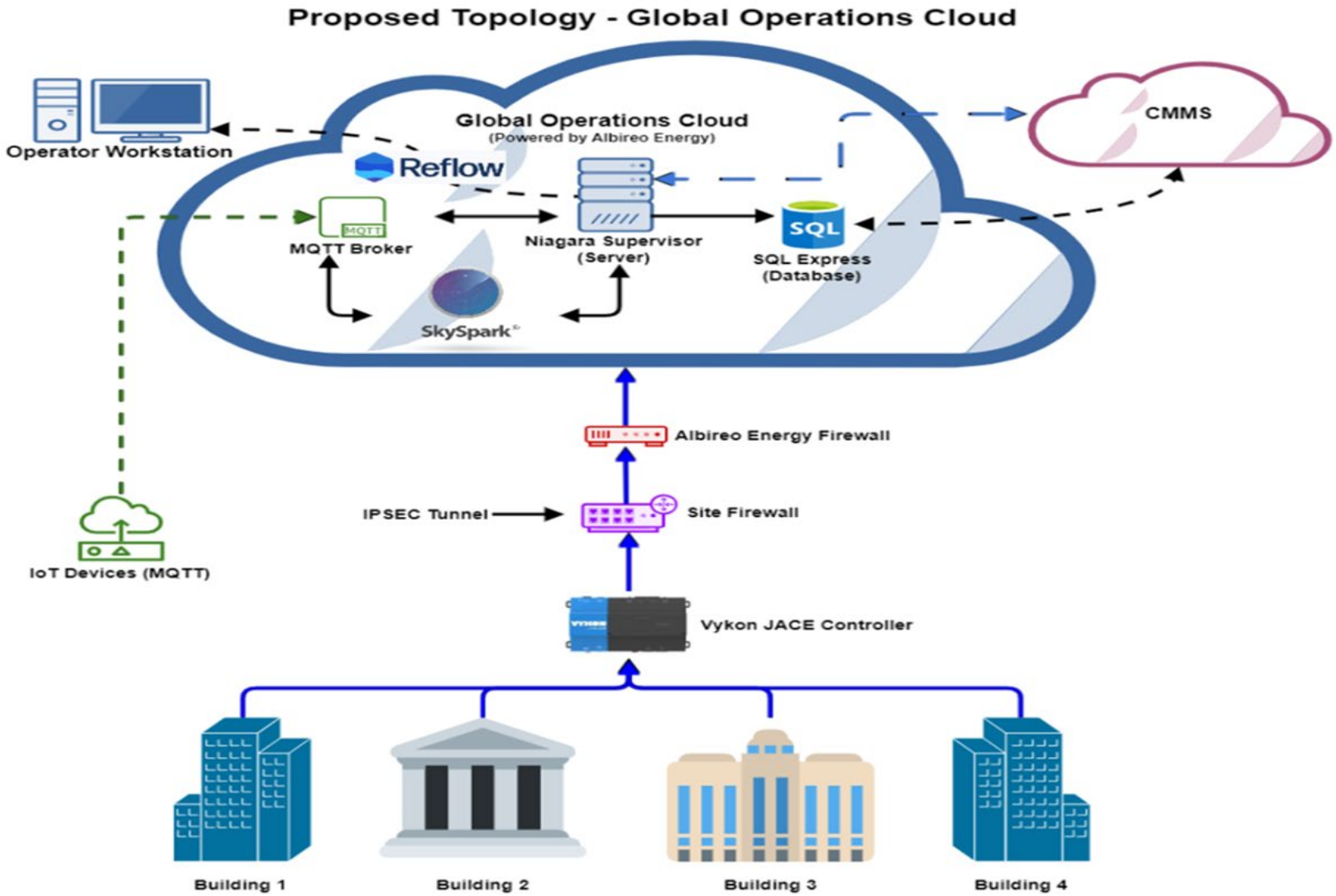
Outcomes

- What did you expect to achieve by developing the SSC Global Operations Cloud with Niagara?
- How did you develop the outcomes?
- What were your expected outcomes vs. actual outcomes achieved?
- Were there any Surprise Outcomes?

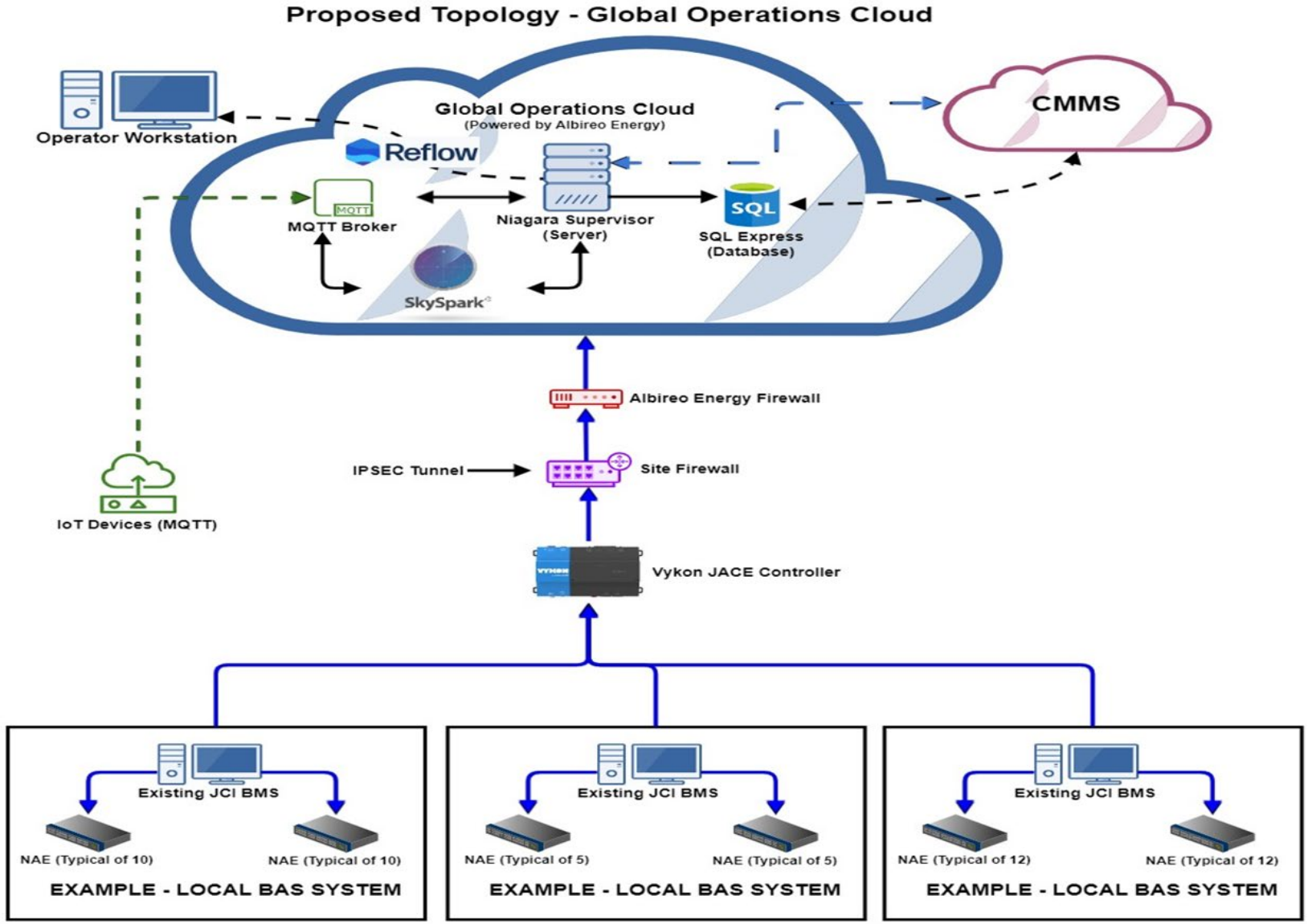
User Functionality

- Multiple users with virtual access levels: Corporate/Regional Operations Leaders, SME's, On-site FM Director, plus University Client executive and operational levels.
- Integrate real-time facility and energy data into daily facility operations by the on-site facility engineers and display via alarms, graphic dashboard/meters, FDD & analytics, building graphics
- Integrate various applications via API's to create a robust operational platform: CMMS (Maintenance Connections), Financials (SAP), Power BI, Sky Spark, SQL, MQTT Broker and external cloud solutions ie. Energy and Utility Management, weather data, various meters, and other OT systems
- Plug and play to add new client campus's, new buildings, systems and points.
- Cybersecurity within clients network, virtual private networks etc.

Technology Stack



Technology Stack



niagara cloud SUITE™ Architecture

Niagara Data Service

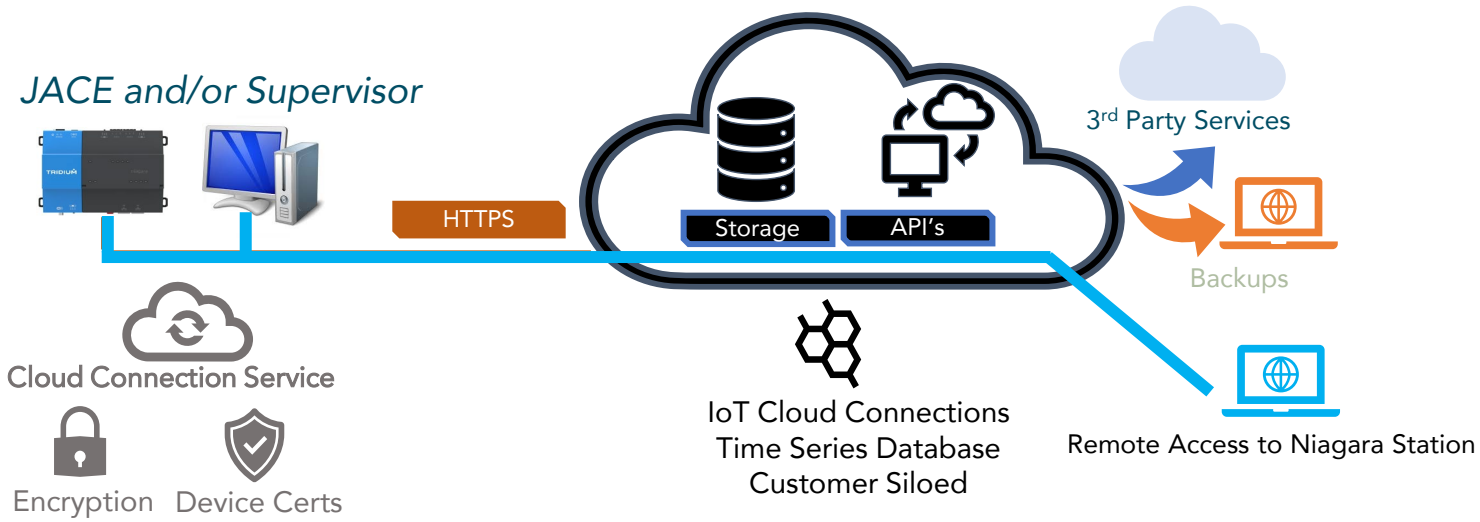
Modeler Histories Archive Histories

Niagara Recover

Backup

Niagara Remote

Browser
Remote Access



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Lessons Learned

What worked well?

Areas to improve upon?

O&M Thoughts

- **Experience – MSI**
- **How O&M Programs Work**
- **Messy, Tough – Full of Opportunity**
- **Better, Resilience, Reduce Risk, Improve Environments**

O&M Issues

- Technology is great
- Heart of O&M is the people
- Lot of people still needed
- Integration of People and Technology is key driver of success

University & FDD

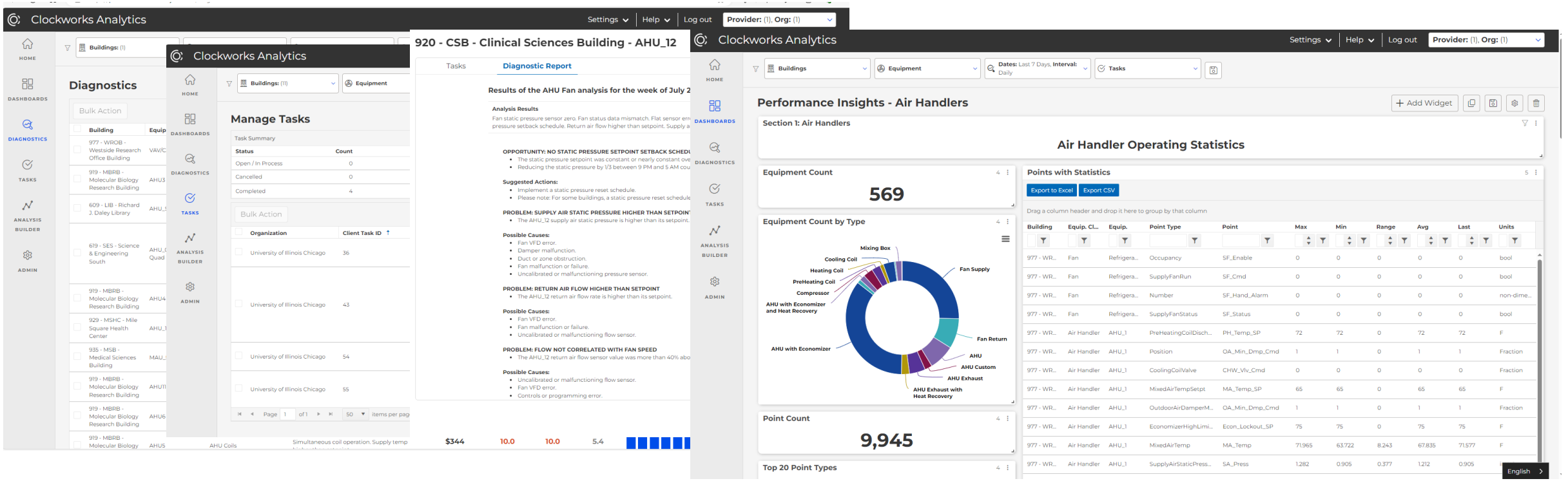
- Clockworks Integration
- Analyze, Identify, Quantify, & Prioritize
- Cloud Based
- Great Tool
- Still Need People

Stakeholders

- C-Suite Layer – Reduce costs and environmental
- Management Layer – Streamline creatively
- Operations Layer – Robust systems that don’t break all the time

Clockworks & Niagara

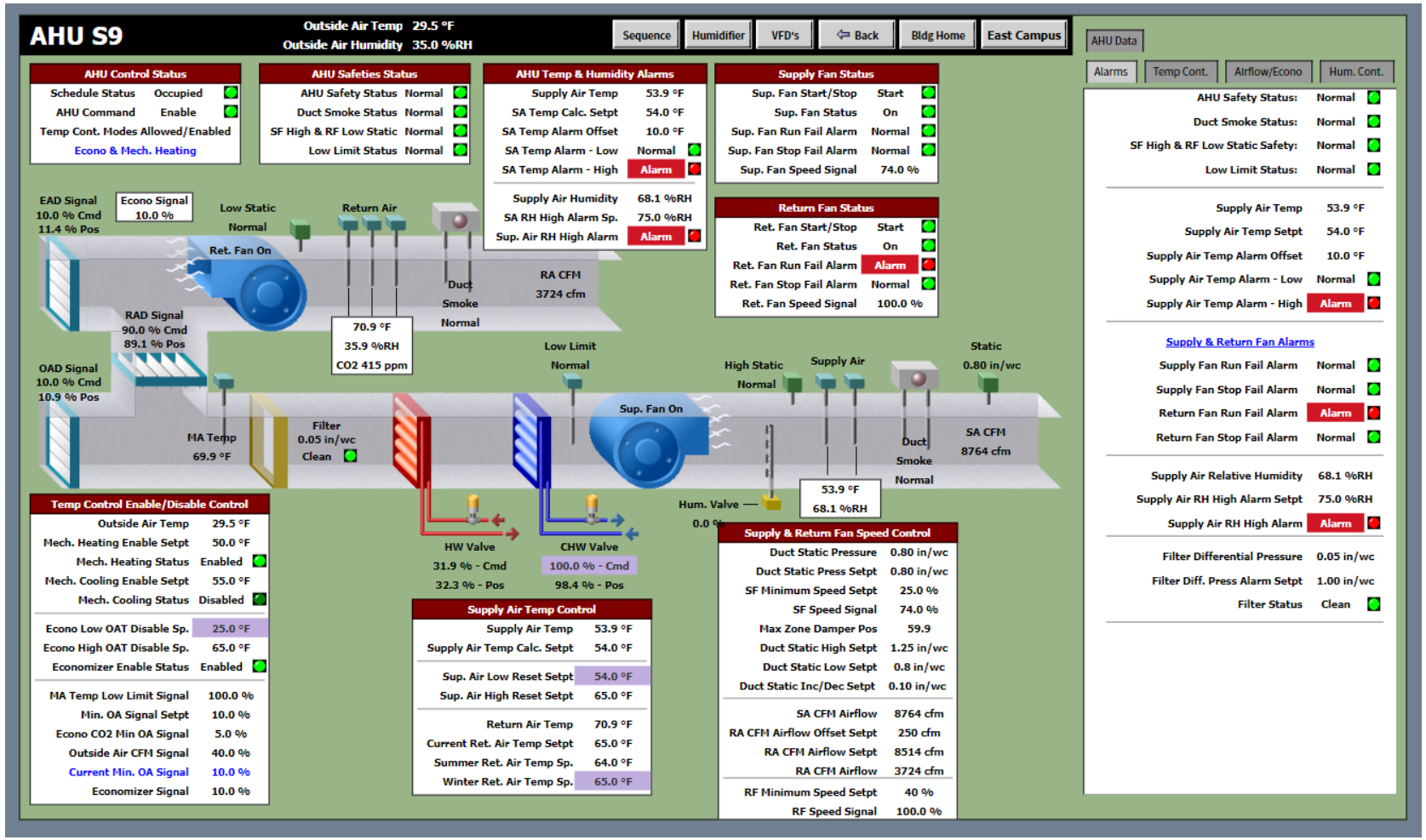
- **Dashboards, Diagnostics, & Task management features**
- **Lots of data to digest**



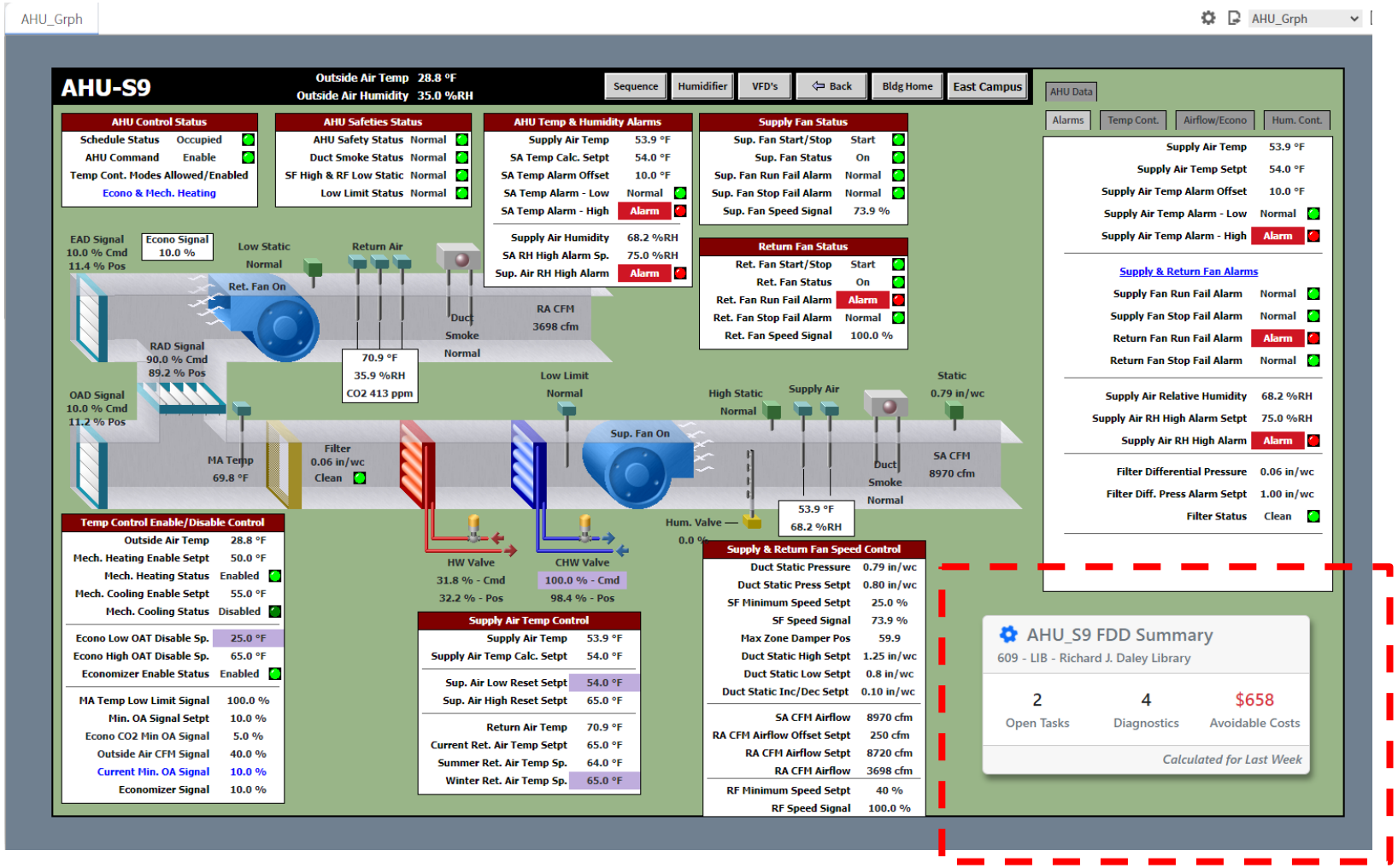
Clockworks & Niagara

- **Pilot project to create clockworks driver/widget for Niagara**
- **Lots of data to digest**
- **The more people that use this information the better**

Clockworks Widget



Clockworks Widget



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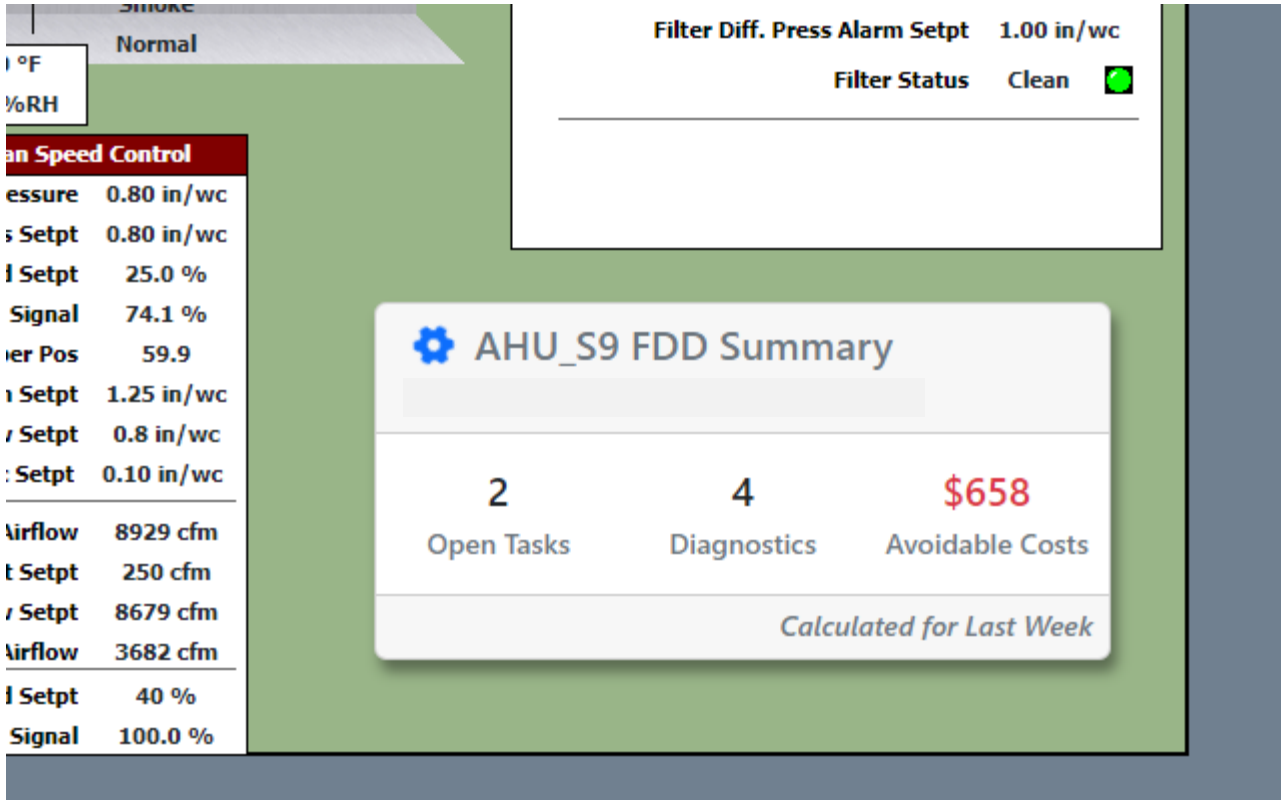

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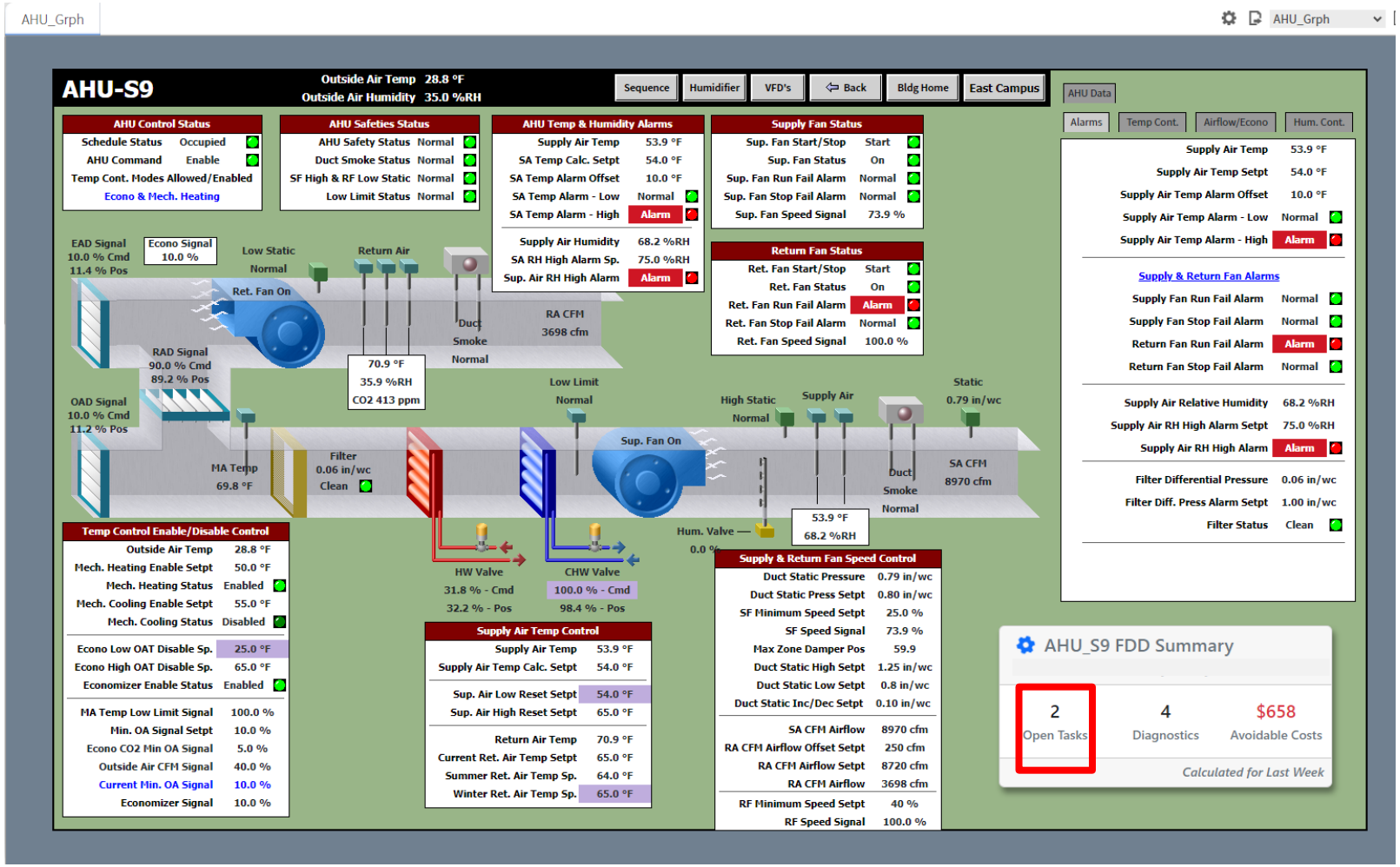

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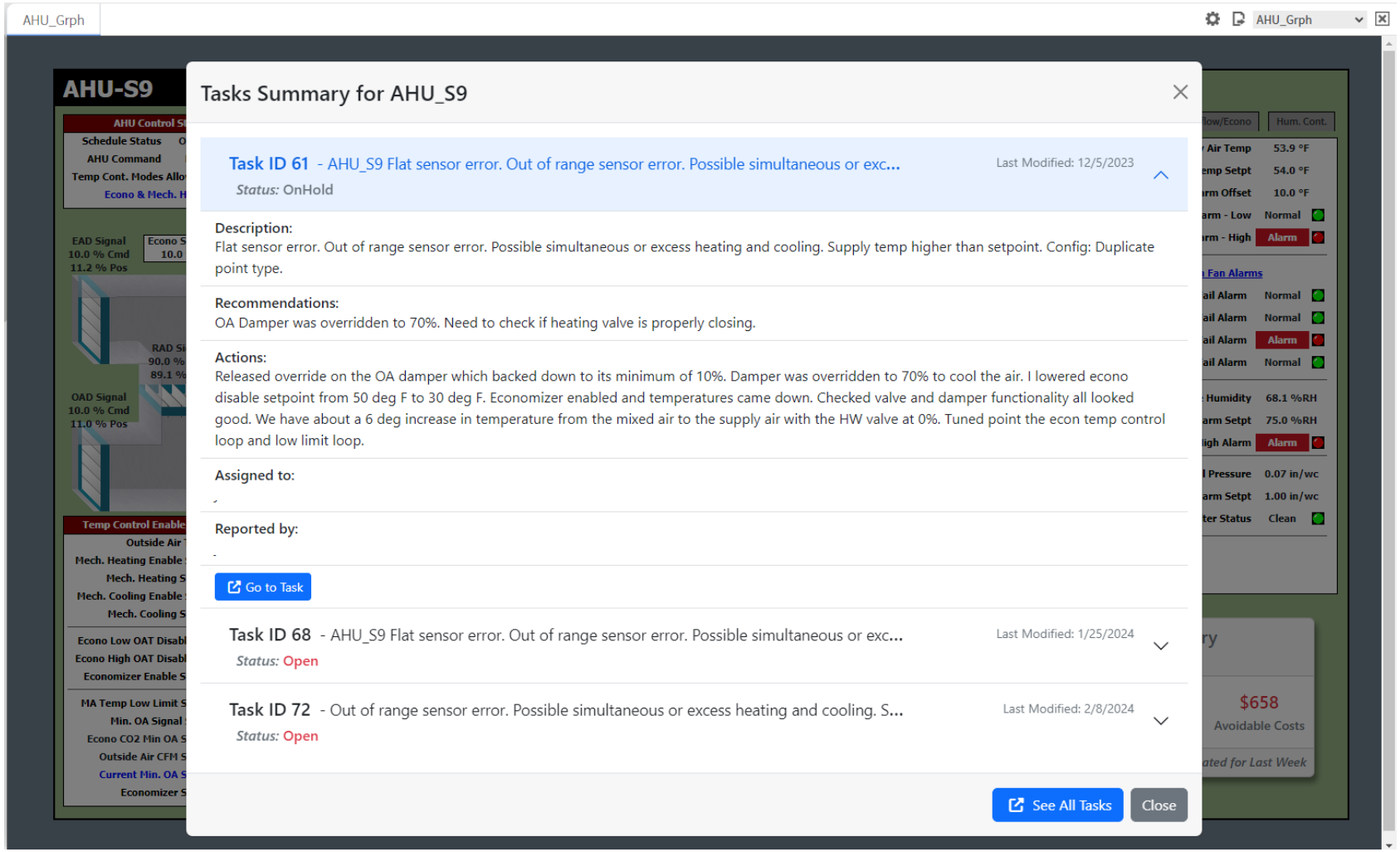
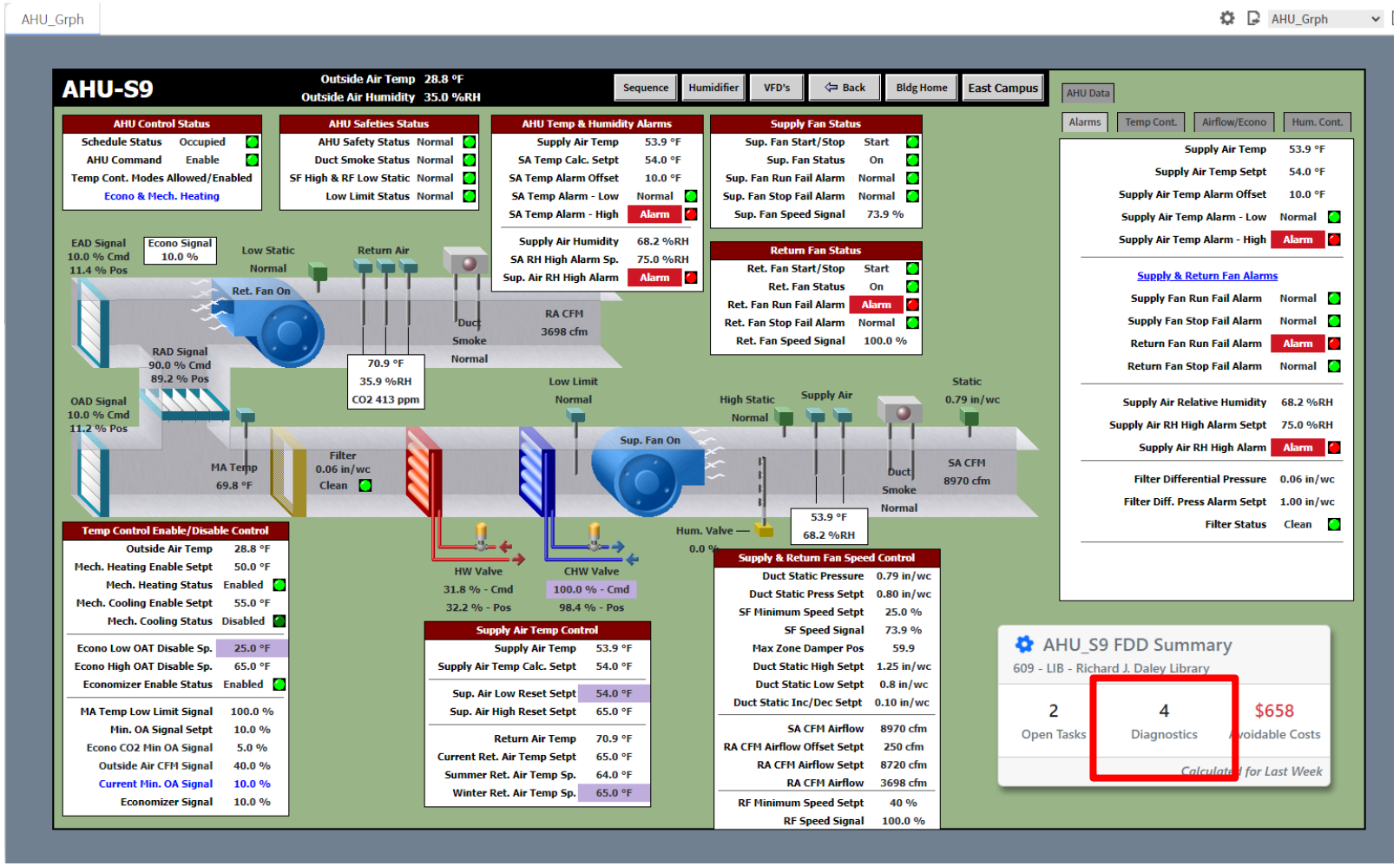
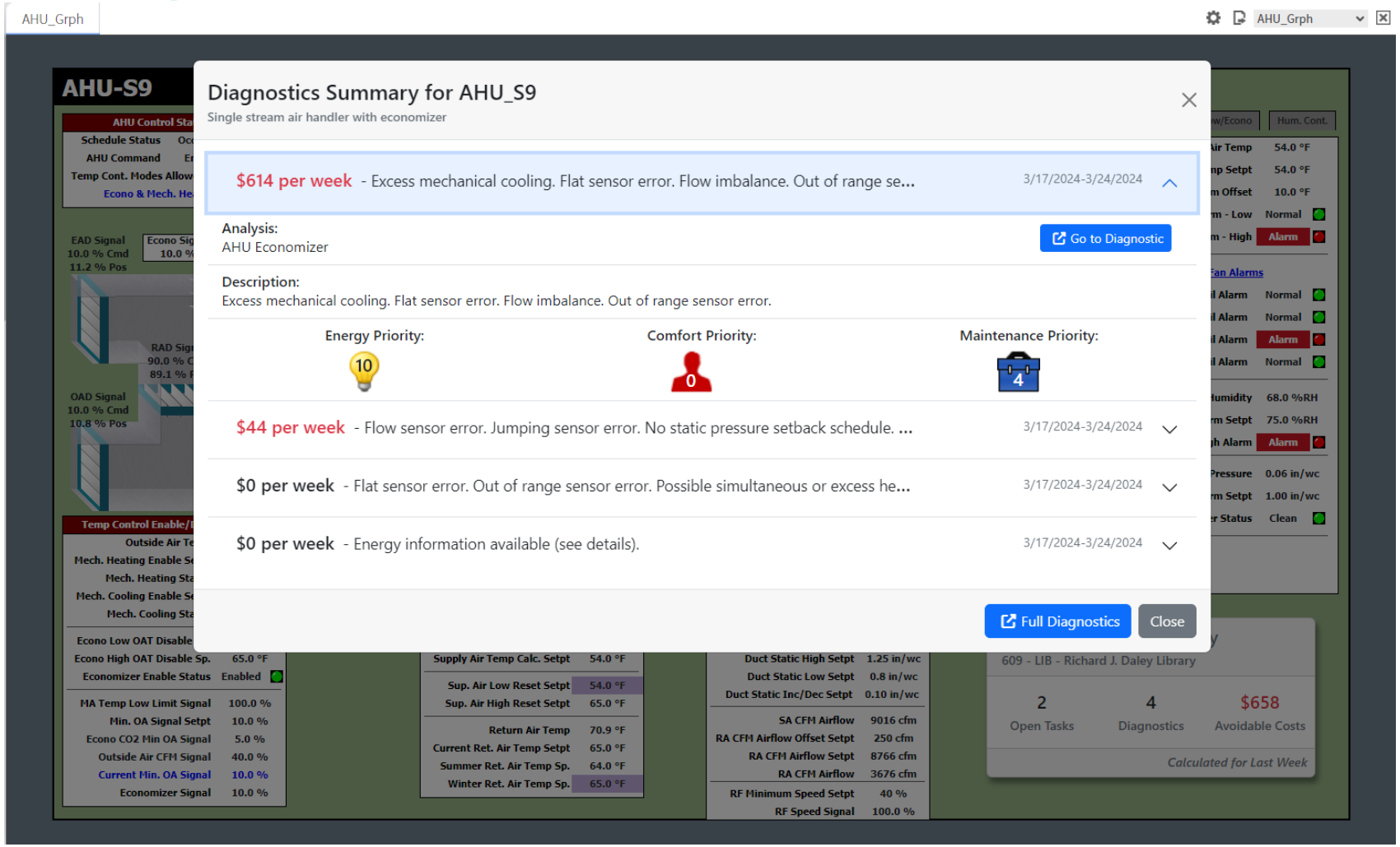


Clockworks Widget



Diagnostics



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Q & A

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SSC services for education

THANK YOU!

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