



*Setting the Standard for Automation™*

# **A Movement Toward Wireless Standards Solutions in Factory Discrete and Hybrid Applications**

ISA EXPO 2008

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# Welcome

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Co-Chair, ISA100 Factory Automation Study Group

Cliff is responsible for strategy development for new technologies and applications at Rockwell Automation. With over 25 years in the automation business, and as a 20 year member of ISA, Cliff has been involved in every aspect of automation – from product and system definition to solution delivery to sales and marketing and now strategy.

**Rockwell**  
**Automation**

# Agenda

- Factory Automation in Discrete/Hybrid Manufacturing
- ISA100 Factory Automation Study Group
- Vision
- Scope
- Goals
- Timeline

# Our Sandbox?

- ISA 100.11a largely for process applications



*Process Applications*

- This only gets us part of the way there



*Machine Applications*

# Factory Automation Includes MACHINES

- Different needs, different challenges
- Higher speeds
- Tighter spaces
- Larger quantities

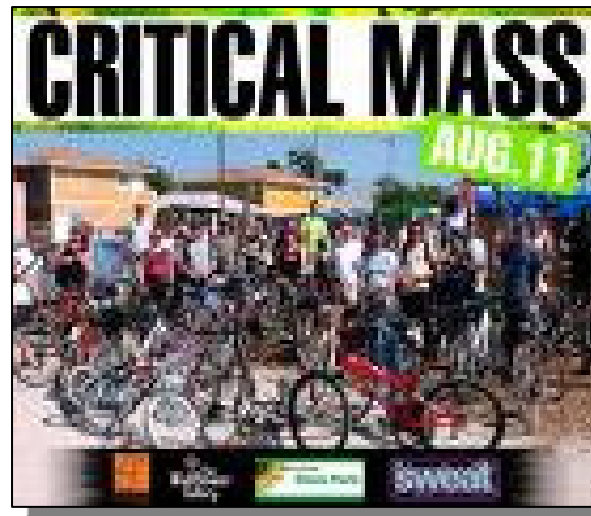


# ISA100 Factory Automation Study Group

- At the ISA100 meeting in Houston (October 2007), support formed to understand where wireless networks may be applied.
- An interest group was formed to reach out to all interested parties.
  - It sought the interest level in the industry around the possible development of a standard for a wireless factory/discrete automation system
  - It would serve hybrid and discrete industries (e.g., Consumer Goods, Electronics, Automotive, Aerospace and other industries).
  - In contrast to environments driving the ISA100.11a (release 1) and other emerging interest groups, this group will consider:
    - assembly, batch, blending, packing, robotics, shop floor data collection and other applications.
    - These are likely to drive different demands for mobility, scalability, point density and lower latency.

# ISA100 Factory Automation Study Group

- March 2008: ISA100 elevated the status of the Interest Group to a Study Group based on the following:
  - There is a critical mass of participation and active solicitation of new members (e.g., ARC Forum/ISA100.11a meeting)
  - Participants have expressed the desire to begin work on Requirements Gathering and Use Case development
  - Participants have expressed the need for greater structure and a definition of work product(s) to focus discussions and further discovery and to form liaisons with different activities internal and external to ISA
    - all elements a Study Group can offer



# ISA100 Factory Automation Study Group

- The ISA100 Factory Automation Study Group has defined the following:
  - Vision
  - Scope
  - Work Products
  - Timeline



# Vision

- What is the most value this Study Group can provide to ISA100 and ISA?
  - The ISA100 Factory Automation Working Group will develop and maintain:
    - Requirements
    - Recommended practices
  - Demonstrate leadership of ISA100 professionals in the application of industrial wireless technology in Factory Automation applications.
  - Collaborate with other standards-making and specifying organizations to benefit the end user community and ensure standards are developed that address our needs in the area of factory automation



# Scope

- Provide descriptive requirements and recommendations regarding practices for deployment of wireless technology for Factory Automation applications. This scope includes, but is not limited to:
  - From monitoring to safety
  - Wireless, with reference to wired infrastructure as necessary
  - Technology descriptions and comparisons
  - Factory Automation topologies
  - Existing, emerging, and conceptual solutions
  - ISA100 interface to IEC and other bodies with interest in Factory Automation



# Work Products

- Documents with Working Titles:
  - “Requirements for Wireless in Factory Automation”
  - “Recommended Practices for the Deployment of Wireless Systems for Factory Automation”



# Timeline

- Bi-Weekly teleconferences
- Face-to-Face meetings
- Summit Presentations
- Draft documents for Working Group review by end of 2008
- Final documents for distribution to the public by mid-2009





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# Interested? Join Us!

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