





Schneider Electric Wireless Information Network Solutions improve operational efficiencies through digitized information using innovative solutions

- Safe, Secure and Sustainable
- Economical
- Ease of use





Wireless Solutions Reduces Wiring Costs

Schneider Electric Solutions Enables New Digitized Information!!!

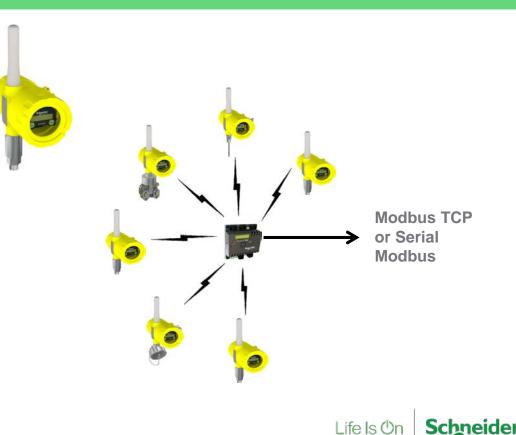
- New digitized information drives:
- Improving Operational Efficiencies
- Increased Productivity
- Better Asset management
- Safety
- Security
- Environmental
- Regulatory Compliance





Accutech:

- Point to Multipoint architecture.
- 100 field units per base radio
- Long distance links (1000m+)
- Hazardous environments.
- Modbus connection from base radio.
- 3-5yr typical battery life.



Centeron

- 4G / 5G Cellular and Satellite Wireless Tank Monitoring
- 4G / 5G Wireless Data Logger
- •
- Cloud-based Inventory Management
- Hosted Data Center for Secure Reporting



Life Is Or







- Why Schneider Electric Wireless Information Networks Solutions?
 - Schneider Electric wireless networks are not just wireless field instruments
 - They are wireless information networks that can provide, temperature, pressure, level, or flow but they provide much more information to improve your business not just monitor your process.
 - Schneider Electric wireless networks are not limited to just one technology
 - BLE Bluetooth Low Energy for short range, 2.4 GHz (EMEA), 900mHz (USA) for mid-range and 4G/5G or satellite for long range. No other supplier can offer as broad of solutions.
 - Schneider Electric Instrument Area Network
 - IAN provides the lowest cost wireless solution without compromising performance.
 - IAN is the simplest wireless network to deploy. (just 2 clicks and your connected)
 - IAN has the longest battery life. (over 10 years)
 - IAN uses Smart Phone, Tablet or PC for configuration. (requires no costly handheld devices)

Life Is 🛈

• We are not just a Process Automation provider, we are your IIOT partner.



Instrument Area Network



Instrument Area Network



Central Concentrator

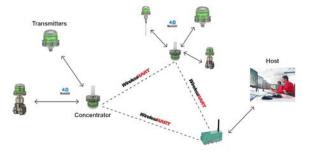
End Node or EN



Why Schneider Electric Instrument Area Network?

The Schneider Electric IAN (Instrument Area Network)

- IAN provides the lowest cost wireless solution without compromising performance.
- IAN is the simplest wireless network to deploy. (just 2 clicks and your connected)
- IAN has the longest battery life. (over 10 years)
- IAN uses Smart Phone, Tablet or PC for configuration. (requires no costly handheld devices)
- IAN is Secure with a 128 bit AES encryption
- IAN transmits over 65 M to the gateway
- IAN eliminates blind spots easy
- IAN uses BLE combined with WirelessHART

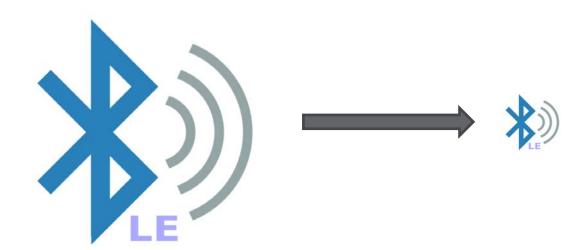


Life Is Or

Hybrid architecture using WirelessHART mesh networking coupled with ultra-officient BLE Instrument Area Networks

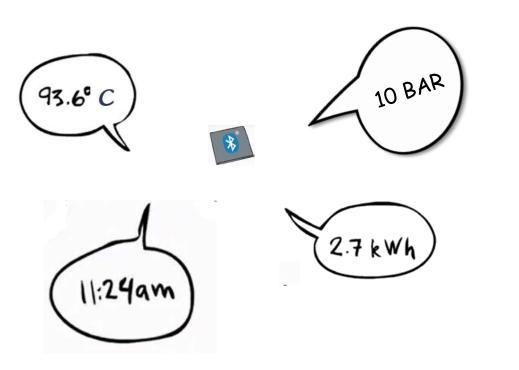


BLE Has a Big Technology in a Small Footprint





BLE Can Measure Anything





BLE is EASY for Business Everywhere!!!





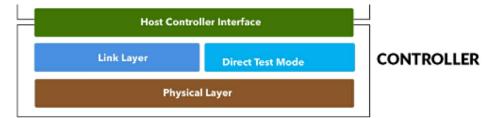
Wireless Security in BLE

- Authentication Pairing and Bonding Functionality
- Integrity Digital Signatures
- Confidentiality Encryption
- Privacy Resolvable Private Addresses

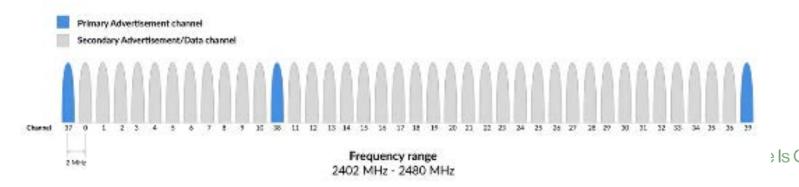




Bluetooth Low Energy Physical Layer



BLE operates in the ISM band (2.4 GHz spectrum), which is segmented into 40 RF channels, each separated by 2 MHz (center-to-center), as shown in the following figure:



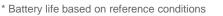
Instrument Area Network - Features



WirelessHART[®] 😵 Bluetooth chneide **Central Concentrator** CC

Features

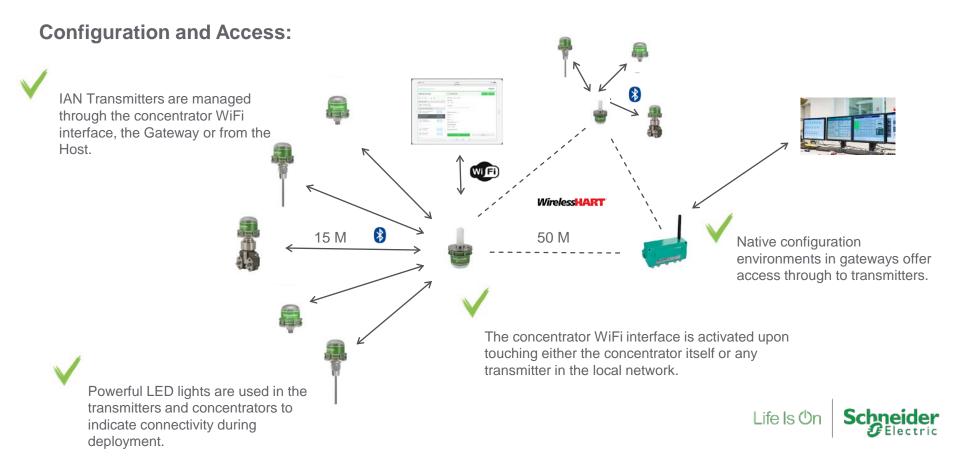
- Plant wide network capability
- 64 Gbit Flash memory storage capabilities
- Foreign EN Bluetooth support growth opportunity
- CC can handle 8 EN's
- Configurable / Readable via tablet
- 128 Bit AES encryption + FHSS technology
- NAM & ATEX Transmitters Certifications
- EN Battery life is 10 years*
- CC Battery life is 5 years*



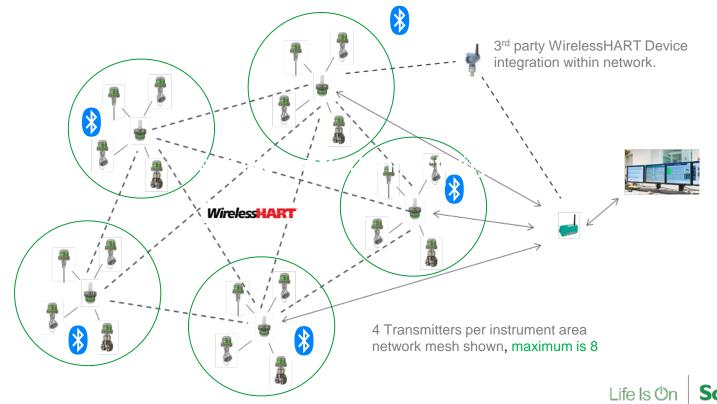


EN

Instrument Area Network – The Basics



Mesh Network Connectivity



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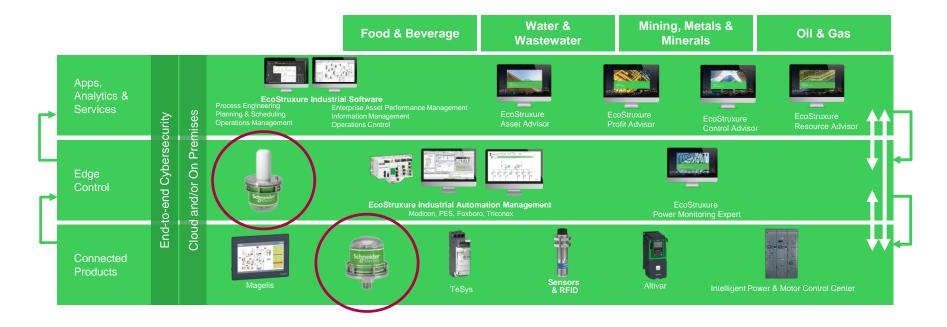
Schneider Electric Wireless Information Network Solutions

Enables Implementation of New Applications resulting in...

- Improved Business Efficiencies
- Improved Business Productivity
- Safer Businesses
- Environmentally Considerate Business
- Regulatory Compliant Business



How it Aligns into EcoStruxure





Schneider

Life Is On



Life Is On Schneider