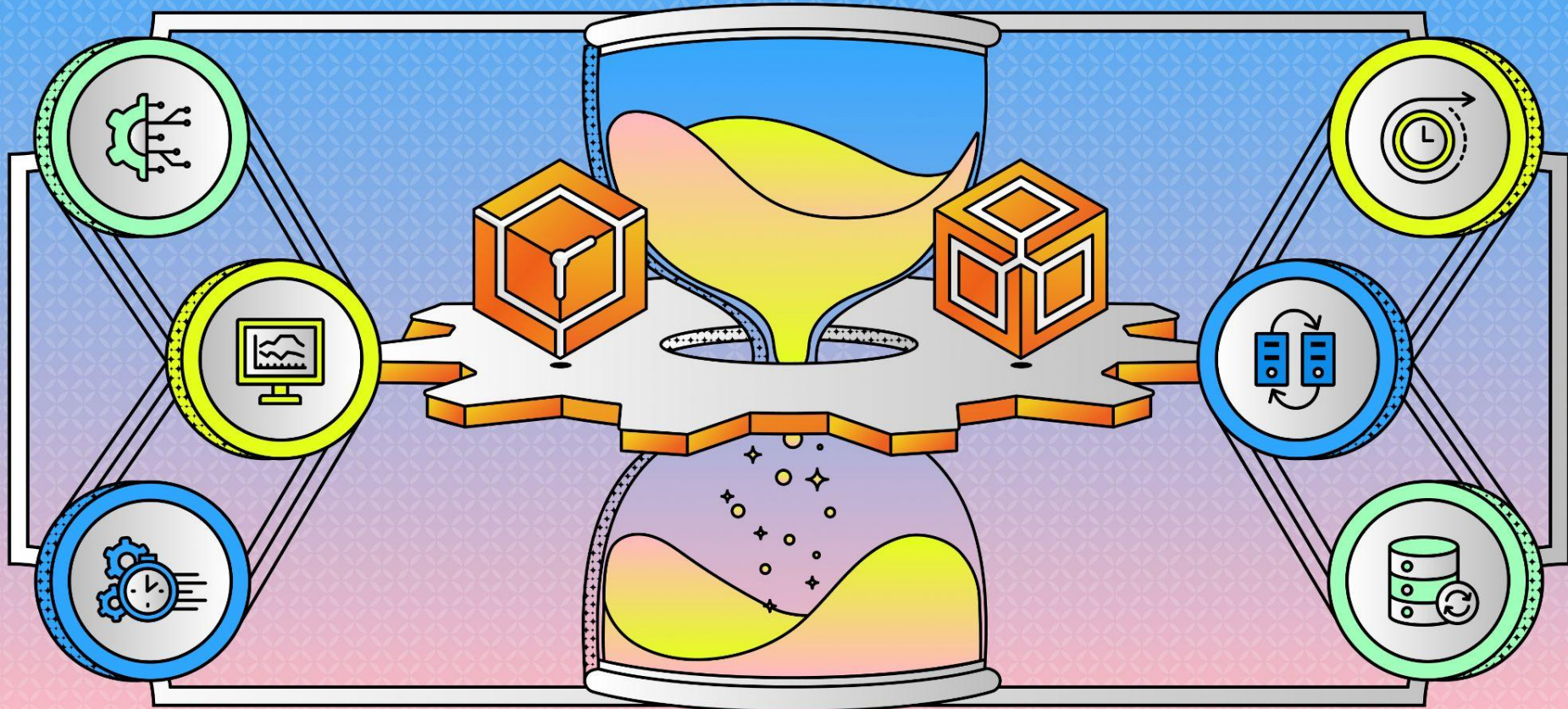


The Next Evolution in Historical Data

Ignition's Industrial Historian Solution Suite



Speaker



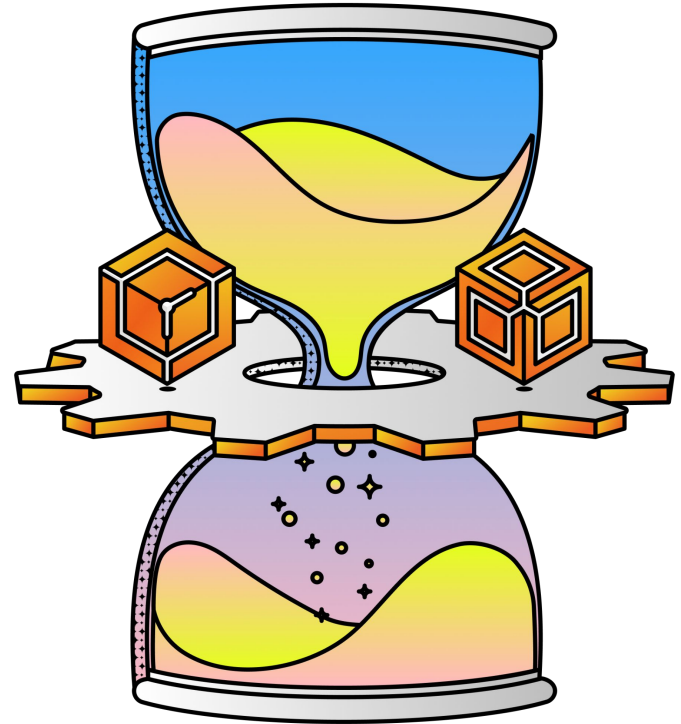
Travis Cox

Chief Technology Evangelist

Inductive Automation

Agenda

- Introductions
- The Value of Historical Data
- Historian Evolution in Ignition 8.3
- The Core Historian & SQL Historian Modules
- Create Historians With the Historian API
- Charts & Other Ways to Use Historical Data
- Demo
- Planned Historian Updates
- Q&A



About Inductive Automation



Johnson & Johnson



Chobani

69%

of Fortune 100

5k+

Registered
Integrators

140+

Countries

23+

Years In The
Industry

DFW

FUJIFILM



Crate&Barrel



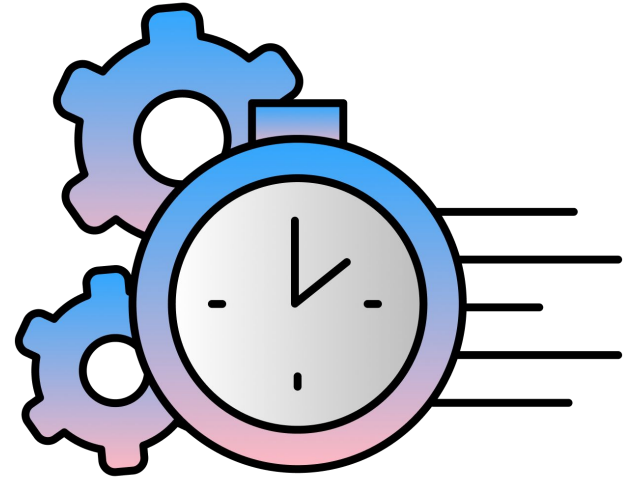
NOV



BASF

The Value of Historical Data

- Turn raw information into actionable intelligence
- Identify inefficiencies
- Predict failures
- Optimize processes
- Continuous improvement
- Informed decision-making
- Use for AI & machine learning
- Compliance & audits
- Preserve institutional knowledge



The Value of Historical Data

- Example: A water district in California upgraded its old SCADA system to a modern Ignition-based system
- Now they have data streams every second, high-resolution long-term storage, easy trend analysis, and predictive maintenance



Historian Evolution in Ignition 8.3

- Ignition made history as the first OT platform to leverage SQL for historical data
- In Ignition 8.3, we've completely re-thought our approach to time-series history storage
- Now Ignition is more than a historian – it's a platform for *building historians*



Two Modules – One Powerful Solution

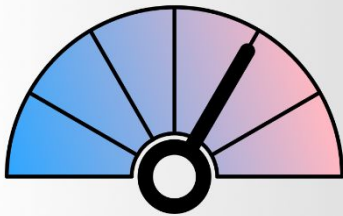
The Industrial Historian Solution Suite consists of two modules:
The Historian Core Module and the SQL Historian Module



Core Historian Module

- Much faster speeds

VS SQL HISTORIAN



UP TO:

8X Write
Performance

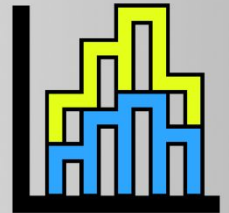
8X Read
Performance

VS INTERNAL LEGACY HISTORIAN

UP TO:

8X Write
Performance

600X Read
Performance



Core Historian Module

- Much faster speeds
- Minimal configuration
- Minimal footprint
- More efficient local storage
- Based on QuestDB
- Built in
- No maintenance
- Supports pruning or archiving
- Ideal for new Ignition users



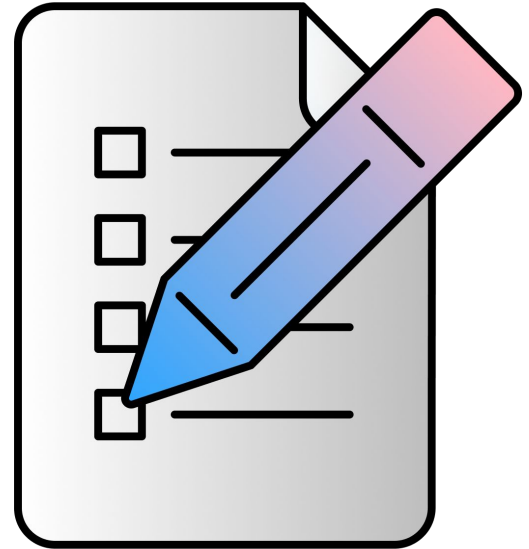
SQL Historian Module

- Log data to any external SQL database
- Automatically supports compression, partitioning, interpolation, and aggregation for any SQL database
- Ideal for large-scale storage
- Store data outside of Ignition
- Tried and true: Part of Ignition since the beginning



Create Historians With the Historian API

- CSV Historian
- Historian Splitter
- DB Table Historian
- Internal Historian (Legacy)
- OPC HDA Historian
- Remote Historian
- Simulator Historian



Do Even More With Historical Data In 8.3

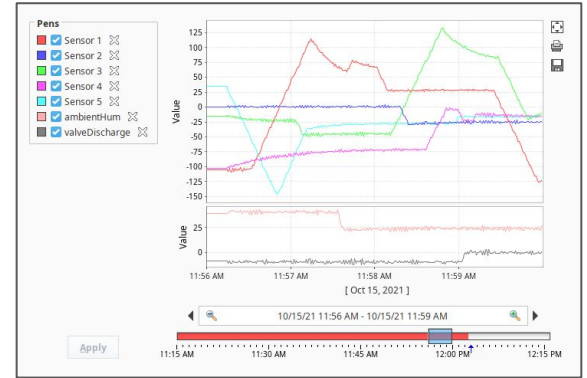
- Powerful Store and Forward Backed by Protobuf
- Rich Data Modeling
- Bulk Storage
- Store Metadata
- Data Annotations
- Seamless History Point Renaming
- Native Data Aggregation
- Easy Query Bindings
- Supports Calculations
- Modify Stored Data Directly Through Ignition



Displaying Historical Data With Charts

Easy Chart (Vision Module)

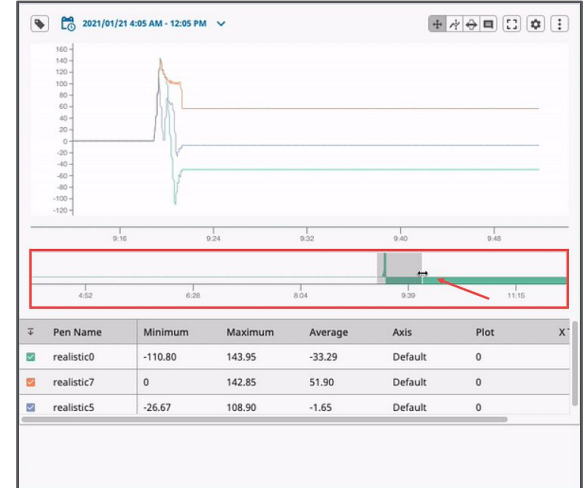
- Great for tag history
- Drag and drop history tags, see trends right away
- Use in Historical Mode, Realtime Mode, and Manual Mode



Displaying Historical Data With Charts

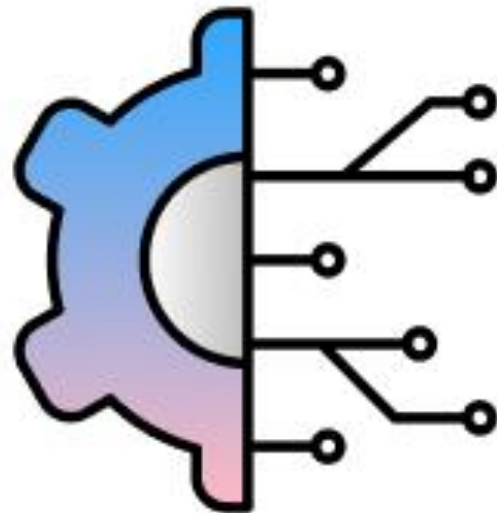
Power Chart (Perspective Module)

- Effortlessly generate real-time charts and trends for mobile devices, desktops, touch panels, and workstations
- Instantly make ad hoc charts

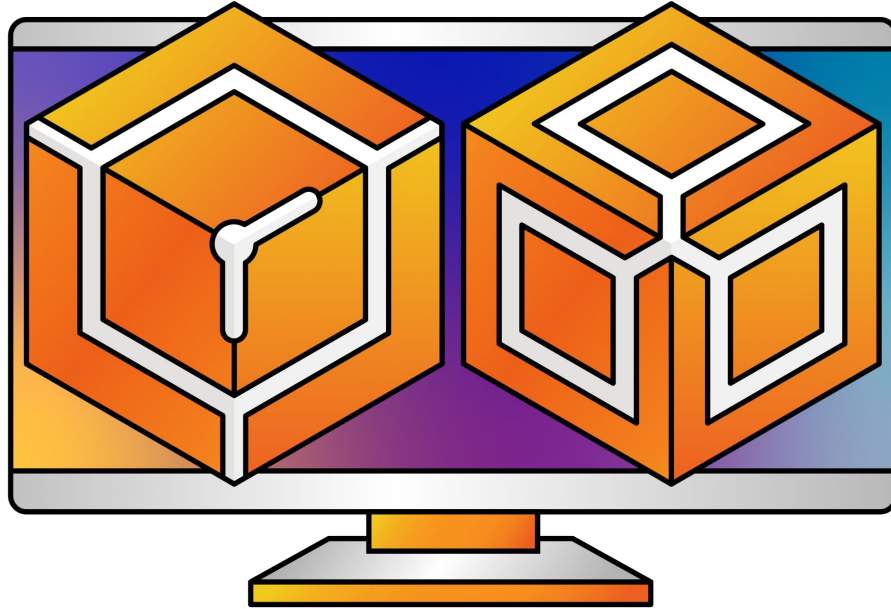


Other Ways to Use Historical Data

- Leverage XY charts, pie charts, bar charts, tables, etc.
 - Perspective and Vision historical data binding
- Scripting functions to query historical data
 - `system.historian.*`,
 - `system.tag.queryHistory`
 - Custom REST API with WebDev
- Module SDK
 - Creating a new engine
 - Storing/querying data



Demo



Planned Historian Updates

Coming in future releases:

- Core Historian Historian Redundancy
- Core Historian Backup/Restore
- Core Historian Archive Management tool
- Allowing the rest of Ignition to take advantage of the features of the new Historian API (aggregates, metadata, etc.)
- REST API Access

Ignition! 8.3

Ready To Try Ignition For Yourself?

Download the full version for free at:

inductiveautomation.com



Ignition!
Solution Suites

Learn more at:
inductiveautomation.com/pricing/solution-suites



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

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

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Questions & Answers



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