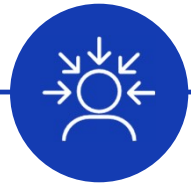


Use case: BICS IoT solutions for smart metering

The challenge

A smart meter bootstrap connectivity solution must be flexible enough to interoperate with the technology platform of any utility provider, anywhere in the world.



Customer context

- There were 93.1 million smart electricity meter unit shipments in 2021
- Worldwide advanced metering infrastructure market values at \$16.14 billion
- Global energy demand expected to increase by **37% by 2040**



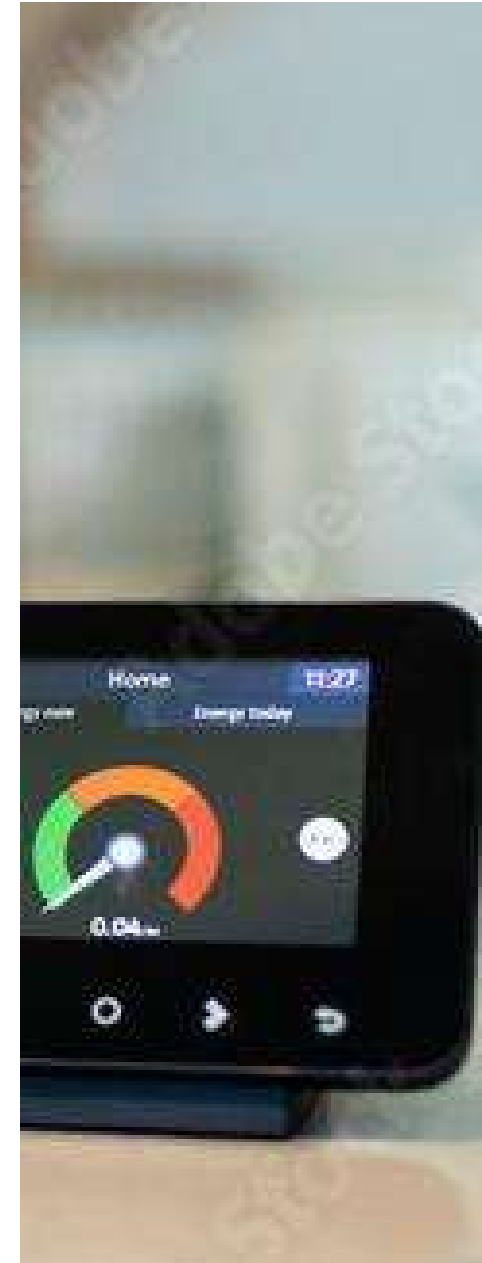
Smart metering applications

- **Ready-to-use** when switched on everywhere in the world
- Local operator connectivity without manual intervention
- **Remote monitoring, upgrades, and troubleshooting**
- Communications with other smart building systems



IoT connectivity requirements

- Worldwide deployment
- Different processes in each country
- **Technical and commercial complexity of local deployment**
- Connectivity with any local operator
- **Low power consumption**



Use case: BICS IoT solutions for smart metering

The solution

BICS SIM for Things offers bootstrap easy-to-deploy international connectivity for smart meter applications.

Broadest global connectivity

- Bootstrap global SIM with default operational profile
 - connectivity across 700 networks in 200 countries
- Customized SIM profiles for automatic local operator connectivity
- No lock-in, flexible optimization with a local SIM profile.

Secure, low-power connectivity

- Support for NB-IoT and LTE-M connectivity
- Autonomous provisioning, de-provisioning, management, and remote troubleshooting
- Built-in security at SIM level to protect deployments



Flexible, technology-agnostic platform

- Ideal for smart metering, either as bootstrap connectivity or as the default global operational profile
- Experience in simplifying the process of establishing a local SIM profile for all major platform technologies

Results

- Embedded seamless global connectivity into smart metering devices
- Optimized initial SIM profile acting as both bootstrap and global operational profile
- Utilities can install meters within any market with minimal intervention