Mobile IoT Starter Workshop
Scope in overview

Technology Introduction

- Why Mobile IoT (NB-IoT/LTE-M)? Characteristics in comparison to GSM/LTE
- Mobile IoT vs. other LPWA technologies (LoRa, SigFox)
- CE-Level, PSM, eDRX, IP/Non-IP, SIM hardware, frequency, latency, network availability, roaming

Mobile IoT modules

- Telekom-certified NB-IoT/LTE-M/Multimode chipsets and radio modules
- Which module to choose? Matching of your module selection with your use case:
- How to operate your module to benefit from Mobile IoT? Working with network features as CE-Level, PSM, eDRX etc

Application Design

- Security requirements on network, protocol and application layers
- Module power consumption and efficiency of mobile applications with no direct power connection
- Selected protocols such as COAP & MQTT-SN and their specific structure
- Connecting your backend system via private APN

Live Demo

- Technical introduction into hardware (SIMs and modules)
- Module / application commissioning incl. network connection establishment
- Data transmission with an echo server
- Best practices for working with AT commands and common network parameters
- Network features (PSM, eDRX etc.)