# EtherCAN/3-FD - Release Notes

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Listed below are the improvements, changes and fixes between different releases of the EtherCAN/3-FD in reverse chronological order.

## V1.1.0 - 2026-09-17

**New Features:**

- Add a TCP Flush Mode option to improve system performance under heavy load.
- Add ELLSI WebSocket support for segmented frames.
- Improvements to the web server:
  - Add feedback when submitting a form.
  - Add local time to the overview page.
  - Add a TCP Flush Mode option to the network page.
  - Add separate Nagle algorithm options for TCP client and bridge modes.
  - Automatically start the ELLSI WebSocket when using the CAN monitor.

**Bugfix:**

- Fixes and improvements in the CAN layer:
  - Increase RX queue sizes for CAN CC operations.
  - Fix issues with the ID filter and acceptance masks.
  - Improve stability by adjusting TX Done handling.
  - Set the minimum RX queue size to 1.
- Fixes and improvements to system stability and availability.

## V1.0.9 - 2026-07-06

**Bugfix:**

- Resolved an issue affecting bridge mode and the Nagle algorithm.
- Internal modifications to support the integration of customer-specific firmware.

## V1.0.8 - 2026-03-16

**Bugfix:**

- Resolves an issue where deleting CAN IDs from the CAN ID Filter could lead to a system failure if no CAN IDs were enabled.
- Change default timezone to UTC.

## V1.0.7 - 2026-02-19

**New Features:**

- Add support for NTCAN_MODE_MARK_INTERACTION.
- Add ELLSI support for ELLSI_IOCTL_GET_CTRL_STATUS, ELLSI_IOCTL_GET_INFO and ELLSI_REGFLAG_MARK_INTERACTION.
- Increment ELLSI protocol version to 2.
- Add CAN Monitor to the webserver which internally uses ELLSI Websocket and can be used as example for extern web application.

**Bugfix:**

- Fixes an issue that could result in inconsistent timestamps.
- Improves performance adding CAN ID ranges.

## V1.0.6 - 2026-01-13

**New Features:**

- Add CAN Autobaud support for CAN FD.

**Bugfix:**

- Improves performance using CAN Autobaud.
- Minor improvements to enhance system stability and performance.

## V1.0.5 - 2025-06-10

**New Features:**

- Add support for the ESI flag on CAN FD frames (requires ntcaneth.dll V2.7.1 or higher).

**Bugfix:**

- Resolves an issue when logging both CAN ports simultaneously while using the CAN TCP client.
- Solves an issue using CAN Autobaud.
- Minor improvements to enhance system stability and performance.

## V1.0.4 - 2025-04-24

**Bugfix:**

- Corrects the display of the port number on the web server when operating in bridge mode.
- Ensures correct error behavior between CAN bridge legacy mode and CAN FD.
- Resolves an issue with the use of ELLSI WebSockets and unregistered ELLSI clients.
- Fixes issues related to the use of CAN FD in ELLSI mode.
- Enhances overall stability when running in bridge mode.

## V1.0.3 - 2025-02-20

**Bugfix:**

- Fixes error while working with non-encrypted connection

## V1.0.2 - 2025-02-17

**New Features:**

- Add WebSockets support for ELLSI

## V1.0.1 - 2025-02-06

**New Features:**

- Initial release of the EtherCAN/3-FD
- Support for CAN FD
- Support for two CAN Interfaces
- Support for Encryption
- Compatible with most features of the predecessor

**Note:**

- New features are available with ntcaneth.dll library version greater than 2.7