

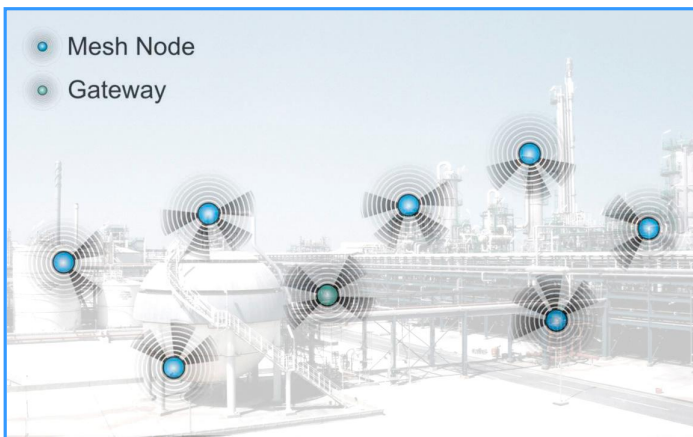


## Industrial Wireless

### Overview

MESCO offers professional product development in wireless communication for the automation technology. MESCO got also long time experience in development, concentrating on industrial communication, functional safety (IEC 61508), EMC and Ex.

Wireless systems are the ideal solution for applications unachievable (on account of size or place) with BUS cable (or attended with additional costs). Industrial wireless technologies close the gap between wireless and cable solutions and -as a consequence- are the most suitable solution for industrial communication in process automation.



### Technologies

- Wireless proprietary protocols, e.g. WISA (Wireless Interface Sensors and Actuators)
- Established mobile standards like GSM, GPRS and UMTS
- Lower layer standards (IEEE 802.11 and 802.15) used for WLANs, Pico networks and sensor/actuator networks for example
- Higher layer standards (IEEE 802.11 and 802.15.4) used for Wi-Fi, Bluetooth, ZigBee and Wireless HART for example
- New technologies like "Ultra Wide Band" (UWB) by Wimedia Alliance
- ISA SP 100 (SP 100.11 "low power WN")

### Services

- Technology consulting and development support
- Product development of wireless systems
- Hardware and Software development
- Firmware development
- Customized gateway development
- Manufacturing development
- Selection of customer specific development environment
- Physical and higher layer protocol construction
- Support of the application layer (upper layer IEEE 802.11 and 802.15.4)
- Functional Safety (IEC 61508)
- Self-contained energy supply
- Star and meshed network topologies
- Certification and registration
- Equipment tests in the fieldbus laboratory