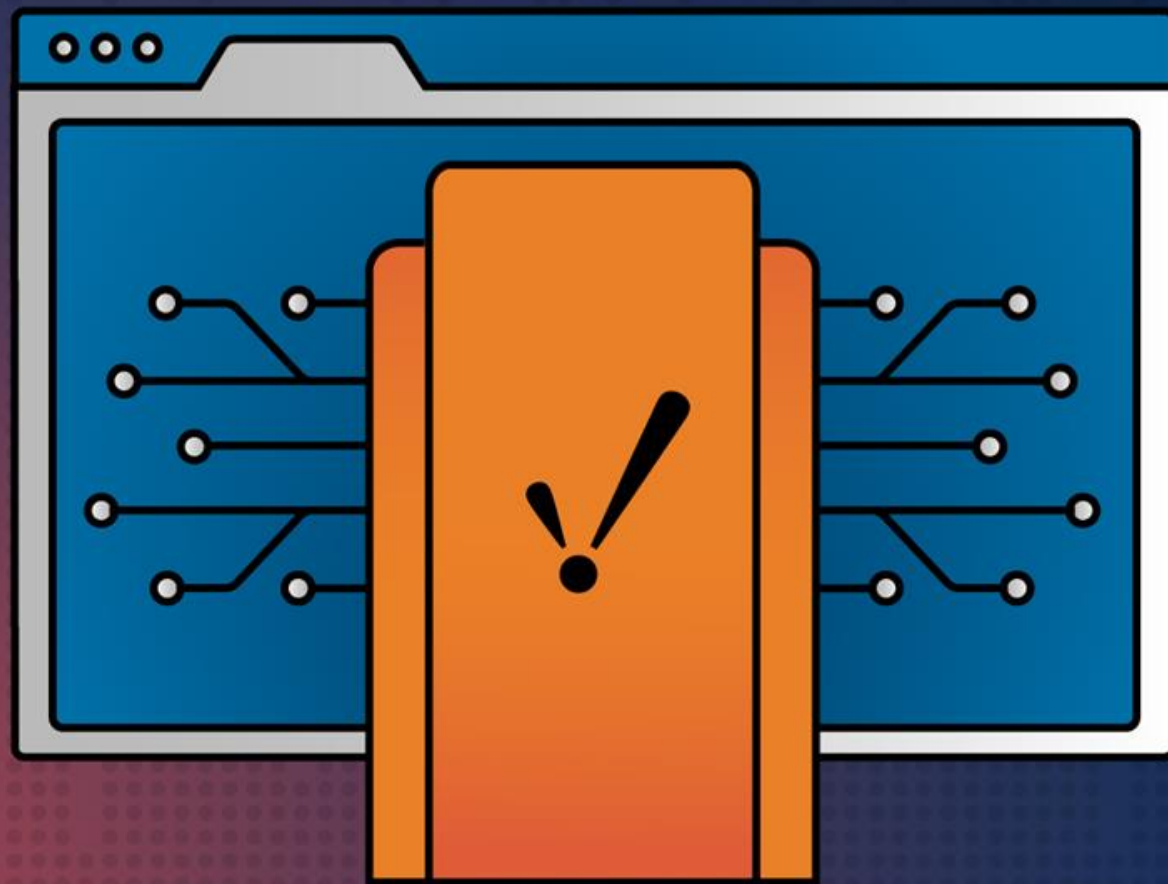


New Ignition Features In Action

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*

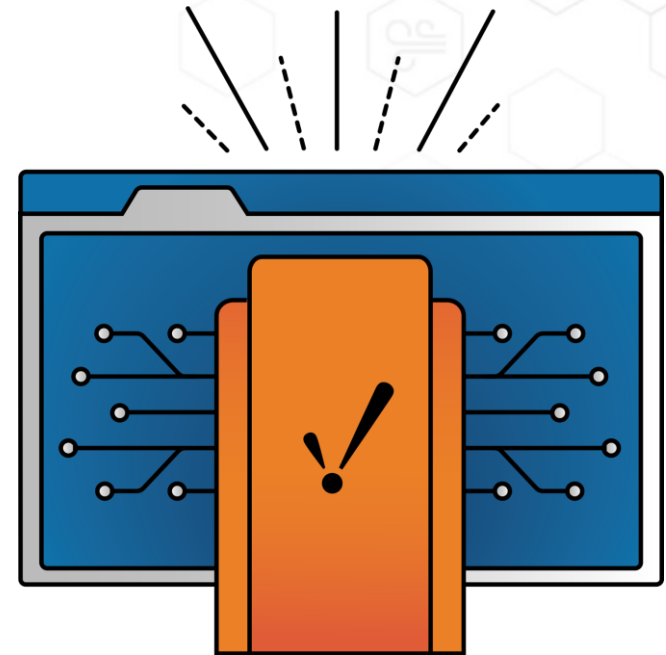


Matthew Raybourn

*Sales Engineer
Inductive Automation*

Agenda

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



Ignition!

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.

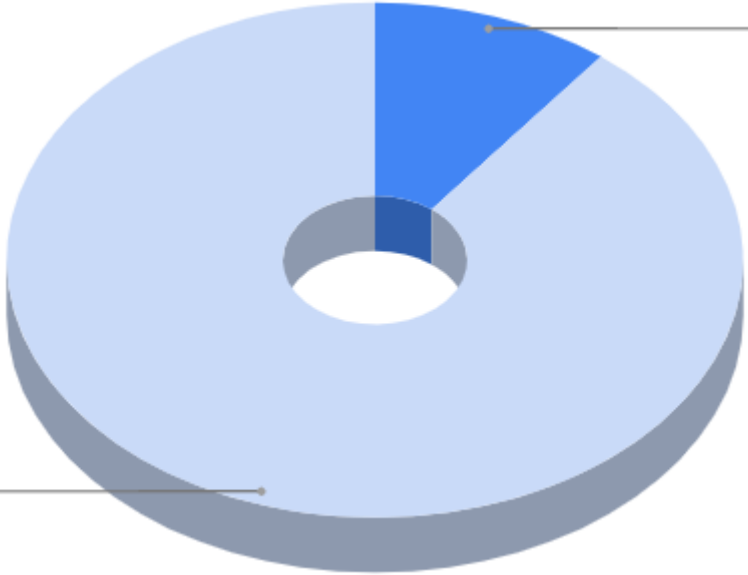
The Release Train

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



Highlighting Today

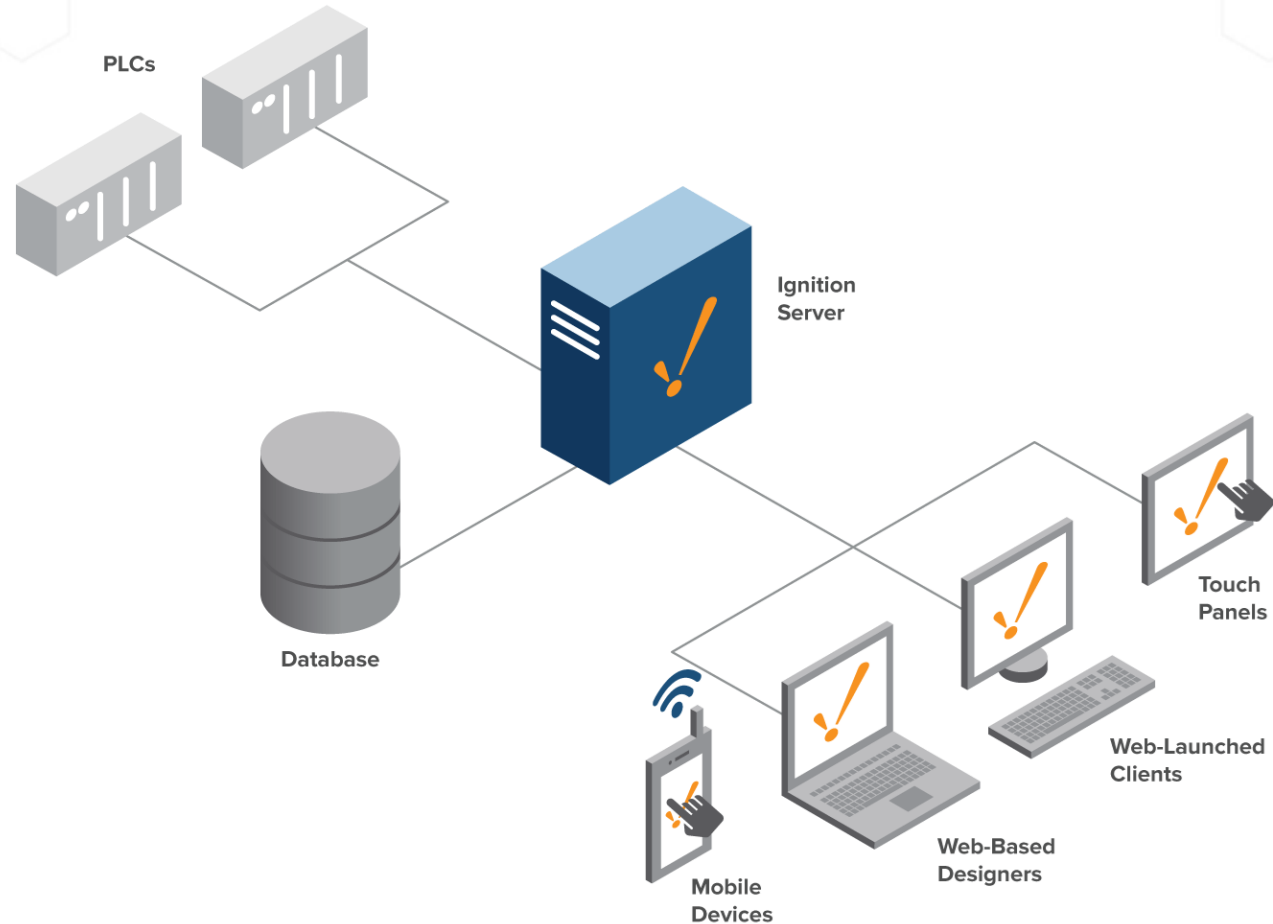
Total



New Features - Ignition 8.1.0 - 8.1.19

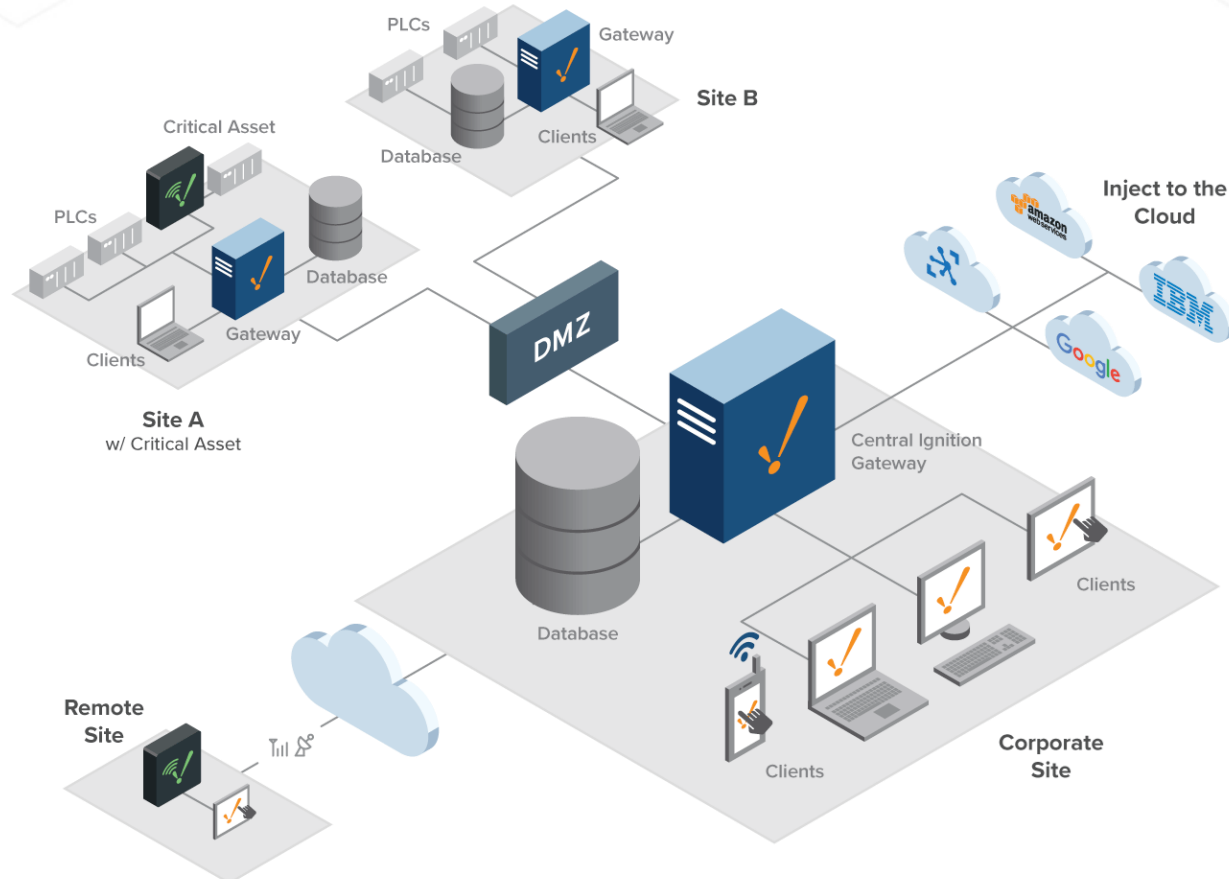
Brief Ignition Overview

Basic Architecture



Brief Ignition Overview

Enterprise / IIoT Architecture



Brief Ignition Overview


Ignition Demo Applications

OVERVIEW

Using self-contained widgets, Go-Boards can be customized to display exactly what you need in a concise manner. In this example, you can see the current weather in 4 different locations across the United States, along with a news feed.


Sacramento

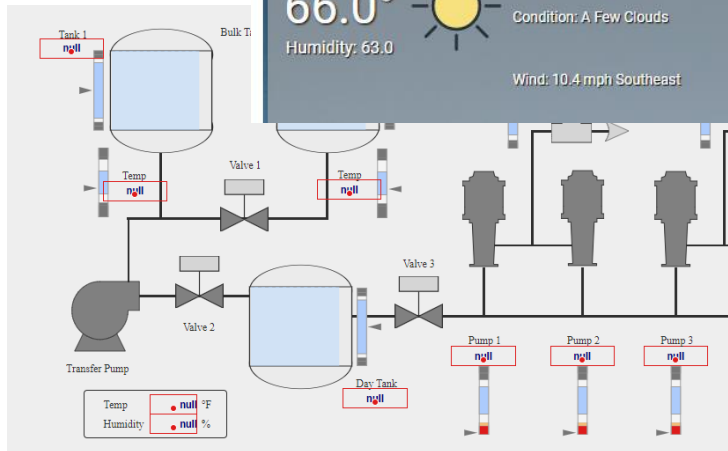
Thursday, 03:26 AM
Sacramento International Airport, CA

66.0°  Condition: A Few Clouds
Humidity: 63.0
Wind: 10.4 mph Southeast

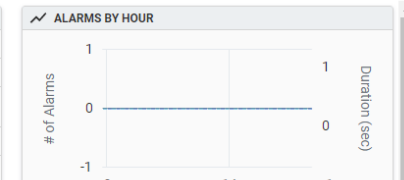
Dallas

Thursday, 05:26 AM
Dallas/Fort Worth International Airport, TX

85.0°  Condition: Fair
Humidity: 57.0
Wind: 10.4 mph Southeast

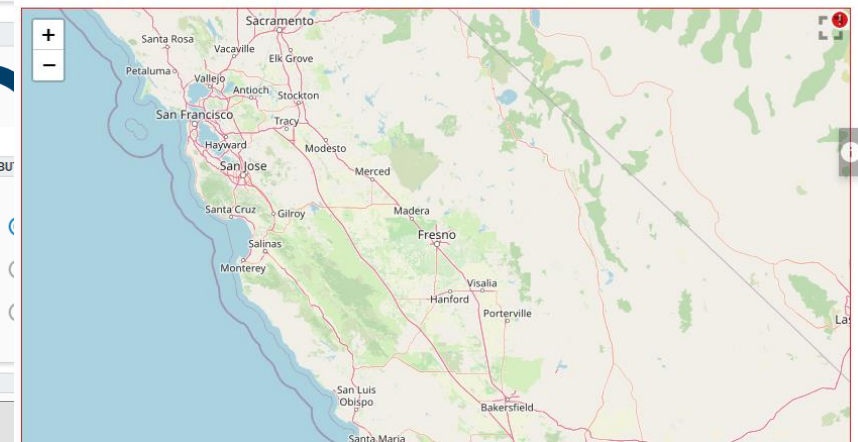


ALARM SUMMARY	
TOTAL ALARMS	0
TOTAL DURATION	::
TOTAL UNACKNOWLEDGED	0
ACG TIME TO ACK	::
AVG TIME TO CLEAR	::
MOST FREQUENT	- 0 (0%)
LONGEST DURATION	- 0 (0%)



OVERVIEW

The map below is interactive. Try "pinch and zoom" or "click and drag" to have a look around.



FORMS

Modify, insert, and control using our form components. Click on the date picker to see a full calendar popup.

TEXT FIELD

Enter text...
Hello World!

NUMERIC ENTRY

50
90.65

CHECKBOX

false
 false

RADIO BU

BUTTONS

Regular Button
One-Shot Button
Hand Off Auto

DATE PICKERS

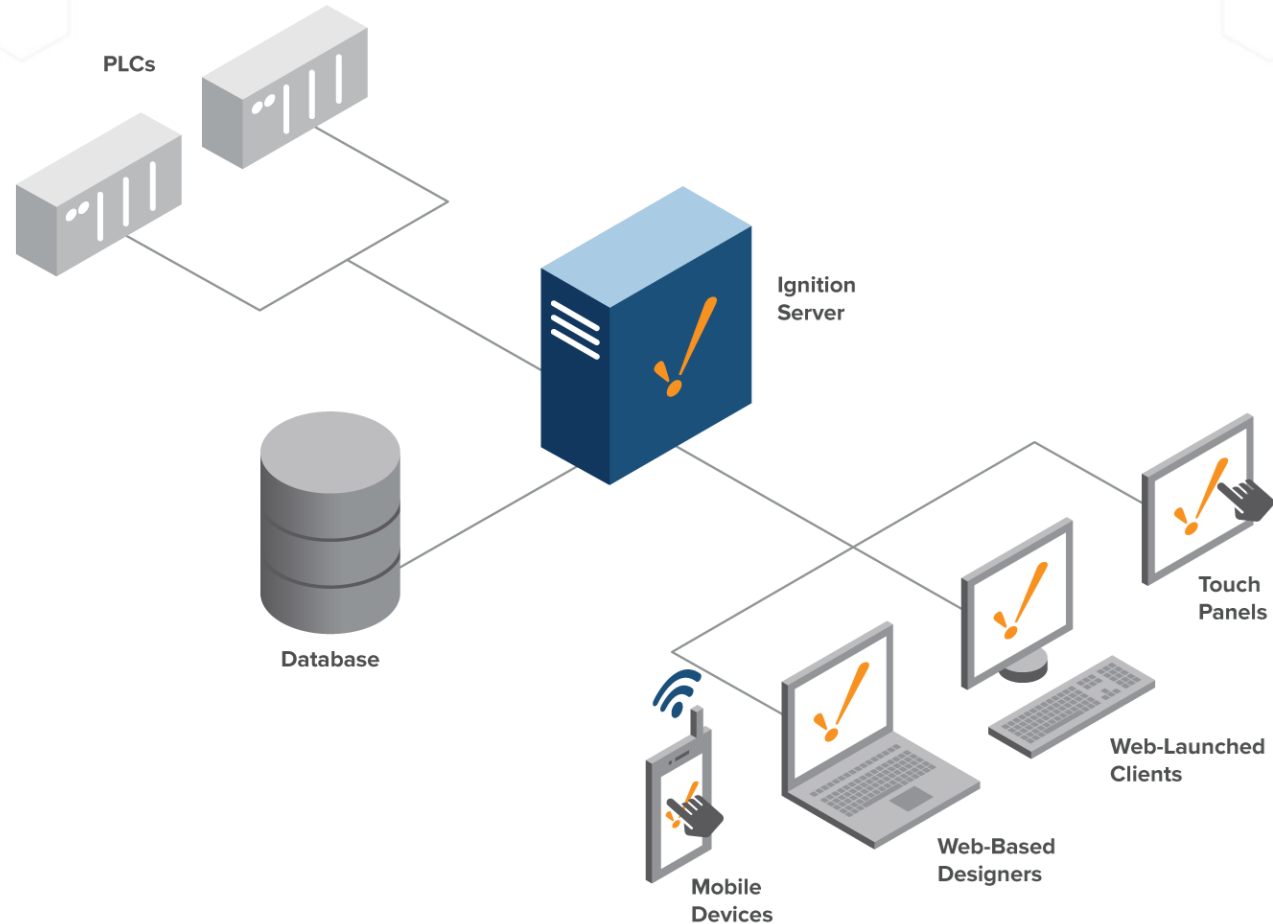
Mar 12, 2020 1:43 PM
Calendar view showing March 2020.

SIGNATURE PAD

WE DO NOT KEEP A RECORD OF SIGNATURES SUBMITTED.
Try It In Our Reporting Example!

Brief Ignition Overview

Basic Architecture



Brief Ignition Overview

Ignition Designer

The screenshot displays the Ignition Designer application window titled "samplequickstart - Ignition-SE-IB20NG3-LT - Ignition Designer". The interface is divided into several panes:

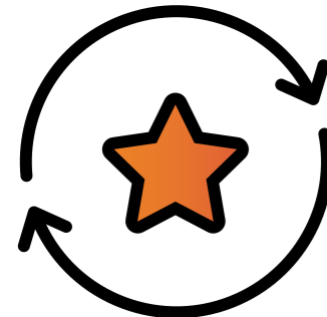
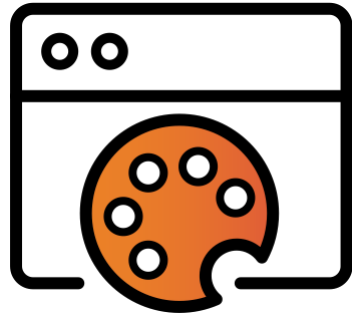
- Project Browser:** A tree view on the left showing the project structure, including folders for "Alarm Notification Pipelines", "Sequential Function Charts", "Scripting", "Perspective", "Session Events", "Styles", "Views", "components", "framework", "home", "ignition-101", "layouts", and "Transaction Groups".
- Page Configuration:** A central pane showing the configuration for the "Perspective [samplequickstart]" (version 2.1.19-rc2). It lists "Shared settings" such as "/home/landing-page", "/components", and "/layouts/coordinate". A central canvas shows a "Corner Priority" configuration with "left-right" and "top-bottom" options.
- Recently Modified Views:** A section below the page configuration showing four view thumbnails: "View", "home-large", "containers", and "embedded-view".
- Perspective Property Editor:** A pane on the right showing the configuration for the "SESSION PROPS" object. It lists various properties like "id", "host", "theme", "locale", "timeZoneId", "lastActivity", "auth", "gateway", "device", "bluetooth", and "geolocation".
- Tag Browser:** A pane at the bottom left showing a table of tags and their values.
- Output Console:** A pane at the bottom showing system logs, including the message "03:06:07.611 [Designer-Startup] INFO designer.main - Downloading... [+0]".

Tag	Value
Motors	
Ramp	
Random	
ReadOnly	
Realistic	
Sine	
Writeable	
New Tag	2022-07-28 3:20:32 AM

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

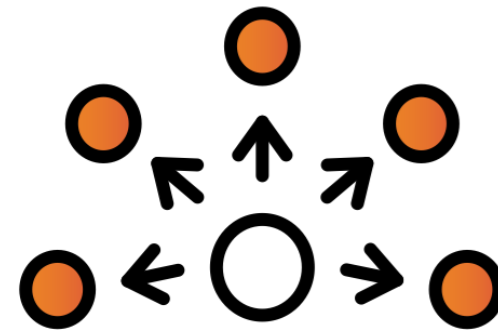
Demo



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

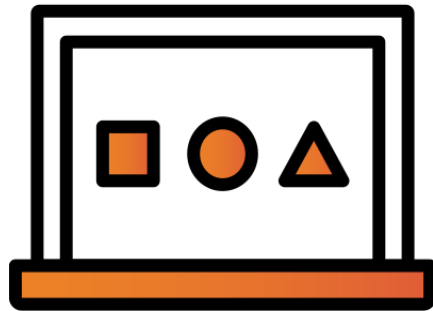
Demo



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

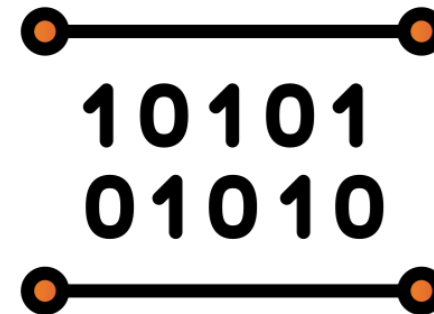
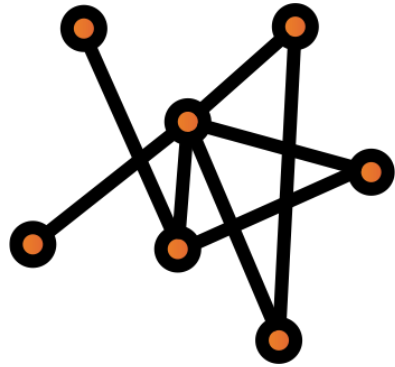
Demo



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>





Ready to Try Ignition for Yourself?

Download the full version for free at:
inductiveautomation.com



[inductiveuniversity.com](https://www.inductiveuniversity.com)

*Ignition User Manual also available at:
docs.inductiveautomation.com*

The 10th Annual Ignition Community Conference

ICCX

XPERIENCE & XPLORE

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

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