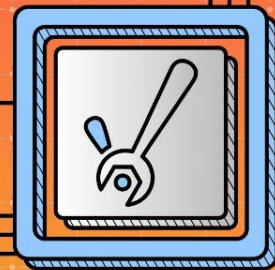
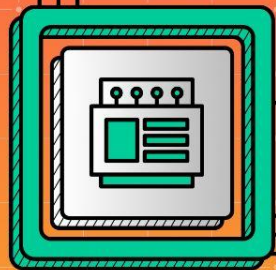
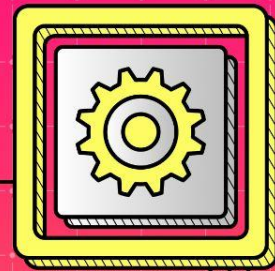
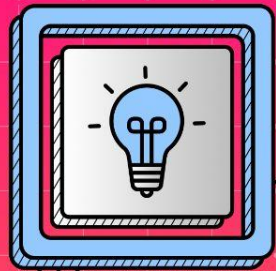


Smart Solutions, Real Results: Discover Integrators' Best Ignition Projects



Moderator



Don Pearson

Chief Strategy Officer

Inductive Automation

Guest Speakers



Damian Hewitt

State Manager - SA
*SAFEgroup
Automation*



Nigel Flynn

Client Manager
Actemium Toronto



Kristopher Goli

Control Systems
Engineer
Insight Engineering

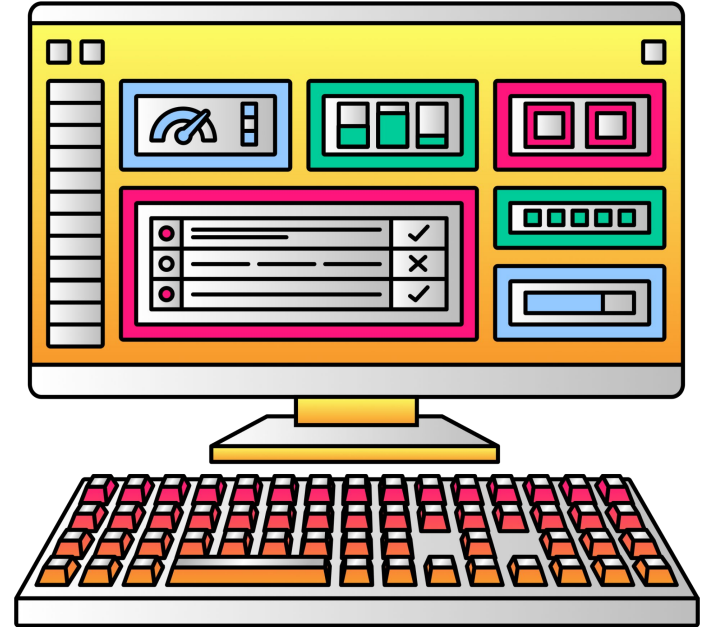


Ben Gaspard

Manager - SCADA
Services
*The Integration
Group of Americas
(TIGA)*

Agenda

- About Inductive Automation and Ignition
- Water/Wastewater Project by SAFEgroup Automation
- Plastics Project by Actemium Toronto
- Paint Project by Insight Engineering
- Oil & Gas Project by The Integration Group of Americas (TIGA)
- Q&A



About Inductive Automation



Johnson & Johnson



Chobani

69%
of Fortune 100

4k+
Registered
Integrators

140+
Countries

22+
Years In The
Industry

DFW

FUJIFILM



Crate&Barrel



BASF

About Ignition

Connect, Design, and Deploy Without Limits

- One central hub for the plant floor and beyond
- Build any kind of industrial application
- Web-deploy to desktops, industrial displays & mobile devices
- Unlimited licensing
- Cross-platform compatibility
- Industrial-strength security & stability



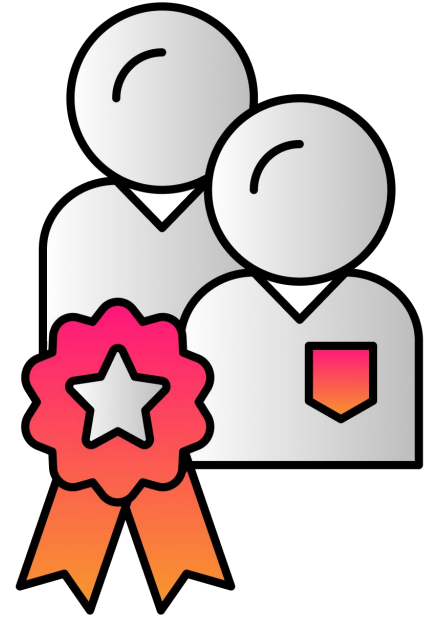
**The Unlimited Platform For
SCADA And So Much More**

Smart Solutions, Real Results

The integrators featured today recently won awards from Inductive Automation for building projects that exemplified:

- Significant positive impact
- Uniqueness
- Well-designed UI/UX
- Sophisticated architecture & features
- High level of effort

Now, let's explore innovative solutions that represent what's possible with Ignition.



SAFEgroup Automation / Dept of Environment and Water

About SAFEgroup Automation (SGA)

- A leading Australian control system engineering firm
- Ignition Premier Integrator
- Services range from electrical design to business integration and data analytics
- SGA tailors its approach for each client
- Creates user-friendly, effective systems through collaboration
- Our goal is to be the long term, trusted, innovation partner for businesses



SAFEgroup Automation / Dept of Environment and Water

The End User

- Department for Environment and Water (DEW), which manages the Patawalonga Lake System (PLS):
 - A 1.6-kilometer man-made waterway
 - Protects the Adelaide coastline from flood risks
 - Controls stormwater surges and tidal events for community safety



SAFEgroup Automation / Dept of Environment and Water

Challenges:

- The PLS depended on end-of-life, operated infrastructure, needed to transition to a modernised, automated system with real-time control
- The PLS upgrade required:
 - Seamless transition
 - Deployment of advanced technologies
 - Rigorous offsite testing and simulation

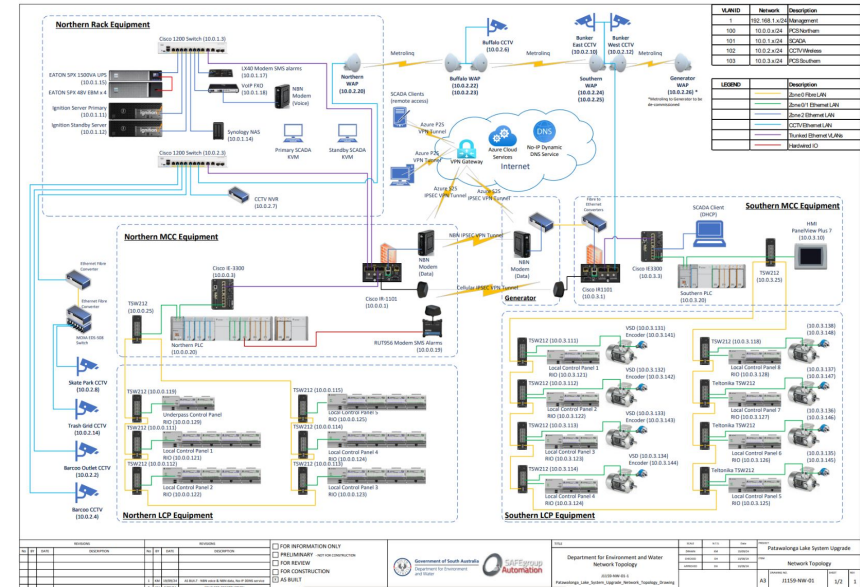


SAFEgroup Automation / Dept of Environment and Water

Solution:

The Ignition system provided several critical features, including:

- Unified Operations
- Offsite Testing
- Parallel Operation
- Remote Accessibility

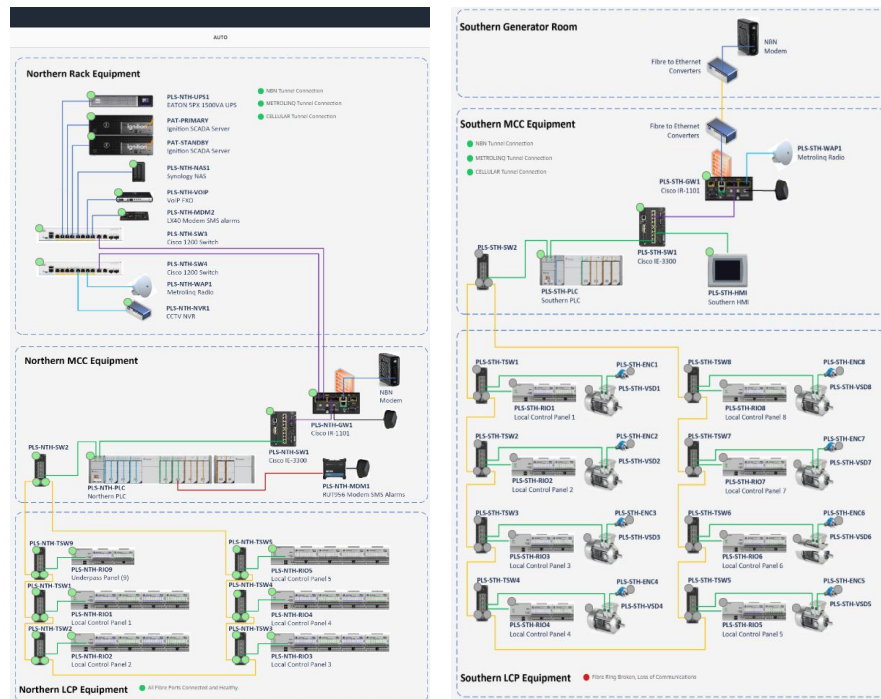


SAFEgroup Automation / Dept of Environment and Water

Solution:

The upgrade included multiple unique aspects:

- Seamless Integration
- First-of-its-Kind Modernisation
- Realistic Simulation Testing
- Cloud-Enabled, Future-Proofed Design
- Enhanced Resilience and Community Benefit



SAFEgroup Automation / Dept of Environment and Water

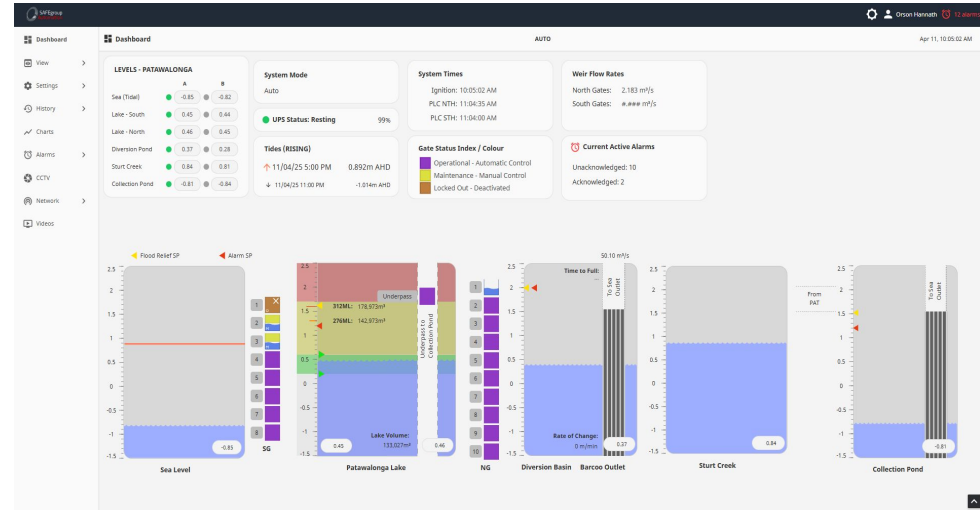
Results

Key Benefits:

- Improved Flood Protection
- Enhanced Water Quality
- Remote Monitoring and Control
- Reduced Maintenance Costs

Unexpected Benefits:

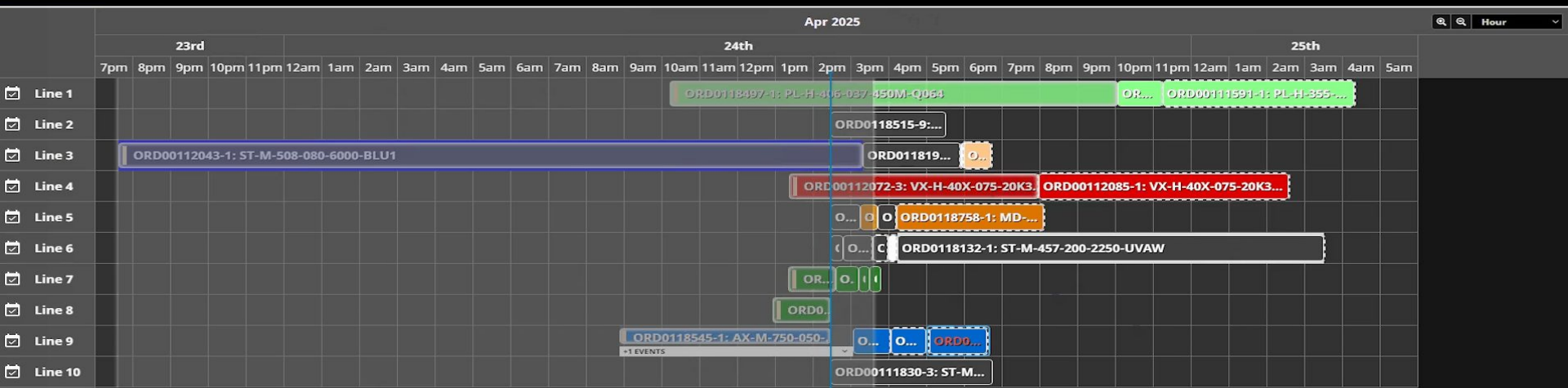
- Data-Driven Insights
- Public Confidence
- Adaptability to Future Events



SAFEgroup Automation / Dept of Environment and Water

Before vs. After Ignition Upgrade

Feature	Before	After Ignition Upgrade
Gate operation	Semi-Automated, delayed	Fully Automated, real-time
Response time	Slow, human-dependent	Instantaneous, sensor-driven
Monitoring	Onsite only	Remote access, 24/7
Water quality management	Passive, reactive	Active, optimized
Data availability	Minimal	Real-time, historical & exportable
Community confidence	Moderate	Significantly improved



Assign scheduled orders starting before:

Select date

Assign

Clear

Schedule

Order	Customer ID	Expedited Order	Product(Rolls [Skids])	Offcut 1 (UOM [Skids])	Offcut 2 (UOM [Skids])
ORD0011836-1		☐	AX-M-500-060-5500-Q050 (250 [S])		

SMART SCHEDULER:
TRANSFORMING
PRODUCTION
PLANNING

SPEAKER: NIGEL FLYNN
ACTEMIUM TORONTO

A powerful worldwide network

40

Countries

420

Business units

24,400

Employees

\$3.7 BN USD

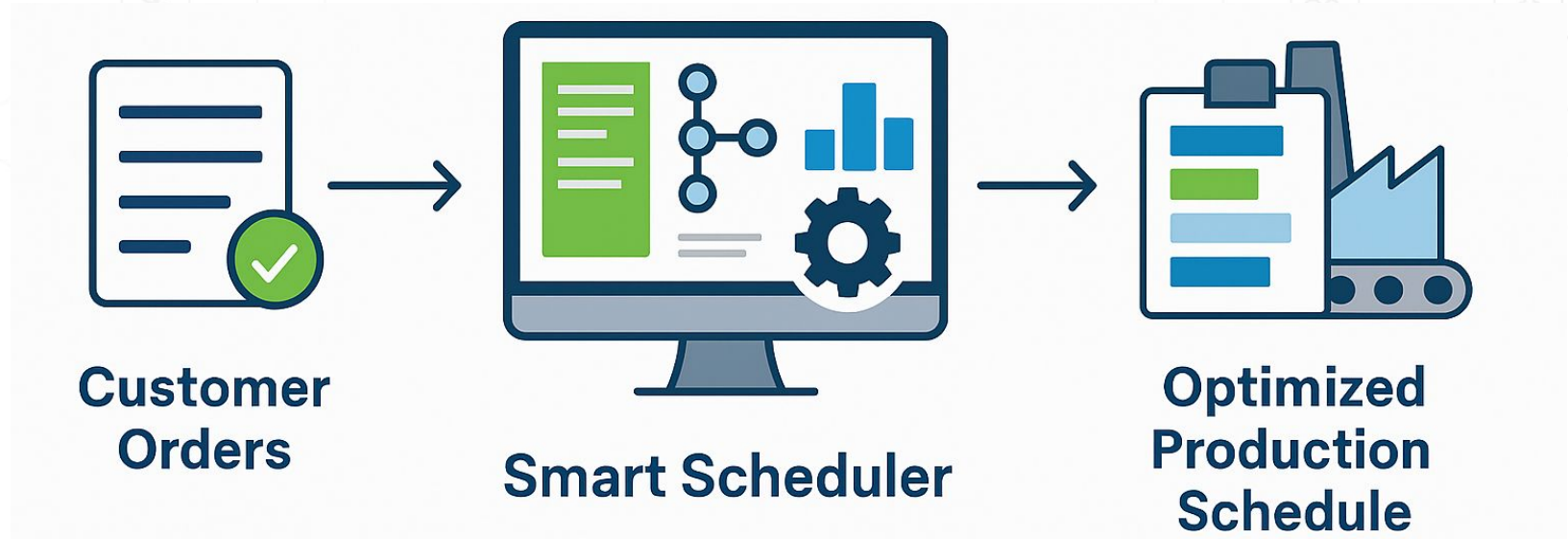


Agenda



- WHAT IS SMART SCHEDULER?
- PRODUCTION SCHEDULING CHALLENGES
- KEY FEATURES & INNOVATIONS
- CUSTOMER IMPLEMENTATION
- RESULTS & IMPACT
- Q&A

What is a Smart Scheduler?



Production Scheduling Challenges

Operational Complexity Challenges

High order volumes and multiple production lines increase manufacturing complexity, causing inefficiencies and bottlenecks.

Manual Scheduling Limitations

Manual scheduling is time-consuming and error-prone, leading to misaligned schedules and delayed order fulfillment.

Changeover Impact

Frequent changeovers cause lost production time and increase risks to product quality and operational efficiency.

Need for Flexible Scheduling

Flexible scheduling systems enable dynamic adjustments to priorities, improving responsiveness and customer satisfaction.



Operational Complexity Challenges



Manual Scheduling Limitations

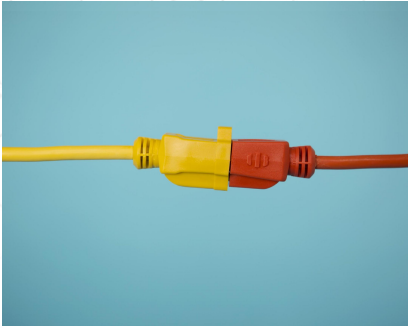


Changeover Impact



Need for Flexible Scheduling

Key Features & Innovations



REDUCED USER INPUT

Due to Direct ERP integration to receive Order information

VISUALISATION

Visual dashboards for schedule status and performance.

ONE-CLICK SCHEDULING

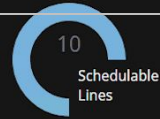
Set and forget configuration with only a one-click needed to schedule

CUSTOMISED TO ORGANIZATION

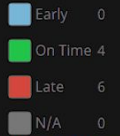
Customizable production preferences and transition rules to organization needs



DASHBOARD



Punctuality



Last updated: 14:26:55p.m.

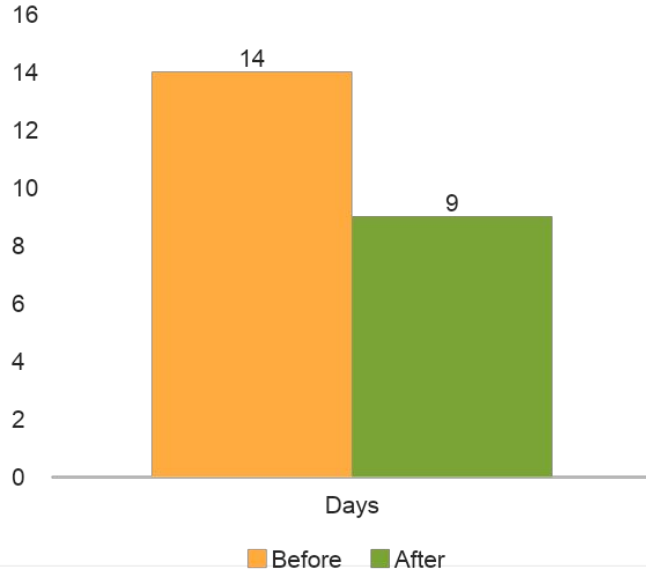
Line	State	Schedule Timing	Order	Running Product	Quantity (UOM [Skids])	UOM	Started	Expected End Time
1	Running	On Time	ORD0118497-1	PL-H-406-037-450M-Q064	640 [10]	CASE	Apr 24, 2025 10:11 AM	Apr 24, 2025 10:02 PM
2	Idle	Late						
3	Running	On Time	ORD00112043-1	ST-M-508-080-6000-BLU1	1280 [40]	ROLL	Apr 23, 2025 7:36 PM	Apr 24, 2025 3:18 PM
4	Running	On Time	ORD00112072-3	VX-H-40X-075-20K3-Q009	36 [4]	ROLL	Apr 24, 2025 1:20 PM	Apr 24, 2025 7:57 PM
5	Idle	Late						
6	Idle	Late						
7	Running	On Time	ORD0118586-1	PL-M-508-048-9000-Q032	96 [3]	ROLL	Apr 24, 2025 1:19 PM	Apr 24, 2025 2:34 PM
8	Running	Late	ORD00112094-9	PL-M-500-061-5500-Q050	200 [4]	ROLL	Apr 24, 2025 12:54 PM	Apr 24, 2025 2:15 PM
9	Running	Late	ORD0118545-1	AX-M-750-050-9000-Q020	340 [17]	ROLL	Apr 24, 2025 8:52 AM	Apr 24, 2025 1:57 PM
10	Idle	Late						

Customer implementation

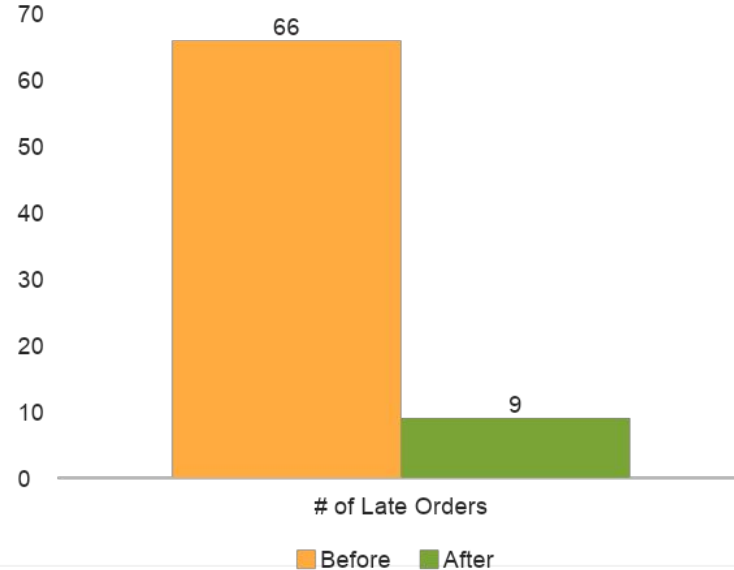


Results & Impact: Before vs after Smart Scheduler

REDUCED PRODUCTION TIME



REDUCED LATE ORDERS



Q&A / Contact

Nigel Flynn

Digital Solutions

+1 416 550 2453

nigel.flynn@actemium.com



Insight Engineering / Haymes Paint

About Insight Engineering

- Delivering expert electrical engineering and design services throughout Victoria and beyond since 1989
- Ignition Premier Integrator
- Producing high-quality automation solutions using the latest technology
- Specialising in PLC, SCADA, MES, telemetry, and RTU systems
- Prioritising client outcomes, with a focus on design, installation, commissioning, and ongoing support



Insight Engineering / Haymes Paint

The End User

- Haymes Paint, a leading Australian paint manufacturer
- Founded in 1935, based in Ballarat
- Creators of high-quality, innovative paints and coatings



Australia's first family of paint. SINCE 1935

Insight Engineering / Haymes Paint

The End User

- Haymes Paint, a leading Australian paint manufacturer
- Founded in 1935, based in Ballarat
- Creators of high-quality, innovative paints and coatings
- A specification is a document that describes the entire scope of a painting project
- Illustrates the most appropriate products to be used



Australia's first family of paint. SINCE 1935

Insight Engineering / Haymes Paint

Challenges – Haymes Paint:

- The existing process was time-consuming and varied significantly based on the individual
- No standardised templates or processes
- Limited accessibility & traceability



Insight Engineering / Haymes Paint

Challenges – Haymes Paint:

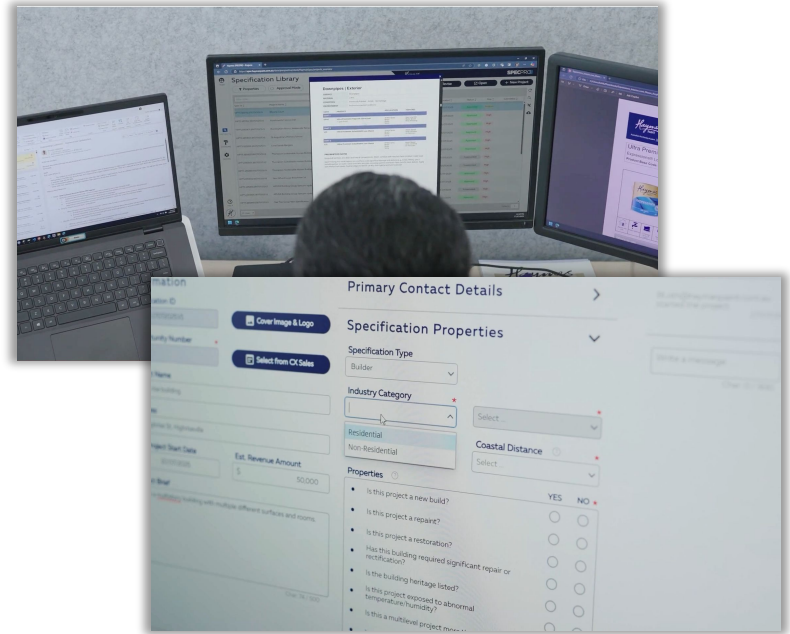
- The existing process was time-consuming and varied significantly based on the individual
- No standardised templates or processes
- Limited accessibility & traceability
- Previous attempts to address these failed due to challenging user experiences and large cost to train staff



Insight Engineering / Haymes Paint

Challenges - Insight:

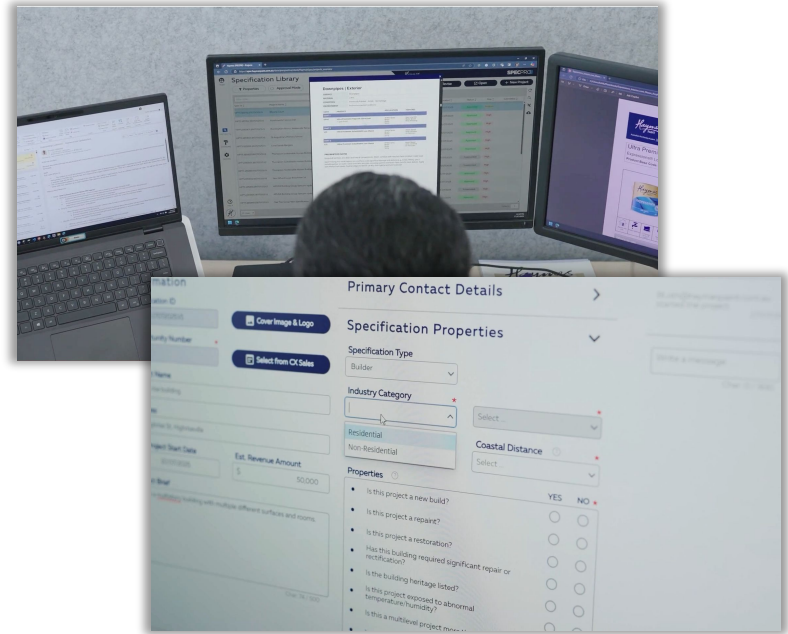
- Ignition was an unorthodox approach
- A Business Process Application is what this type of project is pitched as
- Typical development platform would be Microsoft Power Apps



Insight Engineering / Haymes Paint

Challenges - Insight:

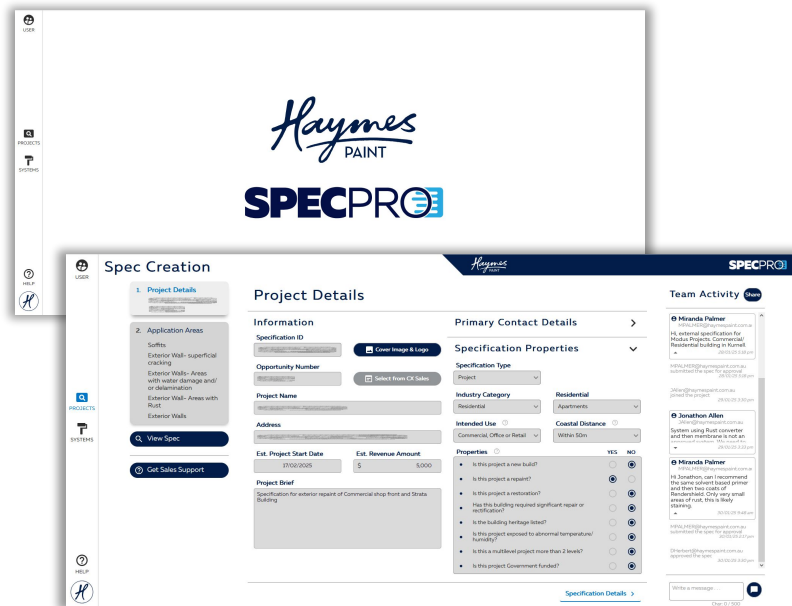
- Ignition was an unorthodox approach
- A Business Process Application is what this type of project is pitched as
- Typical development platform would be Microsoft Power Apps
- Insight had to prove that Ignition would be a viable platform for developing the solution
- Modern and polished look and feel



Insight Engineering / Haymes Paint

Solution:

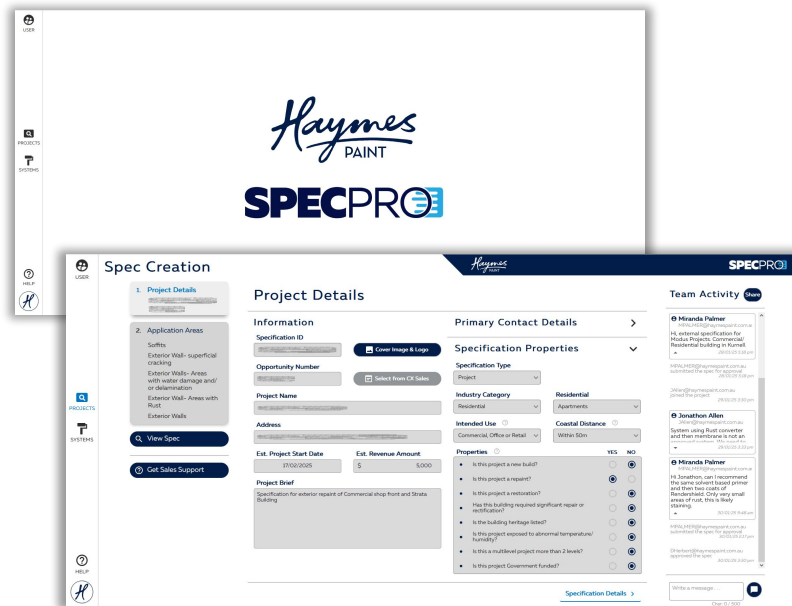
- SPECPRO: Ignition-based specification application to automate, track, standardize & validate specifications
- Digitizes old workflows and connects external ERP / PIM / CRM data.
 - Enterprise Resource Planning
 - Product Information Management
 - Customer Relationship Management



Insight Engineering / Haymes Paint

Solution:

- SPECPRO: Ignition-based specification application to automate, track, standardize & validate specifications
- Digitizes old workflows and connects external ERP / PIM / CRM data.
 - Enterprise Resource Planning
 - Product Information Management
 - Customer Relationship Management
- Developed to Agile principles
- Weekly meetings to review the project
- Numerous re-works during development to improve design and usability



Insight Engineering / Haymes Paint

Project Cornerstones:

- **Robust Database**

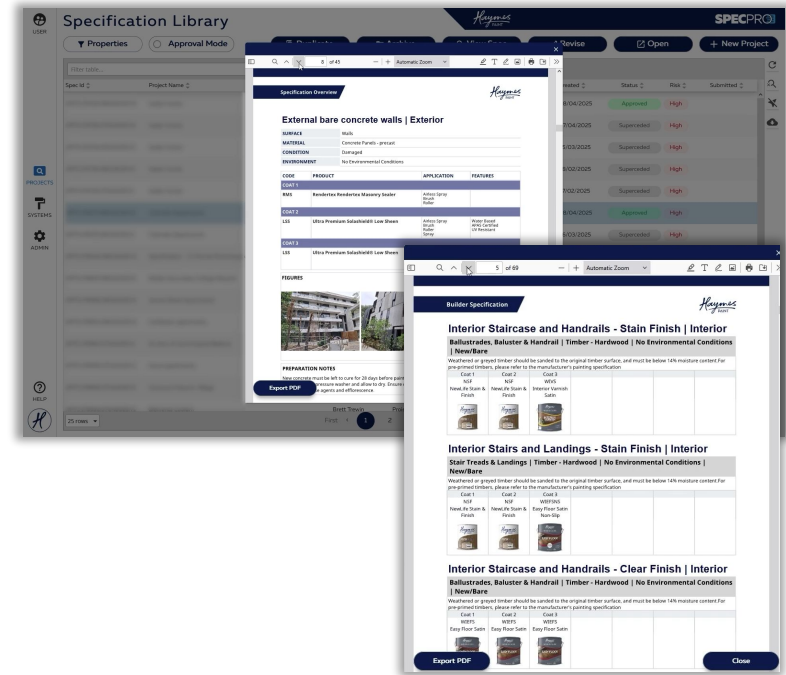
Intelligent Preferred Painting System solutions, backed by R&D data.

- **Advanced PDF Reports**

Produces detailed PDF Specifications tailored for the end-user

- **Modern User Interface and Experience**

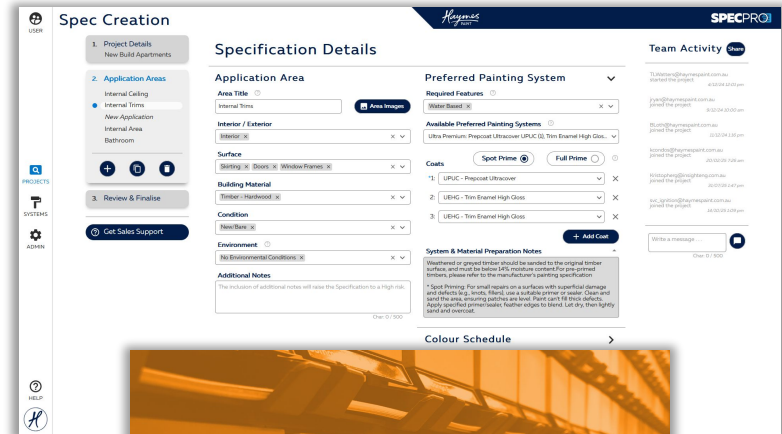
Large focus on good GUI & GUX design
Highly Intuitive workflow



Insight Engineering / Haymes Paint

Results:

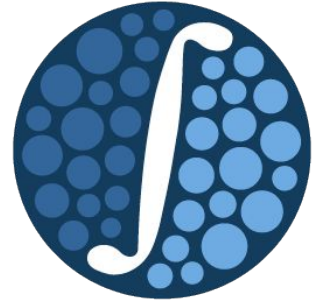
- Fully digitized specification process
- Full traceability and standardisation
- Increased visibility on project risk factors
- Built-in peer collaboration and review
- Faster turnaround to clients
- On demand CRM & PIM connectivity
- Unique application of Ignition as a development platform



TIGA / EXCO Resources

About TIGA

- Systems integration & engineering services company that enables companies to leverage technologies against industrial operational problems
- Ignition Premier Integrator
- Focuses on capturing opportunities driven by oil, water and data
- Clients have an easy, seamless migration to the most efficient technologies and business models



TIGA

TIGA / EXCO Resources

The End User

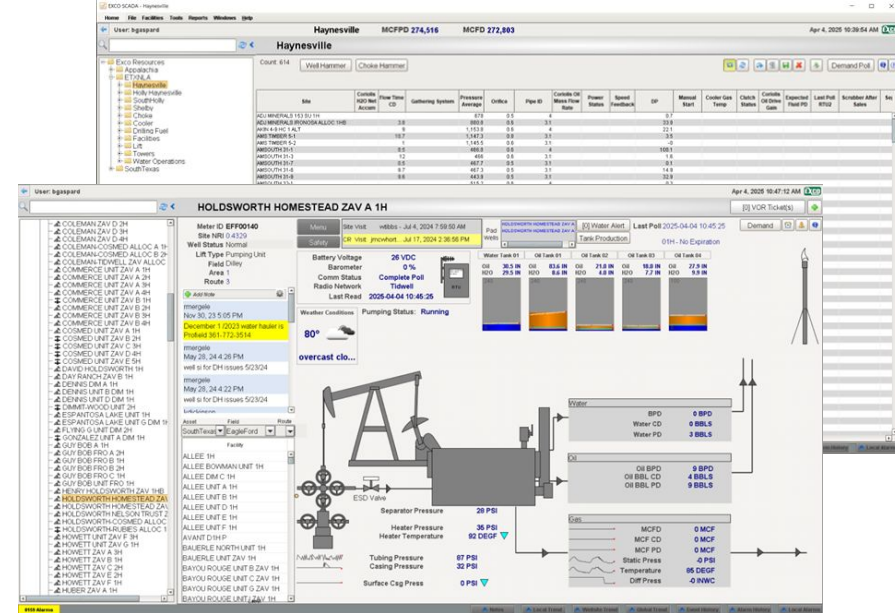
- EXCO Resources, Inc.: an independent oil and natural gas company
- Focused on shale resource plays in the United States
- Holds interests in Texas, Louisiana, and the Appalachian basin



TIGA / EXCO Resources

Challenges

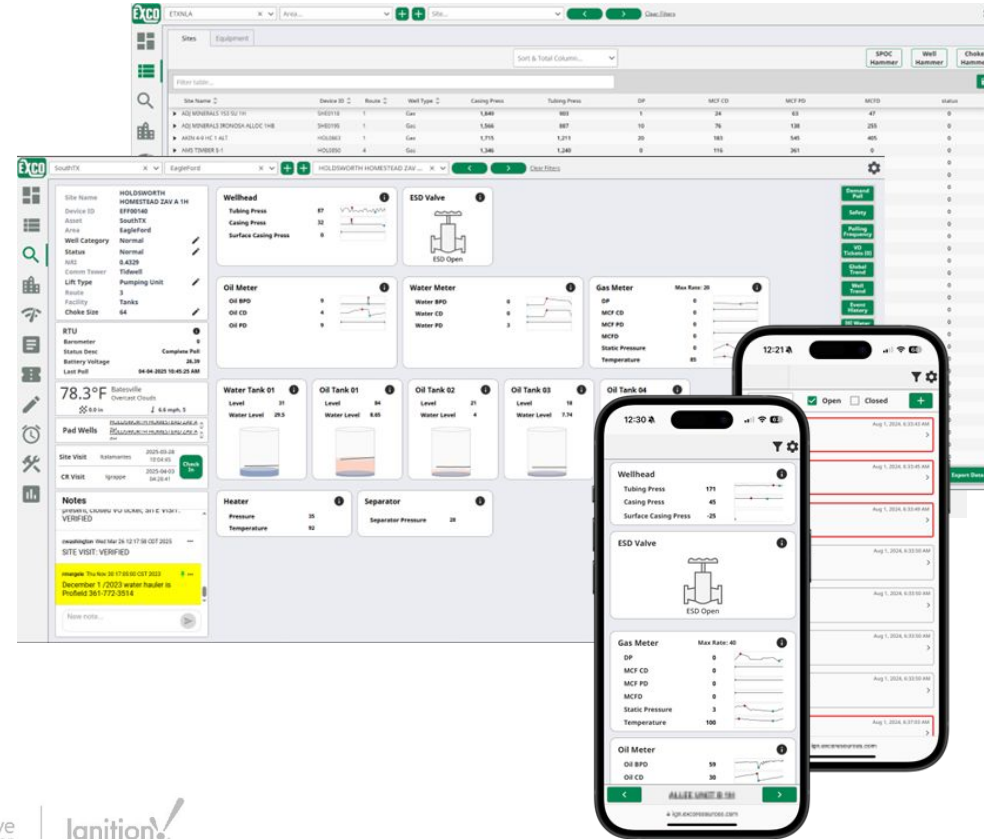
- Backend Instabilities
 - Single gateway handling project load
- Mobile Limitations
 - Field personnel restricted to using Vision thru Citrix on mobile
- Poor Front-end Performance
 - Parts of the system had become unused, inefficient, and reliant on manual updates
 - Slow large data requests
 - Inconsistent HMI experience



TIGA / EXCO Resources

Solution

- Strengthen Gateway Architecture
 - System completely overhauled & upgraded to Ignition 8.1
- Core Data Restructure
 - UDT, Instances, & Tags to UNS
- All-New Perspective HMI
 - Used actionable data to drive dynamic navigation & HMI functionality
 - Mobile support
- User Empowerment
 - Accelerators & Utilities for each user group



TIGA / EXCO Resources

Solution

- Established a centralized source of truth for metadata
 - Used metadata to drive dynamic navigation & HMI functionality
- New HMI provides relevant data in less clicks
- Improved & enhanced all the capabilities of EXCO's Ignition software
 - Self management utilities
 - Embedded documentation
- Simplified navigation

The screenshot displays the EXCO Site Equipment interface. At the top, there's a 'Site Metadata' section with a table listing sites. Below this is the 'EXCO Documentation Portal' header. The main content area is titled 'Production Detail Screen' and includes a description of its purpose. A 'Table of Content' sidebar is visible on the left, listing various navigation options. The right sidebar contains a 'Table of Content' for the 'Production Detail Screen' itself, listing features like 'Accessing The Production Detail Screen', 'Standard Features', 'Check-In Options', 'Note Management', 'Alarm Visualization', 'Equipment Cards', 'Well Status', 'Alarm Configuration', 'Trending', 'Right Side Button Functionality', 'Demand Plot', 'Safety', 'Polling Frequency', 'VO Tickets', 'Global Trend', 'Well Site Trend', 'Site Event History', 'Water Alert', 'Cards & Docks', 'SPOC Card', and 'Autoclose Card'.

Site Name	Device ID	Route	Area	Enabled	Escalator ID	Lift Type	Well Type
BOLL PRO F 4H	EPF00436	1	Eagleford	✓	810P106635	Pumping Unit	Oil
BOLL PRO F 8H	EPF00803	1	Eagleford	✓	810P106635	Pumping Unit	Oil

Production Detail Screen

The Production Detail Screen serves as an interface for users to access and manage site-specific details. It offers various functionalities to monitor equipment status, access detailed information, and configure settings. Equipment cards dynamically hide, and show based on specific site criteria.

Accessing The Production Detail Screen

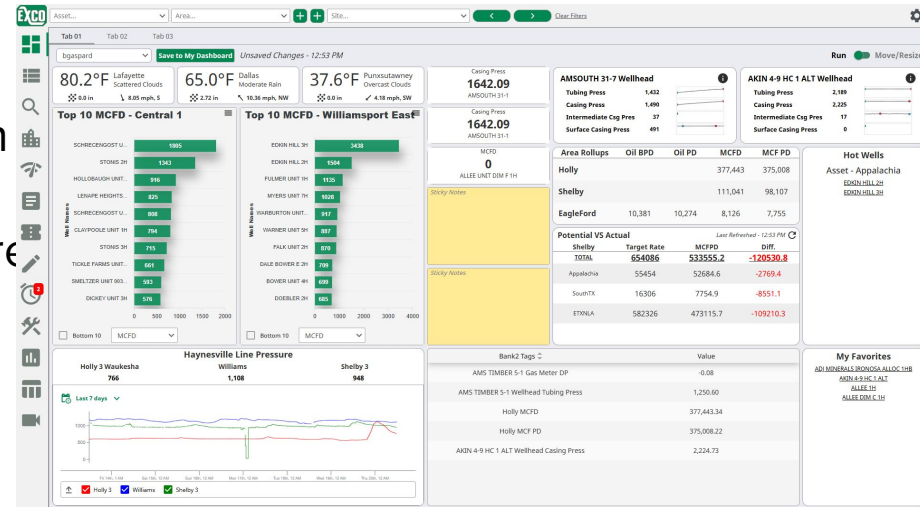
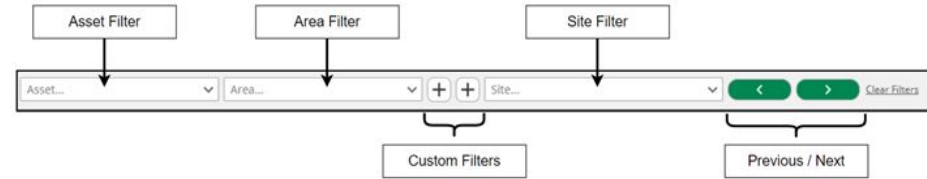
Users can access the Production Detail Screen through two (2) primary methods:

- **Double-click:** Users can double-click on a site from the production overview to access the Production Detail Screen.
- **Navigation Bar:** Users can navigate to the Production Detail Screen from the left-hand tree interface.

TIGA / EXCO Resources

Solution

- Platform-wide filtering
- Dashboard feature lets users build their own screen
 - Minimize development time needs
- Users can share their screens with each other
- Users can select their settings for a more consistent experience

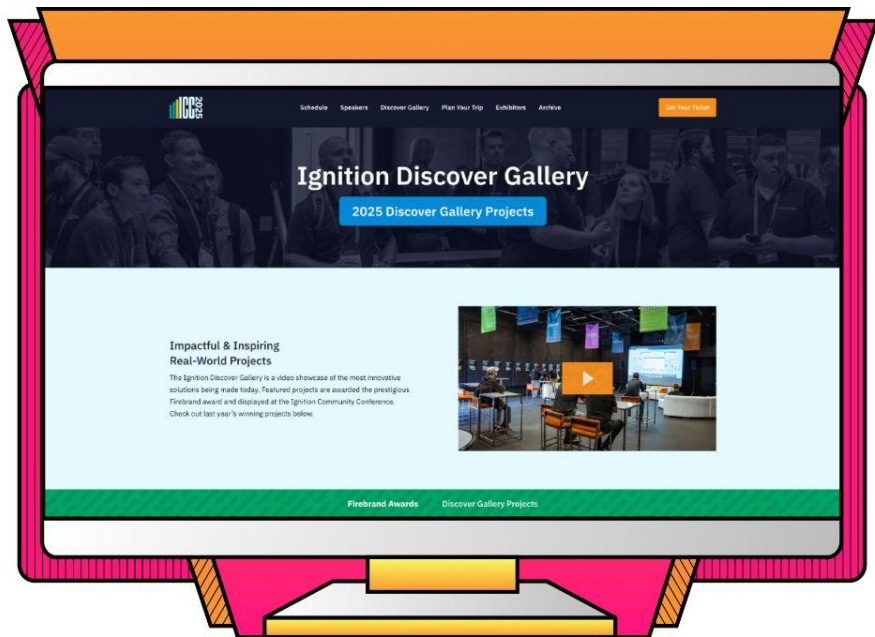


TIGA / EXCO Resources

Results

- Creating a cohesive and intuitive environment that optimized UX and facilitated seamless data integration
- Significantly reduced load times across screens
- System-wide filtering and refined navigation
- Deliver a tailored and intuitive experience that resonates with individual preferences and behaviors on the move
- UNS provides easy system administration, future development, & external OT application interfacing
- Expansive across the company, not limited to SCADA; Vital tool for operations, maintenance, management, and beyond

Find Even More Projects in the Discover Gallery



icc.inductiveautomation.com/discover-gallery



Ignition! 8.3

Ready To Try Ignition For Yourself?

Download the full version for free at:

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



inductiveuniversity.com

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

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Austria & Germany	Relatech S.p.A.	https://relatech.com

Contact International Distribution Manager Yegor Karnaukhov at: ykarnaukhov@inductiveautomation.com

Questions & Answers



Call us at: **800-266-7798** Email us at: accountservices@inductiveautomation.com



For Inductive Automation Australia, call: **1300 10 8088**

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