CRITICAL
S O F T W A R E

SMITEn

Smart Meter Integrated Test Environment

OUR EXPERIENCE

Today, there are many smart meter implementation projects being undertaken around the world. Some of these projects have developed their own regulations and protocols, which the industry must adhere to when communicating across networks.

Energy suppliers therefore require evidence from smart meter device manufacturers that their devices will work on these networks. To achieve this, they need a validation solution that provides assurance that a device meets all necessary requirements from an independent party. That's where SMITEn (Smart Meter Integrated Test Environment) can help.

CRITICAL Software developed SMITEn to provide:

• A simple test infrastructure for setup and maintenance

• An integrated toolkit that makes it easy to implement GBCS/SMETS/DUIS release updates

• A single solution that supports all test scenarios (emulated, physical and end-to-end)

• An emulated communications hub and gateway connections

• A dedicated and bespoke solution from an independent supplier

OUR SMART SOLUTION

Leveraging its success developing smart meter test tools (like GFI in the UK), CRITICAL Software developed SMITEn so that the energy industry and consumers can more quickly realise the benefits of investments made in new smart meter devices and the infrastructure they use.

SMITEn provides a simple and flexible infrastructure with an integrated toolkit that supports all test scenarios. It provides real and emulated connectivity to suit different client capabilities and enables easy replication of issues and verifiable fixes.

The initial version of SMITEn addressed challenges in the UK, using CRITICAL Software's experience of the Data Communications Company (DCC) infrastructure, of GBCS, SMETS1 and SMETS2, of GFI and P&C, and many other key niche technologies and protocols.

Having proven to be a significant success in these cases, SMITEn can now easily be configured to test against different protocols and regulations for other projects.

A FULLY-MANAGED SERVICE

A comprehensive list of optional services is available to clients who wish to take a more "managed service" approach. Additional support (on or off a client's site) for installation, configuration and integration is available as part of CRITICAL Software's offer. Additionally, training options, automated test specification services, issue resolution support, evidence pack development, technical consultancy, software stack and hardware (provision and implementation) are also available.

CRITICAL Software also offers SMVaaS (Smart Metering Validation as a Service), where its experts are able to receive smart meter devices and provide a full testing service.

If you'd like to know more about how CRITICAL Software can help develop a bespoke SMITEn or SMVaaS package to suit your needs, please contact us on the email address below.

ABOUT CRITICAL SOFTWARE

CRITICAL Software provides systems, software and data engineering services for safety, mission and business-critical applications, helping to ensure clients meet the most demanding quality standards for safety, performance and reliability. Its data engineering products and services also provide clients with the information they need to manage their important assets, helping them to achieve better business performance.

CRITICAL works in a diverse range of high-tech industries, including aerospace, automotive, defence, energy, finance, government, healthcare, railway, space the smart sector and telecoms. It's customer base includes NASA, ESA, Bombardier, Airbus, EDP, Data Communications Company, Vodafone, AES, the Portuguese Government, Daimler Chrysler, Martifer Solar and many more.

SMITEn