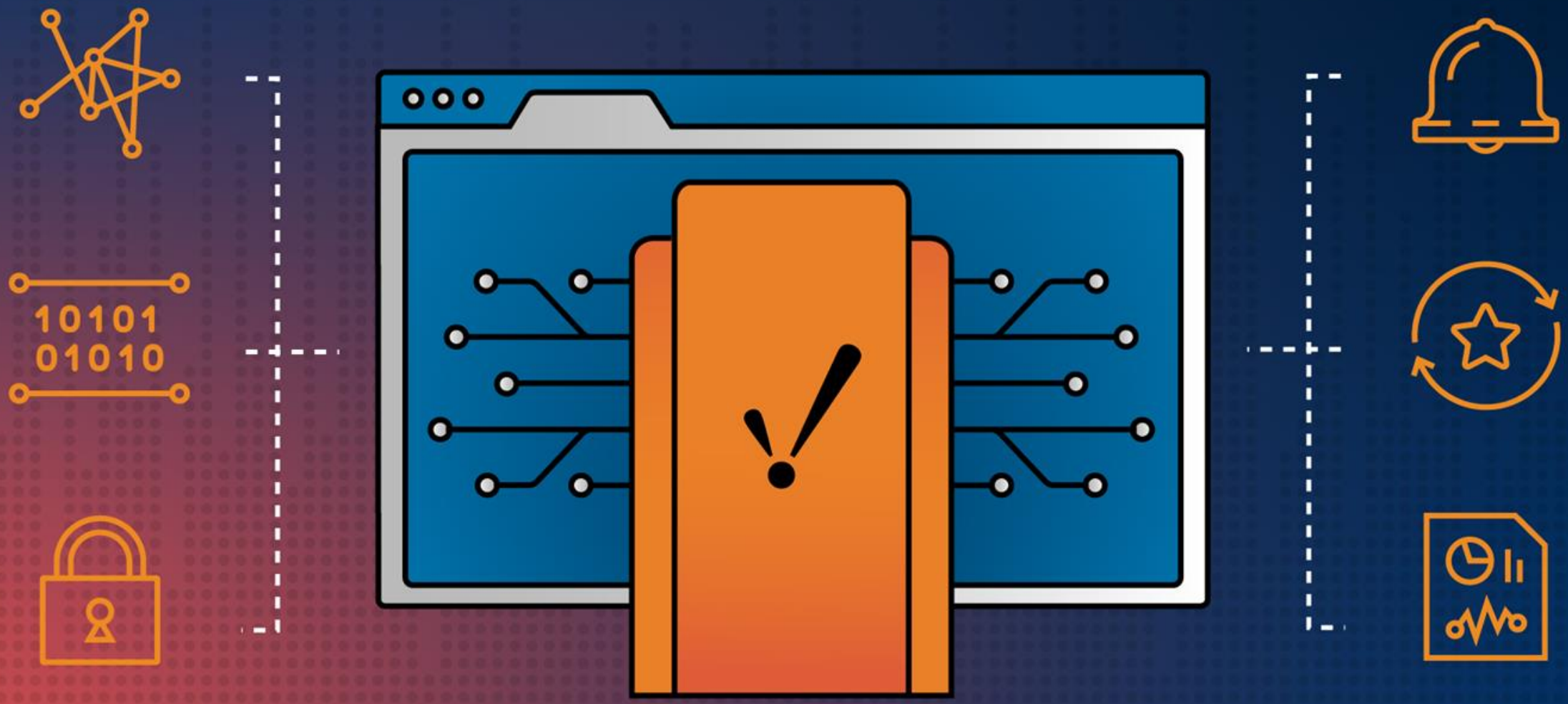
New Ignition Features In Action

Highlights from the Ignition 8.1 Release Trains



Presenters

Don Pearson

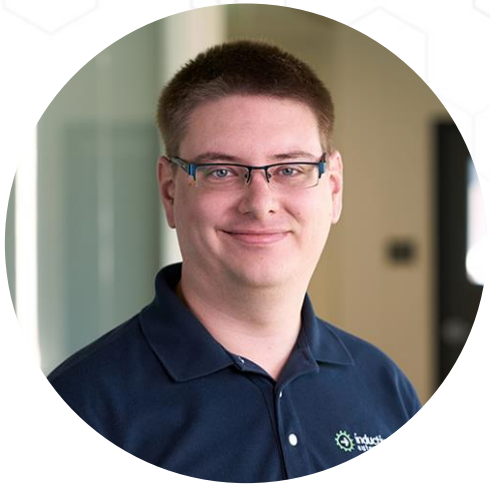
Chief Strategy Officer

Inductive Automation

Kevin McClusky

Co-Director of Sales Engineering

Inductive Automation



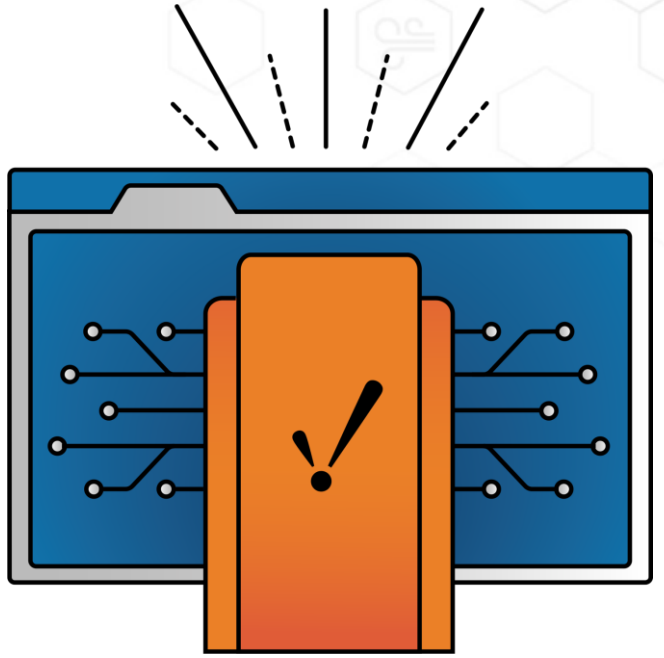
Matthew Raybourn

Sales Engineer

Inductive Automation

Agenda

- Introduction to Ignition
- Inductive Automation's Upgrade Philosophy
- The Release Train
- New Feature Highlights
- Audience Q&A



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by inductive automation
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's Upgrade Philosophy

Ignition is Improving All the Time

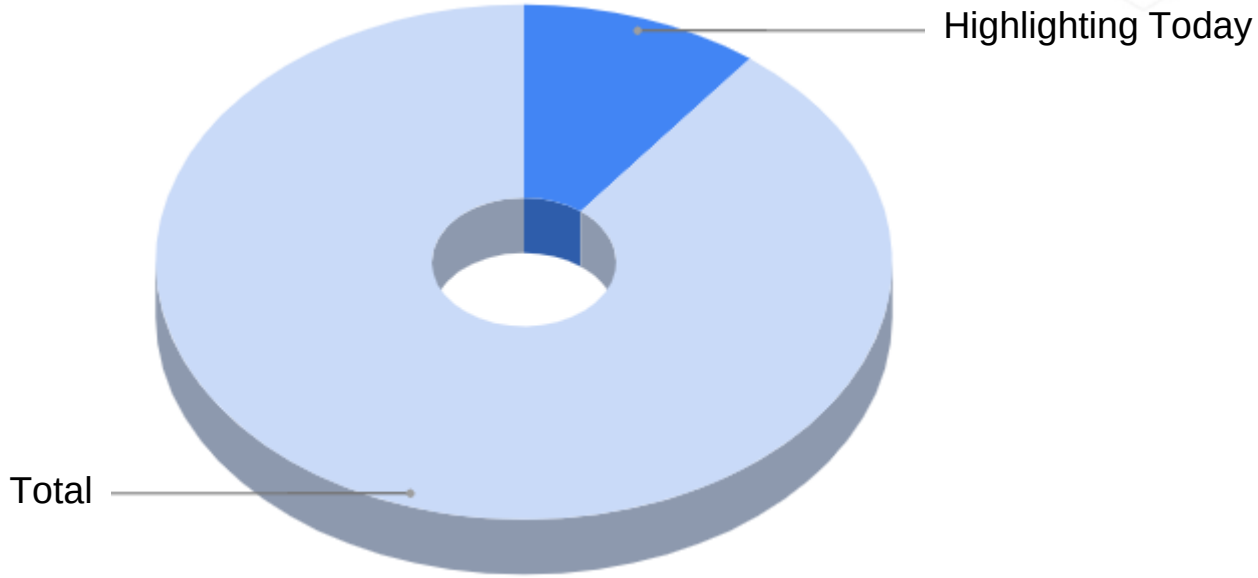
- Instead of the more traditional schedule of one big release every few years, Ignition is constantly evolving.
- Many features and changes come from the Ignition community.
- Small upgrades can have large impacts.

The Release Train

Ignition 8.1.0 — 8.1.19

- Every 5 weeks, the latest version of Ignition introduces new features, updates, and improvements.
- Since Ignition 8.1, approximately 170 new features have been added to the platform.
- With each new release, we publish a blog post outlining the most critical upgrades, along with release notes that go into even more detail.

Feature Highlights



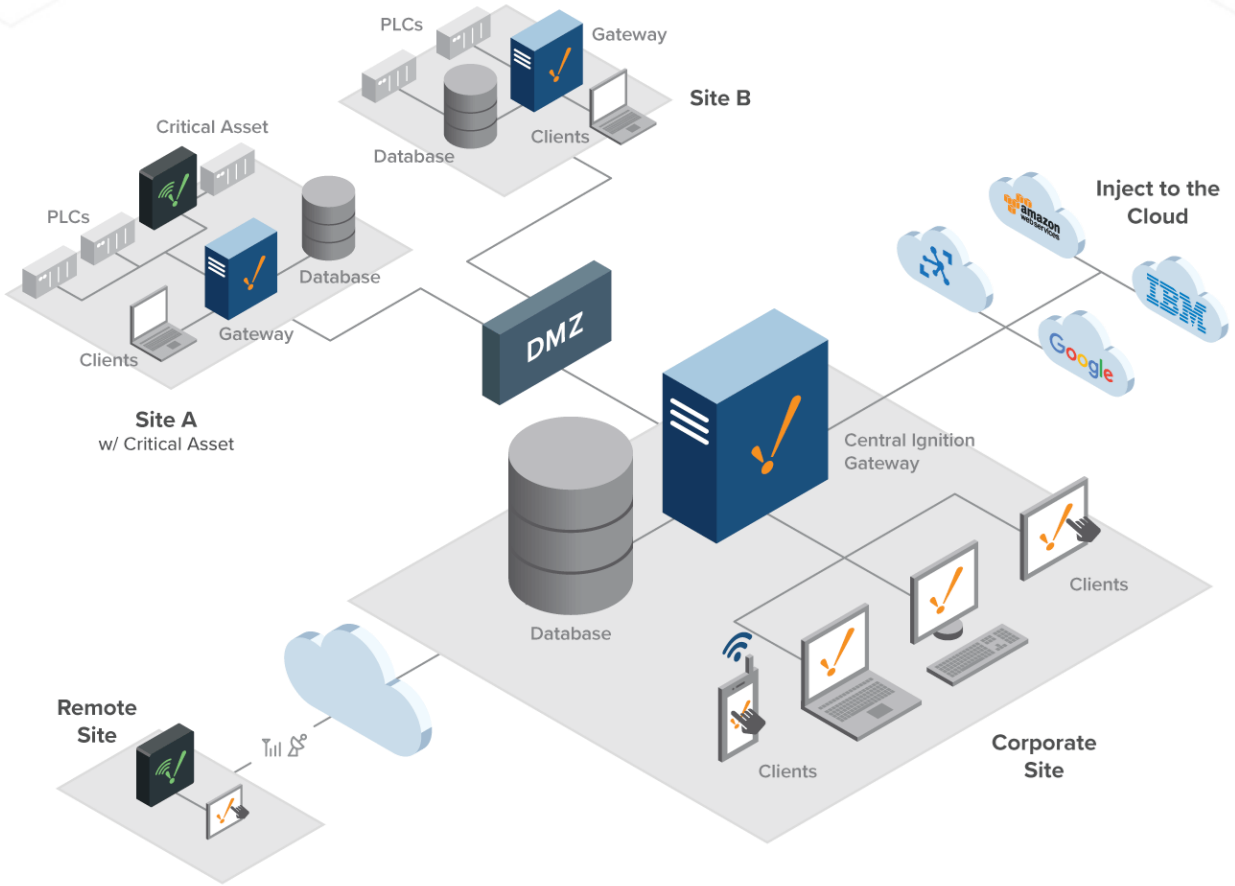
New Features - Ignition 8.1.0 - 8.1.19

Brief Ignition Overview

Basic Architecture

Brief Ignition Overview

Enterprise / IIoT Architecture



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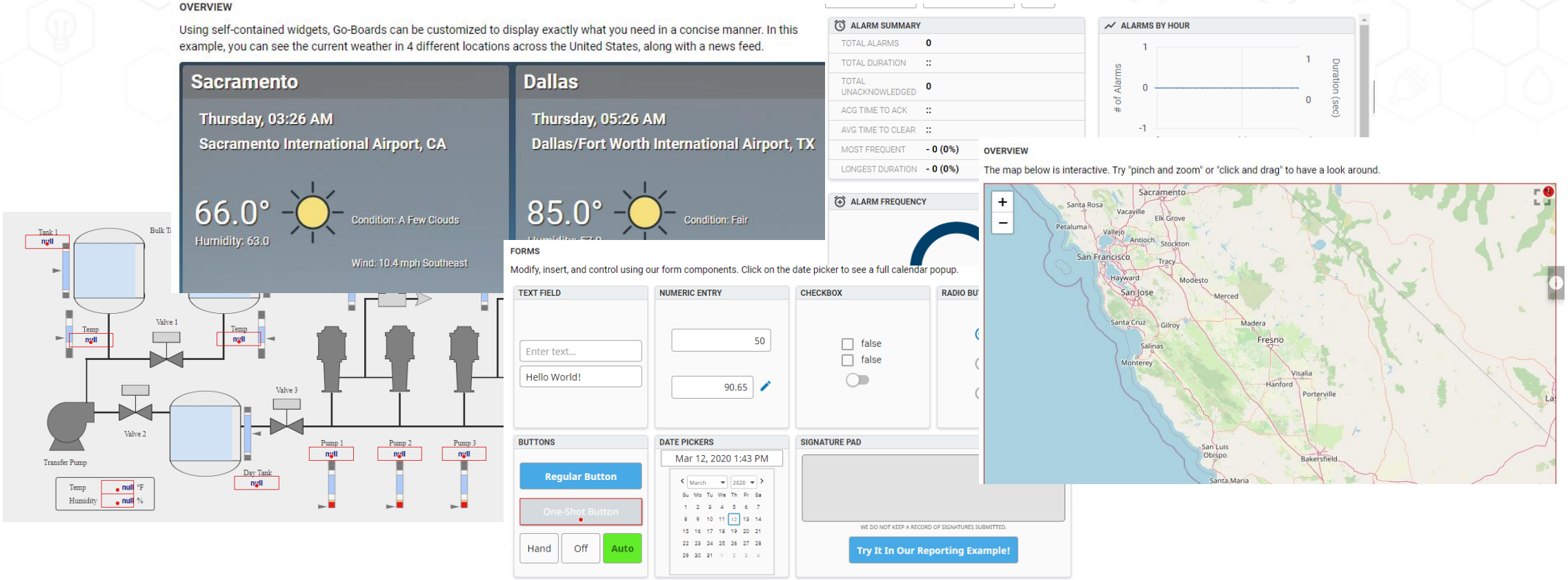
Brief Ignition Overview

Ignition Demo Applications

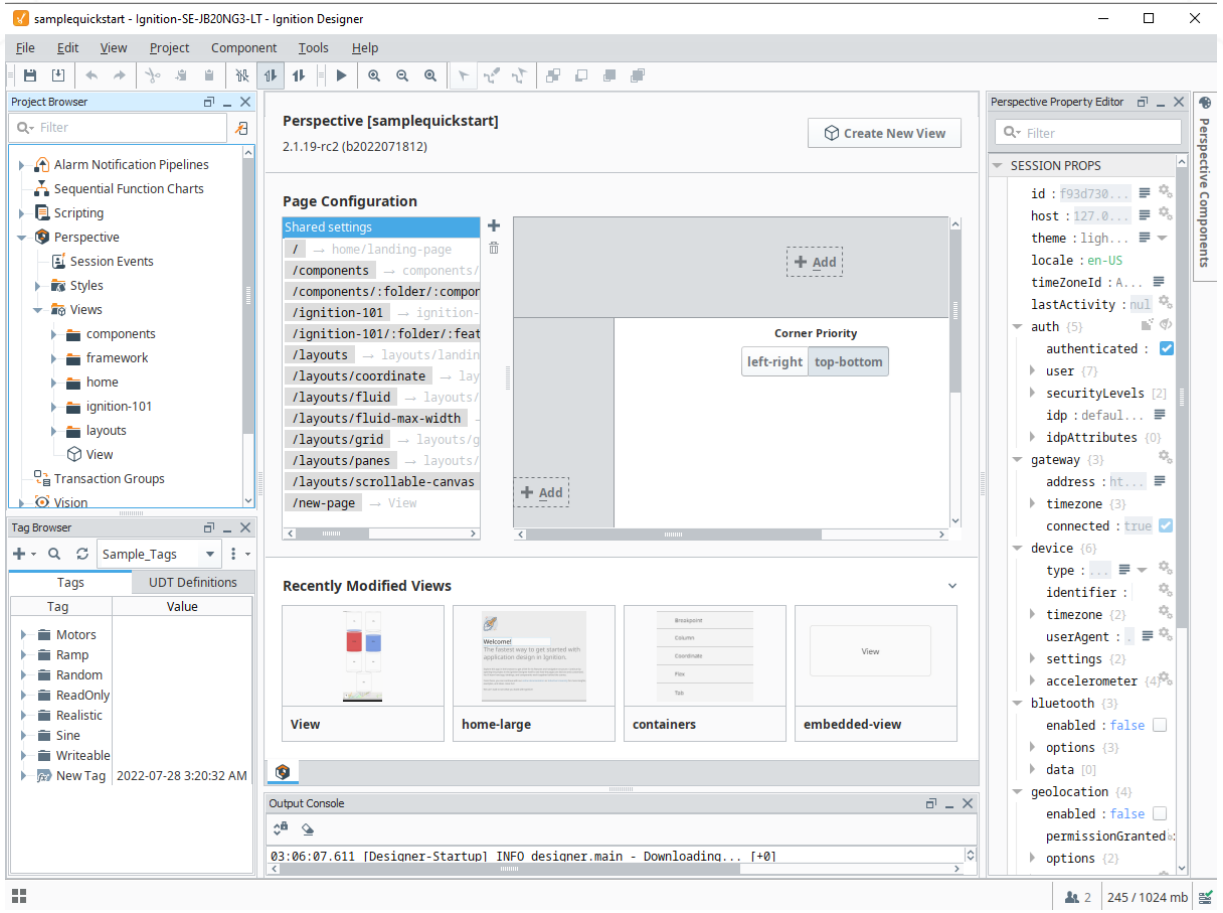


Brief Ignition Overview

Basic Architecture

Brief Ignition Overview

Ignition Designer



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Ignition 8.1 Highlights

Visualization

- More easily and dynamically change the look and feel of a project
- Add new functionality through visual elements

Ignition 8.1 Highlights

Visualization Highlights:

- Equipment Schedule Component
  - Create/view schedules for specific equipment
- Perspective Pipes
  - Innovative tool for drawing pipes
- Numerical Locale Support
  - Format numbers based on session locale
- Themes Dropdown Selector
  - Select custom themes from a simple dropdown menu

Ignition 8.1 Highlights

Visualization Highlights:

- Mapping - GeoJSON
  - Expanded format support in Map Component
- Split Container
  - Display two child elements divided by a user-adjustable slider

Gateway Tool Highlights:

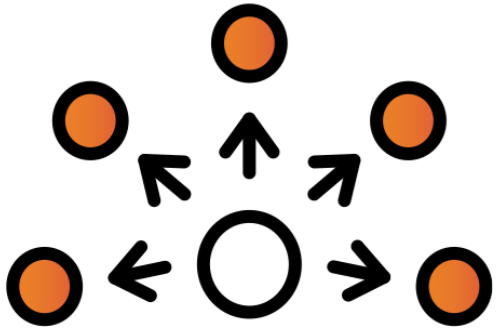
- Metrics Dashboard
  - Drag and drop pre-defined metrics to build out a custom dashboard

Demo

Ignition 8.1 Highlights

Designer

- Ignition comes with a built-in design environment.
- Improvements to the platform aren't only meant for the plant floor, they're also for accelerating the development process.



Ignition 8.1 Highlights

Designer Highlights:

- Tag Report Tool
  - Generate report for all tags on a system that meet specific criteria
- Perspective Tooltips
  - Add tooltips to any component
  - Use custom text with customizable styling
- Resource Documentation
  - "Resource documentation" now applies to all resources, whereas query and report resources were previously unique

Ignition 8.1 Highlights

Designer Highlights:

- Diagnostic Tags
  - Each driver now includes diagnostic tags
- Improved Tag Editor
  - Requires fewer clicks
  - Keeps relevant information visible
  - Category panes
  - Updated editable areas

Demo

Ignition 8.1 Highlights

Scripting

- Since 8.1, we've added a whole lot of features to make writing scripts easier, but more importantly *faster*.
- Features in the past few versions of Ignition have been a big leap forward in increasing development speed.

Ignition 8.1 Highlights

Scripting Highlights:

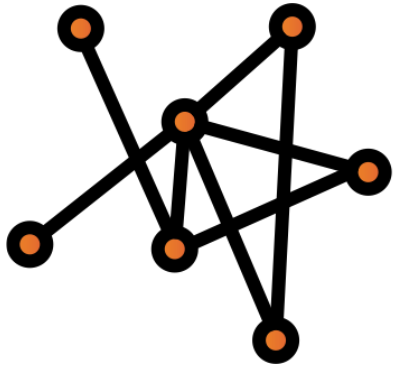
- Updated Script Editor
  - New interface and features including find-and-replace, code folding, and visible whitespace
- Autocomplete
  - Gives hints for project library scripts
  - Customizable scope for hints
- Scheduled Scripting Events
  - Trigger an event to execute repeatedly on a specified schedule
- Dock Configuration
  - Can alter dock configuration on the fly

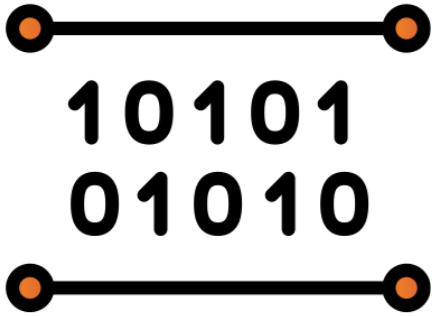
Demo

Ignition 8.1 Highlights

Supporting Technology Changes

- Ignition's feature set is improving all the time.
- Underlying changes to some of Ignition's supported protocols and subsystems.





Ignition 8.1 Highlights

Data Collection Highlights:

- Authentication Challenge
  - Operators can document supervisor approval without logging out
- Cache and Share
  - Consolidates identical polling tasks to optimize data queries
- Third-Party OPC UA Support
  - Supports OPC UA redundancy for third-party clients
- Project Update
  - Built-in parameters report what changed in a project and who was responsible - For version control support and advanced auditing

Demo

Inductive Automation's Upgrade Philosophy

Ignition is Improving All the Time

- We invite your feedback about what you'd like to see in upcoming releases.
- https://ideas.inductiveautomation.com/ignition-features-and-ideas

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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

The 10th Annual Ignition Community Conference

ICC X

XPERIENCE & XPLORE

In-Person: Sept. 20-21 | Virtual: Oct. 3-5

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