CAN(open)/2-PN(-FD) - Release Notes

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Supported Platform

- IFB-Gateway

Listed below are the improvements, changes and fixes between different releases of the CAN(open)-PN(-FD) in reverse chronological order. #

V3.0.6 - 2025-10-28 (Only for CAN-PN/2(-FD))

Bugfixes:

CAN-PN/2(-FD):

- Fixes an issue which can lead to data inconstancy in cyclic TX frames after a reconnection from the PLC.

V3.0.5 - 2025-02-19 (Only for CAN-PN/2(-FD))

Bugfixes:

CAN-PN/2(-FD):

- Improving performance of the RX- and TX-FIFO modules
- Fixes an issue which can lead to lost frames when receiving CAN frames via the communication window.

Changes:

CAN-PN/2(-FD):

- The behaviour of the RX-FIFO has been changed. The RX-FIFO does not increment the In-Counter until at least one frame is received.

New Features:

CAN-PN/2-FD:

- Add CAN FD support for the CAN monitoring via the USB interface.

V3.0.4 - 2024-09-23 (Only for CAN-PN/2(-FD))

Bugfixes:

CAN-PN/2(-FD):

- Fix bug in format byte implementation.

V3.0.3 - 2024-05-06 (Only for CAN-PN/2(-FD))

Bugfixes:

CAN-PN/2(-FD):

- Set the USI Type for PROFINET alarms from 0x0000 to 0x8000.
- Open CAN handle for CAN statistic at each start.

V3.0.2 - 2024-01-09

Bugfixes:

CAN-PN/2(-FD):

- Fixes a error when the user uses a classical CAN RX-FIFO module to receive CAN FD frames with a payload greater than 8 bytes

Changes:

CAN-PN/2(-FD):

- Convenience change in the TX-FIFO module. When there is no CAN frame payload given in the 'DLC and Flags' field, the length of the 'Length' field is used instead.

All Gateways:

- Minor non-functional changes to increase readability

V3.0.1 - 2022-11-01

Bugfixes:

CANopen-PN/2:

- Fix bug with leads to CANopen Manager failure at PROFINET reconnection
- Fix alarm diagnostic channel
- Fix error with the usage of 15 RX or TX PDOs
- Fix bug which leads to problems on an empty CAN bus

CAN-PN/2(-FD):

- Fix behavior of the configuration error led

Changes:

CANopen-PN/2:

- Change the alarm behavior in compatibility mode to emulate the CANopen-PN
- Priority changes of the CANopen threads to improve stability

CAN-PN/2(-FD):

- Add padding byte at FIFO and record modules
- Priority changes the background worker thread to improve stability

All Gateways:

- Priority changes to the lower prioritized PROFINET threads

V3.0.0 - 2022-07-10

New Features:

- Initial release of the gateways including CANopen-PN, CAN-PN and CAN-PN(-FD)

CANopen-PN/2:

- Support for CAN bitrates of up to 1000 kbit/s
- Manage the whole CAN network as CANopen Manager
- Support for up to 126 CANopen Slaves with up to 15 RPDOs and TPDOs per slave.
- Support for Heartbeat, Nodeguarding and SYNC telegrams
- PROFINET cycle times of up to 1ms and data exchange of 1440 bytes in- und output data
- Fully compatible with the old CANopen-PN

CAN-PN/2:

- Support for CAN 2.0A and CAN 2.0B aswell as CAN bitrates of up to 1000 kbit/s
- Support for up to 512 CAN Transmit- or Receive-CAN-Modules with static CAN ID with ID filter
- FIFO-Modules for reception or transmit of CAN telegrams with changeable CAN ID
- Cyclic or controlled transmit of CAN telegrams
- PROFINET cycle times of up to 1ms and data exchange of 1440 bytes in- und output data
- Fully compatible with the old CAN-PN

CAN-PN/2-FD:

- Support for CAN FD with CAN telegram lengths of 64 bytes aswell as CAN bitrates of up to 8000 kbit/s
- Fully compatible with classical CAN
- Support for CAN 2.0A and CAN 2.0B
- Support for up to 512 CAN Transmit- or Receive-CAN-Modules with static CAN ID with ID filter
- FIFO-Modules for reception or transmit of CAN telegrams with changeable CAN ID
- Cyclic or controlled transmit of CAN telegrams
- PROFINET cycle times of up to 1ms and data exchange of 1440 bytes in- und output data
- Fully compatible with the old CAN-PN aswell as the CAN-PN/2