

Today's Speakers



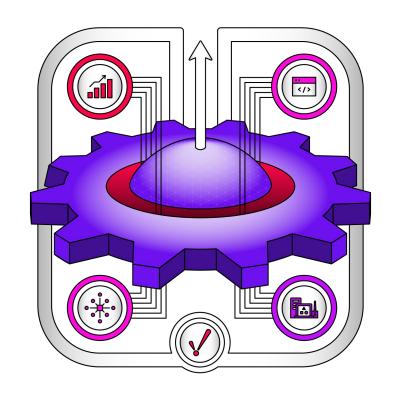
Travis Cox
Chief Technology
Evangelist
Inductive Automation



JC Harrison
Vice President of Products and
Operational Services
Roeslein and Associates

Agenda

- Digital Transformation
- Requirements for SCADA
- Ignition and Future Growth
- Ignition and Digital Transformation
- Integrators and the Ignition Ecosystem
- Q&A



About Inductive Automation

- We make software for problem solvers
- 300+ employees in the US & Australia
- 57% of the Fortune 100 and 44% of the Fortune 500 use Ignition
- Highly diversified customer base across many industries
- Ignition installations in 100+ countries
- 4,000+ integrators worldwide
- Profitable and independent with no outside investors





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

Empowering Enterprises

- Supporting Enterprises for More Than 20 Years
- Used and Trusted by Many Top Companies













Digital Transformation



Digital Transformation

- Involves process improvement through digital technology
- Every organization's Digital
 Transformation is unique
- More of a journey than a destination



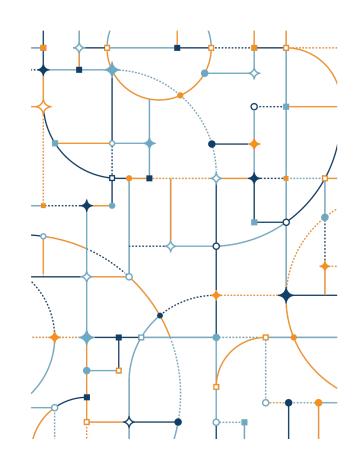
The Right Foundation for Digital Transformation

- Before attempting Digital
 Transformation, you first need a strong, modern SCADA system as your foundation.
 - "Data Is King"
 - SCADA leverages the OT data you need for Digital Transformation



Vital SCADA Requirements

- Connectivity to the plant floor
- Monitor, gather, and process real-time data
- Control processes locally and remotely
- Designer to build applications
- Powerful visualization
- Historian and store & forward
- Alarming
- Reporting
- Mission-critical (redundancy)



- Unlimited licensing
- Cross-platform and deployable anywhere
- Easy to install / upgrade
- Included designer
- Ability to connect to more devices, create additional projects, and more.
- Project changes deployed instantly
- Industrial-grade security
- OT / IT convergence
- HTML5 visualization
- Ability to integrate with business systems
- Additional tools



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- Sold by the server
- Unlimited tags, clients, connections, designers, scalability
- Variety of architectures and real-world scenarios

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- Works on any OS
- Connect to any device
- Connect your entire enterprise

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- Only takes a few minutes
- Fully backwards compatible

Continuously solve pain points and future-proof your system.

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Development tools, component libraries, SQL integration, unlimited clients, drag-and-drop design – and more

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 Build data models and templates easily (object-oriented design)

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No need to restart.

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- TLS
- Authentication
- Auditing
- Customizable security settings
- Testing by trusted security providers

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- Leverage SQL databases
- Connect to MES and ERP systems
- IT can manage infrastructure

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 Native apps for phones and tablets that work smoothly and look amazing

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Integrate with ERP, CMMS, and more

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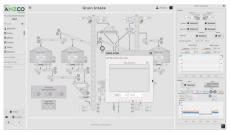
- Forum
- Documentation
- Inductive University
- Ignition Exchange

ANZCO Upgrades To Enterprise SCADA

- ANZCO needed to update and standardize control systems.
- Perspective supported existing applications without altering PLC code
- Upgraded their system to Ignition 8.1 enterprise-wide without stopping the plant
- Security system with ANZCO's Active
 Directory and Ignition's identity providers
- Gateway network allowed for central control and more users
- ERP system integration and more









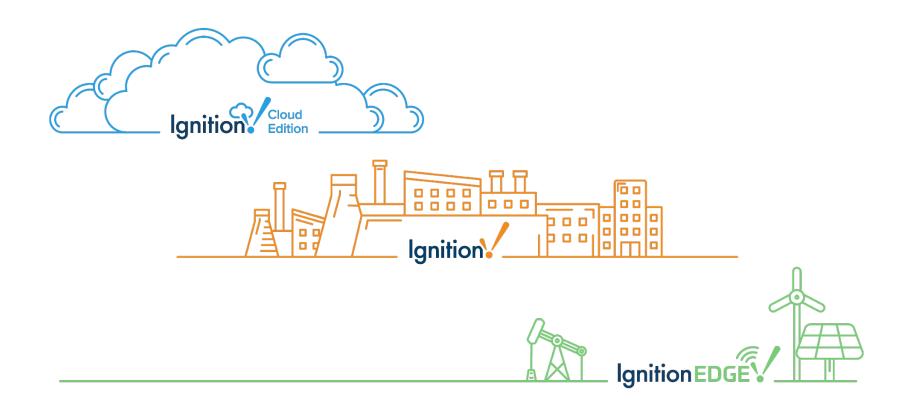


Ignition and Digital Transformation

In addition to being a state-of-the-art SCADA system, however, Ignition also lays the foundation for Digital Transformation.



Solutions from Edge to Cloud



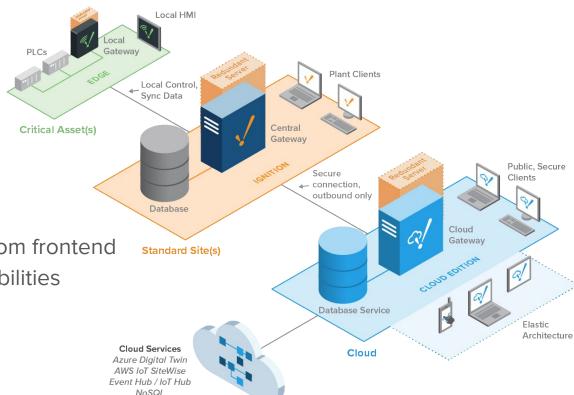
Scalable Architectures



Leverage the edge

Breaking apart backend from frontend

Endless architecture possibilities



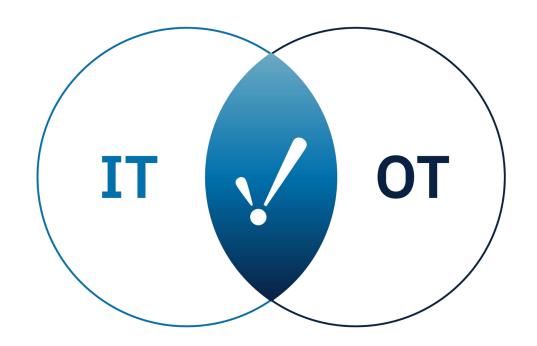
Support for UNS and Digital Twins

- Leverage new smart sensors and technologies
- Build data models at the edge
 - Single source of truth for data
- Streamlined data pipeline
- Leverage MQTT and cloud connectivity
 - AWS IoT SiteWise
 - Azure Digital Twin



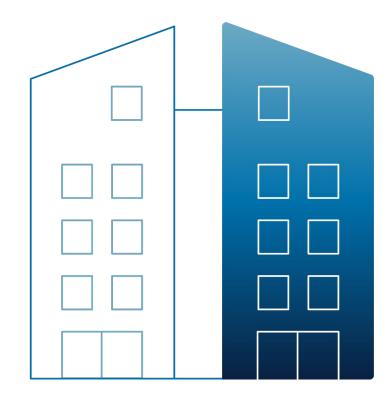
Easily Integrate with IT

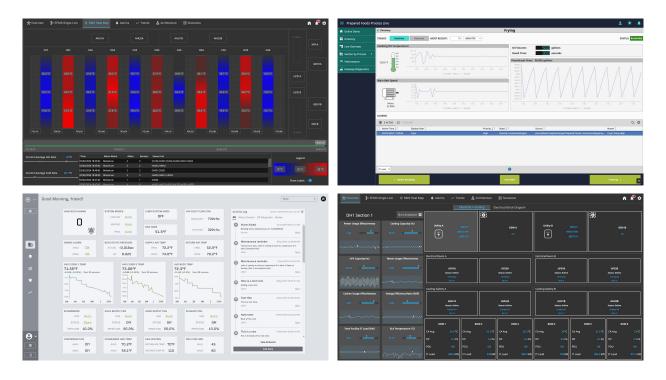
- With open standards
- Meet the unique requirements of both OT and IT
- Everyone sees the same data

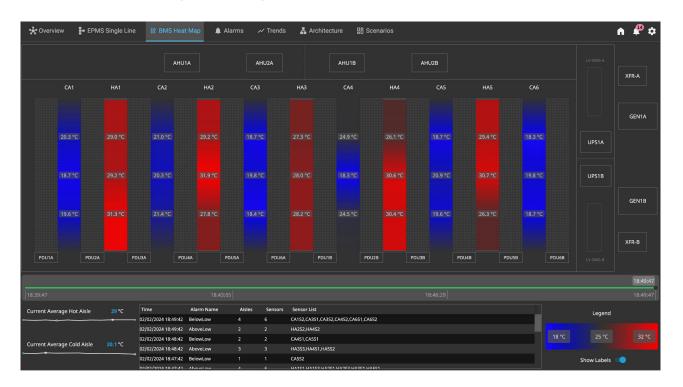


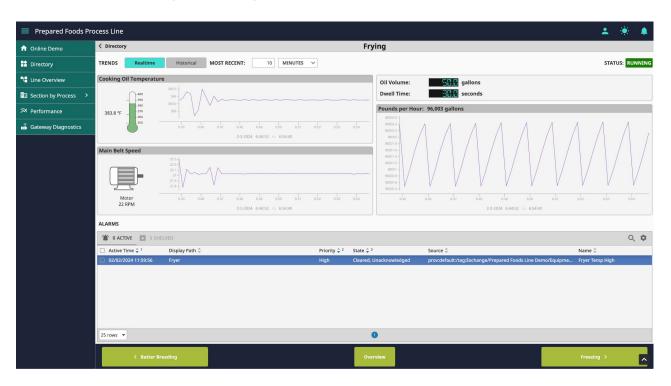
Enterprise Management

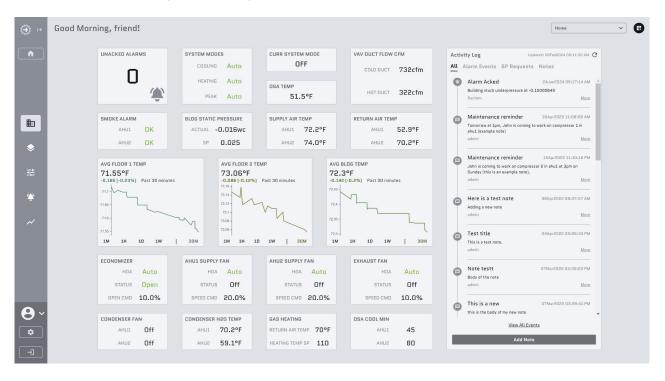
- Enterprise Administration Module (EAM)
- Containers and orchestration

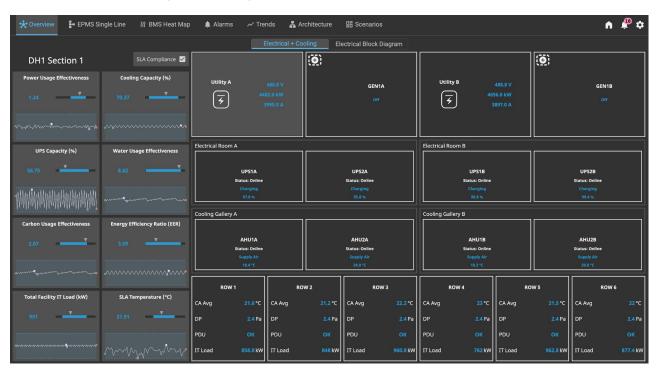






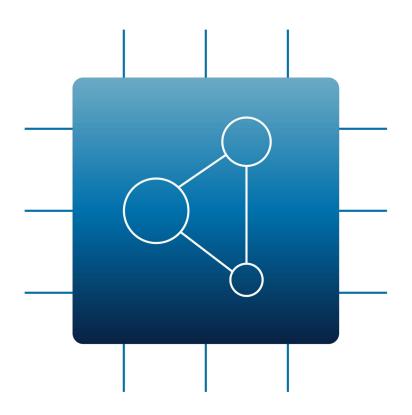






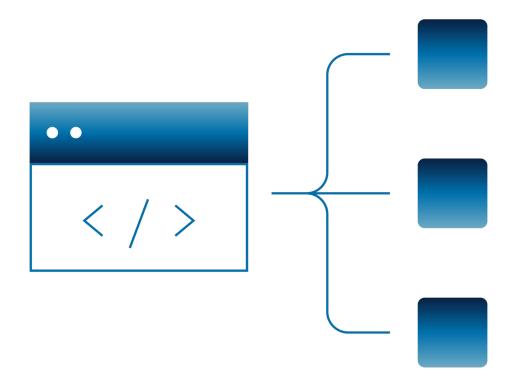
Ignition for Analytics and AI/ML

- Low-code tools
 - Analyzing and visualizing data
- Machine Learning Manager
- Built-in Python scripting libraries
- Cloud Injector Modules from Cirrus Link
 - Leverage third-party analytics and ML tools on leading cloud platforms



Built-In SDK for True Extensibility

 Develop new modules to extend what Ignition can do.



Saint-Gobain PAM's Digital Transformation

- From paper-based processes to digital
- Open standards for connectivity
- Improved product traceability
- Integrating SCADA, MES, Track and Trace, and Quality Control
- RFID tags
- Responsive HMIs
- Testing and rollout of new systems without impacting productivity





Ignition Ecosystem

 An ecosystem of integrators and partners to help solve challenges.



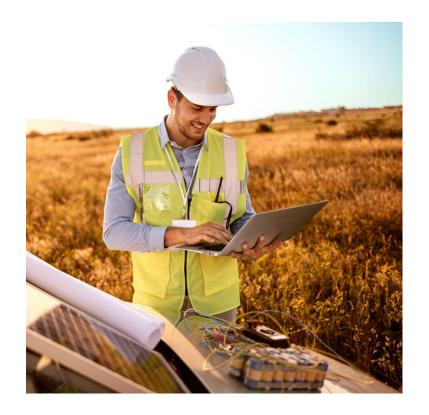
Ignition Integrators

- 4,000+ integrators worldwide
- Certification Program
- Find An Integrator
- Verified Experience



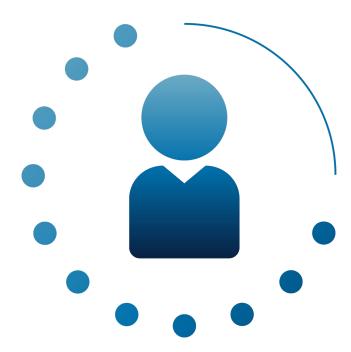
Ignition Integrators

- Digital Transformation is a journey.
 Integrators are the guides who help you get there.
- They understand the plant floor and how to best use Ignition
- They can leverage Ignition for SCADA and Digital Transformation



Ignition Integrators

- OT-first Digital Transformation
- Essential to your success



JC Harrison – Roeslein and Associates

- Systems Engineer with over 28 years of automation, SCADA, MES, data collection, and electrical engineering experience
- Over 17 years at Roeslein, which is one of the top-selling Ignition integrators in the world
- Led many standalone and enterprise deployments of Ignition systems
- Projects in many industries: food & beverage, alternative energy, packaging, powered vehicles, and more

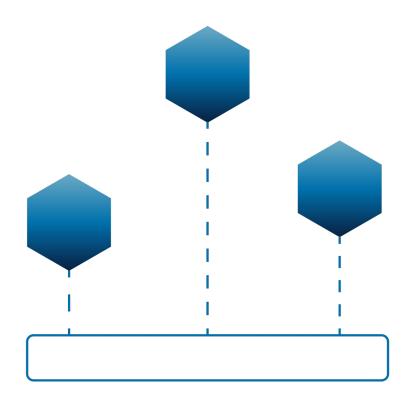


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Website: https://roeslein.com/

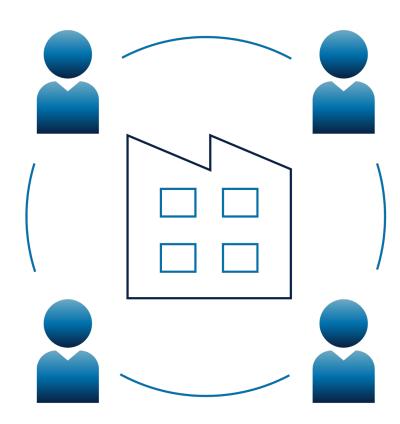
The SCADA Foundation

- Data-driven decisions are only as good as the source data
- Connecting to machine/process data should be the first step in building a SCADA/enterprise system.
 That first step should be fully defined.
- The software that connects to the machines on the plant floor should serve as the central hub for all the software that gets layered on a plant/enterprise solution.
- That software should be as pain-free as possible and play nicely in all ways with other softwares and databases



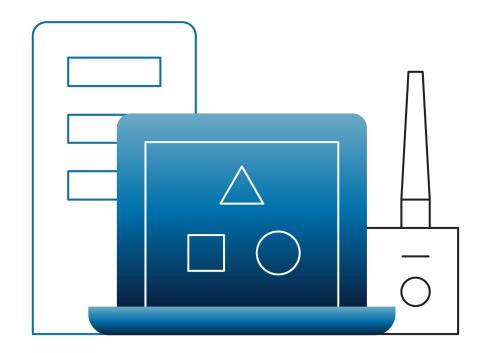
The End User's Team

- For a single plant solution, an End User can rely on integrators to support and maintain the system
- For an enterprise solution (more than 3 plants), the End User really needs to build its own team
- An integrator who truly wants the best for an enterprise End User, should have at its goal that the End User can maintain and sustain the enterprise system



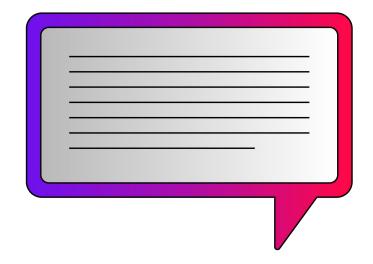
Summary

- Build a SCADA system that is pain-free and that enterprise software packages can work freely with
- Strongly encourage Enterprise OEMs to build their own data team



How Has Ignition Changed Things?

- What has this done for your business?
- What has this done for your engineers?
- How has this changed your thought process in approaching customers?



The Ignition Ecosystem

- Certified Ignition Integrators
- Inductive Automation Australia
- International Distributors throughout the world
- Strategic Partners, Solution
 Partners, and Alliance Partners
- Educational Engagement Program
- Community Impact Program
- Module SDK
- Training Program
- Inductive University



Ignition and Digital Transformation

- Start with SCADA as a foundation
- Ignition lays the foundation for future growth
- Ignition lays the foundation for true digital transformation in addition to being a state-of-the-art SCADA system



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

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Questions & Comments



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