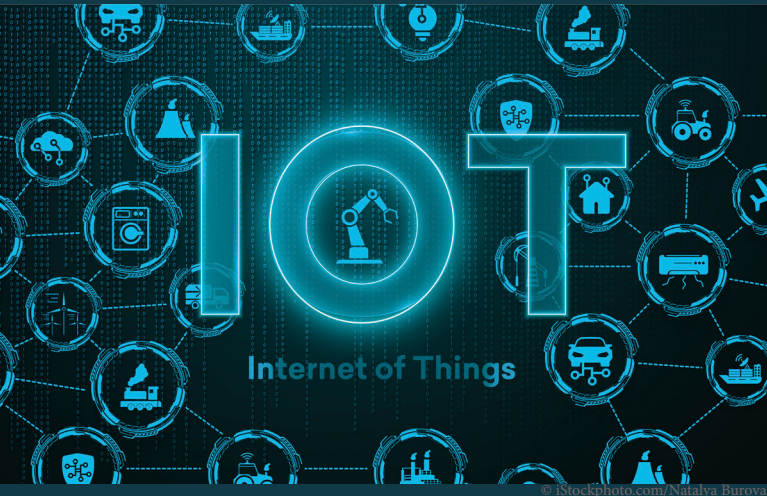With the amount of connected IoT devices growing 18% to 14.4 billion globally (2022 IoT analytics by beechamresearch.com), the ability to provide location is important not only for IoT end applications, but also to support network self-management.

With the number of connected devices growing globally, the ability to provide location in RTLS and IoT becomes a big demand.

Distance and Angle relationship between wireless nodes is required to determine their relative position to each other.

Metirionic helps the Internet of Things industry to localise specific sensor data accurately indoors and outdoors at the highest safety standards– especially in complex buildings and environments.
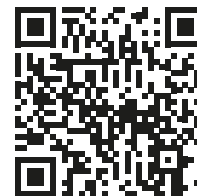
Metirionic engineering team works to fulfil particular IoT/RTLS needs for several components of the FW stack, from specification, development and testing to product launch.

About Metirionic

Established in 2013 in Dresden/Germany. With more than 15 wireless experts and more than 20 Man-years of experience we have gained expert know-how in RADAR technology and into the IoT value chain. Our patented technology offers the best and most reliable positioning information of radio nodes and we believe in the growing importance of this information to make our world of things smarter and safer.

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Services
MIC230131

metirionic
WIRELESS DISTANCE MEASUREMENT

WIRELESS ENGINEERING

WE KNOW THE DISTANCE !

metirionic
WIRELESS DISTANCE MEASUREMENT

The Metirionic engineering team works to fulfil particular IoT/RTLS needs for several components of the firmware stack, from specification, development and testing to product launch.

We have In-depth knowledge of radio-based distance measurements (IEEE, Bluetooth®, UWB, CWFM RADAR) integrated into communication stacks (Bluetooth®, Bluetooth® BLE, WirelessHART, IP500, ZigBee, 6lowPAN).
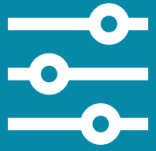
PROJECT SERVICES

- Embedded Systems Software Development.
- High-level PC applications (C, C#, Python, Rust, Linux).
- Bare metal firmware solutions.
- Real-time Operating System based firmware solutions.
- Multi-platform high level software solutions.
- Signal processing and multivariate data analysis algorithm development and implementation.
- Development of wireless and optical measurement technology.

ARCHITECTURE REVIEW

- Digital Signal Processing design review.
- Full characterization of the system architecture and the performance based on requirements and use case.
- Identification of strengths and weaknesses of current solution. Recommendations for optimization and improvement.
- High quality assessment and tailored SW development to achieve the restructuring/implementation of modules according to the specified requirements and acceptance criteria.

TECHNICAL SUPPORT

- Software and system architecture consulting and definition.
- Development of platform independent extendible data and control interfaces.
- Virtualization with Docker.
- Continues Improvements.
- Licensing with update Services.

Tailored SW project development to fit your requirements, boost your proof of concept and improve your application.

Expert set of high-level recommendations report to achieve an optimized and reliable radio-based architecture for your application.

Support to maintain the performance of your application resolve issues and bottlenecks.

POOL OF PATENTS

IOT/RTLS WIRELESS EXPERTS

EXISTING INDUSTRIAL DEPLOYMENTS