
MDA V8.5.7

Release Notes

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1 Introduction

Dear customer, in this document you will find the latest information about MDA V8.5.7.

1.1 Definitions and Abbreviations

Term/Abbreviation	Definition
EHI	ETAS Help Desk International
KIR	Known Issue Report – For severe Problem Reports which occur after a release, ETAS has introduced the Known Issue Report to inform affected customer immediately. The current Known Issues of former versions can be found on the ETAS website: http://www.etas.com/kir
LiMa	License Manager
MDA	Measure Data Analyzer
MDF	Measure Data Format
PR	Problem Report
SP	Service Pack

1.2 Privacy Disclaimer

Please note that personal data is processed when using MDA. As the controller, the purchaser undertakes to ensure the legal conformity of these processing activities in accordance with Art. 4 No. 7 of the General Data Protection Regulation (GDPR/EU). As the manufacturer, ETAS GmbH is not liable for any mishandling of this data.

Through the use of this product measurement data that may include person-related data can be processed. This measurement data, for example, include vehicle identification numbers (VIN) or vehicle number plates as well as GPS, video, audio or other measuring data. The exact data recorded in each case is determined by you when you configure your measuring system. Note that, in such cases, you are responsible for the legally compliant handling of the data in accordance with applicable national law.

Technical and organizational measures

This product does not itself encrypt the person-related data respectively data categories that it records. Ensure that the data recorded are secured by means of suitable technical or organizational measures in your IT system, e.g. by using classic anti-theft and access protection on the measurement hardware. Person-related data in log files can be deleted by tools in the operating system.

1.2.1 Data Categories

1. When using the ETAS License Manager in combination with user-based licenses, particularly the following person-related data and/or data categories that can be traced back to a specific individual is recorded for the purposes of license management:
 - User data: User ID
 - Communication Data: IP address

2. When using the ZipAndSend functionality for reporting product defects to us the logfiles and user settings file included in the zip file may contain file paths on your system, e.g. the full file path to a measurement file used in MDA. If you use personal data in your file paths (e.g. the user id) and you do not want this data to be sent you will have to remove it manually from the logfiles (via text editor, e.g., notepad) and from the user settings file (via database editor, e.g., DB Browser).
3. When using the GPS instrument, GPS data points are not sent to the external data provider but processed and visualized internally within the tool. Particularly the following person-related data and/or data categories which can be traced to a specific individual is used for the purpose of visualization:
 - Measurement Data: GPS data points
4. When using the GPS instrument, particularly the following person-related data and/or data categories that can be traced to a specific individual is send to the external map data provider (Omniscale GmbH) and used there for the purpose of providing the requested map data and for detecting and preventing malicious attacks on their infrastructure:
 - Communication Data: IP address

1.3 Conventions

The following typographical conventions are used in this document:

Choose **File** → **Open**. Menu / Ribbon commands are shown in boldface.

1.4 User Documentation

For details about the installation, see Chapter 2.4 'Installation'.

The user documentation for MDA V8 can be found in the installation folder on the PC, namely here: %Program Files%\ETAS\MDA8.x\Documentation.

After installation documents are accessible from the application itself via the **Help** ribbon or MDA V8's **Home Page**.

It includes:

- **What's New**
Functionality newly introduced with MDA V8.5.x is described in the "MDA-V8.5.x-Whats-New.pdf" document. The slide set is cumulative, i.e. includes separate sections for all Service Pack releases of MDA V8.5.
- **Manuals and Videos**
Different documents are provided: MDA V8.5.x user documentation in PDF format, a brief overview of MDA V8 functionality (slides "MDA V8 Functionality Overview"), and several videos demonstrating MDA V8 functionalities.
- **Glossary**
An explanation of the meaning of terms used in combination with MDA V8 opens.
- **Hot Keys**
A comprehensive list of supported keyboard short-cuts is provided. The list can be sorted per column, by clicking onto the column header.

2 Product Definition

2.1 Functions at a glance

MDA V8.x represents the new generation of ETAS' measure data analysis tool. It combines

- High performance and user-friendly operation concepts
- Support of different measure file formats, best performance can be achieved using MDF V4.x format version in combination with ASAM Standard indexing
- Several instruments to visualize recorded data (e.g. oscilloscope, table, GPS map ...)
- Easy creation of so-called calculated signals
- Export of measure data and measure file format conversion
- Interoperability with INCA V7.x (preferably V7.3.x) and EHANDBOOK-NAVIGATOR
- Import of INCA and MDA V7 configurations (*.xda files, and *.xcs file)

2.2 General Description

2.2.1 System Prerequisites

The following minimum system prerequisites have to be met:

Required Hardware	2 GHz dual-core processor, 2 GB RAM Graphics card with a resolution of 1280 x 1024, 1GB RAM, 32bit color and DirectX 9
Required Operating System	WINDOWS® 8.1 (64 bit) WINDOWS® 10 (64 bit) Version 1803 or higher WINDOWS® 10 Enterprise (64 bit) LTSC 2016 or higher WINDOWS® Server 2016 (64 bit) * WINDOWS® Server 2019 (64 bit) *
Required Free Disk Space	5 GB (not including the size for user data)

The following system prerequisites are recommended:

Recommended Hardware	3,0 GHz quad Core processor or equivalent, 16 GB RAM Graphics card with a resolution of 1280 x 1024, 1GB RAM, 32 bit color and DirectX 9
Recommended Operating System	WINDOWS® 10 (64 bit) Version 1803 or higher
Recommended Free Disk Space	>10 GB

*Note: See also section 2.5 "Licensing" on page 8.

Investigation on performance showed

- More memory improves execution time of repetitive operations
- SSD Hard disks improve the file access times

2.2.2 Software Prerequisites

Administrator Privileges

To install the program, you need administrator privileges.

User Privileges

To work with the program, each user must have read and write access for the following folders and directories:

- %ProgramData%\ETAS\
- %LocalAppData%\ETAS\

2.2.3 Restrictions

Other or older versions of WINDOWS® operating system than mentioned in the System Prerequisites (see section 2.2.1 on page 6) are not supported.

Installation is only possible on a native 64bit operating system.

2.3 Delivery

MDA V8.5.7 is delivered with an installation routine, including MDA software, documentation, tools, utilities, and further information. All software documentation is available in the Portable Document Format (PDF) in the folder \Readme, which requires Adobe® Reader®.

The delivery contains the following items:

Directory	Meaning / Explanation
Main folder: "MDA_V8.5.n"	Installations and documentation of MDA V8.5 <i>Service Pack n</i> and related software. Important: Do not change the folder structure
File: "setup.exe"	Setup to install or update the included MDA V8 related software (Refresh, hotfix and related tools) automatically
File: "MDA-V8.5.n-Whats-New.pdf"	Contains information regarding new features implemented in MDA V8.5 <i>Service Pack n</i>
Sub-Folder: "Readme"	Release Notes "MDA_V8.5_Release_Notes.pdf", "MDA_InstallationGuide.pdf", and others (e.g. open source software documentation)

2.3.1 Used 3rd Party Software

The 3rd Party Software used by MDA V8.5.x is listed in the folder: \ReadMe\OpenSourceSoftware\ of the installer.

After installation of MDA the document can be found in the folder: \Program Files\ETAS\MDA8.x\Documentation\OpenSourceSoftware\...

2.3.2 Used Components

Together with MDA V8.5.7 the following components are shipped and optionally installed:

- DirectX V9
- .Net-Runtime Environment 4.8
- ETASSHARED (IPManager only) 13
- ETAS License Manager (LiMa) V1.8.5
- MCD Core V0.31
- BOA EBI Distribution Package V2.31
- nPCAP OEM V1.10
- Visual C++ 2015 SP2 (x86,x64)
- Visual C++ 2017 Redistributable(x86,x64)
- Visual C++ 2019 Redistributable(x64)

ETAS software products are sharing one installation of ETAS License Manager (LiMa). Therefore each product installation installs LiMa only if there is an older or no version available on the target computer. Another ETAS software product might update LiMa to a succeeding version.

The same is true for BOA EBI Distribution Package.

2.4 Installation

MDA V8.5.7 can be installed independently, or using INCA Service Pack Installer.

Details for the installation are described in the document "MDA_InstallationGuide.pdf" which can be found in the `\ReadMe\` folder of the installation package, or can be downloaded from the ETAS Download Center.

2.4.1 Installation Hints

Installation of MDA V8.5.7 Service Pack replaces any former Service Pack of MDA V8.5.x. An existing installation of a former MDA Version (e.g. V8.4.x) is not changed.

Depending on the actually installed software and components a reboot might be required after installation before MDA V8 can be started.

2.5 Licensing

MDA V8.5 is protected by means of an electronic licensing.

In order to run and use the product, a valid license file is required that needs to be installed via the ETAS License Manager. The license manager is opened during the installation and can also be started at a later point as an external program located in the ETAS program folder in the Start menu.

Independent from the Operating System, and the kind of used electronic license, only one instance of MDA can run on one machine at a time.

The license file can be obtained through a self-service portal on the ETAS website by using the software entitlement you received during the order process, or it is provided by your tool coordinator.

For using MDA V8.5.x an existing MDA V7.2 license is accepted.

A valid license for INCA V7.2 or INCA V7.3 includes usage of MDA V8.5.x.

3 Changes

This chapter describes changes with respect to the previous version of MDA V8.5.7.

3.1 What's New

New functionality introduced with MDA V8.5.7 is documented separately in the "What's New" slide set. The slide set can be found in the installation folder on the PC, and is accessible in the application itself via the [Home Page](#) → or [Help](#) → [What's New](#).

The slide set is cumulative, i.e. it includes What's New slides of former MDA V8.5.x versions.

3.2 Compatibility to Earlier Releases

MDA V8.5.x supports to load and reuse configurations from any former (i.e. older) MDA version since V8.2.x or higher.

Configurations saved with MDA V8.5.7 **cannot be opened** with a former MDA V8.x version.

With MDA V8.5.1 the location for storage of customer specific configuration files for ASCII format based measure files was changed to the following directory:

```
%ProgramData%\ETAS\MDA\8.5\CorePlugins\  
Etas.TargetAccess.Targets.MeasureFile.Formats.AsciiConfigurable
```

New and existing configuration files (*.ini) should be stored in the new directory to enable usage in MDA V8.5.x.

3.3 Fixed Problems

This section describes the set of fixed problems of the released version of MDA V8.5.x.

3.3.1 MDA V8.5.7

EHI #	Title
627256	ASCII timestamp format not recognized
648652	Not possible to add trace data in blf format with AUTOSAR description file
650971	MDA8.5.3 Some variables from a CANalyzer created MDF file not visible in MDA8.4 or higher, MDA8.3.0 or smaller working
655643	MdfConvert.exe fails converting from User Defined ASCII to .dat/.MF4
657145	suppress Device Name for "export" of measure files in the format MRF
668941	1 x [Ex-ID#2177403732] when accessing the measure file from an archive
670003	MDA8_the_all_data_files_filter_option_when_selecting_measurement_files_does_not_allow_MDF_files_to_be_selected
672644	1 x MDA 8.5.4 report Ex-ID: #3830702928

673386	Ex-ID: #2988851006>>>Etas.CoreApi.RemoteException.RemoteRuntimeException
674019	1 x Ex-ID 4007420951 Etas.CoreApi.RemoteException.RemoteException

3.3.2 MDA V8.5.6

EHI #	Title
639618	MDA8 Copy&Paste function out of Info Screen takes hole line content not Label name only
648060	Bosch - MDA8.5 MDF Converter not usable for some variables
650365	MRF format file exports separately by unknown conditions
652585	VTAB-Signal: Sample Connection not available
655977	2 x report Ex-ID: #3966501142 Cannot access a disposed object -> object name: 'ConfigurationModel'
657537	Calculated signal with Lookup1D does not deliver values on cursor position in MDA 8.5.4 RC4 when cursor is not moving
658770	MDA8 exporting mdf file does not overtake MDF recording date from origin file
660886	MDA8 CAN-TRACE AddOn, no variables available when loading BLF/DBC
660900	temp unit, degC is broken
662980	MCDCore 0.28 SDK (Debian) returns empty records
662982	Invalid Signals for Scripting : McdCore crashes when import a measure file
664085	Add data on oscilloscope causes severe issue and anything cannot be displayed
665080	MDA8 CAN Trace addon is not working --> aff File is not accepted
665103	TDT_crit_shift_j_neg/pos displayed NaN or blank on MDA
665722	MDA operations is too slow up to freezing
667277	1 x [Ex-ID: #991183747] System.Runtime.InteropServices.COMException: UCEERR_RENDRTHREADFAILURE (Ausnahme von HRESULT: 0x88980406)
667334	MDA 8.5 crash with empty error message after long uptime/sleep cycles
668149	MDA8 doesn't show time axis for mf4 file generated with INCA
668738	MDF Combine does not work as expected

3.3.3 MDA V8.5.5

EHI #	Title
566871	No signals visible in MDA V8.1.2 by reading MDF written by CANape

573349	signal course is not displayed in Oscilloscope
587799	Oscilloscope view contrast comparison vs. INCA shows differences
595572	MDA8.2.3 does not show signal sequence
611945	MDA8 mapping dialog for not existing Signals
614853	No VERBAL representation available
615798	MDA8_Mapping_replace variables with different device and different measure file format
615885	Some signals are not visible after replacing of measurement file
615889	MDF4 file is in use in the XDX - replacement with DAT doesn't work
621890	MDA shows PHYS representation for signals with nested conversion
623569	MDA8 Font size on Oscilloscope
625538	4 x Ex-ID: #1910101248: Move Variable Explore Tab to other position -> System.InvalidOperationException: Cannot perform this operation when binding is detached.
627014	Mapping does not work as expected
630050	MDA 8.x does not show text of signals, only physical visualization of nested conversions are possible
637739	Replace of measurement file does not work for files from VECTOR's drive recorder
643664	MDA851_No_link_to_open_ETAS_License_manager_in_MDA8
646155	4 x Ex-ID: #2664045854 - connect mda to ehandbook and try to open a measurement
654693	13 x [Ex-ID: #2331439533] Ice.ConnectionRefusedException: Data: System.Object = null
655408	1 x Ex-ID: #187417720
655534	MDA 8 wrong implementation of STRG + D --> only one axis is scaled
655551	Configuration corrupted caused by hard PC reset
655576	1 x Ex-ID: #607010195>>>Ice.ConnectionRefusedException: >>> Data: System.Object = null>>>
655614	1 x [Ex-ID: #4145283816]
655802	MDA8_Focus in File Explorer changes unexpected
655815	2 x MDA 8.5.3 report Ex-ID: #1441053622
656014	csv file import with MDAV8.5.3 didn't work
656242	MDA.8.5: MDA stop to work
657084	1 x Exception Ex-ID: #448874148 System.NullReferenceException: Object reference not set to an instance of an object.
657166	Loaded configuration contains data from not available plugins and can't be loaded

657277	Zoom to fit not effective if time zoom is active and not the complete time range visible
657585	1 x [Ex-ID: #187417720] - Bosch.MT.MDA.ExportPlugin
657816	1 x Ex-ID: #3349209028 - Bosch.MT.Mda.Synchronization
657982	report Ex-ID: #1442225047 - export causes crash when start/end time stamps are doubles with no decimals (e.g. "2.")
658221	MDA8 Writing MDF4.10 File is not working --> output buffer too small
658225	*.dat file from CANoe not readable => Timestamp available but not usable
658655	NLS: Some Strings are hard coded (Variable Explorer)
658749	1 x [Ex-ID: #1556044410] Etas::Base::RuntimeException: ContextManager::GetContextInternal: context with handle id '243144' doesn't exist.
658899	MDA V8.5.1 Oscilloscope Y axis font size too small
659002	[FAQ] XDX config cannot be opened with double click. It opens itself as measure file in the configuration
659260	1 x [Ex-ID#2196319745] System.Net.Sockets.SocketException: Es konnte keine Verbindung hergestellt werden, da der Zielcomputer die Verbindung verweigerte 127.0.0.1:25167
659322	1 x [Ex-ID#3271845127] Ice.ConnectionLostException:
659556	1 x [Ex-ID1404313818] System.Collections.Generic.KeyNotFoundException: The given key was not present in the dictionary.
659603	MDA 8 variable present in file but not being updated with replace function.
659726	MDA Bus Trace doesn't work for J1939 DBC file
659795	1 x Ex-ID: #1748400550
659854	MDA freezes when scrolling fast in variable explorer with measure file from Kvaser
659915	MDA8 inconsistent mapping after file replacement
660005	configuration from MDAV8.5.3 didn't open with MDA V8.5.4 in combination with corresponding measurement file
660038	1 x [Ex-ID#3915434398] System.InvalidOperationException: Das Element besitzt bereits ein logisches übergeordnetes Element und muss zunächst von dem alten übergeordneten Element getrennt werden, bevor es an ein neues angefügt werden kann.
660167	MDA8 freeze when loading mf4 to xdx
660247	MDA8_printing function does not adjust when Display Size of Screen is changed
660419	Export file is not readable
660706	1 x [Ex-ID#3759606346] Ice.ConnectionRefusedException:
661275	MDA shows a deviation in signal but zooming to this sample point then its not more visible

3.3.4 MDA V8.5.4

EHI #	Title
600753	No possible to create compressed export of mf41 file
611603	MDA not always loading data from secondary drive
620193	1 x [Ex-ID: #2915543157] Ice.ConnectFailedException report
622069	1 x MDA 8.3.2 report Ex-ID: #1339679688
623020	1 x Ex-ID: #4161100561 Ice.ConnectionRefusedException:
624153	1 x [Ex-ID#301350457] System.IO.InvalidDataException: Reference View is incorrect. One of the Central Signal Representation component consumers has inconsistent Reference View. To ensure Reference View consistency it should be caught each time when Amf ch
626917	2 x [Ex-ID#1220496074] System.NullReferenceException: Der Objektverweis wurde nicht auf eine Objektinstanz festgelegt.
627234	1 x [Ex-ID#4053832845] Ice.ConnectionLostException:
627257	Docking windows can be lost and unrecoverable
627445	3 x [Ex-ID: #4041940009] System.Net.Sockets.SocketException: Es konnte keine Verbindung hergestellt werden, da der Zielcomputer die Verbindung verweigerte
631460	1 x [Ex-ID#2653370494] System.ArgumentOutOfRangeException: Der Index lag außerhalb des Bereichs. Er darf nicht negativ und kleiner als die Sammlung sein.
632496	3 x [Ex-ID: #1877777077] Etas.TargetAccess.CoreBase.Main.exe has stopped working during MDA startup
633083	1 x Ex-ID: #1484190726 MDA crashes occasionally
636824	3 x [Ex-ID: #2907695586] System.InvalidOperationException: Visibility kann nicht auf "Visible" festgelegt und Show, ShowDialog, Close oder WindowInteropHelper.
637944	MDA8_scaling or shifting of y-axis with VTAB is not saved in MDA configuration
639481	1 x Ex-ID: #1428763872 - NullReferenceException from a Telerik component
641615	MCDCore Exception on executing the asynchronous callback from Matlab
641909	1 x [Ex-ID#2757615898] System.InvalidOperationException: This Visual is not connected to a PresentationSource.
643260	Calc Signal: Accumulate_Reset_Minimum / Accumulate_Reset_Maximum
644283	Master Signals' ID is corrupt in Signal Meta Data request
645735	1 x [Ex-ID: #4289466375] System.NotSupportedException: The name of a calculated signal must be unique!
646379	MDA8 doesn't save the boolean and enum axis configuration

647118	MDA will not install with Windows FIPS compliant encryption policy enabled
648210	1 x [Ex-ID: #2871896129] System.AccessViolationException at <Module>.lima_connector_stub_checkout_silent
648834	1 x [Ex-ID1715245096] System.Runtime.InteropServices.COMException
649214	Incorrect signal curve in oscilloscope for dec/hex visualization compared to phys
649319	MDA 8 not auto-loading mdf file on double click after windows 10 migration
649402	1 x [Ex-ID: #3443945923] Ice.ConnectionRefusedException: Data: System.Object = null
649799	MDA crash with Exception on executing the asynchronous callback to the client: ::Ice::ConnectionLostException
649827	1 x [Ex-ID: #2871896129] System.ServiceModel.EndpointNotFoundException
649852	MDA 8 Preview window is not painted completely
649905	dat file could not be displayed in MDA V8.5.2 -> message unusable master or no master signal present
649945	missing values in MDA representation
650012	1 x [Ex-ID: #1846493009] System.Runtime.InteropServices.COMException
650041	1 x [Ex-ID: #2723590749] System.InvalidOperationException: Cyclic reference found while evaluating the Style property on element 'System.Windows.Controls.DataGridCell
650261	Is it possible that MDA V8.4 open XDX made by MDA V8.5?
650592	1 x [Ex-ID#244740812] System.ObjectDisposedException: Auf das verworfene Objekt kann nicht zugegriffen werden.
650691	1 x [Ex-ID: #2949162295] Ice.ConnectionLostException
651151	MDA8 Video AddOn: Video does not work
651177	MDA can not open .aff files
651267	Lookup1D does not deliver values
651300	Time Offset for .aff files does not work
651559	MDA 8 Unable to remove cursors from converted configuration
651564	MDA 8_5_3 installation issue
651846	Replace Measure File in the File Explorer Dialog without focus to the used Measure File
652124	3 x MDA sporadical crash without ID: Client crash detection - Ice::ConnectionLostException received
652389	MDA 8 cannot display the correct track in GPS MAP when data contains 0 values but MDA 7.2 shows it correct
653697	Cannot create a lab file with used configuration without saving xdx config and restart in MDA 8.5 for whole config or layer

653762	1 x MDA 8.5.1 report Ex-ID: #4202250437
653964	MDA freezes when switching from / to the docking station
654070	Split of a measurement in the MDA
654240	MDA 8.5.3 / 8.5.4 Beta 357 ZipAndSend doesn't work
654593	1 x [Ex-ID3615186687] System.InvalidOperationException: Die Sequenz enthält mehrere übereinstimmende Elemente.
654766	1 x [Ex-ID #2325049464] System.InvalidOperationException: Cannot call StartAt when content generation is in progress.
654816	1 x [Ex-ID#2087683876] Ice.ConnectionRefusedException:
655046	An integral is wrong calculated
655334	Lab file export only works if all signals are found in current datafile
655408	1 x Ex-ID: #187417720
655461	Ex-ID: #1159576070 Video Instrument box happened exception and finally caused MDA system down.
655551	Configuration corrupted caused by hard PC reset
655576	1 x Ex-ID: #607010195>>>Ice.ConnectionRefusedException: >>> Data: System.Object = null>>>
655614	1 x [Ex-ID: #4145283816]
655640	How to show the measure file name in oscilloscope window
655921	MDA8.5 is unable to start
656014	csv file import with MDAV8.5.3 didn't work
656242	MDA.8.5: MDA stop to work

3.3.5 MDA V8.5.3

EHI #	Title
340323	Could not set X-axis offset for 1-label with using multiple measurement data.
439174	EW_MDA715 Measure Signal with NaN or Infinities does not show any warning
612518	Wrong visualization from hexadecimal value of label with MDA 8.3.2
615547	All variables from measurement file cannot be exported from oscilloscope tool
632520	Wrong visualization of values in MDA 8.4, when zoom level is 0 (i.e. no zoom) of a bit signal
637266	Export all the signals with oscilloscope time area in MDA 8
639178	MDA8 ETAS calibration Device signal is not shown correctly when zooming out
639184	Incorrect signal curve in oscilloscope when zooming in/out
642549	Incomplete display of signal icon and name after 'treat as boolean'

642936	GM - MDA 8 FR - Relocate Delta T bubble for cursors
643181	MDA v8.5.1 Background color in Oscilloscope
644100	MDA8.5.2 build 631 symbols top right for minimize / restore down and close seems to be without function
644943	report Ex-ID: #3080415698
645218	MDA_8.5.1: datas are not visible: Unusable master or no master signal is present. The physical master signal needs to be a 64-bits float data type
645252	Incorrect signal curve for 64 bit floating point signal in oscilloscope when zooming in/out
645980	MDA8 Cursor Values not readable with 1µs use case
645981	MDA8 zooming under 10µs an scrolling with small time ranges not possible
646568	Pause time after merging is not plausible
646590	Not possible to calculate an integral
646704	MDA Video Addon Play button is not working
647030	MDFCombine error with dat files
647033	Error when converting combined file
647053	After changing resolution of display to a not recommended one MDA 8.5.2 cannot be closed / minimized / undocked and layer cannot be undocked and resized or moved
647874	MDA8 replace of big files in configuration takes more than 1minute without any progress bar
648657	Not possible to analyse trace data in blf format recorded with INCA

3.3.6 MDA V8.5.2

EHI #	Title
595924	Offset configured in XDA is not assumed in MDA8 - Merge use case
597799	Merging multiple *.dat files
603999	Per double-click replace of actual measure file in MDA8.x
604747	Ex-ID: #3176398903 MDA crashes with default link to measure file created by windows
610737	MDA8 non monotonous conversion -->signal cannot be display in Oscilloscope
615186	MDA8 bad performance when painting oscilloscope after zoom in action in compare to MDA7
621978	Measure file cannot be replaced by drag-n-drop
633069	MDA8 painting oscis not working in certain Zoom steps with EventComments

633262	Message ID contents of mixed float64 array elements do not get displayed as expected
633293	MDA8 hanging after disconnecting EHandbook
634177	Concatenate measure files
637205	MDA8.4.0: No signal displayed in oscilloscope
638585	1 x MDA 8.4 report Ex-ID: #3305386697
638875	No curves visible in Oscilloscope after addition of the calculated signal
639109	Problem with replace measure file
639258	1 x [Ex-ID: #3369043875] System.ArgumentOutOfRangeException: Das angegebene Argument liegt außerhalb des gültigen Wertebereichs.
639398	MDA 8: changes on axis values of 64bit floating variables are not saved and sometimes not directly applied to an oscilloscope
639487	Measurement file is not changed when some layer or tool is copied from another configuration
639631	Ex-ID: #1181688087
639799	missing unit and cursor values in the oscilloscope
640071	MDA8_in certain zoom level and certain MDA-window size signals disappear in certain time range
640222	MDA 8.4 report Ex-ID: #3793909201
640266	Ex-ID: #3143563677 - MDA does not start any more
640762	Axis settings get lost if changing signal color
641411	MDA8 after using Strg + F again already inserted text was not marked
642672	MDA 8.5.1 - changing of a color from a signal changes the axis range
644071	MDA8 new feature Properties grid comes with massive Performance Problems (*.dat, no index)

3.3.7 MDA V8.5.1

EHI #	Title
595905	MDA8 zoom in/out changes value of cursor
610828	MDA8 Info Center shows wrong information out of Variable Explorer
611102	MDA8 Signal - Axis arrangement in oscilloscope
621622	some help description of Calculated Signals were not shown in Japanese
623778	Many texts and mouse overs are in English instead of German (missing translation) in MDA 8.3.4 released version
627222	MDA 8.3.4 HF1 and MDA 8.4.0 beta 146 shows the wrong enumeration value in sample based and time based mode navigation by zooming out

627257	Docking windows can be lost and unrecoverable
628821	Cursor value for value to text labels maybe incorrect with reduced data
630055	MDA shows interpolated cursor values
630858	MDA shows wrong cursor value in Oscilloscope
631199	Duplicated sample's marker was not displayed in Oscilloscope
631380	Sorting of files in file selection takes too long
631531	MDA 8 shutdown on XDX Load
631926	Hard coded string which cannot be translated
631954	Several hard coded string which cannot be translated
632074	MDA8 Replacing measure file was not performed with special path
632170	NLS: Several hard coded string which cannot be translated
632443	MDA 8 not updating all variables on file replace operation
632874	MDA 8 loading incorrect setting.user file
633067	NLS: MDA8 missing German translation
633142	Standard Flip-Flop tool does not works as expected
633168	NLS: Some Strings are hard coded (Hotkey => GPS Track List)
633172	1 x [Ex-ID: #488813898] Ice.ConnectionRefusedException
633346	MDA 8 cannot start with error "ETAS License Component is unavailable"
633691	*.xda file cannot be imported
634129	Ctrl+I is not working when pressing Ctrl+I 2x or when Info center is not pinned
634405	MDA8_cursor_values are not displayed correct
634409	MDA V8.4.1: error "ETAS License Component is unavailable"
634478	1 x Ex-ID: #2473826685 System.OverflowException: Negating the minimum value of a twos complement number is invalid.
634873	MDA8.4.1: State_RSFlipFlop signal is not calculated
634979	MDA8 Ex-ID: #3571877560 when copy from clipboard
635391	MDA 8 - signal has no data with warning message "Field does not exist"
635846	MDA 8.4.1 Build 1113 Crashes using [in Add Signal To Text field
636246	[FAQ] Info about measure variable is not visible
636516	MDA 8 - Adding calculated signal results in all other calculated signals becoming unavailable
636579	Conversion of measure file fails
636750	MDA 8 State_RSFlipFlop not working

3.4 Known Issue Reports

If a product issue develops, ETAS will prepare a Known Issue Report (KIR) and post it on the internet. The report includes information regarding the technical impact and status of the solution. Therefore you must check the KIR applicable to this ETAS product version and follow the relevant instructions prior to operation of the product.

The Known Issue Report (KIR) can be found here: <http://www.etas.com/kir>

3.5 Known Issues

This section describes known problems of the released version of MDA V8.5.7.

3.5.1 Software Related Items

General:

- Installation of component Visual C++ 2017 Redistributable (x64) can cause an installation failure: Error code 1638.
Solution: Manually configure or remove the component Visual C++ 2017 Redistributable (x64) and Install MDA V8.4.x again
- With older versions of Windows® 10 problems when waking up from sleep mode can happen. These Windows versions are not supported any longer by MDA (see section 2.2.1 "System Prerequisites" on page 6).
- If MDA reacts with an exception when connecting to, or disconnecting from an external monitor, optionally combined with sleep mode of the computer, an update of the driver for the graphical card is recommended. Possibly the exception can be prevented by switching in MDA on a layer without an oscilloscope or scatter plot instrument before (dis-) connecting.

Data:

- MDF standard indexing is beneficial for data display, missing index impairs performance.
- MDA supports scalars only including Enumerations, String, Events. Arrays and Structs (e.g. maps/curves from calibration recording) are not supported.
- Not supported conversion types are:
 - Signals with nested conversions, except STATUS_STRING_REFS
 - Free form
 - Text-to-Value
- Export of EVENT signals from MDA user interface is not supported. MdfConvert.exe provides a specific argument to include Events.
- For drawing the signal curve of a STATUS_STRING_REF signal in an oscilloscope the numeric conversion formula is used even when the sample has a verbal conversion. The textual value is shown in the cursor tooltip and cursor column of the signal list. When using the STATUS_STRING_REF signal as input for a calculated signal, samples with a textual value result in invalid samples of the calculated signal.
- Time channel physical values must be in seconds. Due to nano-seconds precision time stamps > ~1Mio seconds (~10 days) are not supported.
- Time channel data type must be of Floating point 64 bit.
- For files with a virtual master channel, indexing is not used, thus performance might be lower.

- Delay State function supports a positive delay only. In case of entering a negative delay value, no data is displayed.
For a time shift of an individual signal use calculated signal's 'Output Options'.
- Individually shifted signals are ignored when determining the complete time range.
- For MDF3 files the DISPLAY_IDENTIFIER contains the device name.
- When exporting / converting files in DXL format into MDF V3 format, the process might be extremely slow, and does not react on cancel.

Instruments & Layers:

- In case there occur problems while creating an oscilloscope, please update your graphic device driver, if needed manually.
- Synchronization is limited to one mode and one synchronization group.
- Limitations of Scatter Plot instrument
 - Cursor synchronization is not supported
 - Per strip only one signal can be assigned to the y axis
 - Samples are drawn based on time relation of signals on x and y axes, therefore signals should be from the same measure file preferably acquired in the identical measure raster
- Event List Instrument: when using cascaded calculated signals the calculation might take long time till data is displayed in the instrument.
- When storing a configuration having layers arranged side-by-side, the arrangement of the layers gets lost, and cannot be restored when opening the configuration again.
- To enable a download of maps for the GPS map instrument, Port 443 (over https) and URL: maps.omniscale.net must be unblocked in the firewall / network settings.
- Oscilloscope: For analog signals it can happen in case of measure files with irregular sample distribution (i.e. time ranges without samples, i.e. 'gaps') that the position of the connection line across the gaps depends on the zoom level.
For enumerations and signals in Boolean strips the last sample before the gap is defining precisely the position of the connection line across the gap.
- Value axis representation in oscilloscope and scatter plot switches automatically to a scientific representation if the range is larger than 10,000,000 or smaller than 0.001. This can not be configured. Alternatively a calculated signal can be created for which the value is divided or multiplied with a multiple of 10, so that the result is again in a range for which usual (non-scientific) values will be shown.

Import of *.xda file(s), *.xcs file(s) and Calculated Signals:

- Only yt-oscilloscopes, xy-oscilloscopes and tables are imported.
A message in the status bar informs about not imported contents.
- Import of calculated signals from *.xda or *.xcs fails if the configuration contains already a calculated signal with the same name. A message in the status bar informs about not imported calculated signals. Rename the existing calculated signal and retry the import.
- Calculation results might differ slightly from INCA or MDA V7, especially if the calculation requires an initial value. For details see the Appendix of the User Manual.
- When for a calculated signal the formula is imported, and the calculated signal was recorded into a measure file, MDA V8 displays the result of the re-calculation in MDA. The recorded calculated signal can be selected independently from the measure file.
- With V8.5.1 the behavior of calculated signals was changed. Now the result of the calculation additionally depends on whether the input signal has No Value or is in Invalid state. A detailed overview is given in the Appendix of the User Manual.

- Valid samples with value result usually in valid samples with value
- Valid samples without value (No Value) are treated as if they are not present at all, i.e. the result of the calculation is also a valid sample but without value
- Invalid samples (with and without value) represent errors and will be processed, possibly also causing the state of the resulting calculation to go into invalid state
- When layers, instruments and signals are copied via Configuration Manager, also calculated signals are copied and pasted, but only the signal to instrument assignment, and not the calculated signals definition.
- When a calculated signal is imported from an *.xdx configuration file or it is copied from the Calculated Signals docking window and pasted into another configuration, MDA checks whether source and target have exactly one measure file. If so the reference to the original measure file is mapped to the one available measure file. In case there are multiple files defined in the source or available in the target the reference of the input signal(s) remains unchanged, i.e. the pasted calculated signals cannot be used without manual adaptation of the input signal's reference. Additionally when the imported or pasted calculated signal has a reference to another calculated signal, there happens no mapping, and the calculated signal with the same name is used automatically.
- Calculated Signals imported from INCA having a data type defined as UINT32 the imported formula must be adapted. The imported formula needs to be combined using a logical AND with a bitmask: "(Imported Formula) & 0xffffffff". Then the result in MDA corresponds to a UINT32 data type.

User Interface & Operation:

- For some areas keyboard operation is not supported so far, e.g. Variable Explorer, or Video instrument. A complete list of all supported hotkeys is given via CTRL+F1.
- To benefit from the latest improvements in MDA – EHANDBOOK-NAVIGATOR coupling, EHB-NAVIGATOR V8.0 (or higher) is required.
- Snapshot Recording is enabled only for MDA V8.4.1 (or higher) in combination with INCA V7.3.0 (or higher) and MDF V4.x format.
- For some UI elements it might happen that terms are given in English language only. Translation is in progress and enhanced with every new MDA V8 version.

4 **Contact, Support and Problem Reporting**

For details of your local sales office as well as your local technical support team and product hotlines, take a look at the ETAS website:

ETAS subsidiaries	WWW:	www.etas.com/en/contact.php
ETAS technical support	WWW:	www.etas.com/en/hotlines.php