

# Release Notes FL3X Config

## FL3X Config 1.5.4.0

### Release Date:

April 21, 2026

### Description:

This is a minor release with new features and compatible with the previous release.

### It contains the following changes:

- Added: Support for CAN “No RTNS” – disable frame retransmission if ACK is missing
- Added: FL3X Config Tester for automated gateway testing
  - Added: Send different payloads
  - Added: Detect missing routings
  - Added: Identify routing time violations
  - Added: Generate detailed test result reports (html/txt)
  - Added: Export test communication as asc trace
- Added: Support for E2E on LIN
- Added: Support for VLAN priority per Endpoint
- Added: Support for FL3X Tiny 10BASE-T1 including TC10 wakeup pattern
- Time Synchronization:
  - Improved: PTP configuration
- User Function Editor:
  - Added: Math functions
  - Added: Memory functions
  - Added: Strings with BOM are now supported with get and set functions
  - Added: Function to remove VLAN tag
- FL3X Config Gateway
  - Added: Strings with BOM are now supported as new routing type
- FL3X Config Analyzer (Windows)
  - Added: Strings with BOM are now supported
  - Added: Graph to visualize signals
  - Improved: Trace View – visualize current trace state
- Custom E2E-Profiles
  - Added: Support for signal based E2E-Profile 4
  - Added: Support for E2E-Profile 8
- FL3X Config Diagnostics Website
  - Added: Support for ASAM CMP
  - Added: Support to lock the FL3X Config Diagnostics Website
  - Added: Support to protect the FL3X Config Diagnostics Website via password
  - Added: Build-In file explorer to manage files on Disks
- FL3X System-XS and FL3X System-XS<sup>2</sup>
  - Added: Support for logging
  - Added: Support for analyzing (FL3X Config mobile/FL3X Config Analyzer windows)
  - Added: Support for RBS Based Replay
- FL3X System-M
  - Added: Support for logging
  - Added: Support for analyzing (FL3X Config mobile/FL3X Config Analyzer windows)
  - Added: Support for RBS Based Replay
  - Added: Support for PCIe SFP+ Dual (LREC9812BF-2SFP+)
- Virtual FL3X Device for Windows
  - Added: Support for Ethernet
- PC-HW Interface
  - Added: Support to change frame length (DLC field)
  - Added: Support to change the cyclic timing of PDUs and service items
- PC-HW Interface Light
  - Integrated into FL3X Config
- Improved: Incremental Build – changing the version string no longer results in a full rebuild

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- Improved: Transmission Settings show warning when specified SOME/IP SD Port differs from default port 30490
- Improved: Firmware Updater supports FL3X System-M, FL3X System-XS and FL3X System-XS<sup>2</sup>
- Improved: Moved installer content to separate download packages for improved flexibility.
- Improved: Handling for update bits of contained PDUs
- Improved: Device FTP Server now supports Windows Explorer
- Fixed: Always send IPv6 header field 'Flow Label' with value '0'
- Fixed: Issue 466474 (WiFi communication is not supported for FL3X Config projects)
- Fixed: Issue 472551 (GetArrayInfo does not work with Rx TLV PDUs)

## FL3X Config 1.4.2.0

### Release Date:

December 12, 2024

### Description:

This is a minor release with new features and compatible with the previous release.

### It contains the following changes:

- PC-HW-IF
  - Added: Support to start and stop FL3X Config Control manipulations independently
  - Added: Support to start and stop FL3X Config Control sequences independently
  - Added: Support to start multiple manipulations in parallel
- Change: The E2E calculation consider PDU and Signal Group Update Bits (the calculation is skipped if an Update Bit is set to '0')
- Fixed: Issue 457021 (Plug and unplug of an USB stick requires a device restart)
- Fixed: Issue 461724 (DIO/ADI state cannot be read on the device website)
- Fixed: Issue 473710 (Build project shows "Error: Unknown "System.OverflowException")
- Fixed: Issue 473779 (Build project shows "Error Codegenerator – Compilation Error")

## FL3X Config 1.3.4.0

### Release Date:

September 26, 2024

### Description:

This is a minor release with new features and compatible with the previous release.

### It contains the following changes:

- Added: Support for Windows 11
- Added: Change limits for array and signal size per project
- Added: Support for creating and initializing a FL3X System-M based on a real device
- Added: Support for password protection for certain pages and functionalities on the device website
- Added: Support for naming the s19 file according to the project version string
- Improved: Activate/Deactivate tooltips via [F7] key to avoid popup of large tooltip overlays
- Improved: Project format stores the user defines at a single location to reduce file changes for better support of VCS
- Time Synchronization:
  - Improved: PTP sync messages are scheduled in a 30ms interval
- Transmission Settings:
  - Improved: A warning will be shown if the IP address settings for Rx and Tx collide
  - Added: Support for configuring endpoint parameters for ETH Rx elements
  - Added: Separate source and target IP settings for event groups
  - Added: Support for optimizing the transmission settings (e.g. to reduce frame bursts and optimize collection timeouts)
- User Function Editor:
  - Added: Text search in network and function tree
  - Added: Support for changing PDU timings via User Functions
  - Added: Support get/set access to global arrays
- FL3X Config Control

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- Added: Support for manipulating signal update bits and signal group update bits
- FL3X Config API
  - Added: Support for getting and setting the replay sequence
  - Added: Support for up to 10 stopwatches (start, pause, reset, read)
- PC-HW-IF
  - Added: Support for getting the manipulation state of a manipulable elements
  - Added: Support for getting the current active manipulations
- FL3X Config Analyzer (Windows)
  - Added: Support for LIN (BETA)
  - Added: Support for importing/exporting MDF files for offline analysis (BETA)
- Fixed: Issue 425655 (FL3X Device-PCIe and FL3X Device-PXIe: Flashing a project via device website fails)
- Fixed: Issue 450779 (Analyzing does not work for FL3X Device-PCIe and FL3X Device-PXIe running in FL3X Device mode)
- Fixed: Issue 406361 (FPGA-Image 0xD3: Ethernet - When using the FL3X Tiny “3-00882B01”, no messages are received)
- Fixed: Issue 460316 (LIN communication does not work properly. LIN transmission stops after a while.)
- Fixed: Issue 460795 (WiFi communication is not supported for FL3X Config projects)
- Fixed: Issue 462513/462654/450852 (Routings to container PDUs do not work)
- Fixed: Issue 462764 (Timing of the CAN GTS frames is not precise)
- Fixed: Issue 463284 (FlexRay GTS does not work/ PTP Pdelay Response is not sent)
- Fixed: Issue 463481 (PDU Receive User Functions for ETH Secured PDUs do not work)
- Fixed: Issue 463972 (PC-HW-IF: PtpTimeSyncConfig can only be received once)
- Fixed: Issue 463978 (PC-ETH-Connector: ETH Jumbo-Frames are not supported)
- Fixed: Issue 465060 (Instructions for use for FL3X System-M and FL3X System-XS/XS<sup>2</sup> are not available.)
- Fixed: Issue 465227 (MF4 files exported via device website are corrupted)
- Fixed: Issue 465460 (FL3X Config Analyzer: The content of an ETH container frame is not shown.)

## FL3X Config 1.2.5.0

### Release Date:

April 25, 2024

### Description:

This is a minor release with new features and compatible with the previous release.

### It contains the following changes:

- Added: Support for 10BASE-T1S FL3X Tiny3.
- Added: Support for detailed configuration of the network endpoints.
- Added: Support for IP/port configuration for ethernet frames.
- Added: Support to create, edit and apply custom E2E-Profiles.
- Added: Support to generate a project data file containing the database elements with references to the ID-Defines.
- Added: Support to use CMP as transport protocol via FL3X Measure.
- FL3X System-M
  - Added: Support for FL3X Interface-PCIe (with configuration 0x01E0).
  - Added: Support for FL3X Interface-PMC (with configuration 0x1020).
  - Added: Support for CMI 10G Dual Port 10GBASE-T (CMI-10GLAN03).
  - Added: Support for CMI 8xDI 8xDO (CMI-DIO02/UB1018).
  - Added: Support for Mini PCIe SFP Single (DeLOCK 95267).
  - Added: Support for PCIe SFP Quad (LREC9714HF-4SFP).
- FlexConfig RBS API
  - Added: Function to read the project name.
  - Added: Function to read the project timestamp.
  - Added: Function to read the startup reason.
- FL3X Config Gateway
  - Changed: The ‘routed’ state of SOME/IP methods is now shown correctly for input and output.
- User Function Editor
  - Added: Support for Signal UpdateBits.
  - Added: Support for SignalGroup UpdateBits.
  - Added: Support for ‘Response Transmit Function’ for provided SOME/IP methods.

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- Added: Support for ‘Get/Set Transmit Function’ for provided SOME/IP fields.
- Added: Support for ‘Get/Set Transmit Function’ for consumed SOME/IP fields.
- Added: Support to change the cyclic timing of PDUs during runtime.
- FL3X Config Analyzer (Windows)
  - Added: Support to use the ‘FL3X Interface’ devices.
  - Added: Trace view (BETA) – export trace as ASC file.
  - Added: Trace view (BETA) – import ASC trace file.
  - Added: Trace view (BETA) – support to decode trace data based on the loaded databases.
  - Added: Trace view (BETA) – several options to configure the trace view.
  - Added: Trace view (BETA) – several options to search and filter the trace data.
- Virtual FL3X Device for Windows
  - Added: Support for CAN
- Changed: Handling of large SOME/IP elements – SOME/IP TP is no longer used for larger TCP elements
- Fixed: Issue 441099 (Bus Raw User Function for Ethernet: get\_ETH\_RAW\_UDP\_DATA does not work)
- Fixed: Issue 385456/413932 (Disable WiFi via PC-HW-IF is not possible)
- Fixed: Issue 448586 (The Virtual FL3X Device for Windows is not supported)
- Fixed: Issue 450981 (The value of ‘Used Service Interface Version’ (transmission settings) is not updated by a database update)
- Fixed: Issue 452660 (E2E Protection: User defined DATA-IDs are overwritten by reconvert)

## FL3X Config 1.1.3.0

### Release Date:

July 12, 2023

### Description:

This is a minor release with new features and compatible with the previous release.

### It contains the following changes:

- Added: Show the source and target MAC address in tooltips of ethernet related items.
- FL3X Config Analyzer (Windows)
  - Added: Trace view (BETA) to show RAW data- and physical values (Ethernet, FlexRay, CAN).
  - Added: Trace view (BETA) - support for stacked and continuous view.
  - Added: Trace view (BETA) - support for different column presets.
  - Added: Trace view (BETA) - support for trace list filters.
  - Added: Trace view (BETA) - support to start, stop and pause the trace.
- Added: Firmware Updater to update the devices with the latest factory image.
- Added: Support for Multi-OEM projects (use different OEM packages for each bus configuration in a single project).
- RBS based replay
  - Added: Support for endless loops.
- Virtual FL3X Device for ADTF
  - Changed: Rename “Virtual Device” to “Virtual FL3X Device for ADTF”.
  - Added: Support for dongle based extended runtime.
  - Added: Support to configure the country code via settings file.
- Added: Support for the CAN-FD-SIC (4 transceivers) FL3X Tiny 3.
- Added: Support for the 1000BASE-T1 Switch MACsec FL3X Tiny 3.
- FL3X Config Gateway
  - Added: Auto Routing for SOME/IP bus configurations.
- User Function Editor
  - Added: Support for global variables of type float and double.
  - Added: Support for Matlab typedefs.
  - Added: Support to reset Frames, PDUs and Signals to their default value.
  - Added: Support for 64-bit signals and datatypes.
  - Added: Support for 64-bit global variables and arrays.
- Added: Support to change IP-address and port of an Event Group.
- Added: Support to reset the Alternate IP Configuration.
- Device website
  - Changed: The Ethernet tab and the Statistics tab show the short names of the buses.
  - Changed: The website structure has been revised.

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- Added: Support to configure the PTP delay response message (unicast/multicast).
- Changed: The SOME/IP setter response message payload contains the value that was set to the field.
- Added: Support to set different consumers for the elements of a SOME/IP service.
- Added: VCS support – ignore VCS related files and folders (e.g. .git, .svn).
- Added: Support for a user managed ‘Docs’ folder.
- Added Device Configurations (FlexDevice- L<sup>2</sup>)
  - 0x1094118A
  - 0x2094218A
  - 0x109D1187
  - 0x209D2187
- FlexConfig RBS API
  - Added: Function to restart the device.
- Fixed: Issue 440924 (Removed the unavailable licenses ‘3-V1141B01-01 FL3X Config Professional 1 month rent’ and ‘3-V1141F01-01 FL3X Config Enterprise 1 month rent’ from the documentation)
- Fixed: Issue 433600 (Extended Runtime License is not available for Virtual Device)
- Fixed: Issue 441265 (User Functions: SOME/IP Datatypes with Structs and Arrays are not serialized correctly)
- Fixed: Issue 432096 (Changing the value of E2E elements for Profile 7 via User Functions does not work)

## FL3X Config 1.0.2.0

### Release Date:

February 01, 2023

### Description:

This is the first release of FL3X Config.

FL3X Config replaces FlexConfig RBS and is based on a new license model.

Projects created with FlexConfig RBS 4.3 or later can be loaded.

FL3X Config can be downloaded directly from our Homepage <https://flex-product.com> (registration required).

### It contains the following changes:

The changes list the differences to FlexConfig RBS.

- New License model with three different versions
  - FL3X Config Basic
  - FL3X Config Professional
  - FL3X Config Enterprise
  - The full list of features which require a FL3X Config Professional version or a FL3X Config Enterprise version can be found in the FL3X Config User Manual.
  - The former FlexConfig RBS licenses are no longer used/supported.
- New Runtime license for devices used with FL3X Config
  - FL3X Config Standard Runtime
  - FL3X Config Extended Runtime
  - The full list of features which require a FL3X Config Standard Runtime or a FL3X Config Extended runtime can be found in the FL3X Config User Manual.
  - The former FlexConfig RBS runtime licenses are no longer used/supported
- New supported devices
  - Added: Support for FL3X System-M
  - Added: Support for FL3X System-XS
  - Added: Support for FL3X System-XS<sup>2</sup>
- Changed device names:
  - The device names have changed (mostly from “Flex” to “FL3X”). But in some parts of the application, the old names are still in use.
- User Function Editor
  - Changed: Export of User Functions includes the state (enabled/disabled)
- Device website
  - Changed: tab for logging configuration (BETA)
- Added: Support for AUTOSAR 4.7.0 databases
- Changed: New modern design
- Changed: Time Synchronization - Range of PDelayStatic extended

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- Changed: Project handling (projects saved with FL3X Config 1.0 or later **cannot** be opened with FlexConfig RBS 5.5)
- Fixed: Issue 426421 (FL3XConfigConsole.exe does not update the VSCode files)
- Fixed: Various defects and performance issues

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