

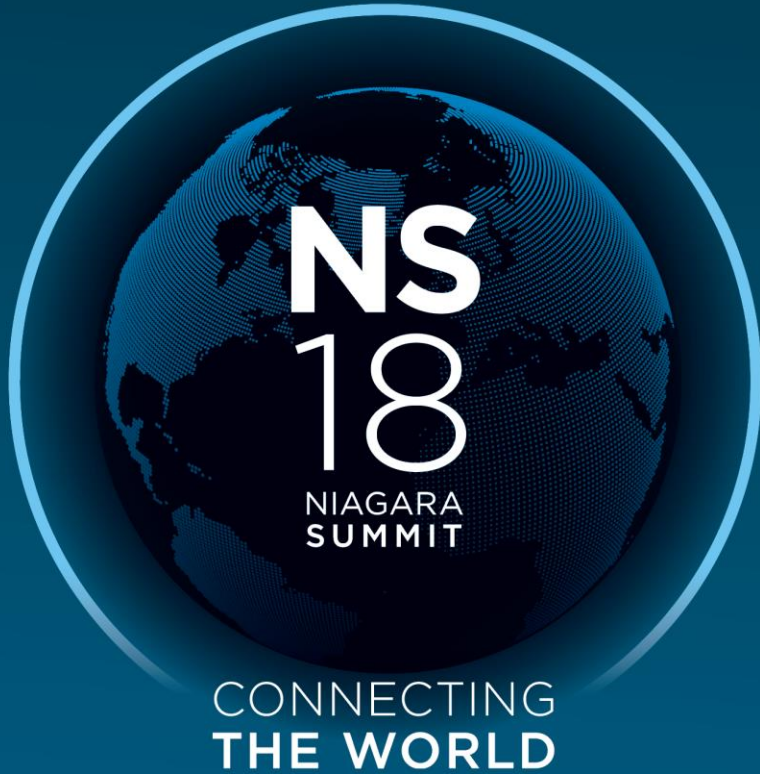


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**NIAGARA
SUMMIT**

**CONNECTING
THE WORLD**



Niagara at the Edge

Chirayu Shah
General Manger
Conserve It

Conserve It Edge IoT Controllers

Smart Edge IoT Controllers and More

Overview

- **CI Edge IoT controllers Range**
- Generic Programmable Controllers / Gateways
 - **CI-534** - Niagara 4 Edge IoT Controller with built in 34 points IO
 - **CI-J-8000** – Niagara JACE controller
 - **CI-DEG Series** – Niagara Supervisors
- Application Specific Controllers
 - **PlantPRO / MultiPRO** Chiller Plant Optimization Controller
 - **FlexSys GIII** Chiller Controller

Conserve It Edge IoT Controllers



Conserve It Edge controllers are a new generation of IoT controllers utilising the Niagara Framework with expandable IO network. These controllers are part of Conserve It's hardware portfolio and are designed to provide maximum performance at minimum cost

CI-534 Edge IoT Controller with Conserve It Niagara Port

niagara⁴



CI-534-N4

N4 Edge IoT controller with 34 point IO built
in

(250 points / 500 points / 1250 points)

CI-XM34IO-B – BACnet IO 34 points

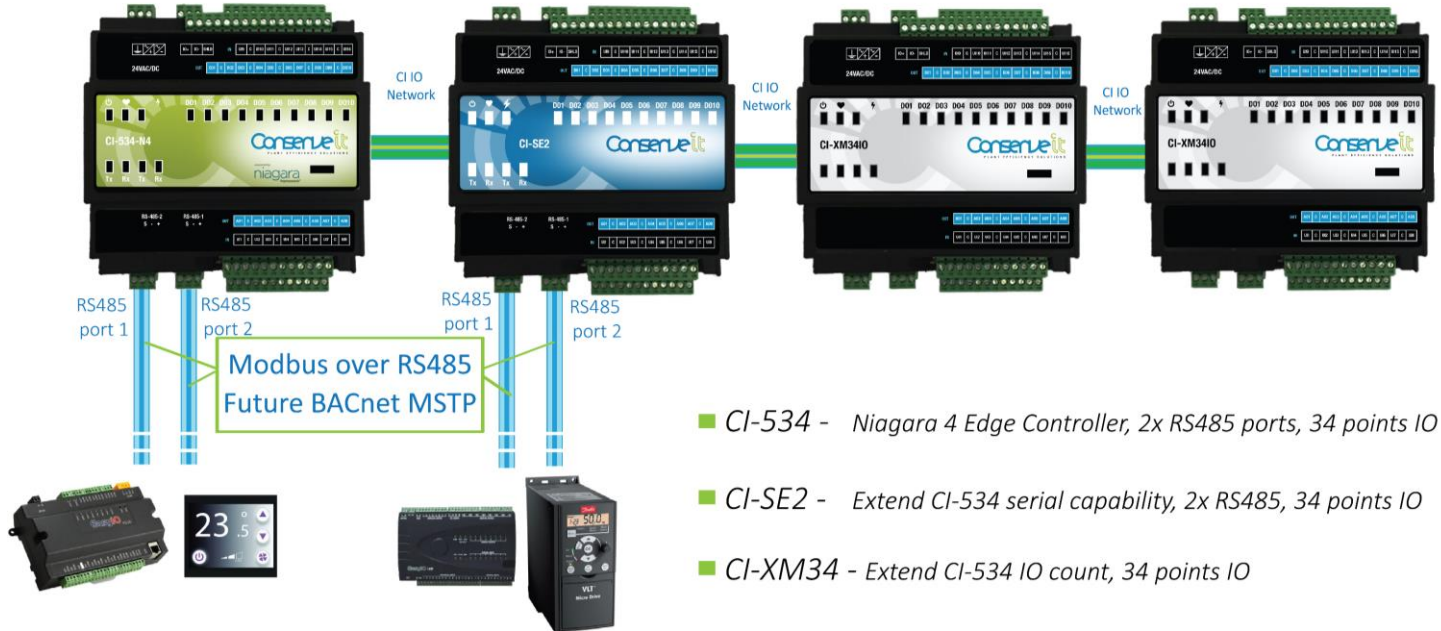
CI-XM34IO – Expansion IO 34 points

over Conserve It IO Bus for both of the
above



Low cost Alternative to J-8000 with IO-16-485

Conserve It Edge IoT Controllers



Conserve It JACE 8000 series

- Conserve It branded JACE-8000 series controllers compact, embedded IoT (Internet of Things) and server platform for connecting multiple and diverse devices and sub-systems
- Available with 5 devices, 10 devices, 25 devices, 100 devices and 200 devices with additional devices available for purchase
- Comes with standard drivers and optional expansion modules, IO configurations and additional drivers



CI-DEG-5000

- Robust, Powerful, Industrial Gateways for Building Automation Applications
- Conserve It Edge Gateway 5 series includes Intel® Atom™ E3827 1.75GHz, 2 cores with Win10IoT and optional 4GB RAM/64GB SSD or 8GB RAM /128GB SSD
- The Gateways can be purchased as a bundled package which includes Hardware and Niagara Licenses or unbundled which includes Hardware only

Endorsed by Tridium, SkyFoundry, DGLogik to run their SW

niagara⁴



CI-DEG-3000

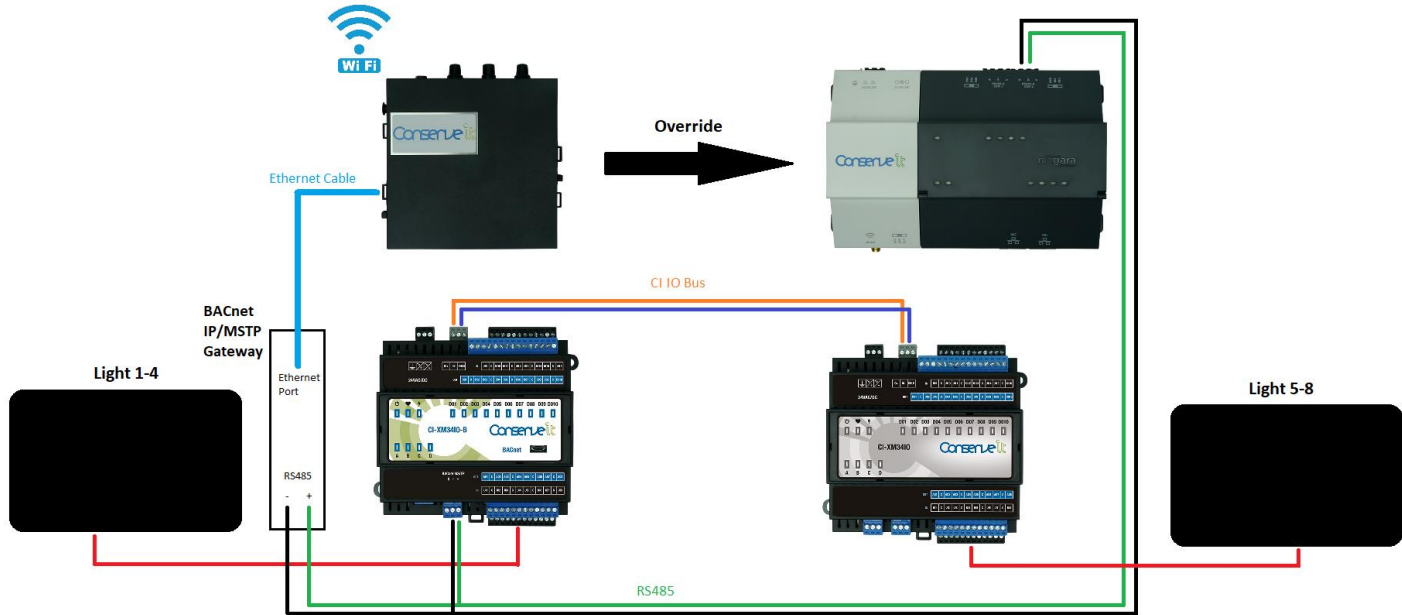
- Compact, low power and ready for challenging field and mobile use cases
- Conserve It Edge Gateway 3 series includes Intel® Atom™ E3815 1.46GHz, 2 cores with Win10IoT and 2GB RAM/32GB SSD
- The Gateways can be purchased as a bundled package which includes Hardware and Niagara Licenses or unbundled which includes Hardware only

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Conserve It Edge IoT Controllers

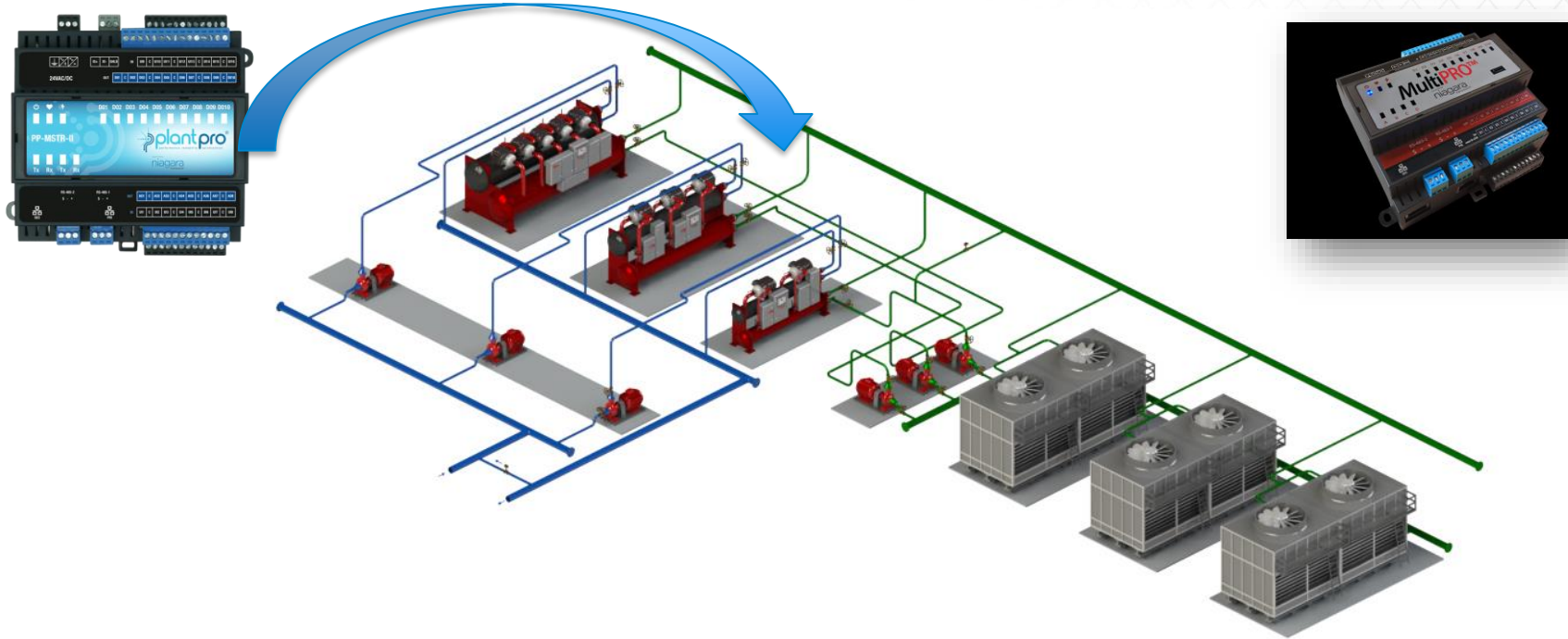


Application Specific Controller – PlantPRO / MultiPRO

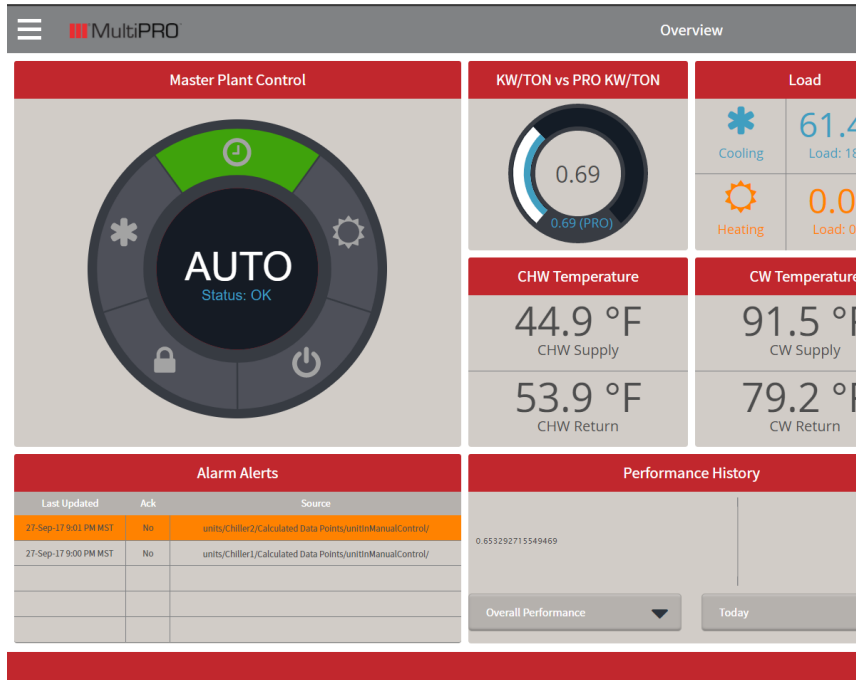
- Chiller Plant Control and Optimization Controller
- Easy to Configure using Wizard based setup system
- HTML5 Niagara 4 Dashboards
- Self creating Control Logic, Dashboards, Alarms , Trends, Diagnostics & Reports



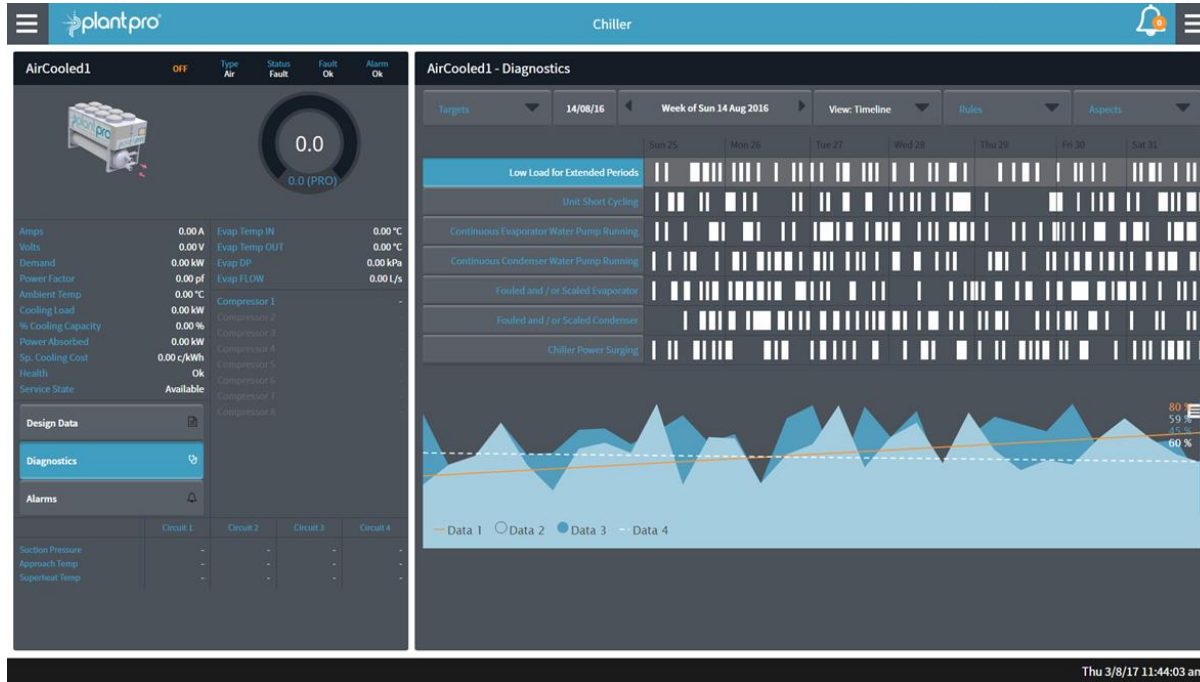
Application Specific Controller – PlantPRO / MultiPRO



Mobile Friendly HTML5 Niagara 4 Dashboards



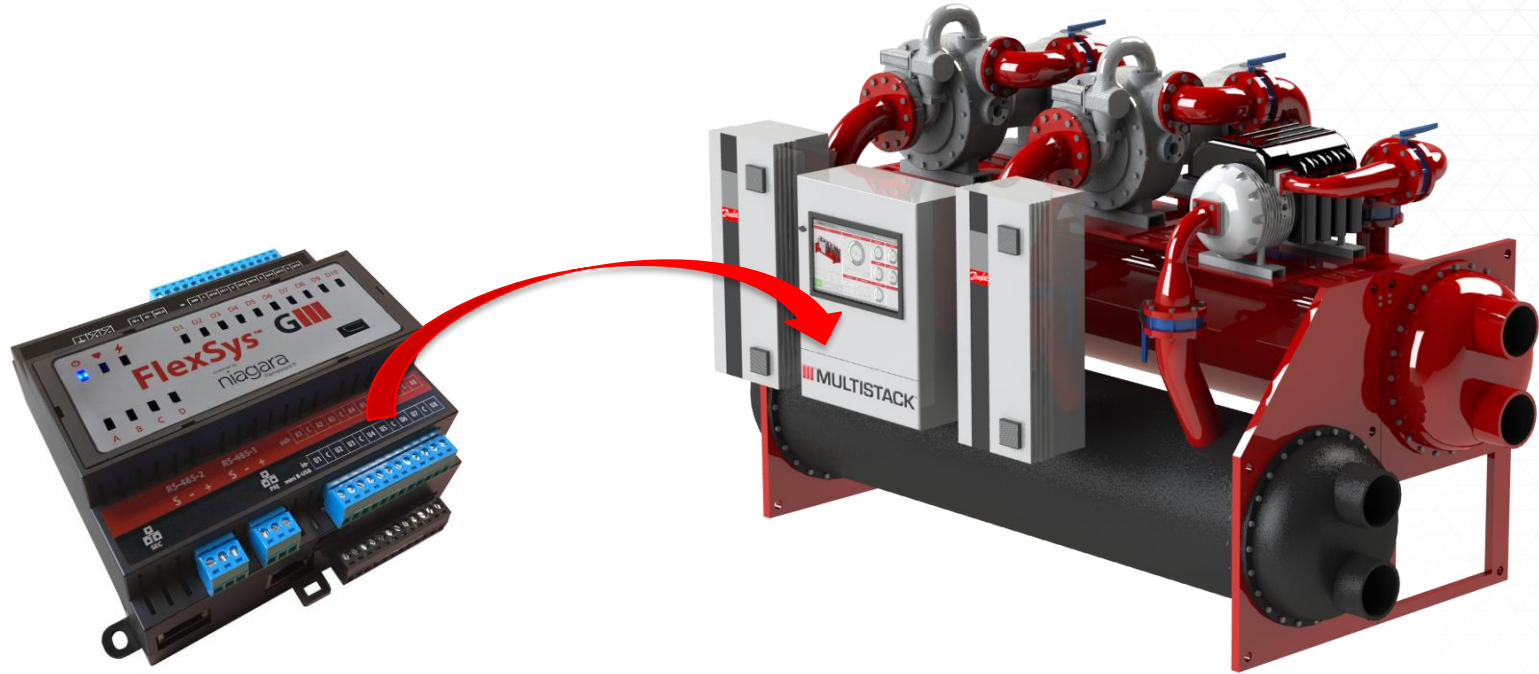
Mobile Friendly HTML5 Niagara 4 Dashboards



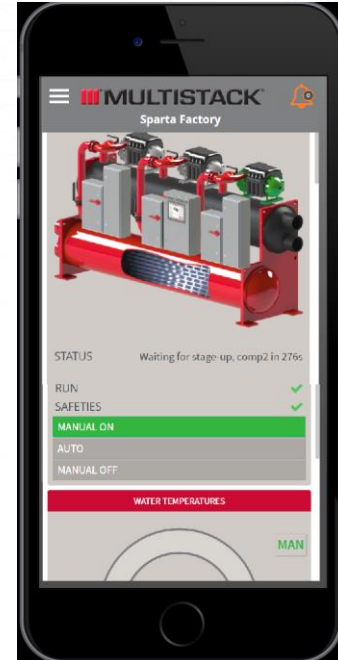
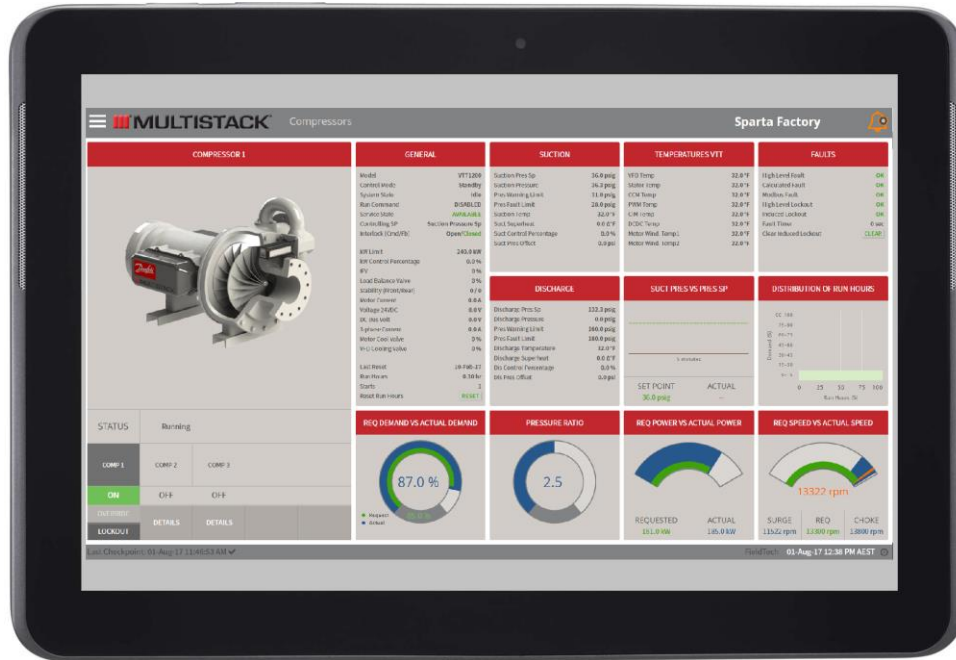
Application Specific Controller – FlexSys GIII

- Chiller Controller for Multistack MagLev Water Cooled Chillers
 - Chiller control sequence
 - Full compressor staging and sequencing control for Turbocor TT and VTT compressors
 - EXV control based on numerous control strategies
 - Integrated load balance valve control
 - Two levels of plant equipment control
 - HTML5 Niagara 4 Dashboards

Application Specific Controller – FlexSys GIII



Responsive UI design



Tablet and mobile phone friendly graphics

Edge Devices Are The Brains Of The OT Network

- What is Edge –
 - A CI-DEG (Supervisor) in a Building is Edge to the cloud
 - A CI-534/CI-J8000 is Edge to the Supervisor
 - A Smart IoT Sensor is Edge to the CI-534/CI-J8000

As the Internet of Things grows ever larger, data analysis and decision-making will have to localize - shifting from the cloud to the edge.



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