

***CiA workshop:
CAN in rail vehicles***

2022-09-30

CAN in Automation has scheduled a web-based workshop on September 30, 2022, start 14:00 (UTC+2). On occasion of this workshop, CiA intends to discuss requirements of modern embedded control in rail vehicles.

Some years ago, CiA and its members developed several CANopen-based profiles for devices and sub-systems, used in locomotives and coaches; among others:

- CiA 421 - Train vehicle control system,
- CiA 423 - Train power drive system,
- CiA 424 - Rail vehicle door control system;
- CiA 426 - Rail vehicle exterior lighting control system;
- CiA 430 - Rail vehicle auxiliary operating system;
- CiA 433 - Rail vehicle interior lighting control system;
- CiA 449 - Rail vehicle HVAC system.

These profiles were based on UIC leaflets as well as additional requirements, submitted by the railway industry or stakeholders. The profiles were submitted to IEC and were considered, when the CANopen Consist Network was standardized in IEC 61375-3-3.

On occasion of this workshop, CiA intends to discuss, whether the existing profiles meet still the requirements. In addition, CiA likes to discuss, whether new CAN technology, such as CAN FD or CAN XL need to be considered.

At the end of the workshop the results will be collected. The workshop may serve as a starting point for new activities of the SIG rail vehicles that discusses the collected challenges and update requests.

Date and time

September 30, 2022 Start: 14:00 to 17:00 (UTC+2), e-meeting

Agenda*

- Welcome and introduction (Reiner Zitzmann, CiA)
- Overview on CiA profiles for railway applications (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 rail vehicles.

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.