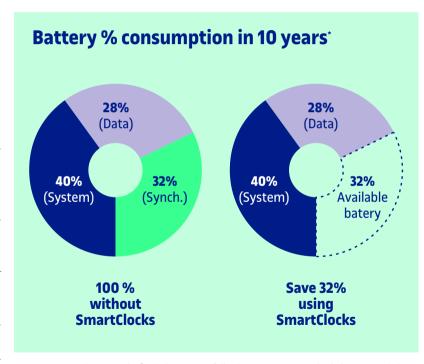


Is your IoT network tight synchronised?

Our patented method allows your IoT network to be tight synchronized without external time sources (GPS) or dedicated communications, being energetically efficient

SmartClocks provides the following advantages

- Auto-synchronisation: save on packet-based synchronization or external time sources such as GPS
- Improves current high accuracy wireless networks' synchronization solutions up to 10 times
- Minimizes communication overhead due to synchronization problems
- Optimizes TDMA network reliability achieving 100% efficiency
- Low-cost solution
- Up to 30% less power consumption



Energy consumption example. * Wireless sensor following ISA100.11a standard; data transmission period: 5 minutes; synchronization transmission period: 1 minute; synchronization accuracy: 1 ms

The perfect solution for data collection scenarios where accurate synchronization and energy consumption reduction are a must

Available for

Any wireless network, especially those with very long periods between reports to a central unit (e.g. LPWAN)



Smart cities

- Measurement and control of public services (water, electricity, gas, etc.)
- Public safety
- Environment
- Urban transport



Logistics and transport

- Fleet management
- Smart traffic management



Industry

- **Process and operations**
- Supply chain and equipment monitoring



Agriculture

- Pest management
- Intelligent irrigation



E-health

- Teleassistance
- Remote patient monitoring



Inventors

Xavier Vilajosana, Borja Martínez, Ferran Adelantado, Pere Tuset, researchers from the Wireless Networks (WINE) group at the Internet Interdisciplinary Institute (IN3)



Patents

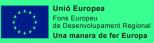
PCT/EP2016/067541,
Drift correction in a wireless
network



tinyurl.com/UOChss







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