

ETC Firmware version 3 – What's new

Redesign of the codebase

The codebase is redesigned and is moved to an object-oriented programming language. This gives us the possibility to add new features and functions in the future.

Easier installation and setup

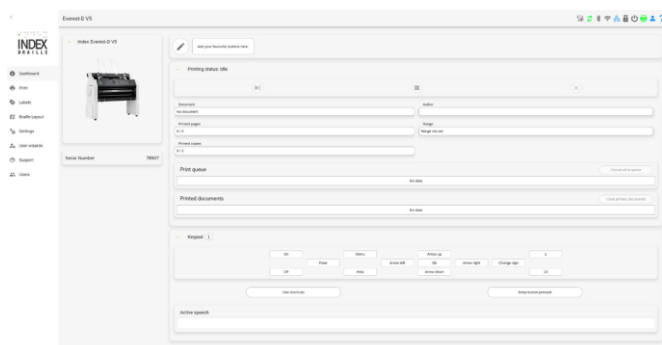
With FW3 the embossers are delivered with a first time setup that will help distributors and/or end users to easily

configure the embosser with the settings they prefer. The first time setup has the following options.

1. Accept factory settings
2. Transport locking wizard
3. Firmware update
4. Restore settings from a backup on the USB device
5. Change speech settings
6. Select braille layouts
7. Print Getting Started

New design and improved web interface

The new web interface in FW3 and the new dashboard is redesigned and easier to use .



The new dashboard includes

- Embosser information
- Favorites
- Printing status and a print queue
- A keypad with active speech

More new functions on the web interface are:

- Dark mode
- Improved editing of braille layouts.
- Add more settings that can be set from the web interface
- Possibility to run some user wizards from the interface
- Improved user management with different roles for each user
- Improved the preview of the selected braille layout



Improved security

Firmware version 3 (FW3) is built with a newer Linux kernel, and we have improved the security to follow the new standards that is required.

Redesign of the user menu

The embosser user menu is now completely redesigned and easier to use.

Release of Embosser Firmware 3 (2026-01-27) includes the following Several improvements to the embosser functionality

- **Liblouis 3.36.0 is now used for text-to-braille translation.** More info on what is new in liblouis can be found [here](#).
- Printing improvements Fixed handling of form feed character at different line positions in a RAW file.
- Fixed handling of braille table and line spacing parameters in RAW files.
- Optimized RAW document parsing for speeding up the formatting time.
- Fixed the order for printing template documents.
- Fixed formatting issues of RAW files containing graphics or graphics mixed with text.
- Implemented queuing for formatting and sending to print documents.
- Fixed issues with page numbering not being added on RAW files.
- Add the correct page numbering for single sided graphics.
- Web interface improvements Implemented page split by lines per page limit in the preview for RAW documents.
- Fixed issues causing confusing behavior on the web interface when resetting the user management.
- Fix dashboard queue page counting not taking into account the file duplexing.
- **Speech improvements** Fixed language toggling when using HELP + CHS.
- Embosser menu improvements Implemented support for missing shortcut and key combinations.

- Fixed sending to print message from menu being spoken after the file was sent to print or a command was executed.
- Changed default value of First-time setup parameter to disabled.
- Firmware upgrade improvements Implemented validation of old parameters for when upgrading from FW2.