

*CiA workshop:
Battery and energy management*

2022-12-13

Discuss with CAN in Automation (CiA) the requirements of CAN-based battery- and energy management. For this purpose, CiA has scheduled a web-based workshop on December 13, 2022, start 10:00 (UTC+1).

An increasing number of applications operates based on energy, buffered in a battery system. To provide the availability of these kind of applications, they rely on a sophisticated energy management as well as on battery systems, utilizing a comprehensive battery management. CiA has already several CANopen device and application profiles for this application field. CiA intends to discuss the requirements of modern embedded control in energy management systems as well as battery management systems. CiA uses the results of the discussions as bases for maintenance of its existing specifications such as:

- CiA 418 – CANopen device profile for battery modules,
- CiA 419 – CANopen device profile for battery chargers,
- CiA 454 – CANopen application profile for energy management systems
- CiA 458 – CANopen device profile for energy measurements,
- CiA 302-9 – CANopen energy saving,
- CiA 320 – CANopen services and protocols for sleep mode handling.

Additionally, CiA intends to discuss, whether new CAN technologies, such as CAN FD or CAN XL need to be considered.

Date and time

December 13, 2022 Start: 10:00 to 12:00 (UTC+1), e-meeting

Agenda*

- Welcome and introduction (Reiner Zitzmann, CiA)
- Overview on CiA profiles for energy- and battery management (Reiner Zitzmann, CiA)
- Overview on latest CAN technology (Holger Zeltwanger, CiA)
- Contributions by “CAN users”/attendees
- Discussion on open issues
- Workplan, and next steps

*The agenda is subject to change.

Audience

Decision makers; embedded device and system designers in the application field of energy management and battery management.

Contributions of the attendees, e.g. by means of short presentations of their use cases are appreciated.

Registration

The workshop is for CiA members. People from CiA non-member companies may participate on request. For registration please contact: secretary@can-cia.org.