

A dark blue world map is centered in the background of the slide, showing the outlines of continents.

Objectives

Wireless Factory Starter Group Meeting

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Need for standardization

- ❑ **Summary of past activities**
 - **Hell's Kitchen event**
 - **ETSI Workshop on Wireless Factory**

- ❑ **Objectives of the Starter Group meeting**
 - **What you will get**
 - **What is expected of you**

Hell's Kitchen on Wireless Factory

- ❑ **Need for wireless industry standardization noted**
 - wireless increases flexibility
 - harmonized approach supports acceptance and facilitates deployment
- ❑ **Held at ETSI in June 2008**
 - **fragmented market**
 - due to standalone implementations in the past
 - competing technologies in wireless domain
 - **spectrum issues**
 - crowded licence exempt frequency bands
 - **reliability**
 - jamming, harmful interference
 - **security**
 - encryption, authentication, interception
 - **integration and architecture issues**
 - interoperability

→ Decision to run a workshop in December 2008

Workshop on Wireless Factory

- ❑ **More dedicated profile**
 - identify technologies that could cope with the challenges identified
 - synchronize with sister organizations
 - define potential standardization activities
- ❑ **Held at ETSI in December 2008**
 - spectrum (reliability and security)
 - UWB, DECT
 - exclusive spectrum for wireless industry automation
 - usage of licensed spectrum
 - Real-time and low latency
 - integration and architecture
 - interoperability
 - transparent communication channels
 - cooperation
 - IEC, ISA, HART, PNO
 - set of comprehensive and complementary standards

→ Creation of Starter Group on Wireless Factory Standardization

Wireless Factory Starter Group Meeting

❑ Definition

- preparing standardization activities on a specific topic
- open to non ETSI members
- get an idea which work should be set up
- community building and promotion

❑ Participants

- vendors
- users
- silicon makers
- network operators
- regulators
- test houses
- partners

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□ Spectrum

➤ reliability

- alternatives to crowded licence-exempt bands
- UWB, DECT, UMTS, TETRA
- exclusive spectrum for wireless industry automation

➤ security

- jamming
- encryption

□ Technology

➤ real-time communications

- motion control

➤ low latency

Wireless Factory Starter Group Meeting

- ❑ **Integration**
 - modular network architecture
 - transparent communication channels
 - hardware is not everything

- ❑ **Research**
 - which solutions are already available

- ❑ **Interoperability**
 - conformance testing
 - certification