



ISA100 Wireless In-Person Training - Zoetermeer

June 18, 2019

Introduction to ISA100 Wireless Compliance Institute and Industry Standard

Presenter:

Honeywell

Diederik Mols

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Agenda

1. About the speaker
2. Introduction Industrial Wireless
3. ISA100 Wireless Industry Standard
4. Summary
5. Q&A



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About the speaker



“Today Industrial Wireless is increasingly deployed as an integral part of the Integrated Control and Safety Systems (ICSS)”

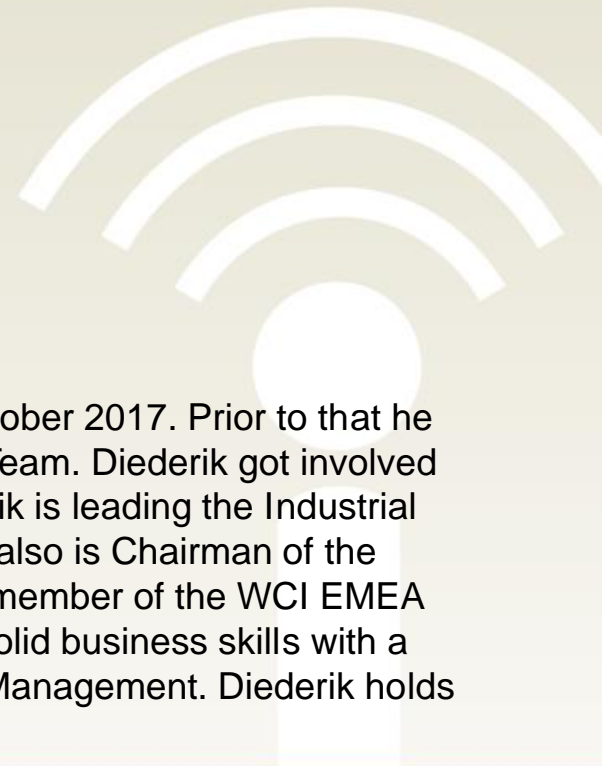
Diederik Mols

Chairman of the Board
ISA100 Wireless
Compliance Institute



Business Manager
Industrial Wireless
Honeywell Process Solutions

Honeywell



Diederik Mols is Chairman of the Governance Board at the ISA100 Wireless Compliance Institute since October 2017. Prior to that he served two years as Vice-Chairman. Diederik also is an active team member of the WCI EMEA Marketing Team. Diederik got involved with Industrial Wireless back in 2009 in a business development role for the EMEA region. Currently Diederik is leading the Industrial Wireless business development efforts at Honeywell Process Solutions in a Global capacity. Diederik Mols also is Chairman of the Governance Board at the ISA100 Wireless Compliance Institute. Since January 2015 he is an active team member of the WCI EMEA Marketing Team. Diederik started his career as an officer in the Dutch Navy and over the years he gained solid business skills with a number of multi-national organizations in various roles across Engineering, Sales, Marketing and General Management. Diederik holds Degrees from the Royal Dutch Naval Academy and the Delft University of Technology, the Netherlands.

Training Agenda

- 10:00 – 10:30 ISA100 Wireless Compliance Institute and Standard Intro
- 10:30 – 11:30 ISA100 Network basics and implementation, Eusebiu Jecan, ISA100 WCI member, CDS WIRELESS
- 11:30 – 12:00 Network demo, Q&A morning session
- 12:00 – 13:00 Lunch, networking
- 13:00 – 14:00 Design and implementation of Wireless Gas detection and end-to-end SIL2, Adne Olsen, ISA100 WCI member, Draeger, Herman Zwijnenberg, ISA100 WCI member, Yokogawa
- 14:00 – 14:45 Why wireless, why ISA100 Wireless, use cases of ISA100 Wireless, Diederik Mols, Honeywell
- 14:45 – 15:15 Coffee & Tea break, networking, touch and feel demo equipment
- 15:15 – 15:45 Wireless steam trap monitoring, Christian Mallinson, Spirax Sarco
- 15:45 – 16:00 Summary, Q&A, Certificate ceremony, networking

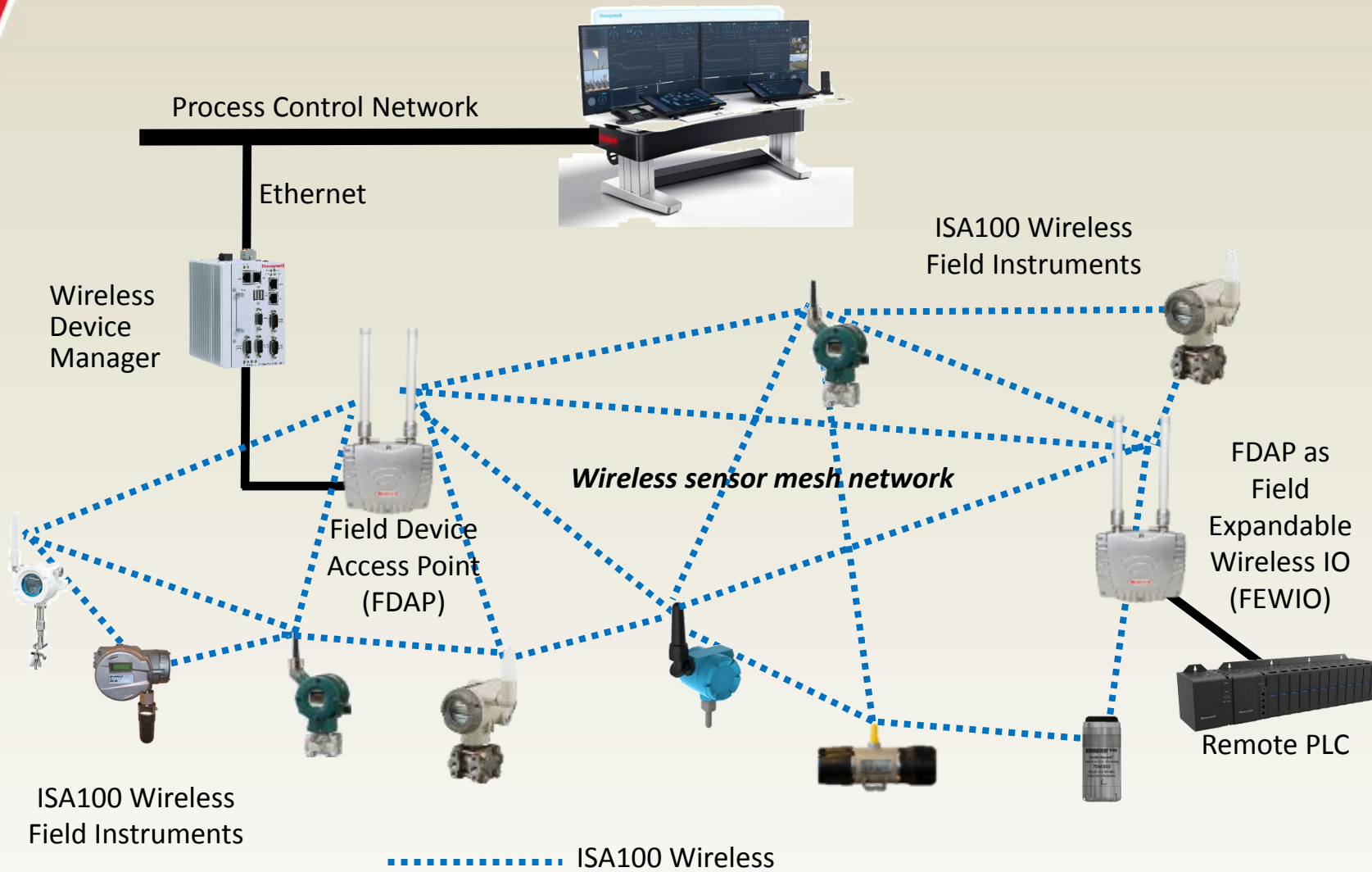
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Introduction to industrial Wireless



Applications examples

- Machine health monitoring
- Basic process control
- Monitoring of well heads
- Remote process monitoring
- Leak detection monitoring
- Diagnosis of field devices
- Condition monitoring of equipment
- Environmental monitoring
- Tank level monitoring
- Gas detection
- Fuel tank gauging
- Steam trap monitoring
- Open loop control
- Stranded data capture
- And more

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ISA100 Wireless Fast Facts


- International standard IEC 62734 since 2014
- Complies with ETSI EN 300 320 v1.8.1 (LBT)
- End-User Driven Standard - meeting all current and future industrial needs
- Sensor routing or field routers for best performance – Freedom of choice
- Broad Multi-Vendor Portfolio of ISA100 Wireless Devices
- ISA100 Wireless enables SIL-2 Certification
- Ensured Interoperability - best-in-class solutions from best-in-class suppliers
- Readily available ISA100 Wireless Modules and Stacks
- Enable fast-track development and go to market


Benefits of ISA100 Wireless Instrumentation


Cost Savings	<ul style="list-style-type: none">• Up to 90% of installed cost of conventional measurement technology can be for cable conduit and related construction• Typically: 1/2 the costs, 1/5 of the time• New and scaled applications are now economically feasible
Improved Reliability	<ul style="list-style-type: none">• Wired sensors may be prone to failure in difficult environment• Wireless can add redundancy to a wired solution
Improved Visibility	<ul style="list-style-type: none">• Condition monitoring of secondary and remote equipment• Process monitoring, fast additional data for trouble shooting
Improved Control	<ul style="list-style-type: none">• Add wireless to existing processes for more optimal control
Improved Safety	<ul style="list-style-type: none">• Safety related alarms - end to end SIL2 certifiable


ISA100 Wireless Product Portfolio


Infrastructure

 **Independent Gateway**
• Honeywell, Yokogawa


 **Access Point (AP)**
• Honeywell, Yokogawa


 **Integrated Gateway/AP**
• Honeywell, Yokogawa, CDS, Nexcom


 **GW/AP + Recorder**
• Yokogawa


 **Adapter (HART, etc.)**
• Honeywell, Yokogawa

Measurement & Control

 **Temperature**
• Honeywell, Yokogawa


 **Pressure / Flow**
• Honeywell, Yokogawa


 **Level**
• Honeywell, Yokogawa


 **DI/DO, AI**
• Honeywell, Yokogawa


 **Valve Position**
• Eltav, Flowserve, Honeywell


Energy Efficiency, HSE & Asset Management

 **Corrosion**
• RCS, Honeywell

 **Steam Trap**
Spirax Sarco, TLV, Armstrong, Bitherm

 **Vibration**
• Bently Nevada

 **Gas**
• GasSecure, Scott Safety, New Cosmos, Riken Keiki

 **pH**
• Honeywell, Yokogawa

Online resources

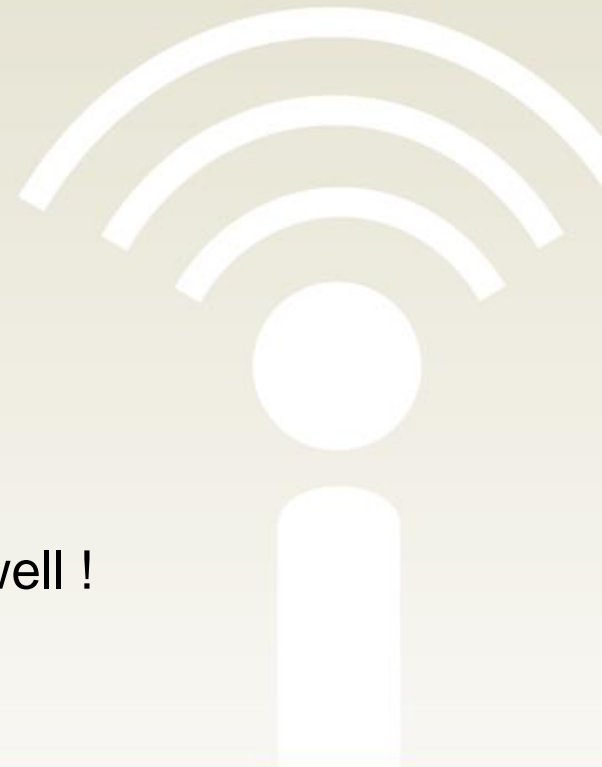


www.isa100wci.org

- Learning Center with White Papers
- Articles, End-user stories, Forum
- Receiving over 20,000 web views per month
- Full list of certified/registered ISA100 Wireless devices
- And more useful content for you and your business

LinkedIn [ISA100 Wireless Interest Group](#)

- Latest news, end-user and expert discussions, insights
- 700+ members and growing; please join and invite your peers to join as well !
- Receiving over 5,000 web views per month



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Summary

Costs

- Typical conservative cost saving of \$10k per wireless instrument over traditional hardwired installation

Speed

- Project execution in 1/5th of the time relative to traditional wired. Quickest installation time - data in just 1 day

Performance

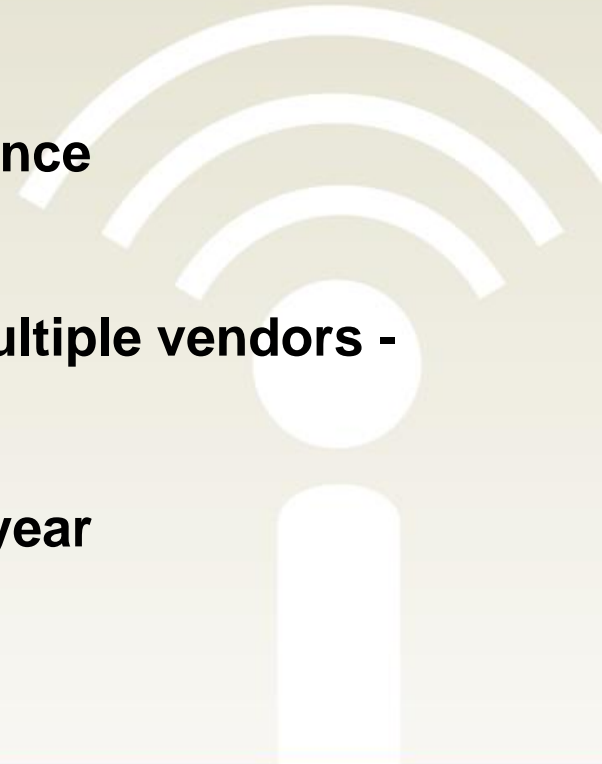
- ISA100 Wireless enables near real time performance

Choice

- Large portfolio of ISA100 Wireless devices by multiple vendors - Investment protection

Innovation

- Innovative new devices brought to market each year



**THANK
YOU**

For Your Attention!



Questions?



www.isa100wci.org



[ISA100 Wireless Interest Group](#) 

700+ members and growing; please join and invite your peers to join as well !

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