



ENABLING NEW REVENUE STREAMS

✓ **UTILITIES**

✓ **FACILITY MANAGERS**

✓ **CONSUMERS**



Innovative service platform for utilities and energy supplier

The EnergyRadar MeterExtension #1

- Connects to the **local (user) port** of the Smart Meter and provides the data to the EnergyRadar Service Management.
- Provides metering data **from** the Smart Meter **to** the EnergyRadar Service Management **via** Wi-Fi or LTE
- Enables communication interfaces based **on API, MQTT and LwM2M** for the device management.



The EnergyRadar MeterExtension #1

| Key Points

- Allows the connection to **many different meter interfaces**
- **independent** from the meter interfaces, sends the same data structure to applications
- Makes integration **easy**, even if different meters are deployed



Real-Time Monitoring for Smart Meter

The EnergyRadar MeterExtension #1

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Easy Installation

- Preconfigured MQTT & LwM2M
- Service APP available to configure the Wi-Fi and if needed some Meter specific setups
- In case of LTE/NB-IoT all setups are preconfigured

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Supported Meter Interfaces

- HAN Port (Mbus based Norway specification)
- HAN Port (Mbus based Austria specification)
- Serial Port P1 / DSMR5
- RS 485

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Application Interfaces

- REST-API (meter readings and configuration)
- MQTT (publishing only)
- LwM2M (device management)
- X.509 self signed certificates (AZURE tested)

Real-Time Monitoring for Smart Meter

The EnergyRadar MeterExtension #1

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Certifications

- Compliant with WiFi-Alliance, SRRC, FCC, CE (RED), TELEC, IC & KCC
- Compliant with RoHS, Halogen Free, REACH & CFSI HTOL, ESD-HM, MSL, μ HAST, HTSL.

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Wi-Fi Features

- Wi-Fi protocols: 802.11 b/g/n
- Frequency range: 2.4 GHz ~ 2.5 GHz
- Output Power: +22dBm peak power
- Wi-Fi mode: Station/SoftAP/SoftAP + Station
- Security: WPA/WPA2
- Encryption: WEP/TKIP/AES

Real-Time Monitoring for Smart Meter

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LTE/NB IoT Features (Q3/2024)

- eSim: depending on region standard eSim provided by 1nce

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Power supply

- Via smart meter on most HAN ports and P1 ports
- For special smart meter an USB-C connector for external power supply is provided



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