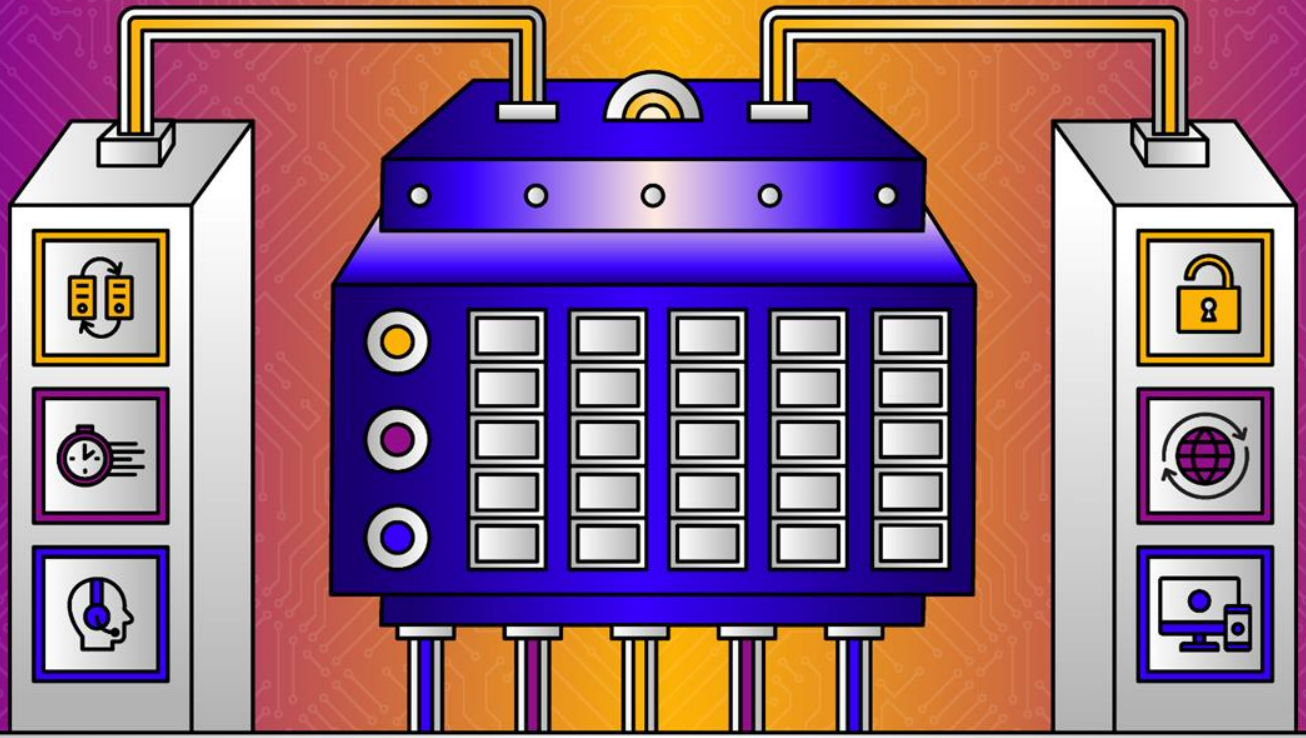
Boost PLC & Device Interoperability With New Drivers



Today's Speakers

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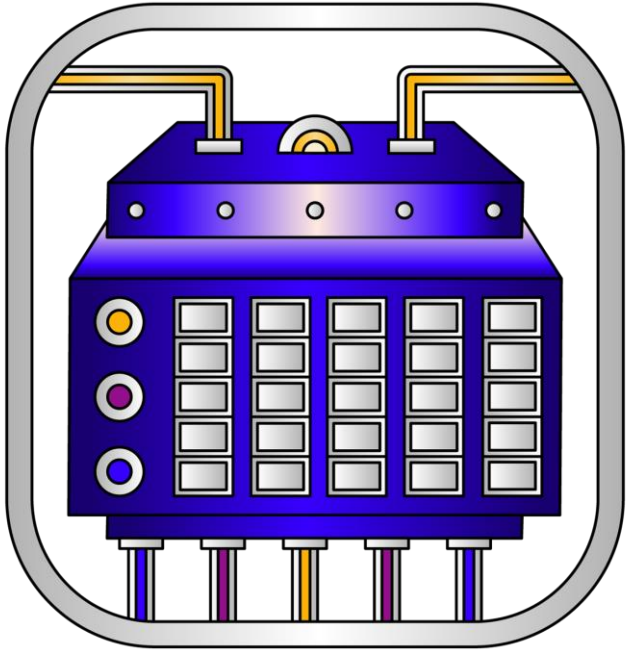
Agenda

- The Importance of Interoperability
- Interoperability Challenges & Solutions
- Overview of New Ignition Drivers
- IEC 61850 Driver
- Micro800 Driver
- DNP3 Driver
- Mitsubishi Driver
- Demo
- Q&A



About Inductive Automation

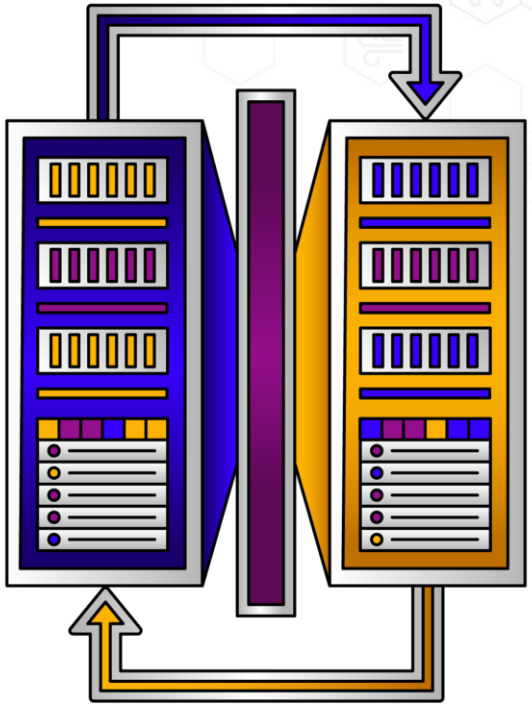
- We make software for problem solvers
- 57% of the Fortune 100 and 44% of the Fortune 500 use Ignition
- Highly diversified customer base across many industries
- Ignition installations in 100+ countries
- 4,000+ integrators worldwide
- Profitable and independent with no outside investors


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

The Importance of Interoperability

What Is Interoperability?

- The ability for data to flow easily between different systems and applications.



The Importance of Interoperability

5 Major Benefits of Interoperability

- Get more accurate data
- Connect to devices faster
- Save money
- Integrate with a wider range of devices
- Ease frustrations

The Importance of Interoperability

The Result of Interoperability on Operations

- Improved efficiency
- Increased productivity
- Less downtime
- Expand operations easily
- Better decision-making

The Importance of Interoperability

How Ignition Boosts PLC & Device Interoperability

- Connect to most major PLCs with included OPC UA Module & drivers
- Add on new drivers quickly, easily, and affordably
- Flexibility to write your own drivers
- OPC UA Module works on any major desktop OS

Interoperability Challenges & Solutions

Potential Challenges

- High costs
- Disruption to operations
- Security concerns
- Time

Interoperability Challenges & Solutions

Challenge

- High cost

Ignition's Solution

- A variety of useful drivers are included at no extra charge
- Affordably add on additional drivers

Interoperability Challenges & Solutions

Challenge

- Disruption to operations

Ignition's Solution

- Fast deployment

Interoperability Challenges & Solutions

Challenge

- Security concerns

Ignition's Solution

- OPC UA Module is based on TCP
- Quickly set up secure OPC UA

Interoperability Challenges & Solutions

Challenge

- Time

Ignition's Solution

- Out-of-the-box functionality for included drivers
- Download and install new drivers in minutes

Overview of New Ignition Drivers

4 New Ignition Drivers

- IEC 61850 Driver
- Micro800 Driver
- DNP3 Driver
- Mitsubishi Driver

IEC 61850 Driver

Features

- Ideal for power monitoring
- Connect to virtually any IEC-enabled device
- Released in 8.1.25
- Supports MMS Client Communication
    - Does not support GOOSE or SV

IEC 61850 Driver

System Functions

system.iec61850.

- system.iec61850.getControlParams
- system.iec61850.operate
- system.iec61850.select
- system.iec61850.cancel
- system.iec61850.listFiles
- system.iec61850.readFile
- system.iec61850.writeFile

Micro800 Driver

Features

- Low-cost AB devices
- Connect to Micro800 devices without having to use Modbus
- Micro800 Driver is currently in beta
- Browsing global variables
    - Easily import non-browsable variables

DNP3 Driver

Features

- Class-based polling
- Sequence-of-event data
- Scripting functions

DNP3 Driver

Scripting Functions

- New system.dnp.x namespace
- Old system.dnp3.x namespace will still exist
- system.dnp.demandPoll

Mitsubishi Driver

Features

- Connect to Mitsubishi controllers that support the MELSEC protocol
- Most popular PLCs outside the US
- Global reach

Mitsubishi Driver

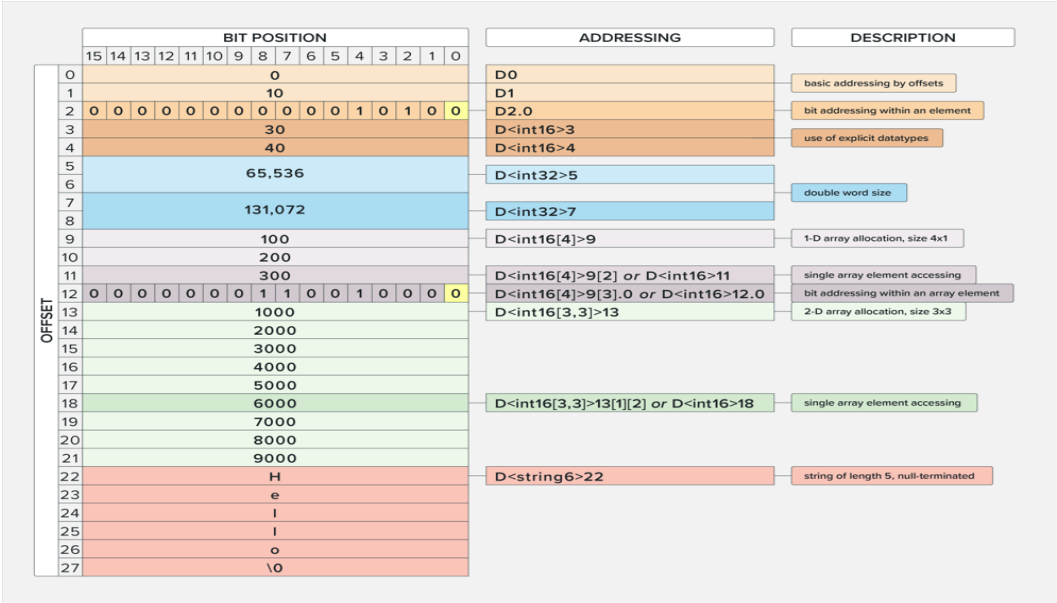
Features

- Supported hardware series
  - iQ-R
  - iQ-F (FX5U)
  - Q
  - L
  - F (Ignition 8.1.31)
- Gateway configuration
- Designer configuration

Mitsubishi Driver

Data Types and Addressing

- Bool
- Int16
- Int32
- Inte64
- UInt16
- UInt32
- String
- And More!



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inductiveuniversity.com

Ignition User Manual also available at:
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Questions & Comments

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