# Major improvements version 3.0

* *Implemented undo/redo functionality*
* *Improved registration procedure (re registering should not be necessary)*
	+ The registration process is stabler, the license type information is handled differently.
* *Added Monarch support*
	+ The monarch mode allows users to use the monarch dpi as reference and to export documents to monarch-readable pdfs
* *Improved printer support*
	+ The code handling printers was encapsulated and re-written. The program now recognises the printer by matching its name with our printer list, which includes many printer properties and can be updated without the need for patching, as the program will download any updated versions from the server.
* *Added printing options*
	+ Dot distance (to prevent paper tearing) and dot size (for swell paper) can now be adjusted. Label text and braille visibility and color can be adjusted for the screen and print individually.
* *Added a braille after ink printing mode*
	+ This mode allows users to print hybrid designs without the need for a two-in-one printer.
	+ To match the braille output on top of the ink version, a calibration page/wizard can be followed, a test page is used to ensure the braille and the ink versions can match.
* *If the program crashes, recent autosaves are now available.*
* *Added more grid examples using different scales and orientations*
	+ These examples can be updated without the need for patching.
* *Improved polygon and curve tool*
	+ These tools used to be separated and worked differently from each other, the combined tool can be used in both ways and can use all the features from both of the originals.
* *Added O'zbekcha (Uzbek) language*
* *Added drawable shapes*
	+ Regular polygon, Arc, Star. All ellipses, stars and the polygon now have the possibility to have radii lines (or in the case of polygon and star, lines from the center to a vertex) drawn.
* *UI/UX improvements*
	+ Added some widgets to modify the design size and the alignment grid, the option to show/hide and change colour of the label background, made label type indicators clearer. Title can now be set to inactive by default. Toolbars and menus have been streamlined, some icons have been changed. Several dialogues have been improved.
	+ Rebranded TactileView to align with HumanWare’s corporate colours
	+ Removed repeated icons from top and side toolbar
* *Added the option to customise the export area for DBT*
* *Updated the used Liblouis and Libluois-utdml versions, added support for UEB Math*
* *Documents now have the same layout when opened on different machines.*
* Margins and alignment frame are now saved in the document
* *Improved colour substitution functionality*
	+ Similar colours in multiple objects can be processed by applying a colour profile. Colours can be replaced by a different colour, a texture or an audio style (audio recording). Interface and saving/loading of colour profiles were improved. Additional features such as adding a texture or audio and preserving the colour are now available.
* *Improved filter handling*
	+ Filters now show previews and can be applied, including objects or not, at the user’s discretion
* *Improved handling of downloadable components*
	+ Xml, json and ini files that are stored in the server are only downloaded if the server version is newer than the local version and therefore an update is needed
* *Additional logging and error handling of many issues*

## Bug fixes (later Thinkable era)

### Version 67:

* Fixes for the braille dot distance dialog
* Fixed an issue when importing images (the created bitmap object was not selected)
* Fixed some issues when using filters on bitmap objects.

### Version 68:

* Fixes for the braille dot distance dialog
* Fixed issue when importing images (the created bitmap object was not selected)
* Fixed issues when using filters on bitmap objects.
* Fixed bug regarding registering for all users and using DBT
* Fixed bug in displaying paper size in the status line at the bottom
* Bug fixed placement of right up marker at 11.5 x 11 format
* Added extra logging for issues with loading braille tables
* Fixed bug with paper format display in status line
* Fixed bug with right up marker position when using 11.5 x 11 format

### Version 69:

* Fixed an issue with ink printer in braille and ink configuration
* Fixed exception with selected objects
* Fixed issue with rotation when changing orientation
* Fixed object selection issue when a bitmap is imported to a bitmap object
* Fixed issue with configuration of ink printer in braille after ink mode
* Fixed exception when selecting objects
* Fixed issue with empty object orientation
* Fixed issue when importing bitmap object

### Version 70:

* Fixed an issue with registration validity when mac address changes
* Fixed double display of liblouis version number
* Fixed issue with braille grid hit test (interaction with mouse)
* Fixed problem with validity of registration when mac address of computer changes

### Version 71:

* Fixed crash when uploading a file to catalog
* Fixed crashes when using math ml in grids
* Fixed crash when using special braille characters
* Fixed crash when uploading to catalogue

Version 72:

* Fixed issues when loading 2.5.00 documents in recent version of tactileview
* Fixed issues with label wrap when special characters are included

### Version 73:

* Fixed issue when printing to ink
* Fixed issue with rotation of images loaded from legacy documents
* Fixed issue in print braille after ink dialog.
* Fixed crash in grid dialog
* Fixed issue when loading legacy documents with differing dpi/origin
* Fixed issues with alignment frame
* Fixed issues with menu driven design dialog.
* Fixed issues when printing bitmap with ink
* Fixed issue with rotation of images in legacy documents
* Fixed issue with loading legacy documents
* Fixed issues with registration from welcome wizard
* Fixed crash in grid dialog
* Fixed issue with image sizes display in object list dialog
* Fixed issues with alignment frame
* Fixed bug with object list dialog columns

### Version 74:

* Fixed crash when trying to close program when message boxes are still open
* Fixed crash when trying to load invalid document
* Fix issue with braille after ink activation state after printing with ink
* Fixed print preview for landscape documents in split printing mode

### Version 75:

* Fixed issue with relief height and fill color for combined ink and braille print
and in dot view
* Fixed issue with  relief height handling in color substitution
* Fixed crash when opening a document that no longer exists from the list of recently opened documents
* Fixed a scaling issue in print preview

### Version 76:

* Fixed issue with two in one printing (ink & braille) read settings
* Fixed issue when printing with  index v4 printers
* Fixed problems with download from catalog or route-tactile mapmaker

### Version 77:

* Fixed issue when temp directory is not writable
* Fixed issues with margins using index printers
* Fixed issues with print of braille after ink, when the printable area of printers differs a lot

### Version 78:

* Fixed issues with document label language

### Version 80:

* Fixed issues with saving pictures when TV is used with DBT

### Version 81:

* Fixed Issue with right up marker in dot view
* Fixed a problem with auto save operation when using tactileview in conjunction with DBT

### Version 82:

* auto save functionality disabled when started from command line with option, as done by DBT

### Version 83:

* Fixed issue with determination of stale external resources to be downloaded (language files, grids files, catalogue subjects, color definitions)
* Fixed potential issues with loading resources
* Fixed potential issues in the auto-save operation