

# PROTECT YOUR SMART METER

## Enhance & Secure with MULTOS

### Efficient Smart Meter Management, Leveraging Enhanced Security & Flexibility

Smart utility meter rollouts in Europe, a segment of the Internet of Things (IoT), represents significant potential. Industry estimates for the number of unique IoT applications developed by 2020 are a quarter of a million, to which smart metering will contribute. Predictions for smart electricity and gas meters in use in Europe by 2020 are 163 million units, representing 56% penetration, and 49 million units respectively. Global estimates have been as high as 800 million. However, smart utility meters often require flexible application lifecycle management with trusted secure service provision control and updating. MULTOS technology fulfils these requirements.



#### Secure: End to End Protection



Public Key Infrastructure (PKI) is IT industry renowned as the optimal architecture for combined flexibility and security. MULTOS utilises PKI at its core to secure endpoint IoT devices. Smart meter IoT product providers can leverage MULTOS Trust

anchors, comprising embedded integrated circuits with the loaded MULTOS operating system. This provides an ultra-secure execution environment which protects the smart meter from malware and other digital attacks. MULTOS Trust Anchors support provisioning from cryptographic services from hosted or licensed MULTOS Certificate Authority platforms, facilitating full end-to-end protection, and ultimately protecting the smart meter asset and the associated data and service.

#### Flexible: Provisioning & Updating

IoT applications can be pre-loaded within MULTOS Trust Anchors, or loaded remotely as required by the supply utility service. The core PKI architecture facilitates flexible and cost effective real-time provisioning. If the end consumer of the service switches energy provider, the flexible and secure MULTOS application deleting and loading process would allow convenient updating, all transparent to the end consumer. This allows the current energy provider to have assurance that their service is protected and fully under their control.

#### Open: Vendor Agnostic Technology

MULTOS is an open standard, managed by a diverse and open industry consortium, ensuring a flexible market eco-system for all members and users of the technology. Membership continues to grow as more businesses leverage the benefits MULTOS provides for secure applications and IoT devices.