



MDA V8.4.1 – What's New

Functional Enhancements & Usability Improvements
Cumulated Slides for MDA V8.4.x Releases

MDA V8.4.1 – What's New

Summary for MDA V8.4.1 (March 2020)

- **Functional Enhancements**
 - Cursor synchronization in GPS Map instrument
 - Option to define the default behavior for signal to axis assignment in oscilloscope
 - List of recently used configurations
 - Import of calculated signals from *.xda files created by INCA, and of Find Trigger from MDA V7.x
- **Files, Formats and Data Types**
 - Snapshot recording (in combination with INCA V7.3.0 or higher)
 - Display of additional measure file meta information (with INCA V7.3.0 or higher)
 - Indication of conversion formula for Enumeration signals
- **Usability Improvements**
 - Oscilloscope: Clearer representation of Pause events
 - Oscilloscope: Automatic update of signal values at cursors with more detailed signal data
 - Improvements for Export Measure Data dialog
 - INSERT dialog supports * as wildcard
- **General**
 - Overview of installed components and system requirements
- **Outlook for Next Version**
- **What's New of former version MDA V8.4.0**

MDA V8.4.1 – What's New

Functional Enhancements of MDA V8.4.1 (March 2020)



- **Functional Enhancements**
 - Cursor synchronization for GPS instrument
 - Option to define the default behavior for signal to axis assignment in oscilloscope
 - List of recently used configurations
 - Import of calculated signals from *.xda files created by INCA, and of Find Trigger from MDA V7.x
- **Files, Formats and Data Types**
- **Usability Improvements**
- **General**
- **Outlook for Next Version**

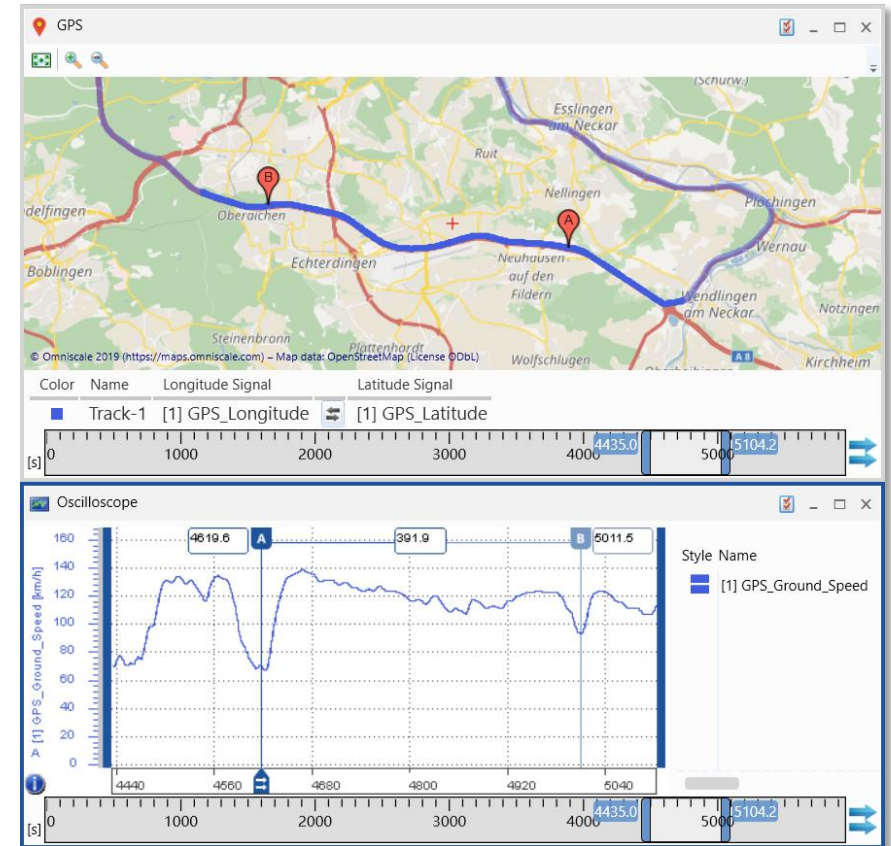
MDA V8.4.1 – What's New

Functional Enhancements: Cursor synchronization for GPS Map instrument (V8.4.1)

- For an easy analysis of data related to a driven track, MDA V8 supports synchronization of GPS map and other instruments
- While synchronization mode is active the cursors show in an oscilloscope are also shown as markers along the track in the GPS map
- The whole track is still displayed in the map, but in different color shades, and zoom-to-fit considers just the track section of the selected time range

Notes:

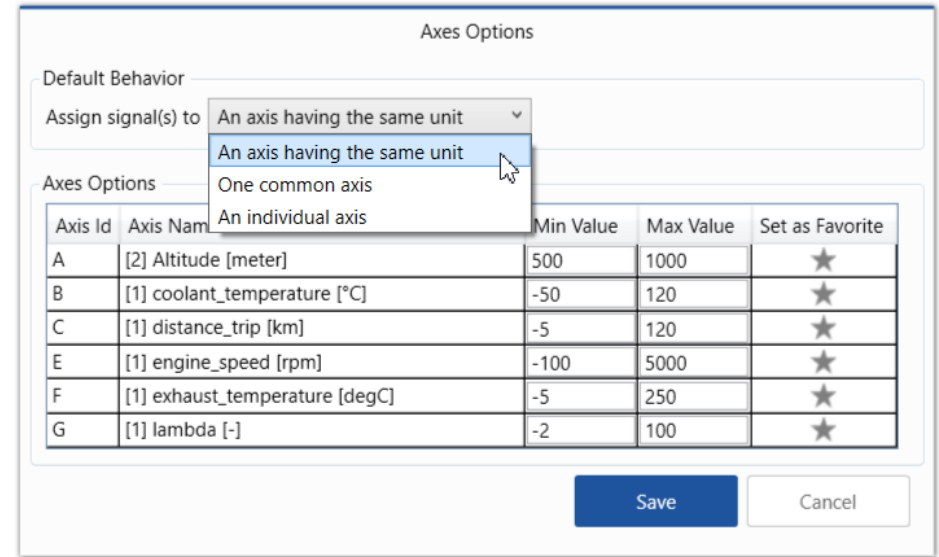
- Functionality is also demonstrated in video #17 "GPS Map".
- GPS data based on NMEA coordinates is not supported so far.
- In synchronized mode one 'synchronization cursor' is mandatory to define and indicate the synchronization time.



MDA V8.4.1 – What's New

Functional Enhancements: Default behavior for signal-to-axis assignment in oscilloscope (V8.4.1)

- To reduce configuration effort, oscilloscope allows to define the default behavior for signal-to-axis assignment via the axis options dialog
 - Signals having the same unit share one axis
 - All signals share one common axis
 - Each signal gets its individual axis
- The setting is applied for newly added signals from the Variable Explorer or from other instruments (given the signal can be assigned to a shared axis)
- If signals are dropped from an existing oscilloscope, the axis assignment from the source oscilloscope remains unchanged



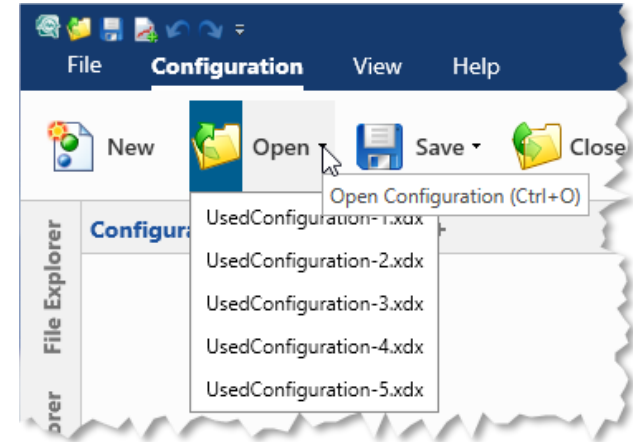
Notes:

- Signals can share one axis only if their data representations and data types match.
- Enumerations (in physical representation), and signals in no-match state get an individual axes always.
- In case of one axis per unit, and a signal has no unit, the exact string is used for a shared axis. I.e. space, hyphen, underscore are handled as separate axes.

MDA V8.4.1 – What's New

Functional Enhancements: List of recently used configurations (V8.4.1)

- To enable a quick access to already used configurations, a 'recently used' list is available as a drop-down list of the Open configuration icon
- Up to 10 entries are listed in chronological order



Note:

- In case opening of a recently used configuration fails, its entry is removed from the list.

MDA V8.4.1 – What's New

Functional Enhancements: Import of calculated signals from INCA created *.xda files (V8.4.1)

- Calculated Signals defined in INCA Experiment Environment are imported into MDA V8.4.1 with the *.xda configuration file
 - Import happens when MDA V8 opened from INCA EE
 - To manually trigger the import, use the 'Import XDA' button
- Imported calculated signals are listed in the Calculated Signals docking window of MDA V8
- A message in the status bar informs about the import results
- Additionally so-called 'Find triggers' from MDA V7.x are included during import of an *.xda file
- These can be assigned to an Event List instrument for a quick navigation between the occurrences of the 'Find' criteria



XDA file has been imported. More detailed import information is available here.

3/11/2020 6:05:25 PM

Calculated signals have been imported from the XDA file. The imported signals may behave differently than in MDA V7.x. Please refer to the appendix in the MDA Manual, which you can find within Manuals & Videos in the Help Ribbon.

Clear Message

⚠ XDA file has been imported. More detailed import information is available here.

Note:

- If a calculated signal with the same name exists already, the import can not be conducted.
- For an example how to navigate between events see video #15 "Event Navigation".

MDA V8.4.1 – What's New

Files, Formats and Data Types – Changes in MDA V8.4.1 (March 2020)

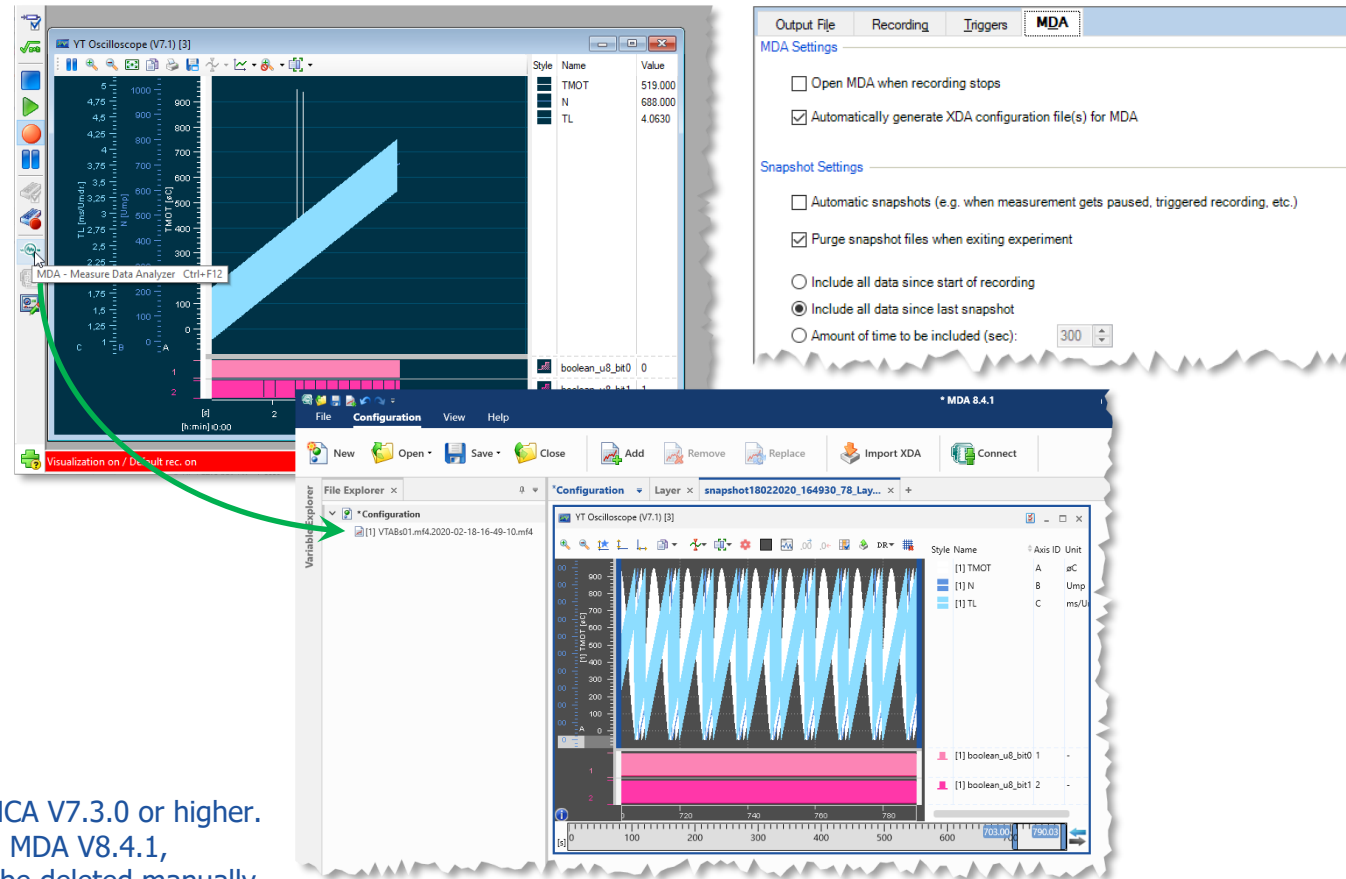


- **Functional Enhancements**
- **Files, Formats and Data Types**
 - Snapshot Recording in combination with INCA (requires V7.3.0 or higher)
 - Display of additional meta information for measure files (requires INCA V7.3.0 or higher)
 - Indication of conversion formula for Enumeration signals
- **Usability Improvements**
- **General**
- **Outlook for Next Version**

MDA V8.4.1 – What's New

Files, Formats and Data Types: Snapshot Recording in combination with INCA V7.3 (MDA V8.4.1)

- Snapshot Recording allows to analyze measure data already while the recording is still running in INCA
- In case of snapshot recording an *.xda file is created by INCA and imported automatically into MDA V8
- By default data is displayed as defined in INCA Snapshot recording settings
- In MDA only the measure data is available which was recorded before snapshot recording was triggered



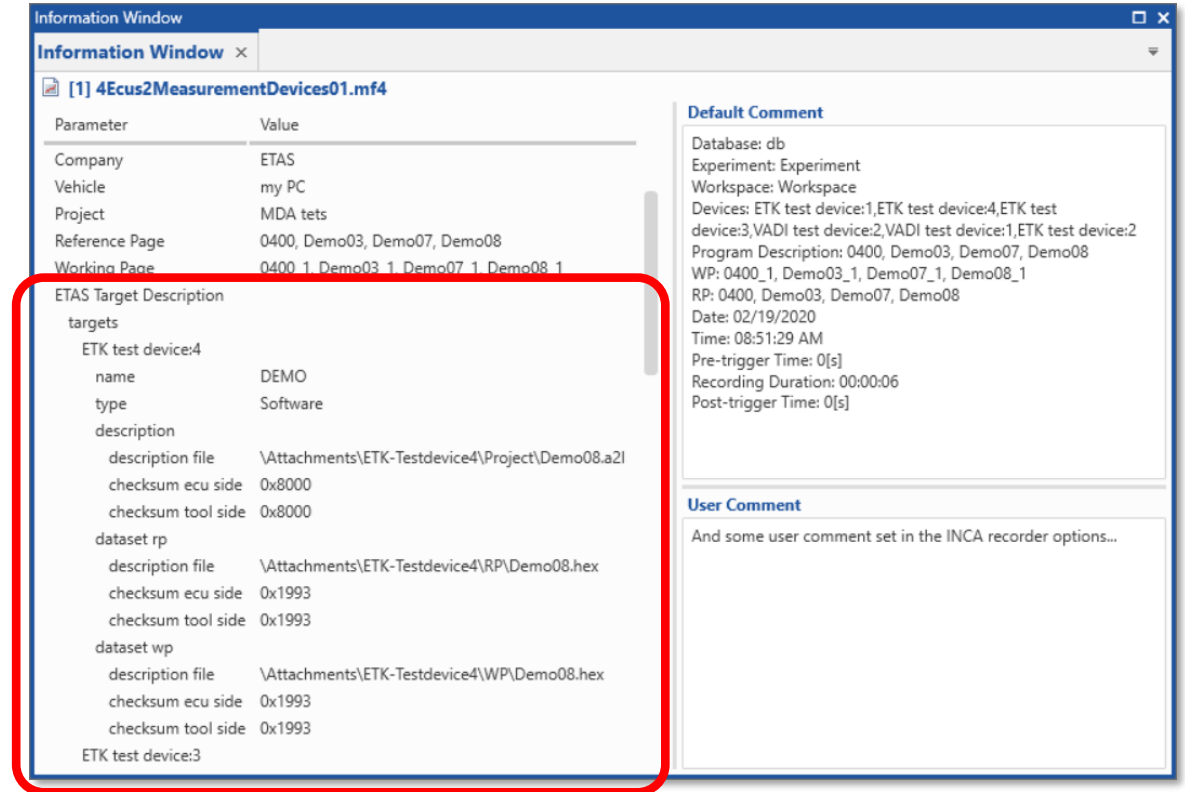
Notes:

- Snapshot recording requires a combination of MDA V8.4.1 and INCA V7.3.0 or higher.
- If recording is stopped in INCA, while snapshot file is still open in MDA V8.4.1, the temporary snapshot file will remain on the disc and needs to be deleted manually.

MDA V8.4.1 – What's New

Files, Formats and Data Types: Display of additional meta information for measure files (V8.4.1)

- Measure files recorded with INCA V7.3.0 or higher can include additional meta information such as
 - Used hardware
 - A2L and Hex files
- Within the Information Window the additional information are listed besides the usual meta information



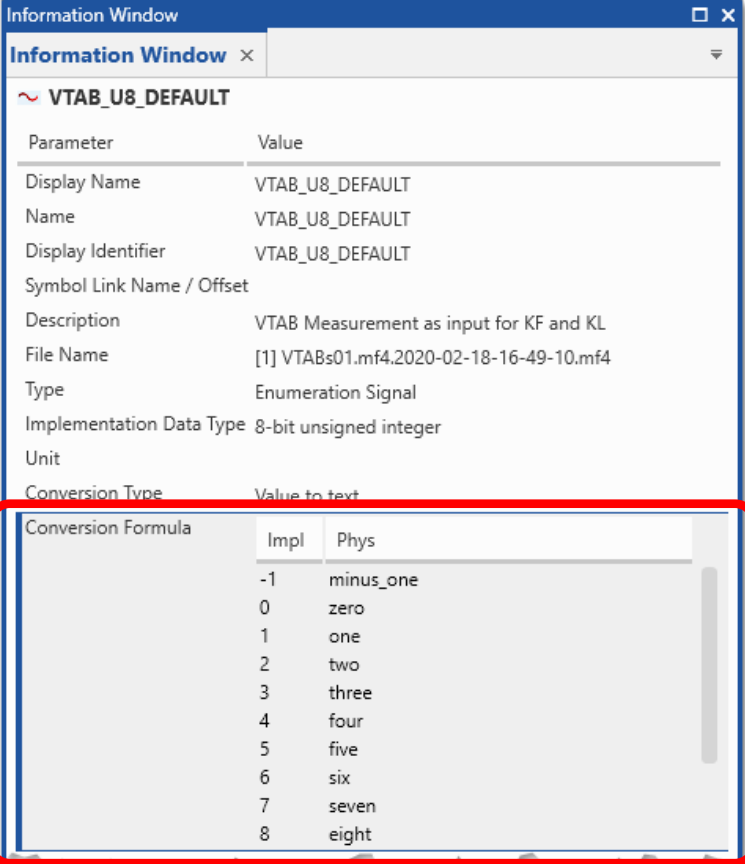
Note:

- Scheme for meta information is defined in ASAM standard for MDF V4.x.

MDA V8.4.1 – What's New

Files, Formats and Data Types: Indication of conversion formula for Enumeration signals (V8.4.1)

- To better understand the type, behavior, or values of a signal, MDF files include meta-information on signal level
- An important information for a signal is the conversion formula used to calculate from the implementation values (as acquired from the ECU) the physical values (as usually used for analysis)
- Also for enumerations MDA V8.4.1 displays the conversion formula in the Information Window (CTRL+I)
- Up to 10 lines are shown at once
- Using CTRL+C copies all lines to the Windows clipboard



Information Window

Information Window x

~ VTAB_U8_DEFAULT

Parameter	Value
Display Name	VTAB_U8_DEFAULT
Name	VTAB_U8_DEFAULT
Display Identifier	VTAB_U8_DEFAULT
Symbol Link Name / Offset	
Description	VTAB Measurement as input for KF and KL
File Name	[1] VTABs01.mf4.2020-02-18-16-49-10.mf4
Type	Enumeration Signal
Implementation Data Type	8-bit unsigned integer
Unit	
Conversion Type	Value to text

Conversion Formula	Impl	Phys
	-1	minus_one
	0	zero
	1	one
	2	two
	3	three
	4	four
	5	five
	6	six
	7	seven
	8	eight

MDA V8.4.1 – What's New

Usability Improvements of MDA V8.4.1 (March 2020)

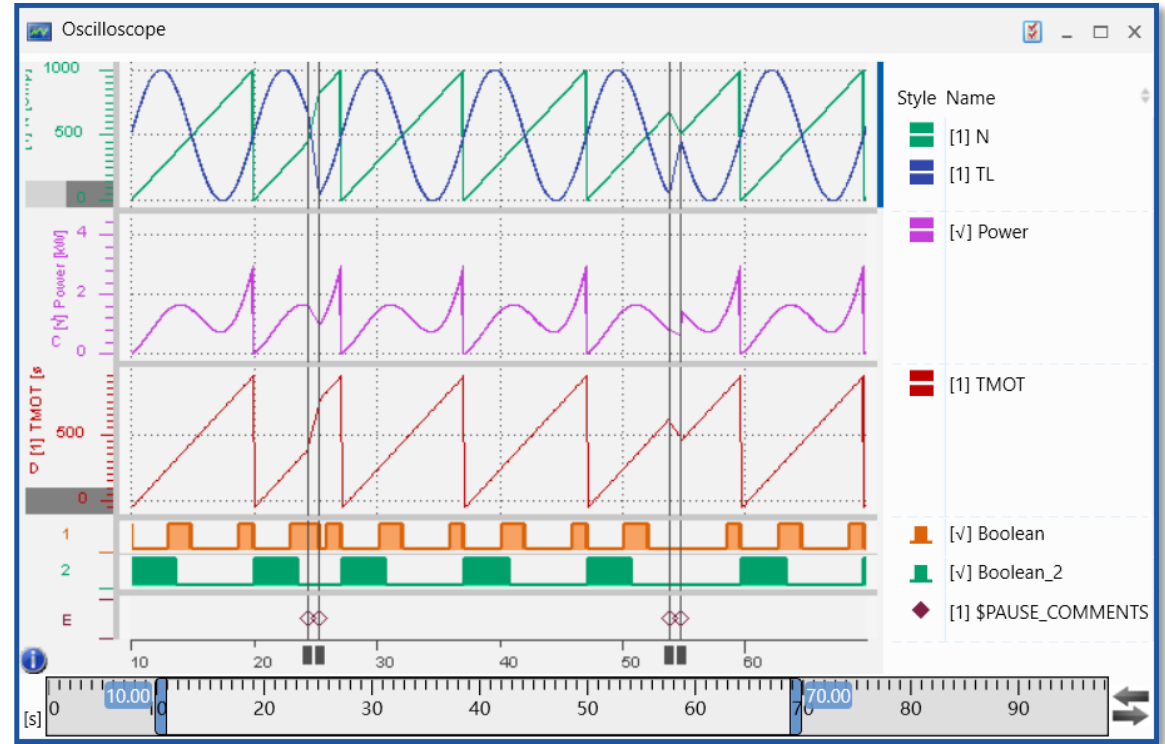


- **Functional Enhancements**
- **Files, Formats and Data Types**
- **Usability Improvements**
 - Oscilloscope: Clearer representation of Pause events
 - Oscilloscope: Automatic update of signal values at cursors with more detailed signal data
 - Improvements for Export Measure Data dialog
 - INSERT dialog supports * as wildcard
- **General**
- **Outlook for Next Version**

MDA V8.4.1 – What's New

Usability Improvements: Clearer representation of Pause events (V8.4.1)

- To improve the visibility of Pause events, vertical lines and a Pause icon are displayed in the oscilloscope, additionally to markers in the Event strip



Note:

- Signal curves are not interrupted during a pause section so far.
- The color of the vertical pause indicating lines can not be changed.

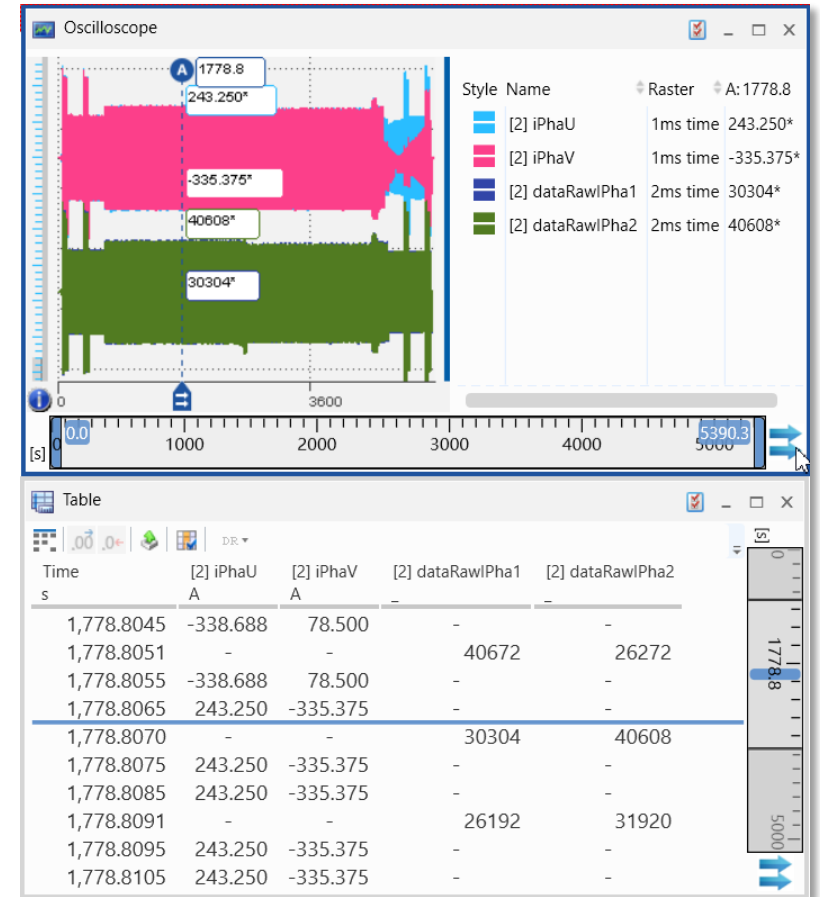
MDA V8.4.1 – What's New

Usability Improvements: Update of signal values at cursors with more detailed data (V8.4.1)

- For a quick data representation in the oscilloscope, the data displayed is so-called "reduced data" based on the standard index of the file (if available)
- The index provides minimum and maximum values for time ranges, and it ensures that outliers remain visible
- Also signal values shown for cursor positions are initially based on the reduced data
- With MDA V8.4.1 the unreduced i.e. detailed data for the signal values is requested when the cursor is no longer moved, and if detailed data is available, the 'reduced data' indicator (~) disappears

Notes:

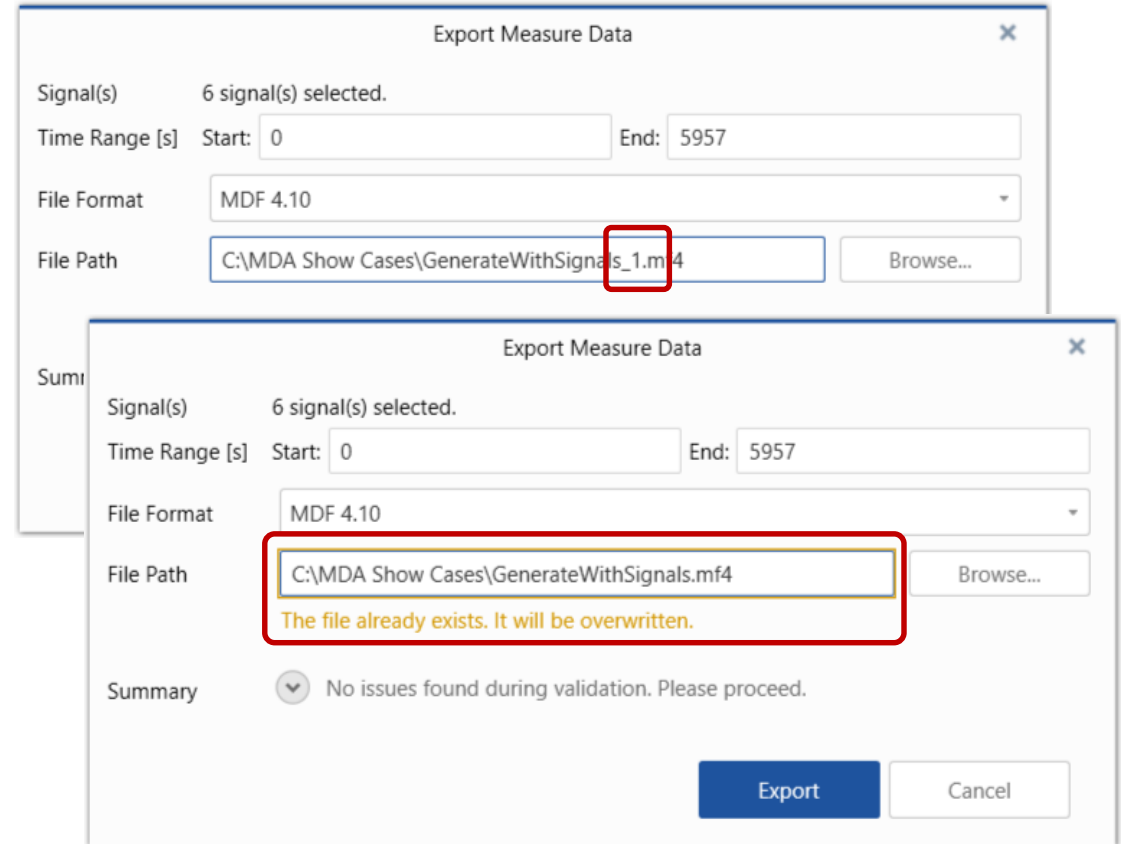
- In MDA V8.4.1 functionality is available for sample-based cursor mode and one 'raster' only.
- As precise time position of a cursor the center of a pixel is used.
The next sample left or right provides the detailed value.
- The time position of the cursor is kept when zooming in or zooming out.



MDA V8.4.1 – What's New

Usability Improvements: Improvements for Export Measure Data dialog (V8.4.1)

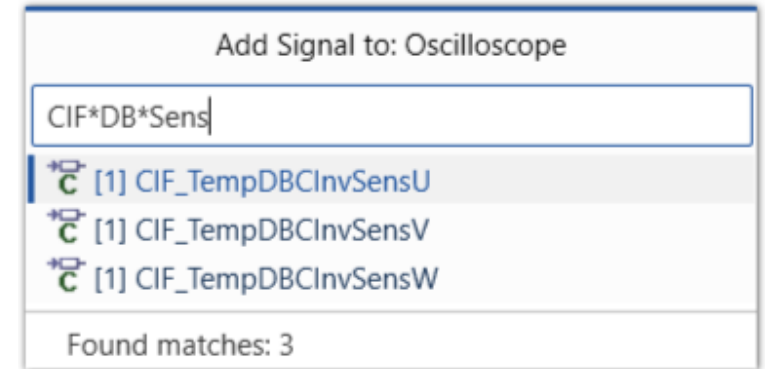
- When an export of measure data is triggered MDA checks whether a file with the same name already exists
 - If so, an increment is appended to the export file name automatically
 - If the export file name is changed manually by the user to a file name that already exists, a warning message appears (but without a further confirmation dialog)
- All errors and warnings related to the export path and/or export file name are shown next to the file name text box



MDA V8.4.1 – What's New

Usability Improvements: INSERT dialog supports * as wildcard (V8.4.1)

- For more flexibility when searching for a variable to be added to an instrument, the INSERT dialog allows to use an * as wildcard for an arbitrary sequence of characters
- The wildcard * can be used anywhere in the search string
- When a search string starts with * the mode is "contains"
- Deleting the * changes the mode to "starts with"
- The last selected search mode is re-used when re-opening the INSERT dialog



Note:

- Search is done in the Display Name field only.

MDA V8.4.1 – What's New

General Notes for MDA V8.4.1 (March 2020)



- **Functional Enhancements**
- **Files, Formats and Data Types**
- **Usability Improvements**
- **General Notes**
 - Overview of installed components and system requirements
- **Outlook for Next Version**

MDA V8.4.1 – What's New

General Notes

Additionally Installed Components	MDA V8.3.x	MDA V8.4.0	MDA V8.4.1
.Net-Runtime-Environment ¹⁾	V4.6.2	V4.6.2	V4.6.2
VCxRedist (V credist_x86 / V credist_x64)	VC10 + VC15 + VC17	VC10 + VC15 + VC17	VC10 + VC15 + VC17
ETAS Certificate	X	X	X
ETAS License Manager (x86 / x64) ²⁾	V1.7.1	V1.7.3	V1.7.4
Direct X	V9 (or higher)	V9 (or higher)	V9 (or higher)
Others			
ETASShared (IPManager only)	12	12	13
System-Requirements			
Windows® 7 (64 bit) ³⁾	X	X	- ³⁾
Windows® 8.1 (64 bit)	X	X	X
Windows® 10 (64 bit) ⁴⁾	X	X	X

¹⁾ This component is installed only when no or an older version is installed. This is checked by a Microsoft installation routine.

²⁾ ETAS License Manager is installed only when no or just an older License Manager version is installed.

³⁾ Support of Windows® 7 OS ended in early 2020. MDA V8.4.0 was the last MDA V8 version supporting Windows® 7 OS.

⁴⁾ Supported are Windows® 10 64bit (version 1803 or higher), and Windows® 10 64bit Enterprise (LTSC 2016 or higher).

MDA V8.4.1 – What's New

Outlook for Next MDA V8 Version (June 2020)



- **Functional Enhancements**
- **Files, Formats and Data Types**
- **Usability Improvements**
- **General Notes**
- **Outlook for Next Version**

MDA V8.4.1 – What's New

Outlook for next MDA V8 version

- The following improvements are **planned for the next release** (June 2020)
 - Possibility to edit meta information of a measure file (e.g. user comment)
 - User-friendly way to decide about signal-to-axis assignment in oscilloscope
 - Oscilloscope: Automatic update of signal values at cursors with more detailed signal data (part 2)
 - Properties Grid for instrument settings of GPS Map, Scatter Plot, and Oscilloscope
 - Improvements for resolving of no-match state for signals
 - User option how to display so-called "#MeasureCal" signals in hexadecimal data representation
 - Indication of availability of ASAM Standard index for MDF measure files
 - Writing of *.lab files from Configuration Manager
 - Import of calculated signals from *.xcs files created in INCA or MDA V7
 - ...



MDA V8.4.0 – What's New

Functional Enhancements & Usability Improvements
Section for MDA V8.4.0

MDA V8.4.0 – What's New

Summary for MDA V8.4.0 (December 2019)

- **Functional Enhancements**

- Basic GPS instrument to display a track using longitude and latitude
- Define rules to shrink long signal names to relevant fragment
- Time Offset for individual signals
- Copy & Paste Calculated Signals across configurations
- Further cases of corrupt data get detected and indicated

- **Files, Formats and Data Types**

- Show 'Events' in the oscilloscope

- **Usability Improvements**

- More meaningful naming of Calculated Signal functions
- Remove all no-match signals in one step via Configuration Manager context menu
- Copy signal name from Variable Explorer and oscilloscope signal list
- Connect MDA V8.4 to a running EHANDBOOK-NAVIGATOR session
- A signal is highlighted after selection in the Configuration Manager
- Reduced data indicator at cursor values can be suppressed

- **General**

- Reworked handling of 'settings.user' to prevent compatibility issues when returning to an older installation

MDA V8.4.0 – What's New

Functional Enhancements of MDA V8.4.0 (December 2019)

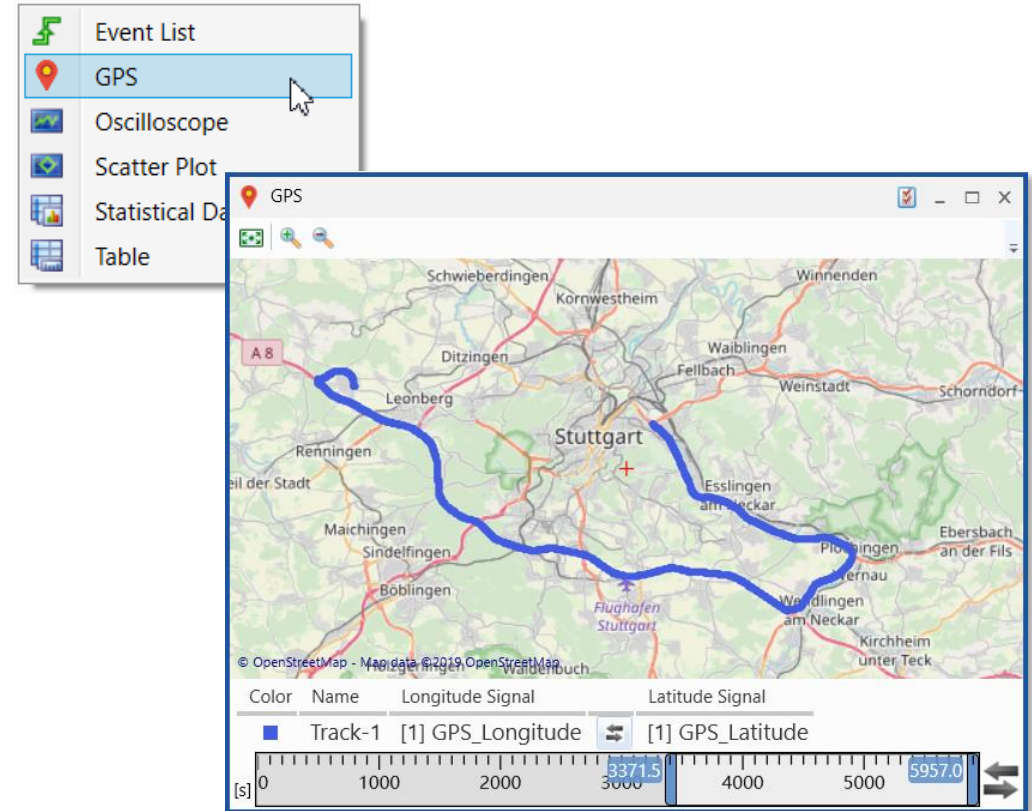


- **Functional Enhancements**
 - Basic GPS instrument to display a track using longitude and latitude
 - Define rules to shrink long signal names to relevant fragment
 - Time Offset for individual signals
 - Copy & Paste Calculated Signals across configurations
 - Further cases of corrupt data get detected and indicated
- **Files, Formats and Data Types**
- **Usability Improvements**
- **General**

MDA V8.4.0 – What's New

Functional Enhancements: Basic GPS instrument to display a track using longitude and latitude (V8.4.0)

- When longitude and latitude information is available in a measure file, a track can be displayed in a map
- GPS instrument identifies automatically longitude and latitude based on the signal names, alternatively a manual reassignment is possible
- Zooming and scrolling the map is possible
- Time range can be defined using the time slider



Notes:

- GPS data based on NMEA coordinates is not supported so far.
- Cursors and cursor synchronization is not implemented.

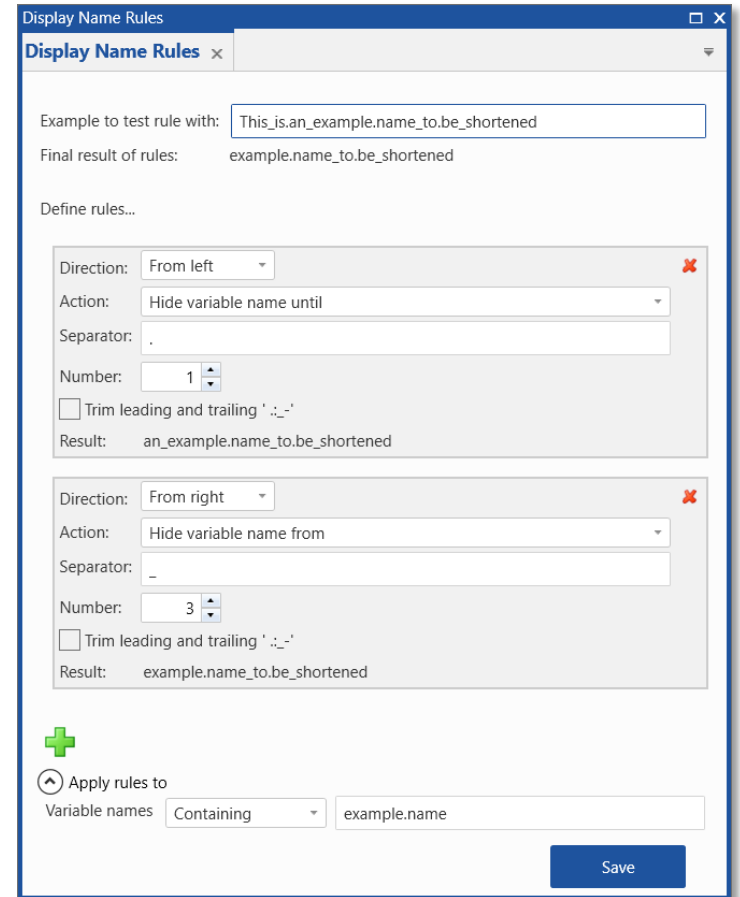
MDA V8.4.0 – What's New

Functional Enhancements: Define rules to shrink long signal names to relevant fragment (V8.4.0)

- As variable names are getting longer and longer, MDA V8.4 allows to shrink the name to the relevant part
- An arbitrary number of rules can be combined to a rule set
- For definition of rules separators (like _ . /) as well as a string can be entered as 'break points'
- Rules can be reordered via drag & drop
- The target group of variables for which the rule set shall be applied is definable
- An example string helps to check the rule set
- If the result of the shrinking would be an empty string, the original name is shown instead

Note:

- Rule set effects the used display name only, i.e. in Variable Explorer or Information Window for 'Name', 'Display Identifier' or 'Symbol Link' the variable's original name is shown.
- Only 'Name' is used for signal mapping when replacing, and not 'Display Name'.
- With MDA V8.4.0 the window appears in English only. This will change in a future version.



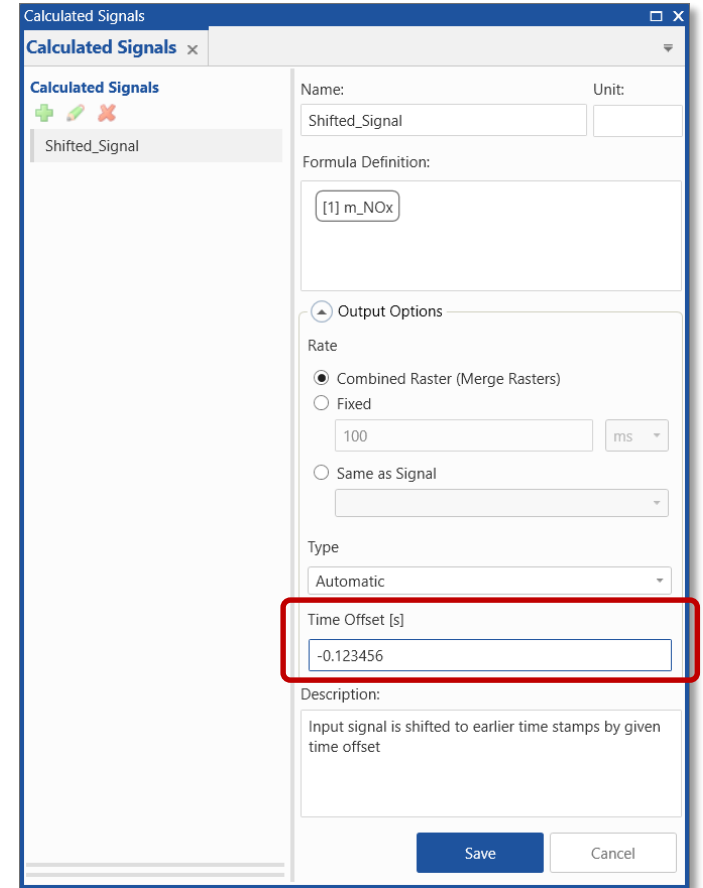
MDA V8.4.0 – What's New

Functional Enhancements: Time offset for individual signals (V8.4.0)

- For a proper analysis it is sometimes necessary to shift a specific signal by a time value, so that it gets aligned to the other signals in the measure file
- Via Calculated Signals MDA V8.4.0 supports positive or negative 'time offsets' under Output Options
- The time offset is applied to the result of the calculation
- A shifted signal can be used for display, as input for further calculations, in the export of measured data ...
- A file time offset and a time offset for an individual signal are handled cumulatively

Note:

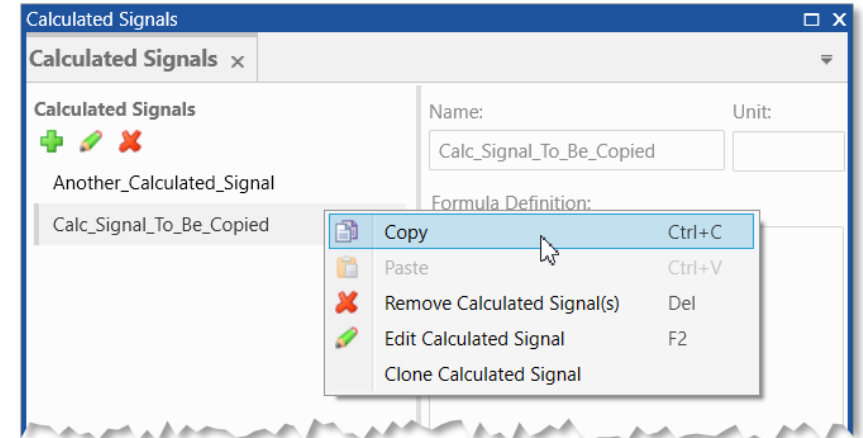
- Time stamps of the input signal remain unchanged.
- The time offset is given in seconds and can have up to 6 decimals (i.e. microseconds).
- Toolbox functionality "Delay_Signal()" supports only positive values.



MDA V8.4.0 – What's New

Functional Enhancements: Copy & Paste of calculated signals between MDA V8 configurations (V8.4.0)

- To facilitate reuse of already defined calculated signals, MDA V8.4.0 allows to copy and paste calculated signals across configurations
- If a Calculated Signal with the same name already exists, the name of the pasted signal gets incremented
- Copy & Paste includes all aspects of the original signal:
 - Name, unit and formula definition incl. the reference to the measure file of the input signal (see Note)
 - Any output option as raster, type or time offset



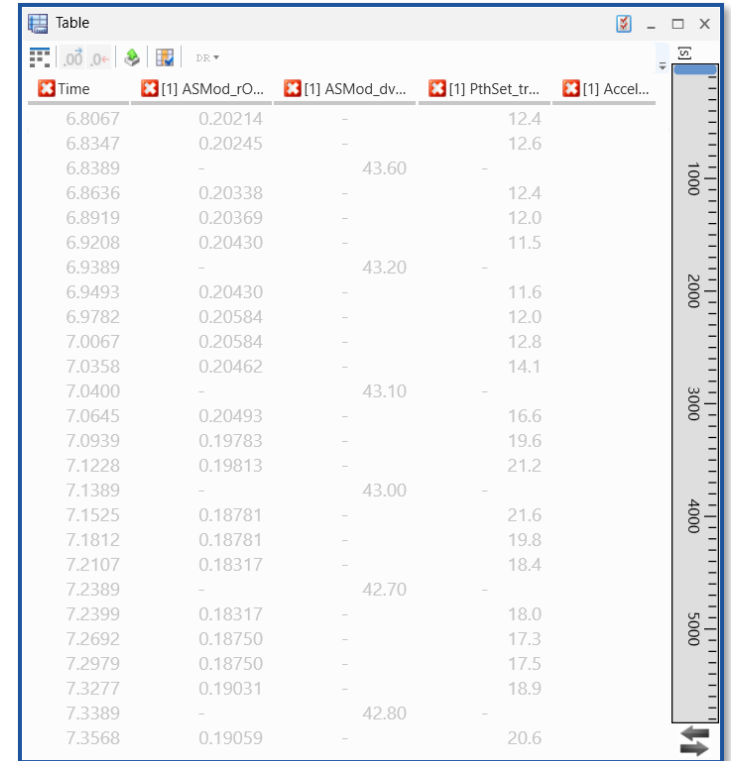
Notes:

- Only selected calculated signals are copied. Dependencies to other calculated signals need to be considered by the user, when copying.
- The reference of the input signals to the original measure file can be resolved usually in two steps:
 1. Replace in the target configuration the desired measure file by the original measure file for the calculated signals. It might be needed to remove first from the instruments in the target configuration the signals with the same names as the input signals of the pasted calculated signals.
 2. Replace the original measure file, but now to the desired measure file.

MDA V8.4.0 – What's New

Functional Enhancements: Further cases of corrupt data gets detected and is indicated (V8.4.0)

- There exists a wide range of potential issues caused by invalid data in measure files, e.g. time stamp overflows, block size exceeds file size, incorrect pointers, etc.
- Not all of these issues are detectable quickly when loading the file, but only when loading the data for the time range with the erroneous information
- When MDA V8.4.0 detects such error, then
 - on-the-fly an error icon is added to all signal names and time column in the active instrument
 - last available data is greyed out
 - the tooltip shown at the error icon provides more details



Time	[1] ASMod_rO...	[1] ASMod_dv...	[1] PthSet_tr...	[1] Accel...
6.8067	0.20214	-	-	12.4
6.8347	0.20245	-	-	12.6
6.8389	-	43.60	-	-
6.8636	0.20338	-	-	12.4
6.8919	0.20369	-	-	12.0
6.9208	0.20430	-	-	11.5
6.9389	-	43.20	-	-
6.9493	0.20430	-	-	11.6
6.9782	0.20584	-	-	12.0
7.0067	0.20584	-	-	12.8
7.0358	0.20462	-	-	14.1
7.0400	-	43.10	-	-
7.0645	0.20493	-	-	16.6
7.0939	0.19783	-	-	19.6
7.1228	0.19813	-	-	21.2
7.1389	-	43.00	-	-
7.1525	0.18781	-	-	21.6
7.1812	0.18781	-	-	19.8
7.2107	0.18317	-	-	18.4
7.2389	-	42.70	-	-
7.2399	0.18317	-	-	18.0
7.2692	0.18750	-	-	17.3
7.2979	0.18750	-	-	17.5
7.3277	0.19031	-	-	18.9
7.3389	-	42.80	-	-
7.3568	0.19059	-	-	20.6

Notes:

- For performance reasons MDA V8 checks during file loading only meta data of the file for inconsistencies.
- Also covered are network connection issues happening when MDA V8 needs access (e.g. when exporting a measure file).
- Update to show such an error happens per instrument only, and when there is a scroll or zoom operation conducted.
- Removal of the erroneous signal from the instrument might heal the situation.

MDA V8.4.0 – What's New

Files, Formats and Data Types – Changes in MDA V8.4.0 (December 2019)

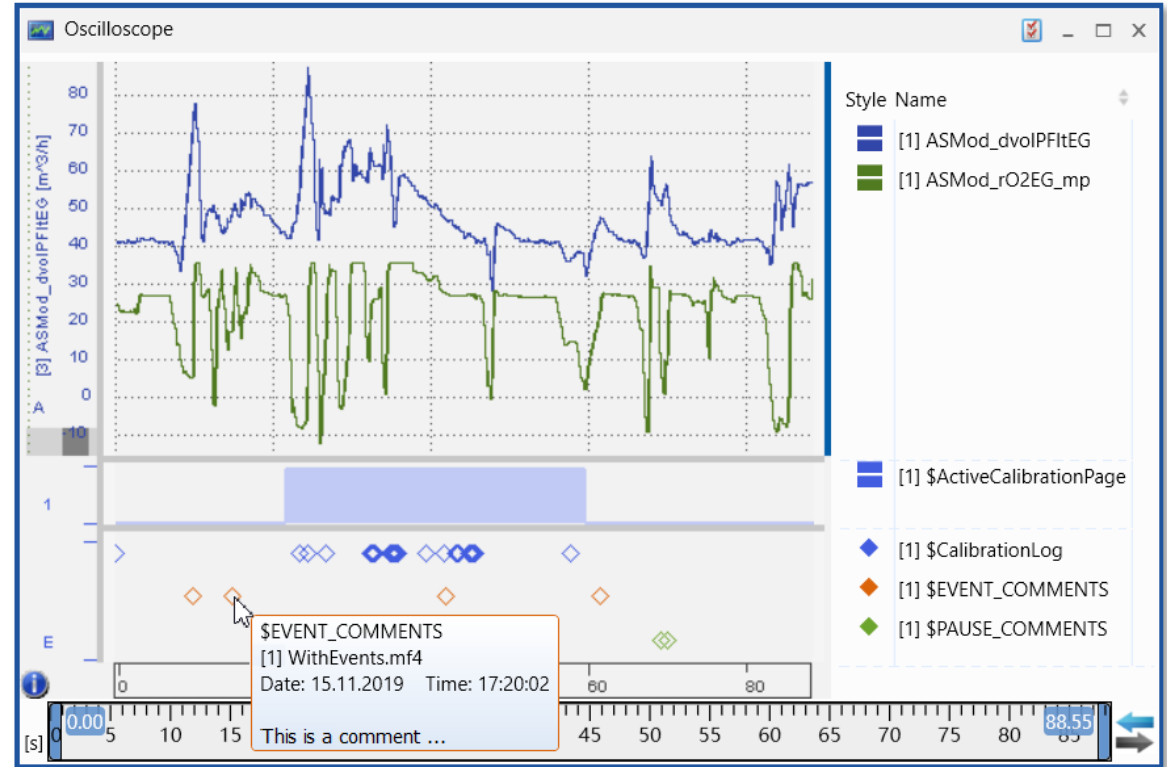


- **Functional Enhancements**
- **Files, Formats and Data Types**
 - Show 'Events' in the oscilloscope
- **Usability Improvements**
- **General**

MDA V8.4.0 – What's New

Files, Formats and Data Types: Show 'Events' in the oscilloscope (V8.4.0)

- Oscilloscope offers a 'Event Strip' to easily visualize and analyze event signals, like pause, comments during recording, or calibration activities
- Each event is reflected by a single marker (color and marker style can be adapted)
- When hovering onto a marker, available event contents are shown in a tooltip



Note:

- Improvement for visibility of Pause events is planned for an upcoming release.

MDA V8.4.0 – What's New

Usability Improvements of MDA V8.4.0 (December 2019)

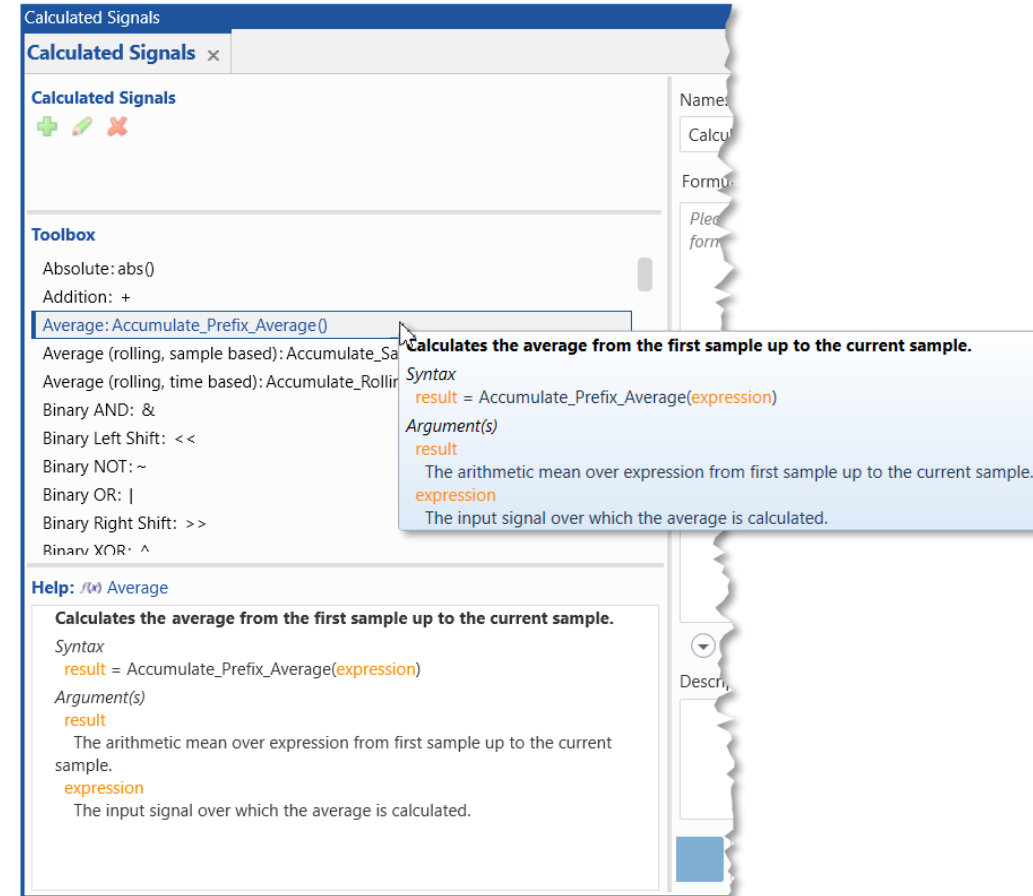


- **Functional Enhancements**
- **Files, Formats and Data Types**
- **Usability Improvements**
 - More meaningful naming of Calculated Signal functions
 - Remove all no-match signals in one step via Configuration Manager context menu
 - Copy signal name from Variable Explorer and oscilloscope signal list
 - Connect MDA V8.4 to a running EHANDBOOK-NAVIGATOR session
 - A signal is highlighted after selection in the Configuration Manager
 - Reduced data indicator at cursor values can be suppressed
- **General**

MDA V8.4.0 – What's New

Usability Improvements: More meaningful naming of Calculated Signal functions (V8.4.0)

- To make usage of Calculated Signal functions easier the names of the functions were reworked to have better understandable names
- Functions using the same basic operation appear in the list together (e.g. different functions of 'Average')
- The tooltip and Help window contents show a brief description of the arguments, and in more complex cases also limitations or examples



The screenshot displays the 'Calculated Signals' window. The 'Toolbox' section lists various functions, including 'Average: Accumulate_Prefix_Average()'. A tooltip is shown over this function, providing a brief description: 'Calculates the average from the first sample up to the current sample.' The tooltip also includes the syntax: 'result = Accumulate_Prefix_Average(expression)', the argument 'expression' with its description: 'The input signal over which the average is calculated.', and the result 'result' with its description: 'The arithmetic mean over expression from first sample up to the current sample.' Below the tooltip, the 'Help' section for 'Average' provides a more detailed description: 'Calculates the average from the first sample up to the current sample.' It also includes the syntax and argument descriptions.

Note:

- With MDA V8.4.0 the function names appear in English independent from the selected user language. This will be solved on one of the next versions.

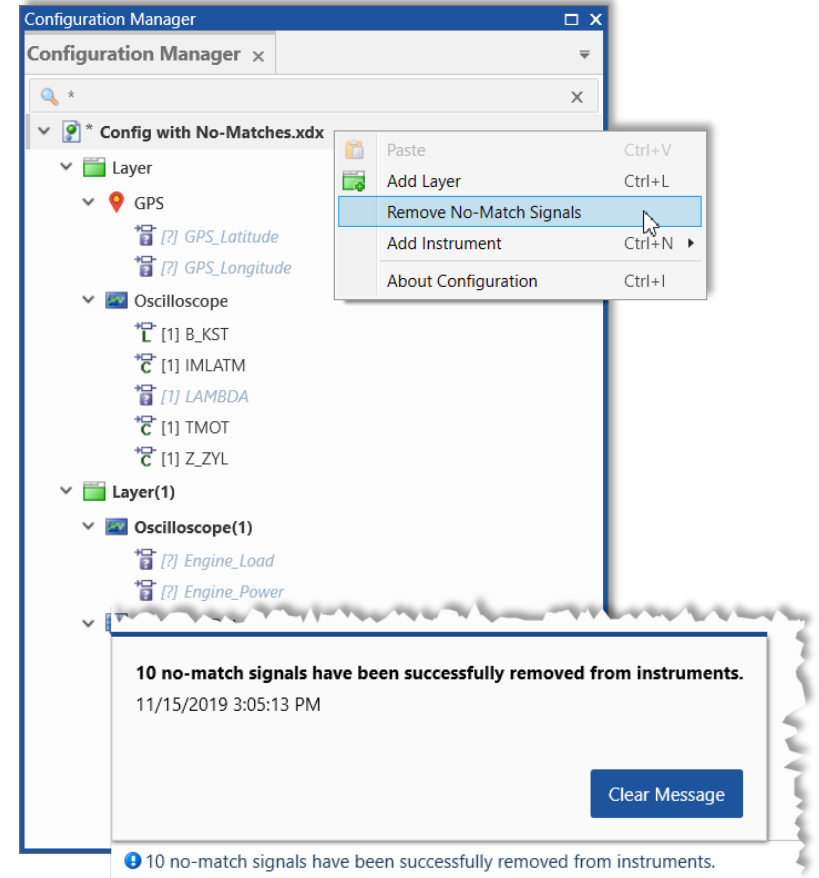
MDA V8.4.0 – What's New

Usability Improvements: Remove no-match signals from all instruments (V8.4.0)

- No-match signals happen, if a signal in the configuration can not be displayed because
 - after a file replacement no signal with the same name is available in a measure file
 - after a file replacement a clear identification of the signal to be displayed is not possible
 - the measure file was removed from the configuration
- To clean up the configuration from all no-matches in instruments, there is a new context menu entry in the Configuration Manager
- The clean-up result is shown in the status bar of MDA

Note:

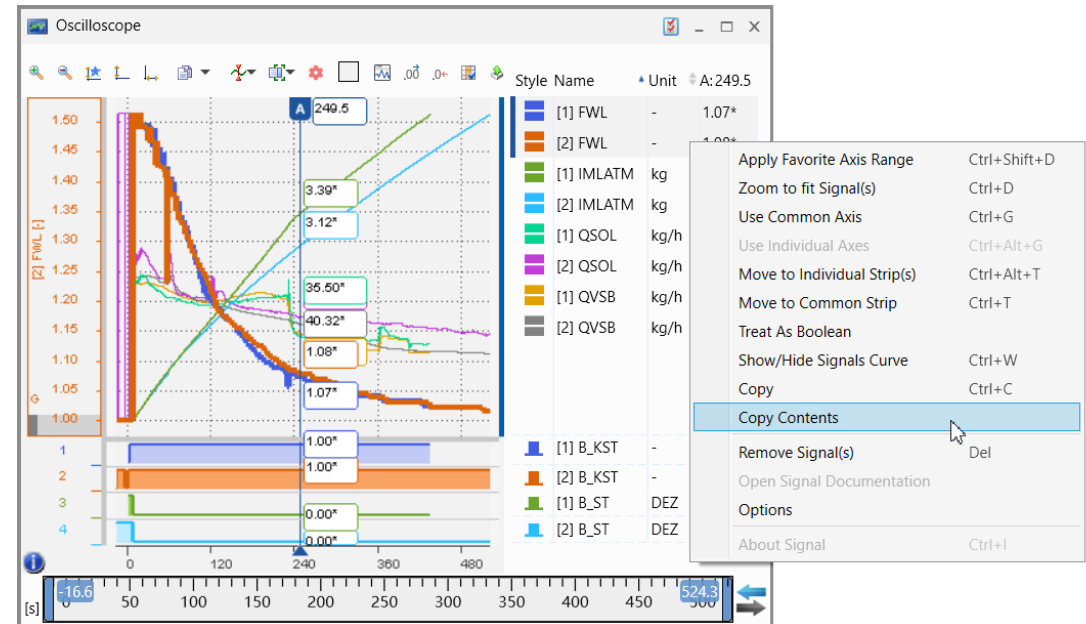
- A no-match situation caused by a missing measure file is indicated by the file ID entry [?].
- Removing a specific no-match signal only is done directly in the instrument or Configuration Manager.
- If the input signal of a Calculated Signal is in no-match state, the clean-up needs to be done manually.



MDA V8.4.0 – What's New

Usability Improvements: Copy signal name from Variable Explorer and oscilloscope signal list (V8.4.0)

- Depending on the context, 'Copy' (CTRL+C) functionality can be used for different use cases
- Usually the pure signal name shall be copied, as it is done in Variable Explorer, Configuration Manager, and all instruments except Statistics
- In Statistics view and Information Window the contents of the selected rows (e.g. statistical data) plus the row or column name are copied
- The new context menu entry 'Copy Contents' in the oscilloscope enables to copy complete rows incl. header row



Note:

- The possibility to copy (CTRL+C) is not shown in all context menus.
- To copy a signal name from the Scatter Plot the respective axis must be selected.

MDA V8.4.0 – What's New

Usability Improvements (V8.4.0)

Connect MDA V8.4 to a running EHANDBOOK-NAVIGATOR session

- When an EHANDBOOK-NAVIGATOR application is already open MDA V8.4.0 can connect to the running application *
- The loaded EHANDBOOK container is indicated automatically in the connection dialog

A signal is highlighted after selection in the Configuration Manager

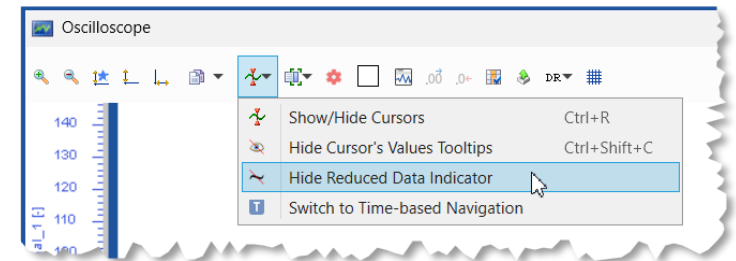
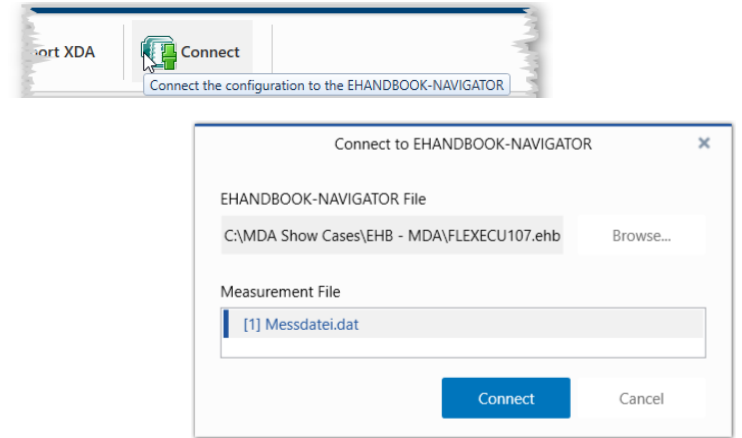
- A signal can be selected in the Configuration Manager using double-click or ENTER, and then its respective occurrence in the instrument gets visible and active

Reduced data indicator can be suppressed

- The indicator at cursor values for reduced data (\approx) can be hidden

* Note:

- Connection to an already running session requires EHANDBOOK-NAVIGATOR V8.0.



MDA V8.4.0 – What's New

General Notes for MDA V8.4.0 (December 2019)

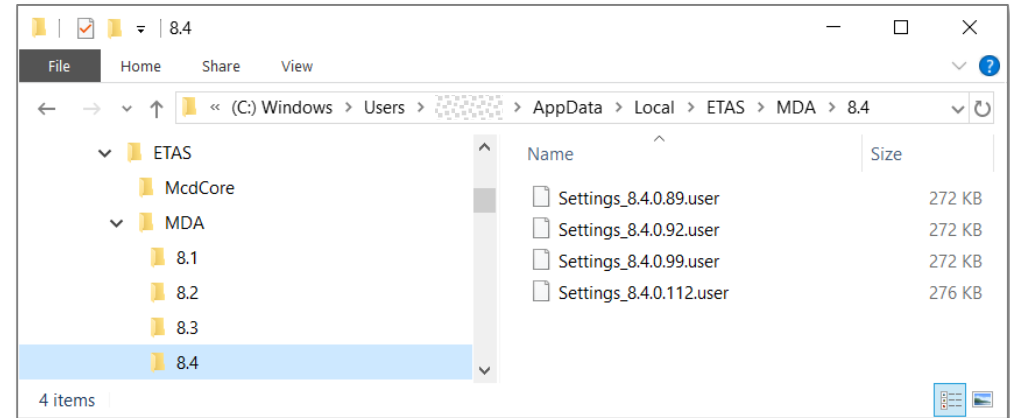


- **Functional Enhancements**
- **Files, Formats and Data Types**
- **Usability Improvements**
- **General Notes**
 - Reworked handling of `settings.user`

MDA V8.4.0 – What's New

General: Reworked handling of 'settings.user' files (V8.4.0)

- MDA V8 persists automatically many configuration settings selected by the user
 - For example language, paths, docking views, instruments and signal settings
- These settings are loaded, when the application is started
- Newer MDA installations for which no 'settings.user' file exists, migrate an available file to be re-used with the new installation
- With MDA V8.4.0 the 'settings.user' file name is extended by the version number
- This helps when the user needs to return to an older installation, as then the old 'settings.user' file is still available and can be re-used



Notes:

- For more details about persisted settings, see MDA Manual chapter 1.3.
- Existing settings.user files must not be edited externally. Edited files are rejected by MDA V8.
- For more details, e.g. where files are store, or how to define default settings see the MDA V8 documentation



Thank you for using MDA V8.4