

CiA workshop:

2023-02-07

Measuring devices and closed-loop control

Discuss with CiA the latest requirements on measuring devices and closed-loop controllers. Evaluate together with further experts whether the related CANopen device profile CiA 404 still meets today's as well as future requirements. The results of the workshop are used by CiA to update this well-accepted CANopen device profile:

- CiA 404-1 – Generic objects and generic PDO mapping,
- CiA 404-2 – EUROMAP specific parameters.

Closed-loop process automation environment is highly dependable on physical measurements delivered by various types of measuring devices. These devices range from simple transducers to complex pre-calibrated signal processing units which address every aspect of signal conversion, scaling, filtering, and error correction. More complex devices may also require a controller to manage the measuring process and tasks. The CANopen device profile for measuring devices and closed-loop controllers CiA 404 offers the usage of these functions, in a harmonized way, at the CANopen interface.

Additionally, CiA 404 specifies EUROMAP 75 measuring amplifier parameters and EUROMAP 66 heating/cooling device parameters

Date and time

February 07, 2023, Start: 13:00 to 15:00 (UTC+1), e-meeting

Agenda*

- Welcome and introduction (Oskar Kaplun, CiA)
- Measuring devices and close-loop control environment (Uwe Koppe, MicroControl)
- CiA 404 overview (Uwe Koppe, MicroControl)
- Overview on latest CAN technology (Uwe Koppe, MicroControl)
- 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 measuring devices and closed-loop control environment.

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.