What 'Works' in the World of Wireless Sensors

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What is The RFID?

What is The RFID Network?

- ✖ We're not journalists
- ✖ We're not analysts
- ✓ We're engineers

We don't publish what people tell us, we <u>make them prove it</u>.

Buyer Beware

- Marketing hype & PR-Ware
- Journalists & analysts unable to tell fact from fiction
- Regurgitated content perpetuates problem

Sometimes it's what they don't tell you (a few examples…)

- Product roadmap, upgrades, & compatibility
- Product availability
- Limitations of physics
  - Range (frequency, power, antenna size)
  - Tag/reader communication time (frequency, amount of data)

Two websites: One Mission

RFID.NET

1. Use
2. Benefit
3. Compare / Evaluate / Buy
4. Install / Implement / Integrate
5. Back to #1 - Repeat

RFIDWIKIPEDIA.ORG

- Define
- Explain
- Educate

We <u>show</u> you how Radio Frequency Identification and wireless RF sensors can improve your business. We provide information, tools, and advice that help you decide what to buy and how to get the most out of RFID.

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How do you **<u>Use / Benefit</u>**?

Example:
An RFID Geiger Counter

How about a handheld to locate based on sensor data?

How do you compare / evaluate / buy?

RF Differences

- Frequency
- Power
- Protocol

Physical Differences

- Form Factor
- Environmental Durability

Interface Differences

- Physical
- Programmatic

Regulatory (FCC, EC, etc.)

Standard vs. Proprietary

Consider the use cases

Manufacturer: financial stability & support

Cost + install+ operate + maintain

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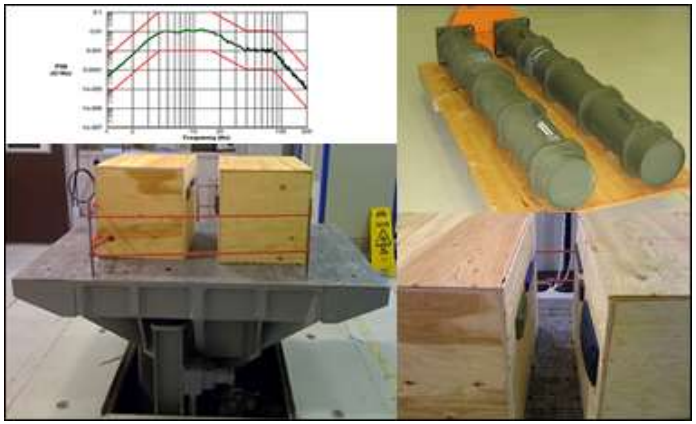
How do you

- **Compare**
- **Evaluate**
- **buy?**

Test in real world environments or simulated ones.



Durable RFID Tag Benchmark

- Defining 'Durability' and the RFID Tags Evaluated
- Vibration Survival Tests
  Supply Chain Logistics Operations Tests: *Mixed Pallets with an RFID Enabled Portal & Handheld RFID Reader*
- Asset Tracking Tests: *Maximum Read Range Outdoors with a GPS enabled Handheld RFID Reader*
- Manufacturing Work-In-Progress Tests: *Maximum Read Range Indoors with a Fixed Position RFID Reader*
- Overall Benchmark Test Analysis
- Important Considerations When Selecting RFID Tags

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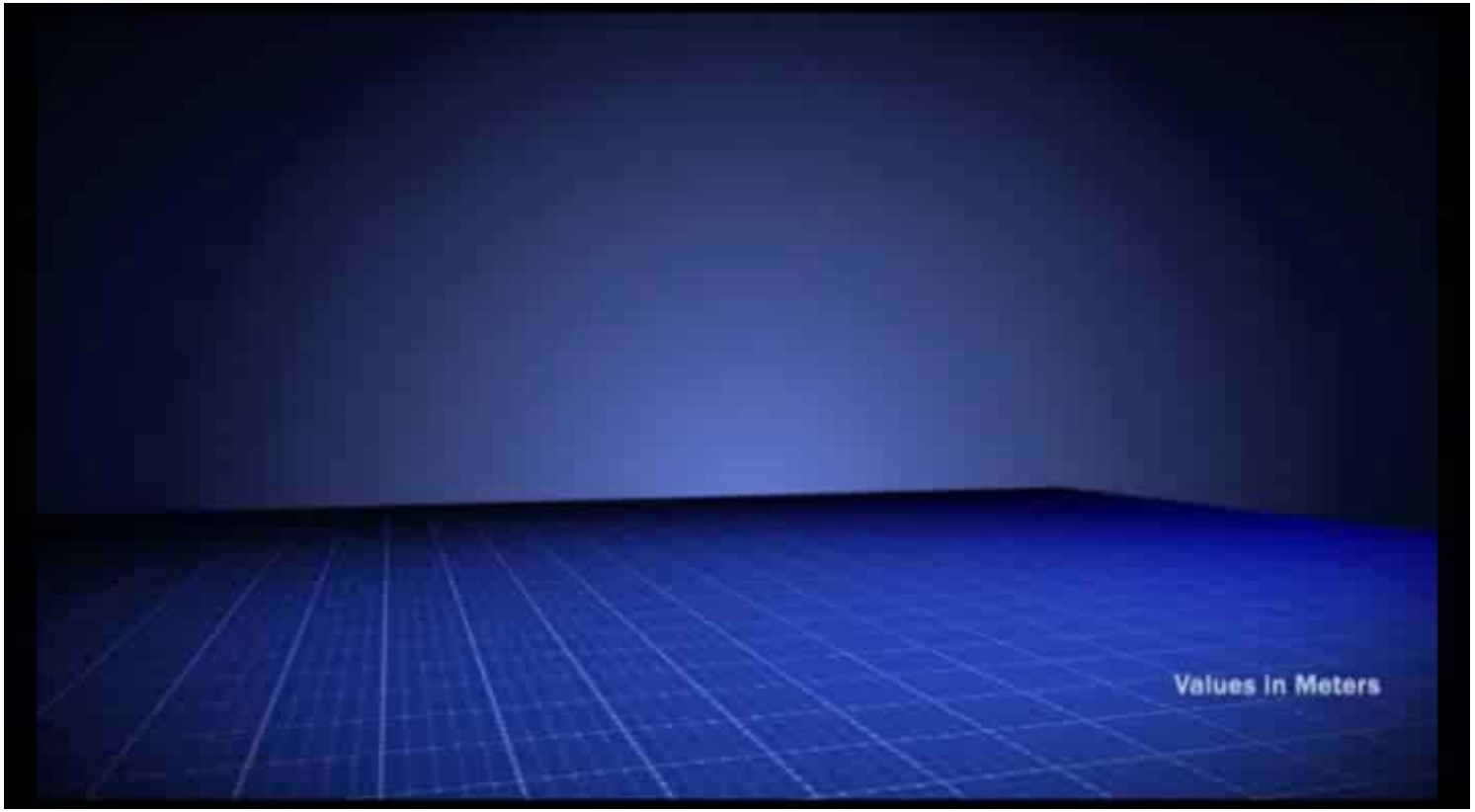
No formulas, no circuit diagrams, but I do have a graph!



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How do you **Install?**

Example: The RFID Coat Rack

RFID System Installation Best Practices

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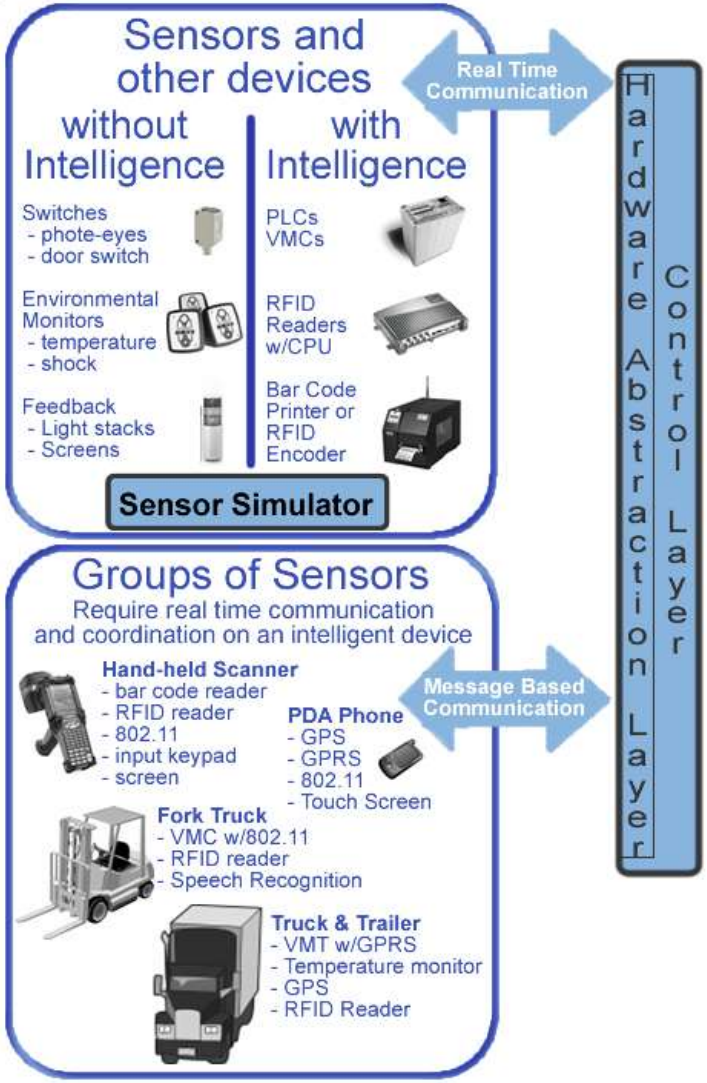
How do you **Implement?**

Specifically, how do you

- Combine
- Control
- Coordinate

wireless sensors together?



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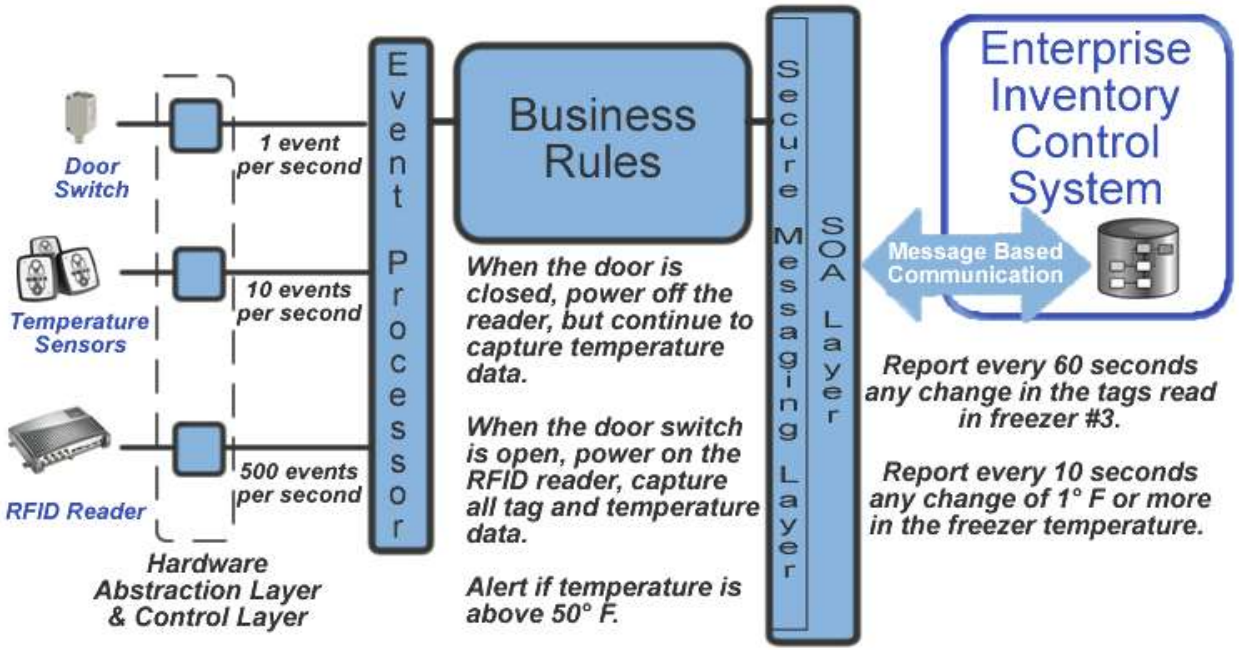
How do you **integrate**?

In a way that derives *business value*.



Create "actionable" data.

Call for Content:

Looking for SME's for **RFIDWikipedia.org**

- ✓ SAW
- ✓ Wireless Sensors
- ✓ RFID

Question to Group:

How does this group work together to share information?

- ✓ Future, Present, & Past Evaluations / Development
- ✓ The RFID Network would like to help this effort.
- ✓ RFID.Net & RFIDWikipedia.org

Thank you!

THE RFiD NETWORK
Stay Tuned
RFID.net

Find more info at:

RFID.Net

RFIDWikipedia.org

RFID.net/FB RFID.net/IN RFID.net/TW RFID.Net/YT

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