

# **Today's Speakers**



Kevin McClusky
Chief Technology
Architect
Inductive Automation



Benson Hougland
Vice President
Opto 22



Arlen Nipper
President & CTO
Cirrus Link Solutions

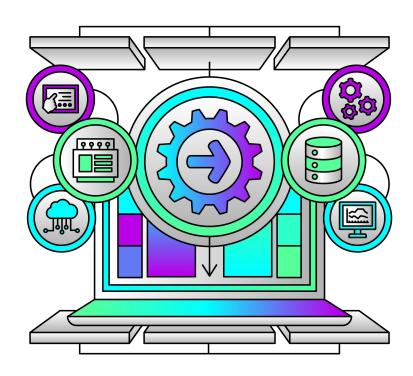


James Burnand
Chief Executive
Officer
4IR Solutions

Mark French
Director of Design
Consultation
Sepasoft

# **A**genda

- About IA, Ignition & Technology Partners
- Digital Transformation & UNS Use Case
- Solution:
  - 4IR Solutions (Cloud)
  - Opto 22 (Edge)
  - Cirrus Link Solutions (MQTT)
  - Ignition (Visualization)
  - Sepasoft (Analytics)
- Demonstration
- Discussion
- Q&A



#### **About Inductive Automation**



22+

Years in the industry

- Over 350 employees in US & Australia
- Profitable every year since 2008
- No outside investors

**65%** 

Of Fortune 100 companies use Ignition

- Over 44% of Fortune 500 companies use Ignition
- Highly diversified customer base across many industries

100+

Countries have Ignition installations

- Thousands of installations around the world
- 4000+ integrators worldwide



# The Unlimited Platform for SCADA and So Much More

- Connect, Design, Deploy Without Limits:
  - One central hub for everything on the plant floor
  - Create any kind of industrial application
  - Web-deploy clients to desktops, industrial displays
     & mobile devices

- Unlimited licensing
- · Industrial-strength security and stability
- Trusted by thousands of companies worldwide

# Inductive Automation Technology Partners

- Solve digital challenges and get even more power from the Ignition platform.
- Strategic Module Partner: Cirrus Link
- Solution Partners: Sepasoft, 4IR Solutions, Opto 22
- Today, we will demonstrate how these partners combine their strengths to enable Digital Transformation, and show a use case.













#### **Use Case**

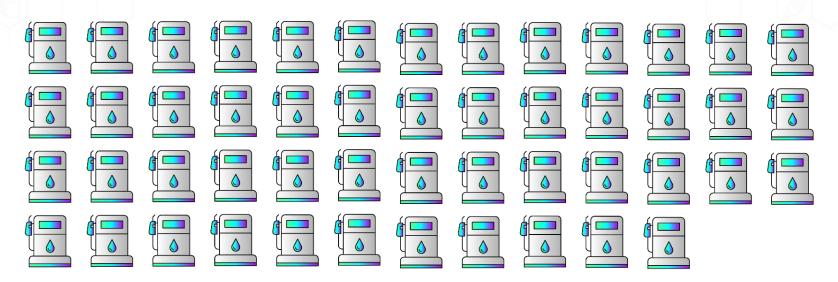
- The Customer: EPIC Stores
  - Main services: fuel storage & delivery, car wash, HVAC, lighting, refrigeration, food & beverage sales, and more





#### Use Case - Goals

- Customer's Goals
  - This year: Expand from 5 stores to 50 stores
  - In five years: Become #1 in the convenience-store market





# Use Case - Objectives

#### Objectives:

- Gain real-time visibility into operations
- Optimize inventory while reducing costs
- Historize data to learn from the past and inform the future
- Provide local visualization and supervisory control
- Model & publish the data to share across the organization and integrate with other applications (AI, ML, analytics)
- Adhere to strong cybersecurity principles
- Avoid vendor lock-in
- Improve operations at scale





# The Solution: Multi-Site Application

#### Requirements:

- Monitor all stores
- Monitor refrigeration & freezers
- Real-time profitability tracking
- Weather info
- Manage fuel prices
- Schedule fuel refills
- Monitor the car wash
- Commission new stores from runtime









# Use Case - Addressing the Needs

To achieve their goals, EPIC Stores needs to do more with their data:

- Enhance efficiency
- Streamline operations
- Leverage edge and cloud, data analytics, and emerging technologies
- Use data to make better decisions
- Set up a Unified Namespace as the foundation for Digital Transformation





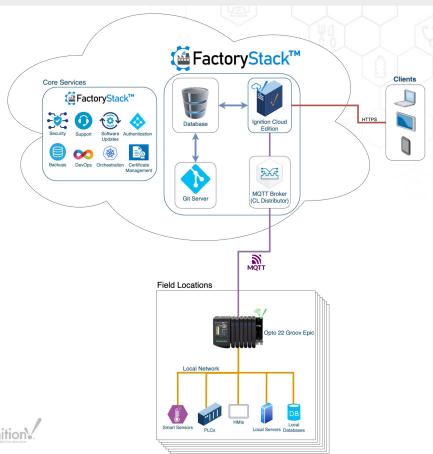


#### 4IR: Cloud Infrastructure

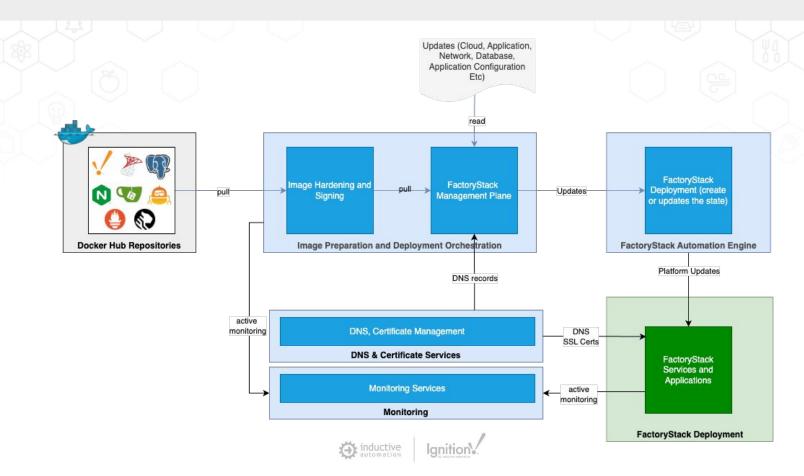
- Fully Managed FactoryStack<sup>TM</sup> including:
  - Ignition
  - MQTT
  - Database
  - High Availability
  - 24/7 Support, Remotely Monitored
  - Upgrades, Updates included
  - Hardened and secured
  - SSL Certificates
  - IdP with MFA Enforced
  - Integrated Git Server







# 4IR: Deployment Process

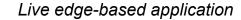


# Opto 22: Edge

#### Convenience Store edge functionality:

- Analog & digital sensors & actuators
- Real-time control
- Data modeling (UDTs)
- Local visualization
- Cybersecure
- Remote management
- Outbound, report-by-exception communications









#### Cirrus Link

- Cirrus Link brings MQTT and Sparkplug to Ignition
- Easily build a UNS in Ignition with Cirrus Link MQTT modules
  - MQTT Engine UNS View
  - MQTT Transmission UNSTag Publisher







**Ignition Platform** 

- Visualization of data and processes
- Build & view industrial applications on web browsers, mobile devices, touch panels, workstations, and more
- Unlimited tags and connections
- Highly scalable architectures



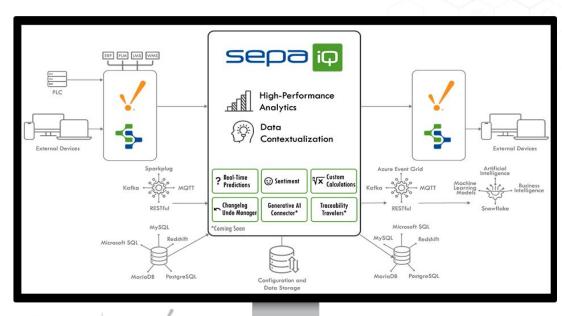




# Sepasoft

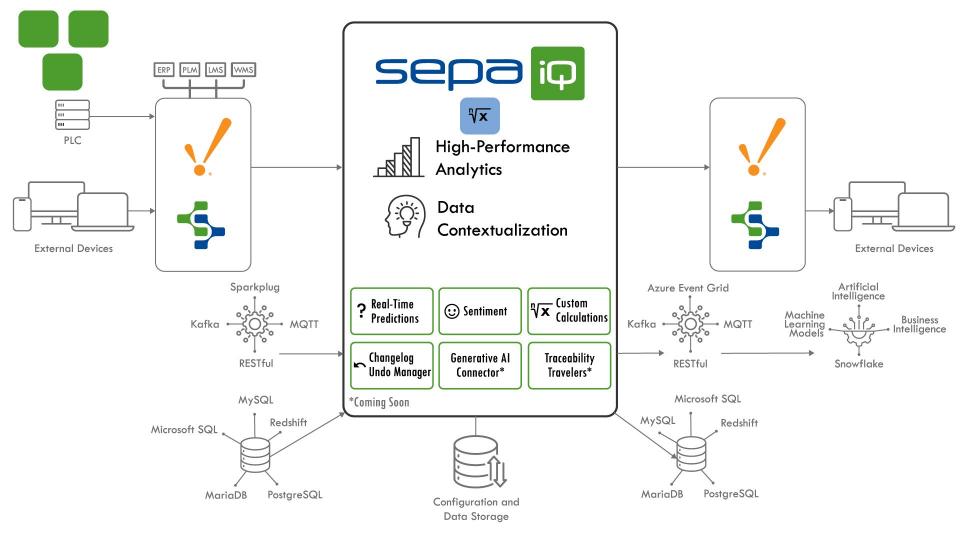
#### SepalQ Analytics Platform

- Connectivity with native support for Ignition
- Providing Data
   Contextualization
- High Performance
   Analytics including
   Machine Learning and Al
   Tools
- Scalable Architecture

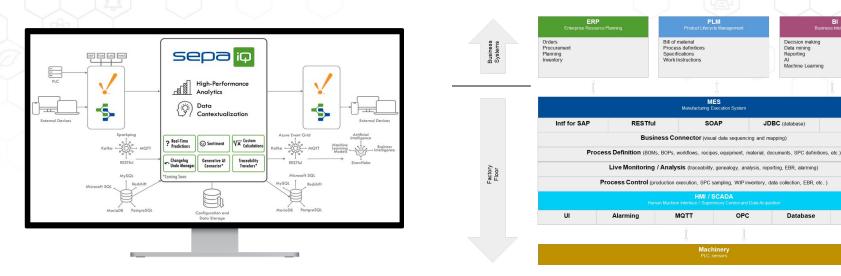








# Sepasoft



#### MES Capability on Ignition

- Leverage Data in Ignition for Definition, Control, and Tracking Processes
- **Integrated Graphical Tools**
- Full System Scripting Library Support

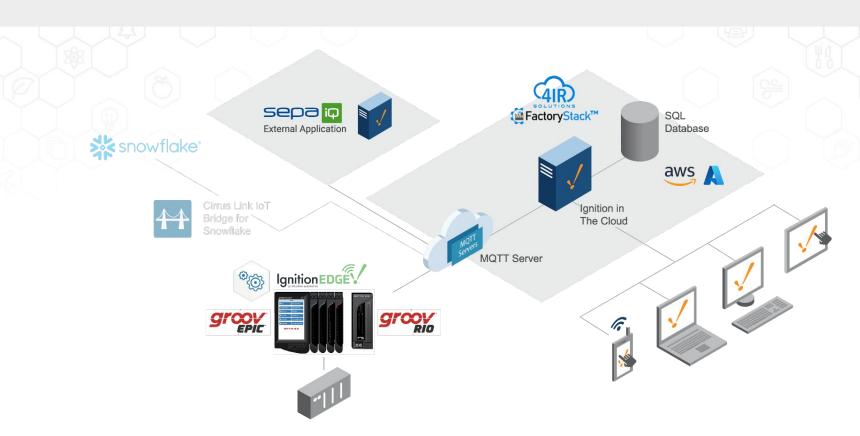




Flat File

Historian

Database









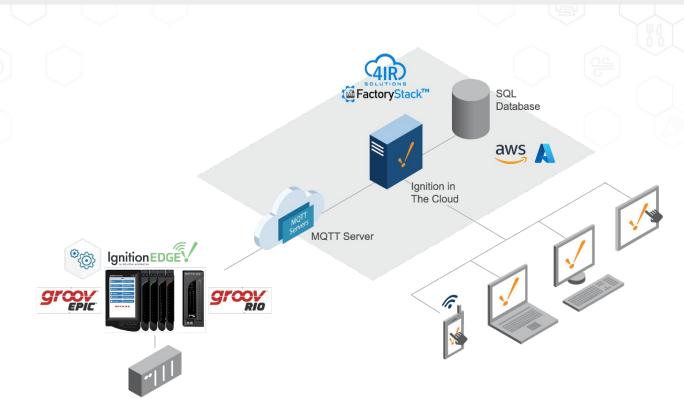












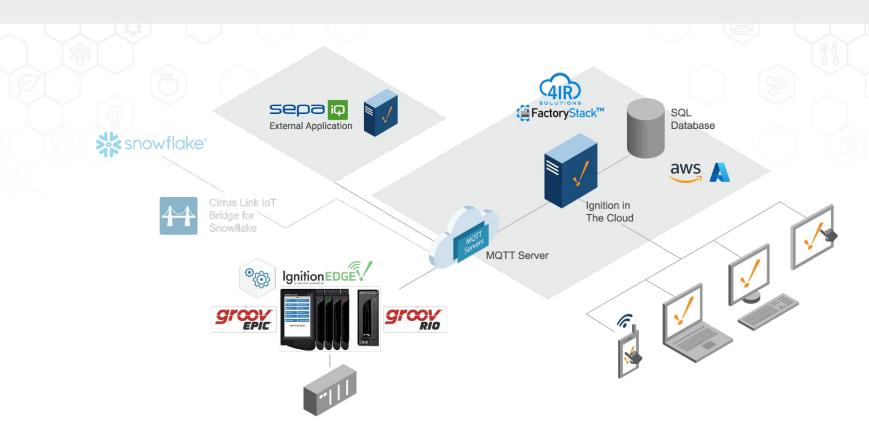








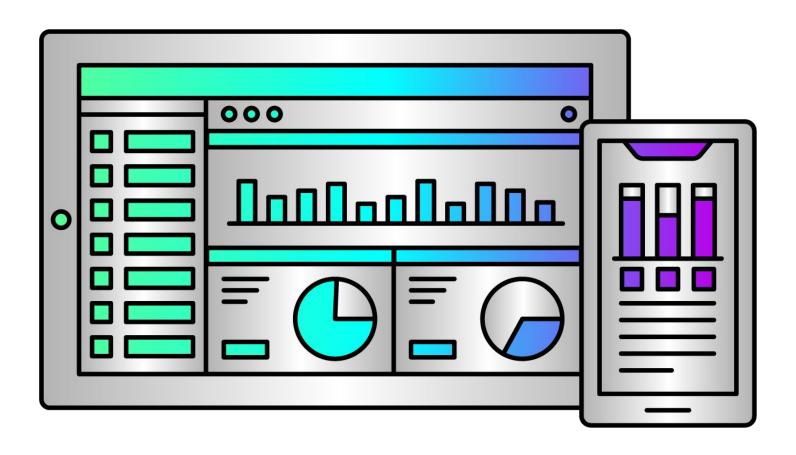








#### **Demonstration**



#### **Goals Achieved**

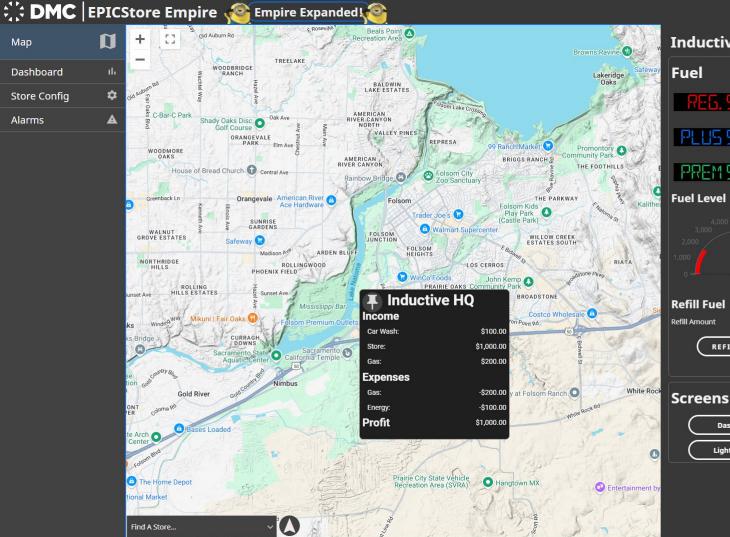
EPIC Stores achieved their goals by doing more with their data:

- Enhance efficiency
- Streamline operations
- Leverage edge and cloud, data analytics, and emerging technologies
- Use data to make better decisions
- Set up a Unified Namespace as the foundation for Digital Transformation









Map

Dashboard

Store Config

Alarms

ılı

\*

A

#### Inductive HQ() Car Wash Fuel WASH! **Fuel Level Ready To Start** Freezer Freezer Compressor kW Freezer Door Open false **Refill Fuel** Weather Refill Amount

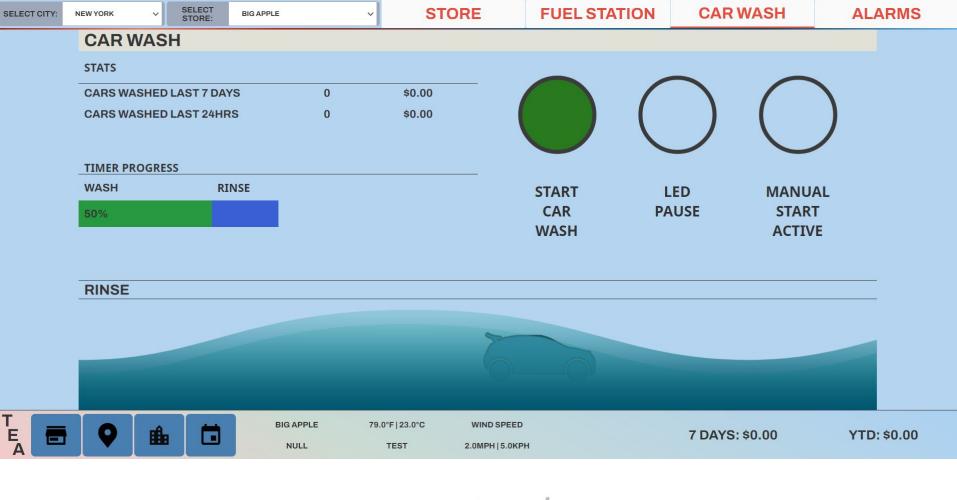
Summary

Sunny

Temperature F

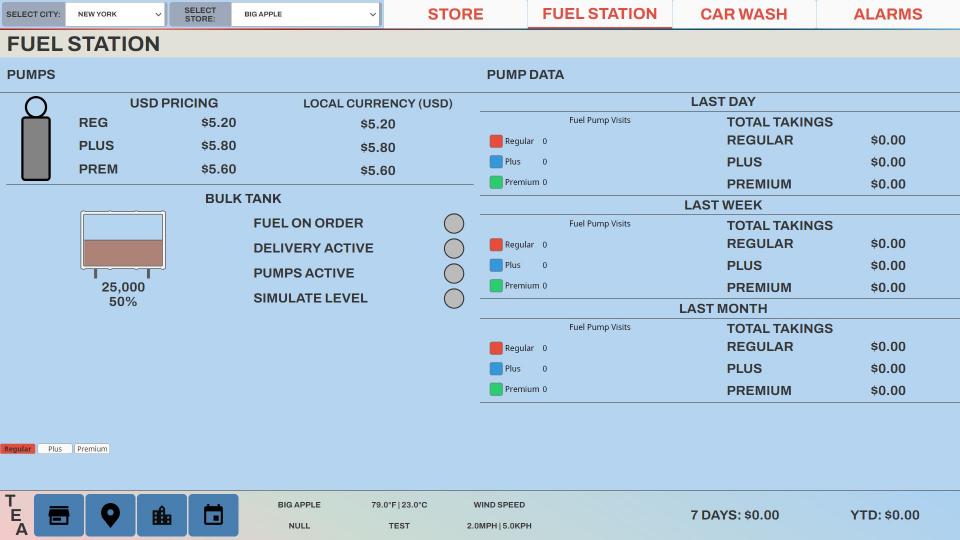
REFILL FUEL

**Dashboards Light Controls** 









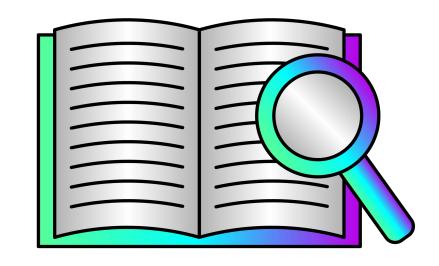
# Additional Capabilities Coming This Year

- Ignition 8.3
  - New Event Streams Module
  - New Perspective Module native drawing editor, form generator, and offline mode
  - New Gateway UI



#### **Learn More**

- Let's team up for Digital
   Transformation and UNS. Start by
   learning more about IA's Strategic
   Partner Cirrus Link Solutions and
   Solution Partners Opto 22, Sepasoft,
   and 4IR Solutions.
  - https://inductiveautomation.com/par tners/solution-partners/
  - https://inductiveautomation.com/ign ition/modules#cirrus-link-solutions



# Ignition

# Ready to Try Ignition for Yourself?

Download the full version for free at: inductiveautomation.com



inductiveuniversity.com

Ignition User Manual also available at:

docs.inductiveautomation.com

#### **International Distributors**

| Brazil                     | FG Automação Industrial | www.fgltda.com.br      |
|----------------------------|-------------------------|------------------------|
| Central America & Colombia | NV Tecnologías S.A.     | www.nvtecnologias.com  |
| France                     | AXONE-iO                | www.axone-io.com       |
| Italy                      | EFA Automazione S.p.A   | www.efa.it             |
| Middle East/North Africa   | Clarien Solutions       | www.clarien.solutions  |
| Norway & Sweden            | Autic System AS         | www.autic.no           |
| Sub-Saharan Africa         | Element8                | https://element8.co.za |
| Switzerland                | MPI Technologies        | https://mpi.ch         |
| Austria & Germany          | Relatech S.p.A.         | https://relatech.com   |

Contact International Distribution Manager Yegor Karnaukhov at: ykarnaukhov@inductiveautomation.com

#### **Questions & Answers**



Call us at: 800-266-7798 Email us at: accountservices@inductiveautomation.com



For Inductive Automation Australia, call: 1300 10 8088

# **Thank You**

Stay connected to us on social media & subscribe to news feeds:











