mDecoderTool3 v3.6.0 Release Note
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CURRENT NOTES

> The sound library is divided into two sections, Märklin Sounds "mBibliothek" and Customers own sounds "eigeneBibliothek". Own sounds stored in the "mBibliothek" will be lost when updating the Märklin sound library! Own sounds belong in the "eigeneBibliothek"!

CHANGELOG

Version 3.6.0 - 15.03.2023
- Feature: The mDecoderTool3 supports the sound CVs and parameters of the equalizer of a sound decoder mSD3, for new projects, convert existing projects to get the equalizer CVs
- Feature: The mDecoderTool3 supports the new data structure (fds) v4 in gauge H0/1/G mLD3/mSD3 from decoder v3.3.0.0, downward compatible
- Feature: The mDecoderTool3 supports mSD3 H0 gauge with PluX22 interface with RailCom
- Feature: The mDecoderTool3 supports mSD3 H0 gauge with 21MTC interface with RailCom
- Improvement: Due to the new equalizer CVs, the display of the CVs with unit or factor changed generally and uniformly
- Improvement: Generally changed the alignment of the CVs on the left and on the right (fold-out/fold-in) side uniformly
- Bugfix: Value range of DCC traction address in decoder templates corrected
- Bugfix: The dropdown lists Motor Type, Analog Controller and Controller Type were extended by their already entered elements after each drag and drop of sounds and refresh of the view
- Bugfix: A decoder or a sound module on the sound programmer (60801) could not play its "beep" response completely after programming, because the voltage was switched off too early

Version 3.5.0 - 16.08.2022
- Feature: The mDecoderTool3 converts decoder projects, mLD3/mSD3 retrofit decoders in track H0/G with/without sound among each other
- Feature: In the mDecoderTool3 the new function icons of the control unit CS3 are available for selection
- Modified: The 'Program Settings' dialog has been revised, settings that were previously only contained in the menu have been added and summarized
- Modified: Add text to the context menu to show and hide the toolbar
- Improvement: The area programming ways with new button 'Read decoder' to read a decoder with the decoder programmer (60971)
- Improvement: The 'Program Decoder' dialog is now displayed consistently, regardless of whether you program with/without sound
- Improvement: The Functions tab in the details board with a new 'minus' button 'Delete trigger/action' to make it easier to delete assignments except via the context menu
- Improvement: The selection list of function icons in the detail board in closed state has been supplemented by a missing tooltip
- Improvement: The sound size for the sound memory display in KB in the dashboard is now determined independently of whether the sound file (snd) and project have the same name
- Improvement: Some CV names, texts, terms and expressions in the mDecoderTool3 and the decoder templates revised, unified and named more clearly
- Improvement: In the dialog 'Test Decoder' the dark tacho/locomotive background is adapted to the gray values of the control center CS3, so that black locomotives, especially steam locomotives, can be recognized better
- Bugfix: If the baud rate was selected manually in the settings for the decoder programmer (60971), a restart of the mDecoderTool3 is no longer necessary
- Bugfix: In the detail board in the tab functions, when deleting a trigger that has not yet assigned an action, all triggers without assigned action were deleted
- Bugfix: In the detail board in the tab functions, the logical functions were displayed incorrectly for the mLD track H0 for universal current/field coil motor (60906)
- Bugfix: If a decoder is programmed via the Central Station programming path, the central station finally performs a reset and re-registers the decoder. The selection of the locomotive in the mDecoderTool3 is no longer valid and is now deleted to be able to select the newly registered locomotive again
- Bugfix: The number of input characters for decoder name and user data was not limited to a maximum of 16 characters

Version 3.4.2 - 13.10.2020
- Bugfix: Error of the driving sound groups for steam locomotives fixed. Came through the new drive
  sound additional groups for steam locomotives
- Improvement: Writing errors and CV names in the decoder templates and translation errors (en/nl) in the
  sound library texts corrected
- Modified: Default value for the function icon light change in the decoder templates corrected

Version 3.4.1 - 02.06.2020
- Feature: The mDecoderTool3 supports mLD3/mSD3 track H0 revision E, mSD3 track 1/G revision F
- Feature: Drive sound additional groups for steam locomotives and logical function for switching the
  additional groups
- Feature: In mapping the BUS functions (SUSI) extended to F24 (mLD3/mSD3)
- Bugfix: With "Import mDecoderTool projects (v1.0.0)" the project/directory to import was deleted
- Bugfix: Incorrect path (separator) for sounds from "your own library" fixed, the sound parameters from
  "m library" were not copied correctly

Version 3.4.0 - 25.11.2019
- Feature: Create your own sounds, select your own sounds (wav, mp3) step by step, process them
  automatically and sort them into the sound library (your own library)
- Feature: Decoder projects for all, more projects for retrofit decoders, new display in mDecoderTool3 and
  new storage structure on the Märklin server
- Feature: The mDecoderTool3 supports mLD track H0 for all-current/field-coil motor (60906)
- Modified: Playing back and previewing sounds in the sound library is done with the space bar instead of
  with Retrun, as is typical for audio programs.
- Improvement: Decoder with the decoder programmer (60971) read out improved, communication
  between mDecoderTool3 and the serial interface in Windows improved
- Improvement: Decoder (mLD/mSD, mLD3/mSD3) programmed and tested via central CS2 from v4.2.9
  on revised, improved and optimized
- Improvement: Decoder (mLD/mSD, mLD3/mSD3) programming and testing via central CS3 from v1.4.1
  on revised, improved and optimized
- Improvement: New firmware is loaded from the Märklin server without having to create or open a project
- Improvement: Tooltips added to the dashboard functions
- Improvement: Added more missing status and tooltips in start, dash and detail boards
- Improvement: When a project is loaded, it is always switched to the dashboard, whether from the start
  board or the detail board.
- Improvement: In the help menu, the manual of the mDecoderTool3 can be called up
- Improvement: Some CV names and texts in mDecoderTool3 and the decoder templates revised, unified
  and provided with units and factors
- Improvement: The program directory has been restructured and cleaned up, texts and instructions as
  well as languages and templates, etc.
- Improvement: In the mapping the fields of the actions are dynamically adapted to the window size,
  helpful for long sound paths
- Improvement: For a better overview only the valid libraries and sound groups are displayed in the sound
  library
- Improvement: The dialog windows can be moved freely with the mouse
- Improvement: The description files of a decoder project were updated (article numbers) and extended to
  all functions and sounds.
- Bugfix: When converting the data structure (fds) to v3, the sound CVs brake threshold and brake
  bandwidth are swapped, but the CV values were not swapped
- Bugfix: The Sound CVs Brake Threshold, Brake Bandwidth and Brake Deceleration Correction were not
  saved after being read into an open project
- Bugfix: The sound CVs of the individual volume levels were displayed correctly but not saved correctly
  after changing them
- Bugfix: In the sound selection the sound paths, to distinguish the libraries 'own library' and 'm library',
  were not displayed correctly
- Bugfix: When installing version 3.3.0 the old and new decoder templates were not de- and installed
  correctly
- Bugfix: In the 'Configure function keys' dialog, newly configured function keys were lost with the check
  mark 'Show only active elements'
- Bugfix: If a decoder was programmed, the CVs of the project could be changed in the detail board,
  despite the progress bar running, quasi 'behind it

- Bugfix: If a decoder was programmed, the buttons in the dashboard could be pressed 'behind' the running progress bar
- Bugfix: If a decoder was programmed with a changed but not yet saved project, it was still programmed with the old CV values after the hint dialog
- Bugfix: In the mapping was the on and off delay of the physics. Outputs (mLD3/mSD3) reversed
- Bugfix: Although no project was selected yet, it was possible to save it in the startboard with 'save' or 'save as

Version 3.3.0 - 20.12.2018
- Feature: The mDecoderTool3 supports the new data structure (fds) v3 from decoder v3.2.0.0, downward compatible
- Feature: The mDecoderTool3 supports the new Märklin Decoder-Tester (60970)
- Feature: The mDecoderTool3 supports mSD3 track 1
- Feature: The mDecoderTool3 supports mSD3 track G
- Feature: The mDecoderTool3 supports a newly structured sound library on the Märklin server
- Feature: In the mDecoderTool3 the new function icons of the central CS3 are available for selection
- Feature: Acoustic feedback at the end of the programming process, successful or unsuccessful
- Improvement: Program decoder (mLD/mSD, mLD3/mSD3) via central CS2 from v4.2.8 (except sound of mSD via decoder tester (60970) and see known problems above)
- Improvement: Test decoder (mLD/mSD, mLD3/mSD3) via central CS2 from v4.2.8 onwards
- Improvement: test decoder (mLD/mSD, mLD3/mSD3) via central CS3 from v1.4.0 on
- Improvement: Program and test decoder (mLD3/mSD3) via decoder programmer (60971) with new decoder tester (60970)
- Improvement: Firmware update or decoder test without having to create or open a project
- Modified: Fimware is programmed via the menu "Decoder/Update decoder firmware"
- Improvement: Display of startboard, dashboard and detailboard reworked
- Improvement: arrangement and presentation of programming paths improved and extended
- Improvement: The dashboard shows all possible functions (mLD/mSD = 16, mLD3/mSD3 = 32)
- Improvement: Programming via a control panel now only takes place with one step (button)
- Improvement: arrangement, display and operation of various CVs and parameters changed, revised and improved
- Improvement: Handling of the sound library generally improved and optimized
- Improvement: Playback and previewing of sounds in mDecoderTool3 improved and optimized
- Improvement: Creation and modification of sounds in the sound selection revised and improved
- Improvement: Sounds as random sounds also multiple settings revised, improved and optimized
- Improvement: Multi-station announcement can now be selected and set correctly
- Improvement: Incorrect sound file is detected with a hint and is not included in the project.
- Feature: Sort the sounds according to sound number or sound slot in the sound selection
- Feature: Change the sound number of a selected sound in the sound selection simply via context menu
- Improvement: Export/import functions in mapping improved and optimized
- Improvement: Completely reset functions assigned in mapping
- Feature: In Mapping the special function random selectable and adjustable (mLD3/mSD3)
- Feature: In mapping, the on/off delay of the physic. Outputs adjustable (mLD3/mSD3)
- Feature: extended BUS functions (SUSI) in mapping to F20 (mLD3/mSD3)
- Feature: The mDecoderTool3 installer is now also available in French and Dutch
- Improvement: At (first) start and in the help menu, the license agreement and the release note are visible
- Improvement: Various texts, terms and expressions revised
- Bugfix: General minor bugs fixed to improve stability, execution and performance

Version 3.2.3 - 08.03.2017
- Feature: The mDecoderTool3 supports mLD3 Revision D
- Feature: mDecoderTool3 supports mSD3 with 32/64MBit sound memory
- Bugfix: The size of the sound memory is the same when opening/saving a project
- Feature: The program version is displayed in the title bar with

Version 3.2.2 - 08.06.2016
- Feature: A previously unknown decoder programmer (60971) is now detected automatically
- Feature: AV/BV text field size for mSD retrofit decoder enlarged

Version 3.2.1 - 18.05.2016
- Feature: Design of the firmware info window adapted to the overall design

- Feature: Double-click on function key or Enter/Return on marked function key opens configuration dialog
- Feature: By pressing the delete key on the keyboard a marked function is reset.
- Feature: The mDecoderTool3 now checks on startup if a newer version of the program is available and reports this to the user if necessary.
- Feature: Arrangement of elements in dashboard/detailboard revised
- Bugfix: Menu bar remains always displayed on Windows 10 Tablets now
- Bugfix: Decoder firmware updates now work reliably

Version 3.2.0 - 22.03.2016
- Feature: The mDecoderTool3 is now signed with the Märklin certificate
- Feature: When programming via CS2, the station to be programmed can be selected
- Feature: Dialogs can now be operated by keyboard (Confirm,Cancel,Yes,No by Return/Enter,Escape,J/Y,N)
- Feature: When export/import functions, the following is now additionally saved/loaded: Function icon, switching / moment function, analog active/not active
- Feature: Configurable connections/outputs (motor/light/track exchange, Aux3/4 logic, Aux5/6 PushPull)
- Bugfix: The mDecoderTool3-Installer now checks if the package "Microsoft Visual C++ 2010 Redistributable Package" (or a newer version) is installed and starts the installation if necessary
- Bugfix: Decoder firmware updates were not possible if the version jump of the firmware version is in first, second or third place
- Bugfix: Decoder firmware updates are now also available for serial decoders
- Bugfix: Show texts of the sound library in the tree view additionally in the tooltip because often too long
- Bugfix: Cut off texts of the sound selection if too long for the allowed space
- Bugfix: Prevent crash when playing a sound in the Functions tab while switching to another function key

Version 3.1.1 - 20.10.2015
- Feature: The mDecoderTool3 installer now offers the option to install the driver for the decoder programmer (60971) with it
- Feature: The mDecoderTool3 installer now offers the option to choose the path where the sample sound library and projects will be located
- Feature: The mDecoderTool3-Installer is now available in German and English
- Feature: In mDecoderTool3 now the languages German, English, French and Dutch are available
- Feature: When programming via the decoder programmer (60971), the station to be programmed can be selected.
- Bugfix: endless loop on abort in project open dialog fixed
- Bugfix: For a project with more than 16 functions these are now displayed correctly
- Bugfix: The x-button of the Read FDS dialog now cancels the action

Version 3.1.0 - 23.09.2015
- Feature: New selection "Load projects from Märklin server" when starting the program which allows to load example projects from Märklin server
- Bugfix: The wav files and slot files are no longer displayed in the Sound Selection tab of the sound library now

Version 3.0.0 - 17.09.2015
- First release