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## Firmware Update on Basic-D and Everest-D Embossers

We are pleased to announce the new firmware update V5 on Basic-D and Everest-D embossers. This firmware update includes speed increase, Liblouis 3.11, adjustable line spacing, improved editing of braille files and bug fixes.

In February 2019, we upgraded our hardware with the new solenoids. This new firmware allows us to better harness our new hardware. The result is a speed increased up to 25% our Basic-D and Everest-D embossers.

By upgrading the firmware on V5 printers, you get the following:

- New layout of the BrailleApp print function, which makes it possible to edit the text in six-key-entry and MIT braille. The text is also back translated by Liblouis and presented in normal text
- Adjustable line spacing on Basic-D and Everest-D
- Liblouis revision 3.11 text-to-braille translation
- MAC address for wired network and Wi-Fi network is presented in the BrailleApp
- Japanese braille file format (BSE2BASE)

### Several Important New Features for BrailleApp

- Adjustable line spacing can now be selected from the wizard for layout
- Improved robustness of the edit layout wizard. Modification of parameters now result in correct updating of layout settings
- A printing status dialog is now shown when printing documents, this also works with ranges
- An update status dialog is now shown when an update is in progress
- Added information button about current paper in Print, Braille Layout and wizard for layout pages.
- Show MAC address for Wi-Fi, Bluetooth and Wired Network in the Communication page
- Added volume page number to the preview of a document
- Improved robustness of the preview of a document, including paste, undo and redo functionality
- Added back support for MIT Ascii preview; The preview now has three modes: Braille, MIT Ascii and Text

### Improvements to the Embosser

- Liblouis 3.11.0 is now used for the text-to-braille translation
- Support for BES file format, one of the most popular Japanese braille formats
- Implemented generic speed-up for Basic and Everest models
- Add new high-speed draft mode for Everest and Basic models. (Requires hammer batch 1842 or greater and M4 print processor)
- Adjustable line spacing is now selectable from the menu
- The embosser now echoes the IP address when you plug in the network cable
- The embosser will speak out if a key is pressed while Lock mode is active. (Lock mode is active when the BrailleApp is performing editing of layouts)
- Updating from internet will speak out if there is no active internet connection; Updating from the USB memory will now discover if there is no update package available

- Performance improvements for speech feedback
- When printing multiple documents, it is now possible to instruct the embosser to wait for a key press before continuing with the next document. (Feature needs to be selected in the menu first)
- Added distributor layouts for Finland
- Added new distributor default for Voice System
- Added distributor defaults for Czech-Spektra
- Documents larger than 4MB results in an error from the uploader

## New Functionality and Improvements

- Verify connection with wired network (FW2-1102)
- Upgrade from internet NOT available if there is NO network connection (FW2-1221)
- Printing demo files when the printer is set to Japanese 2.2 braille results in error. (FW2-1234)
- Cache speech sentences with speech service (FW2-2855)
- Implement draft speed (2500 Hz). (FW2-3203)
- Problem with the Duxbury formatting of content. (FW2-3349)
- Implemented speed-up for Basic and Everest models. (FW2-3460)
- Menu - Firmware upgrade from USB memory, handle NO file available (FW2-2028)
- Print one document, user action to print next (FW2-2697)
- Set network parameter with a command file (FW2-3017)
- Add Volume page number to preview (FW2-3268)
- Printing Active - show message box in BrailleApp (FW2-3269)
- Notify user in BrailleApp that an update is in progress (FW2-3325)
- Add information button about current paper (FW2-3337)
- BrailleApp / Communication / Show mac address (FW2-3338)
- Show MAC address for Bluetooth in BrailleApp. (FW2-3479)
- Embosser should speak out a message when locked by the BrailleApp (FW2-3339)
- Add distributor layouts for Finland (FW2-3352)
- Add distributor defaults for Czech-Spektra (FW-3583)
- Sort the distributor layouts in alphabetical order in restore dialog (FW2-3377)
- Add new distributor default for Voice System (FW2-3455)
- Update Liblouis to release 3.11 (FW2-3461)
- Re-add MIT ASCII Braille support in the preview page. (FW2-3462)
- Page in preview is not constant (FW2-3487)
- If Range is specified for printing a file, the message box should show the range (FW2-3500)
- Improved the page dimension calculations in the preview of a document. (FW2-3487)
- Handle all states of update in the BrailleApp. (FW2-3432)
- Added message to notify the user when a new layout has been created. (FW2-3582)
- Added user\_defined\_5 legacy braille table for Spanish (FW2-3608)

## Bug Fixes

- Fixed bug that caused empty lines from beginning of page disappear when changing page in preview. (FW2-3443)
- Fixed bug that could cause offline update to fail. (FW2-3556)
- Fixed a bug that could cause a crash while navigating through Protected Service menu. (FW2-3518)
- Improve the speech feedback for the Wi-Fi menu in the embosser (FW2-3114)
- Fixed bug that caused layout information to not update in Braille Layout page. (FW2-3124)
- Fixed bug that sometimes caused reprogramming of slave. (FW2-1935)
- Fixed bug that would cause system crash on MENU - PRINT - PRINT TEST DOCUMENT - PRINT BRAILLE LAYOUT (FW2-2985)
- Fixed bug that would cause FanFold to not light "Out of Paper"-led light when you try to print without paper (FW2-3193)
- Fixed sentence duplicate for running update (FW2-3243)
- Fixed bug that caused error when setting WiFi power from the panel (FW2-3266)
- Fixed bug that caused user defined tables appear in edit layout wizard after a restart. (FW2-3351)
- Fixed distributor layouts that were out of date, which crashed the restore. (FW2-3354)
- Fixed bug that caused layout to be lost when embosser is restarting on Basic-D V5. (FW2-3361)
- Fixed bug that caused never ending loop if a mismatch of print processor firmware (FW2-3398)
- Fixed bug that caused printing labels to overlap the edge of the paper size. (FW2-3426)
- Removed user defined paper for BrailleBox as it is not valid for this model. (FW2-3429)
- Fixed bug that caused empty lines from beginning of page to disappear when changing page in preview (FW2-3443)
- Fixed bug that caused braille volume number to be embossed several times on same page (FW2-3447)
- Fixed preview editing in Text mode for Android devices. (FW2-3469)
- Fixed bug that caused print previous document to not show the printing status. (FW2-3513)
- Fixed bug that caused removed Liblouis tables to remain active in layouts and the printing failed silently (FW2-3504)
- Fixed bug that caused users to remain logged in after log out (FW2-3567)
- Fixed bug that caused preview paste to move the cursor incorrectly (FW2-3569)
- Fixed bug that caused preview Undo/Redo functionality to not work in all cases (FW2-3570)
- Fixed bug that caused preview switch into Text mode to fail. (FW2-3610)
- Fixed bug that caused page number to be lost on the first document printed from the BrailleApp (FW2-3579)
- Fixed Eiffeltower demofile format of paper (FW2-3577)
- Fixed bug that caused Add and Delete Layout buttons to become active in user mode (FW2-3606)

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