

DOMAIN in data object 1031_n, this object displays just devices errors that are currently present at the device and they are removed from the list, if they are solved.

CAN FD and CANopen FD seminars

In June, CAN in Automation will offer seminars about [CAN FD](#) and [CANopen FD](#).

The CAN FD seminar on 04 June 2019 focuses on the improved CAN FD protocol, as specified in ISO 11898- 1:2015. Attendees learn the details of the CAN FD protocols and the differences to Classical CAN. Additionally, the seminar discusses further relevant aspects with regard to CAN FD device design, system design, as well as diagnostics. Furthermore it gives an overview on the impacts of CAN FD on CAN-based higher layer protocols.

The CANopen FD seminar on 05 June 2019 explains in detail the CANopen FD protocol as specified in CiA 1301. Attendees get familiar with the embedded network design options provided by CANopen FD. Additionally, it provides know-how about that most of already available classic CANopen knowledge is applicable in CANopen FD networking, as well.

CiA members can attend the seminars free-of-charge.

Summary

CAN FD is already in use by commercially available passenger cars and CAN hardware is available in various formats. CANopen has been updated with regard to CAN FD and can support system designers in their tasks to setup modern CAN-based systems that meet the requirements of today's and tomorrow's embedded networking. This covers also means for diagnostics and trouble shooting.

Detailed evaluations of the CAN FD physical layer require typically tools that allow an analysis of the bit timing, termination of the system or the signal quality. The CAN FD protocol provides already an Error State Indicated (ESI-bit) that serves as first indicator for the quality of the CANopen FD system. In CANopen FD, the enhanced error handling, implemented in an Active error history, the updated EMCY write protocol and some well-known features for diagnostics, derived from CANopen, support system designers to keep the runtime of their CANopen FD based system high. First CANopen FD devices were exhibited at CiA's booth on occasion of Embedded World 2019.

[CW](#)