

Are you SAPC ready?

SAPC is coming. As an integral part of the development of the UK Smart Metering programme, the rollout of Standalone Auxiliary Proportional Controllers across the network will commence soon, in response to the latest Smart Meter Equipment Technical Specifications released in November 2020.

SAPC will be necessary to ensure continued electricity provision to millions of homes and businesses while carefully managing the supply of energy to equipment that has significant power requirements such as electric vehicles (EVs).

By leveraging its intimate knowledge of the Great Britain Companion Specification (GBCS) and its implementation, Critical Software has created the first available SAPC product.

OUR SAPC CAPABILITY

Critical's SAPC software enables the secure control of auxiliary loads using up to five Auxiliary Controllers. It supports:

- One or more Auxiliary Proportional Controllers (APC)
- One or more Auxiliary Load Control Switches (ALCS)
- One or more Home Area Network Connected Auxiliary Load Control Switches (HCALCS)
- A boost function allowing users to request temporary increased charge rates to their EVs
- The update and retrieval of the load controller's security credentials

OUR GBCS STACK

SAPC implementation was proven end-to-end using Critical's GBCS Stack, which is fully compliant with the GBCS 4.0 and SMETS2 V5.0.

Developed using up-to-date C++, our stack emulates DCC's and allows for the rapid development and testing of SMETS2 smart metering devices such as:

- Auxiliary Proportional Controllers (APC)
- Auxiliary Load Control Switches (ALCS)
- Electricity Smart Metering Equipment (ESME)
- Gas Smart Metering Equipment (GSME)
- In-Home Display (IHD)
- Prepayment Interface Device (PPMID)
- Consumer Access Device (CAD)
- Home Area Network Connected Auxiliary Load Control Switches (HCALCS)
- Hand-Held Terminal (HHT)

WHY SAPC?

• If you're a **DNO**, you'll want to make sure you can communicate with and control millions of SAPC devices on your regional network and control load to balance the network.

• If you're a **utilities company**, you'll want to provide your customers with attractive energy plans that allow you to balance the needs of the network with their need to charge EVs.

• If you're a **meter manufacturer**, you'll need to ensure that the equipment you provide is SAPC compliant. Without it, you won't be able to access the booming EV market.

ABOUT CRITICAL SOFTWARE

Critical Software provides systems and software services for safety, mission and business-critical applications. We work closely with our clients, helping them to meet the most demanding standards for performance and reliability.

We were founded in 1998, with NASA our very first client. Today, we work across many international industries and have offices across the globe.

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