Industrial Internet of Things (IIoT) in the Manufacturing Industry

IIoT in Manufacturing

The term IIoT describes technology innovations and interconnectivity enabled by the Internet. By automating communication between industrial equipment and systems, IIoT enhances efficiencies throughout the factory, making it smarter.

Evolution to Smart Factories

Becoming a Smart Factory is a long-term, complex process. It often requires a "wrap and reuse" rather than "rip and replace" approach where smart connected assets operate as part of a larger system, a system of systems or "greenfield" and "brownfield" applications – all converging as a smart manufacturing enterprise.

Benefits of IIoT in Manufacturing

- Minimize unplanned downtime
- Maximize operational efficiency
- Optimize business operations
- Enhance and protect systems
- Reduce TCO and increase revenue

IIoT Applications in Smart Factories

- Predictive Maintenance
- Intelligent Supply Chain Management
- Asset Performance Management
- Augmented Operators/Workers
- Cyber Security
- more…

"Architectures of the past are no longer viable in the age of IIoT. In order to influence the next generation of manufacturing technology, we're working within the IIC ecosystem to contribute requirements, expertise and customer insight."

Calvin Smith
Director & Head of IoT Partner Engineering
Smart Factory Task Group Co-chair
Industrial Internet Consortium

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Smart Factory Task Group

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Ecosystem of Experts

The Industrial Internet Consortium Smart Factory Task Group brings together end user organizations, vendors, service providers and research organizations to create new IIoT solutions, generate operational efficiencies and develop business model innovations.

Smart Factory Task Group Mission

Establish IIC and its members as Smart Factory thought leaders. Create value for task group contributors by validating them as subject matter experts. Promote IIC collaboration with Plattform Industrie 4.0 and end-user organizations.

Key Benefits

- Form collaborative relationships
- Access new knowledge and technologies
- Innovate through testbeds
- Influence future IIoT development
- Explore new business models
- Co-author publications
- Create market momentum

Resources

- White Paper: *Smart Factory Applications in Discrete Manufacturing Whitepaper*
- Brochure: *Smart Factories: a Symphony of the Industrial Internet in Action*
- Case Studies & Testbeds

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"Traditional manufacturers and industrial leaders are embracing IIoT to enable continuous improvement. Through the Smart Factory Task Group, member organizations can leverage practical guidance and hands-on expertise, making it easier to get started or maximize the value of their IIoT investments."

Erik Walenza,
CEO, IoT One
Smart Factory Task Group Co-chair
Industrial Internet Consortium