



MeterForge

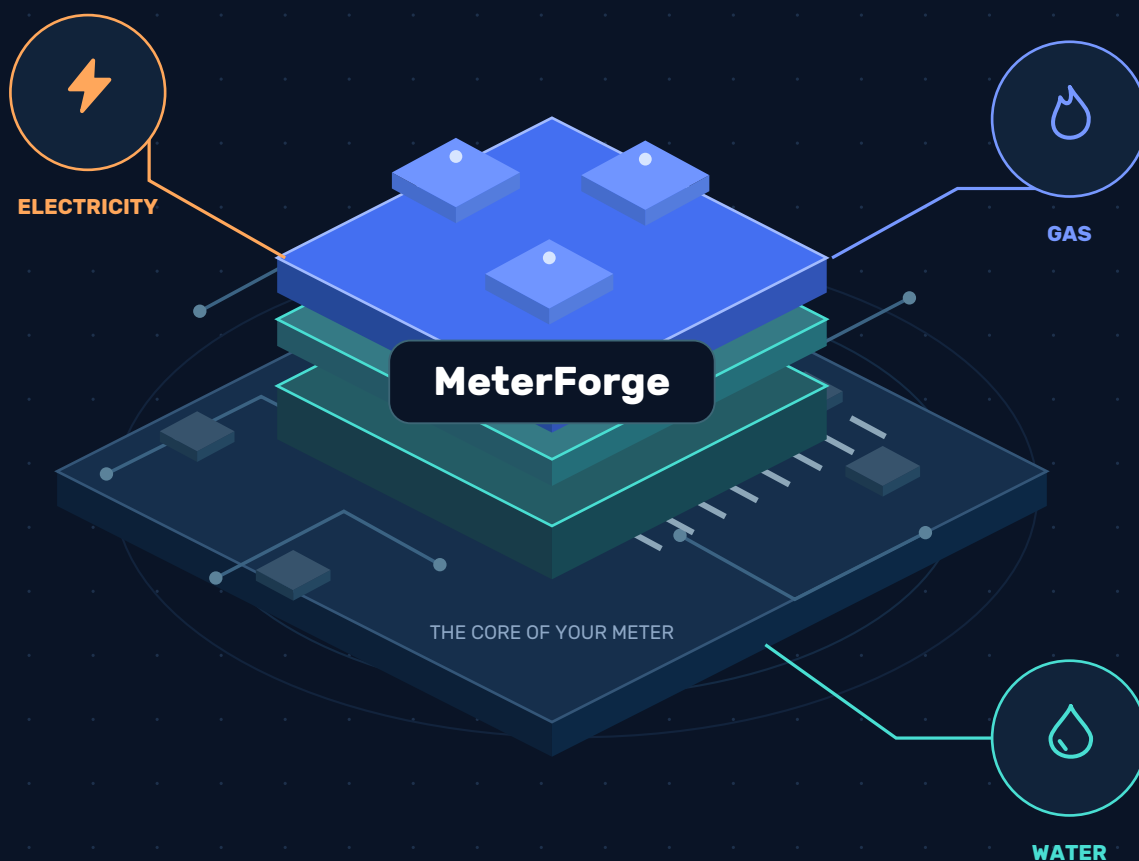
DESIGN • GENERATE • DEPLOY

FOR SMARTER UTILITY METERS

Firmware for the meters of tomorrow.

ELECTRICITY • GAS • WATER

One platform to design, configure and evolve
smart electricity, gas and water meters.



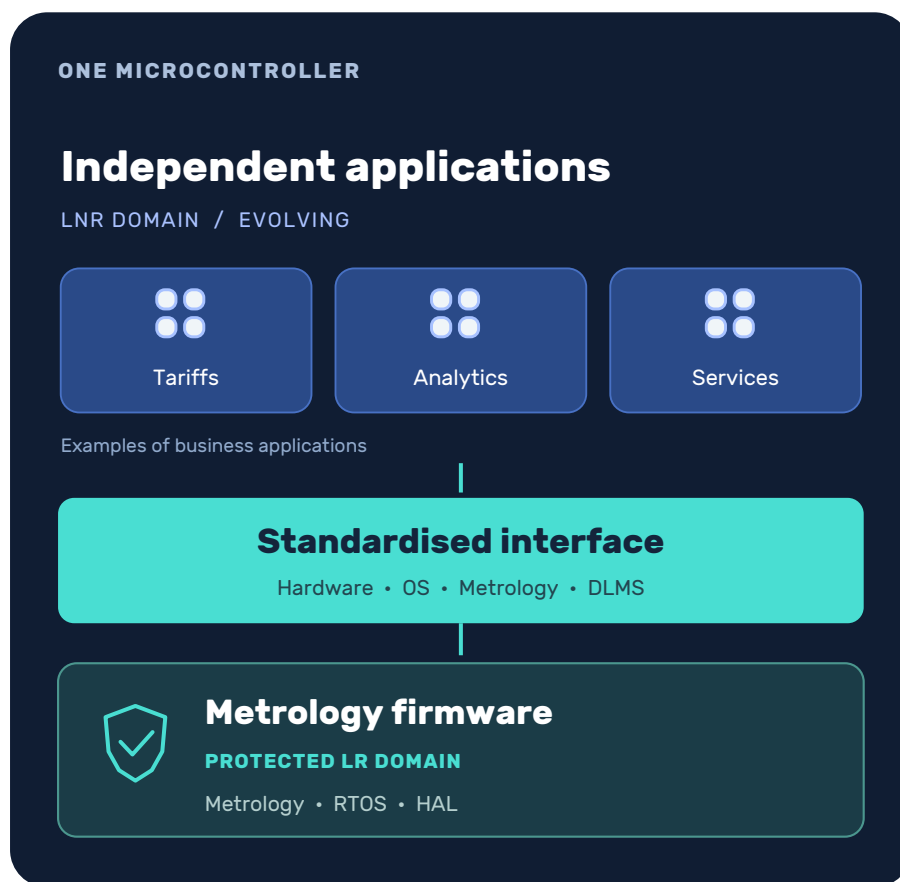
One platform. Three utilities.



THE METERFORGE ARCHITECTURE

A stable foundation. Applications that evolve.

A modular architecture that separates metrology from business applications on a single microcontroller.



01 Evolve

Add or replace applications independently of the metrology firmware.

02 Connect

A shared interface provides access to platform services.

03 Protect

The processor's built-in hardware protections isolate the software domains.

LR: legally relevant software. LNR: legally non-relevant software.

FROM SPECIFICATION TO FIRMWARE



Design

Define and configure your meter's functions.



Generate

Assemble components and generate firmware.



Deploy

Integrate, test and deploy on the target platform.



VALUE ACROSS THE METERING ECOSYSTEM

One platform. Two perspectives.

A common software foundation for long-life utility meters and faster product development.

Utilities

Specifications & lifecycle control

- **Define a common framework**

Use MeterForge as a basis for separation rules and certification criteria in future meter specifications.

- **Assess implementation quality**

Use clear LR boundaries and controlled interfaces to evaluate meter software.

- **Control LNR applications**

Retain control of selected or all LNR functions after deployment.

- **Reduce supplier dependency**

Maintain software continuity across the installed base, even if a supplier exits the market.

Meter manufacturers

Platform & product development

- **Build on a reusable platform**

Configure a shared software base across your meter range.

- **Develop and maintain modules**

Split LNR firmware into independent components to simplify development, testing and maintenance.

- **Simplify hardware migration**

A standardised interface eases LNR migration to other supported hardware, subject to integration.

- **Reach the market faster**

Combine reuse and modularity with a stable integration boundary to shorten development cycles.

A foundation for conformity and cybersecurity

WELMEC SOFTWARE SEPARATION

Support LR/LNR separation objectives through a protected domain and controlled interfaces.

CRA READINESS

Support Cyber Resilience Act requirements with product security and lifecycle processes.

Conformity depends on product implementation, evidence and the applicable assessment.



ANDREA INFORMATIQUE



FOR MANUFACTURERS AND UTILITIES

Your next meter. Your next step.

Build on Andrea's expertise and a reusable software foundation to create your range of smart meters.



Accelerate development

Reuse components and configure a shared architecture across your projects.



Stay in control

A standardised interface and native execution, without a virtual machine.



Prepare for validation

Use Andrea's tools and support for integration, testing and certification.

THE ANDREA ECOSYSTEM

DLMS/COSEM

G3-PLC

Wi-SUN

LoRaWAN

M-Bus

LTE / NB-IoT

Connectivity, integration and features are defined for each project.

Let's talk about your next meter.

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andrea.fr/meterforge



DISCOVER
METERFORGE