
MDA V8.3.3

Release Notes

Release: July 2019

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1 Introduction

Dear customer, in this file you will find the latest information about our product MDA V8.3

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	M ea s ure D ata A nalysis
MDF	M ea s ure D ata F ormat
PR	P roblem R eport
SP	S ervice P ack
SW	S oftware

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.

1.2.1 Data Categories

When using the ETAS License Manager in combination with user-based licenses, particularly the following personal 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

When using the ZipAndSend functionality for reporting product defects to us the logfiles 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.

1.3 Conventions

The following typographical conventions are used in this document:

Choose **File** → **Open**.

Ribbon entries are shown in boldface.

1.4 User Documentation

MDA V8.3 user's documentation in PDF format along with a brief overview of MDA 8 functionality in the slide set "MDA V8 Functionality Overview" and some short videos are accessible via [Help -> Manuals & Videos](#).

New functionality introduced with MDA V8.3 is presented in the "What's New" slides. These can be found in the installation folder on the PC, or can be called up from MDA 8 via the [Help → What's New](#).

2 Product Definition

2.1 General Description

2.1.1 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® 7 SP1 (64 bit) ¹ WINDOWS® 8 or 8.1 (64 bit) WINDOWS® 10 (64 bit) The support of WINDOWS® 7 is discontinued: INCA and MDA, released after January 14, 2020 will no longer support Windows® 7.
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
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¹ Installation of Microsoft hotfix KB2533626 needed for Windows® 7.

Microsoft announced the end of the Extended Support for Windows 7 by January 14, 2020. Therefore, ETAS will discontinue the development and maintenance of Windows 7 support for INCA and MDA. Versions and service packs of INCA and MDA, released after January 14, 2020, will no longer support Windows 7. For more details see `\Program Files\ETAS\MDA8.x\Documentation\Readme\..`

..\Maintenance Stop MDA Windows 7 EN.PDF

..\Maintenance Stop MDA Windows 7 DE.PDF

Recommended Operating System WINDOWS® 10 (64 bit)

Recommended Free Disk Space >10 GB

Investigation on performance showed

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

2.1.2 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:

- Registry folder and all subfolders:
HKEY_LOCAL_MACHINE\Software\WOW6432Node\ETAS
- TEMP directory used by the program: the TEMP directory is determined during the installation
- Installation directory
- Directory for the program files (e.g. c:\Program Files\ETAS\) and all sub directories.

2.1.3 Delivery

MDA V8.3 is delivered with an installation routine, software documentation, tools, utilities, and further information. Software documentation is available in the Portable Document Format (PDF) in the folder \Readme, which requires Adobe® Reader®.

Together with MDA V8.3 the following components are shipped:

- DirectX V9 or higher
- .Net-Runtime Environment 4.6.2
- ETASSHARED (IPManager only)
- ETAS License Manager (LiMa) V1.7.1
- MCD Core V0.21
- Visual C++ 2010 SP1 (x86,x64)
- Visual C++ 2015 SP2 (x86,x64)
- Visual C++ 2017 Redistributable(x86,x64)

Together with INCA Service Pack the ETAS License Manager (LiMa) is shipped.

All ETAS software products are sharing only one installation of ETAS 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.

Important hint about change of the Grace Mode behavior of ETAS Software products.

This change comes with LiMa V1.7.1, and will affect all ETAS Software Products, providing Grace Mode, namely: ASCET, INCA, INCA-FLOW, INTECRIO, INTECRIO-RLINK, ISOLAR-EVE, MDA, SCODE-CONGRA, SCODE-ANALYZER and their Add-ons.

For more details see `\Program Files\ETAS\MDA8.x\Documentation\Readme\.`

.. *Change of Grace Mode 2019_03_EN.pdf*

.. *Change of Grace Mode 2019_03_DE.pdf*

Note: this change affects MDA V8.3.3 and higher.

The delivery contains the following items:

Directory	Meaning / Explanation
Main folder \ <i>MDA_V8.3_SPn</i>	Installations and documentation of MDA V8.3 SP <i>n</i> and related Software.
- setup.exe	Setup to install / update the included MDA 8 related Software (Refresh, hotfix and related tools) automatically
- WhatsNew.pdf	Contains information regarding new features implemented in MDA V8.3.x
Sub (sub) – Folders	Meaning / Explanation
- Readme	Release Notes of the corresponding installations of the SP and related documentation (e.g. open source software documentation)

2.1.4 Used 3rd Party Software

The 3rd Party Software used by MDA V8.3 is listed in the documentation in the folder *OpenSourceSoftware* of the installer.

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

3 **Known Issues**

3.1 **Known Issue Reports**

If a serious product issue is detected, 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>

3.2 **Known Issues**

This section describes the set of known problems of released version of MDA V8.3.3

3.2.1 **Software Related Items**

Data:

- MDF standard indexing is beneficial for data display, missing index impairs performance
- Scalars only which includes Enumerations, String, Events; No arrays and structs (e.g. maps/curves from calibration recording)
- Not supported conversion types are:
 - signals with nested conversions
 - free form
 - text-to-value
- Time channel physical values must be in seconds
- 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
- The memory usage of accumulate rolling behavior grows with the number of samples in the window. It is possible to use windowStart = 0, however each new sample will increase the memory. Depending on the input signal, this may lead to using significant amounts of memory.
- Enumerations with signed integer implementation data types with non-8bit-aligned length (8bit, 16bit, 32bit, 64bit) are not supported in the oscilloscope (no data shown)
- For MDF3 files the DISPLAY_IDENTIFIER contains the device name

General:

- We experienced problems when waking up from sleep mode while MDA is running. We recommend to save the configuration before going to sleep mode.
With V8.3.3 logging was enhanced for better analysis of sleep mode issues. Please provide log files, when the issue occurs.

Instruments:

- In case there occur problems while creating an oscilloscope, please update your graphic device driver

- Data lines are only drawn between data points being in the visible range; currently appearance might look different compared to MDA V7.x when there are gaps between samples
- 615550, 613179 MDA 8 occasionally improperly rendering data on zoom operation
Detailed description:
IF a configuration file (.xdx) is in use
AND a zoom region on an oscilloscope using right click and drag/drop used
THEN a few isolated cases have resulted in the time axis showing the correct zoom range but the data does not fit to that region.
Note: **Workaround**: save and reopen the configuration.
This behavior is independent from the MDAV8 version used and will be solved with MDA V8.3.4. Our worldwide technical support is at your disposal for further questions and for the creation of extended log files if required.
- Signal data using conversions with effective non-linear parameters are not supported for the oscilloscope
- Synchronization is limited to one mode and one synchronization group
- Table Instrument: if consecutive rows have identical time stamps or time stamps very close to each other (<1ns) the table instrument might show gaps, jumps during scrolling or even crashes. We are working on a solution for December 2019.
- Event List Instrument: when using cascaded calculated signals the calculation might take long time resulting in slow scrolling. We are working on a solution for 8.3.4

Importing *.xda file(s):

- Functional limitations: only yt-oscilloscopes, xy-oscilloscope and table editors can be imported.
- Calculated signals are imported only when calculated signal names does not already exist in the configuration.
- Calculation result might slightly differ from MDA V7, especially if calculation requires an initial value. More information available in *\Program Files\ETAS\MDA8.x\Documentation\Manuals\Calculated signals differences MDA7 and MDA8.pdf*

User Interface:

- Operation by keyboard is provided for most relevant interactions. A complete list of all supported hotkeys are available using CTRL + F1.
- To benefit from the latest improvements in MDA – EHANDBOOK coupling, EHB-NAVIGATOR V7.0 is required.

Installation:

- Installation of component Visual C++ 2017 Redistributable (x64) installation failure Error code 1638
Solution: Manually configure or remove the component Visual C++ 2017 Redistributable (x64) and Install MDA V8.3 again

4 Bug Fixes and Improvements

4.1 Important:

The new ETAS Safety Advice is available with the following additional languages: Belarussian, Russian, Ukrainian, Vietnamese, Thai, Traditional Chinese, Indonesian, and Hindi Note. Please read it carefully.

The ETAS Safety Advice is displayed during start of MDA and is available in `ETAS_Safety_Advice.pdf` in the folder of the installation package (ZIP file) or after installation of MDA in `\Program Files \ETAS \MDA8.x \Documentation \SafetyAdvice`.

4.2 8.3.3

EHI #	Title
594060	MDA8 possibility to hide measure samples over all Signals in Oscilloscope/Config
594609	Mapping of signals does not work properly when exchange measure files in xdx configuration
599782	MDA8_symbol for the synchronisation in the cursor hides the signal at the bottom position
601840	1 x [Ex-ID#2588512238] System.Runtime.InteropServices.COMException: UCEERR_RENDRTHREADFAILURE (Ausnahme von HRESULT: 0x88980406)
602067	Not possible to calculate standart deviation /normal distribution in MDA 8
602530	MDA8 - not possilbe to change order of boolean signals properly
606437	MDA fills device name with dummy value during the generation of measure file if source file has none
604709	MDA8 no possibility to copy paste several Values out of osci in one click
609908	MDA 8.3.1.0/1 - Config corrupted after opening the notebook lid
607519	MDA8 Favourite Axis Range is not working for axis with two or more Signals
610171	MDA8 Time offset decimal precision is not adequate for 100khz signals
610258	Ford Support - MDF4 file won't plot in MDA
610625	Translation of comment titels should be changed with MDA8 language settings
610805	RollingAverage:Accumulate_Sample_Average
610822	MDA8 CalcSig Rolling functions not usable for long term measurement
610848	data are not displayed
610849	Texts seem to be hard coded and are not translated
611214	1 x [Ex-ID:#896563020]
611469	1 x Ex-ID: #4024519078 - System.TimeoutException: Timeout für den Vorgang wurde überschritten.
611604	Periodically fails to load data until Replace measure data file
611870	1 x [Ex-ID: #1724196601] after rename layer

611946	Sign error of delta value in the signaling list after measure file exchange
612098	1 x Ex-ID: #1087939712
612273	MDA8 non switchable mail adress for Zip and send
612422	Not possible to analyse Signale from PEMS -> no issue with MDA 8.3.1/1
612566	MDA8 zip eamil- and send not costumizable
612592	1 x [Ex-ID#3350428517] System.OverflowException: Das Negieren des minimalen Wertes einer Ergänzungszahl ist unzulässig.
612680	Measure file in MDA 8.3.2 not replaceble in xdx configuration - works with MDA 8.3.1
612702	Not possible to analyse in MDA V8.3.2
612981	MDA8_variable mapping with different device name does not work in config, in case the new quick insertion method was used for inserting the signal
613009	Some signals are not visible in MDA 8.3.2 after replace it in xdx configuration -> works with MDA 8.3.1
613054	1 x Ex-ID: #724182975 exception adding measure file
613537	MDA8_axis description for signals with vtab is incomplete
613542	MDA 8 behaves strange editing a calculated signal
613551	1 x [Ex-ID#2649084192] System.ArgumentException: Der Pfad hat ein ungültiges Format.
613639	Ex-ID: #3837826129 - Accumulate_Prefix_Integral() calculated with boolean input signal results in white oscis - Crash of MDA if using Table editor to show calculated signal
613771	Old cursor value is not deleted
613772	Axis configuration is scrambled due to unintended vertical zooming
614953	MDA8_Mapping of Variables does not work
615380	Ex-ID: #2588512238 - System.Runtime.InteropServices.COMException: Ausnahme von HRESULT: 0x88980406
615387	MDA8 - All signals are not being updated when use the Replace functionality
615478	1 x Ex-ID: #554105188 System.OverflowException: Das Negieren des minimalen Wertes einer Ergänzungszahl ist unzulässig.
615969	No signals are shown in OSCI when creating additional configuration during running MDA8 instance
616171	MDA does not show data due to integral
617730	2 x MDA 8.3.2 report Ex-ID: #1922665105 MDA8 crashes when cursor moved beyond 0 sec

4.3 8.3.2/1

EHI #	Title
612422	Not possible to analyse Signale from PEMS -> no issue with MDA 8.3.1/1

612680	Measure file in MDA 8.3.2 not replaceable in xdx configuration - works with MDA 8.3.1
612702	Not possible to analyse in MDA V8.3.2
612981	MDA8_variable mapping with different device name does not work in config, in case the new quick insertion method was used for inserting the signal
613009	Some signals are not visible in MDA 8.3.2 after replace it in xdx configuration -> works with MDA 8.3.1

Note: MDA V8.3.2/1 (SP2.1) replaces MDA V8.3.2 and fixes the defects listed above. The fix for EHI #594609 had to be reverted and does not appear anymore below in section for 8.3.2. There are no further functional changes compared to MDA V8.3.2.

4.4 8.3.2

EHI #	Title
594609	Mapping of signals does not work properly when exchange measure files in xdx configuration
599873	User can not navigate/select any signals in the tool (e.g. OSCI) with keyboards UP/DOWN arrows
601703	No signal visible in Osci
602389	Multiselection of variables in MDA8 doesn't work with different filters
603796	1 x [Ex-ID: #767322566] System.ArgumentOutOfRangeException: Der Index muss sich innerhalb der Listenbegrenzung befinden.
604254	XDA-File MDA 7.2 cannot be used in MDA8.3
604817	MDA 8.3 display VTAB variable value incomplete in oscilloscope
605051	MDA crashes on attempt to connect to EHANDBOOK, if previously used drive is not available
605223	1 x [Ex-ID: #1478391278] InvalidOperationException at undocking of layer (after sleep mode / power mode changed)
605283	MDA 8.3 report Ex-ID: #4066757290
605453	1 x MDA 8.3 report Ex-ID: #610223669 NullReferenceException at ReplaceMeasureFile
605542	Signal representation issue for COMPU_VTAB_RANGE formula & impl. value float
605685	1x Ex-ID: #1478391278
605753	Comma in the file name not accepted
606128	MDA 8.3.1 - Axis values are not set properly for decimal values if no leading number is present
606511	1 x Ex-ID: #3171962098 - System.NullReferenceException: Der Objektverweis wurde nicht auf eine Objektinstanz festgelegt.
606578	MDA V8.3.0 xdx config file cannot be opened in version V8.3.1
606602	XDX configuration can not be open

606783	1 x [Ex-ID#2704366919] System.ArgumentException: Invalid height weight: - 0.0325225165889504
606841	Accumulate_Prefix_Integral does not work if input is a calculated signal
606872	Axes options are lost for enumerations (verbal) values when replacing the measure file
606877	Requirement for MDA 8 to set the max and min values of the time slider to fix on customer request
606923	seperate strip in oscilloscope gets small if cursor is shown and value width for verbal signals to small
606947	Symbol for label are shown even though curve signal is hidden
606957	1 x [Ex-ID: #2062870160] System.ArgumentException: Das Gerät des Hintergrundpuffers ist ungültig.
607147	MDA8 Slow scrolling down in Oszi legend with scrollbar
607148	MDA8 ctrl + f is not highlighting Signal
607284	1 x Ex-ID: #2297018468 System.ArgumentException: Ein Element mit dem gleichen Schlüssel wurde bereits hinzugefügt.
607311	1 x [Ex-ID:#1360244609] Etas.CoreApi.RemoteException.RemoteExceptionBase:
607349	MDA8.3.1 Exception Could not load file "d:xxx" ~no exception id available
607654	1 x [Ex-ID:#3491127587] System.InvalidOperationException: Die Sammlung wurde geändert. Der Enumerationsvorgang kann möglicherweise nicht ausgeführt werden.
607656	1 x [Ex-ID:#1709372568] Ice.ConnectionRefusedException:
607679	MDA 8.3.1 does not start
607906	MDA8 Could not open file with long file name
608022	Ex-ID: #472760355 - System.ArgumentOutOfRangeException: The Display index for the DataGridViewColumn with the Header "System.Windows.Controls.DockPanel" is outside the valid range
608083	Toolchip on Time Slider did not work
608223	MDA8 Copy content from the variable information window
608846	1 x [Ex-ID#1520973990] System.IO.InvalidDataException: Reference View is incorrect. One of the Central Signal Representation component consumers has inconsistent Reference View.
608911	1 x [Ex-ID:#3651029004] System.NullReferenceException: Der Objektverweis wurde nicht auf eine Objektinstanz festgelegt.
608939	1x Ex-ID: #2418926210 - System.NullReferenceException: Object reference not set to an instance of an object
609125	Unable to open xdx created in MDA 8.3.0 with MDA 8.3.1 or newer
609205	Copy variables to another config-> variable is inactiv
609346	1 x [Ex-ID226535535] System.TimeoutException: The operation has timed out.
609462	1 x [Ex-ID3524217021] 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

609629	1x [Ex-ID: #1374108060]
609643	1 x [Ex-ID#264127837] System.NullReferenceException: La référence d'objet n'est pas définie à une instance d'un objet.
609746	1 x [Ex-ID#2369338076] 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 c
610080	1 x [Ex-ID#1846493009] System.Runtime.InteropServices.COMException: {Die Desktopkomposition ist deaktiviert.} Der Vorgang konnte nicht abgeschlossen werden, da die Desktopkomposition deaktiviert ist. (Ausnahme von HRESULT: 0x80263001)
610144	MDA 8.3.1 report Ex-ID: #264127837
610160	1 x [Ex-ID: #1954146340] Ice.ConnectionRefusedException: Data: System.Object = null
610616	1 x [Ex-ID: #1846493009]
611194	1 x [Ex-ID#2150506837] System.InvalidOperationException: Create and return NullDrawingContext

4.5 8.3.1/1

EHI #	Title
606578	MDA V8.3.0 xdx config file cannot be opened in version V8.3.1
606602	XDX configuration can not be open

Note: MDA V8.3.1/1 (SP1.1) replaces MDA V8.3.1. With Service Pack 1.1 a problem during importing of xdx configurations created with an older MDA V8 installation is solved. There are no further functional changes compared to MDA V8.3.1.

4.6 8.3.1

EHI #	Title
598128	Exception could not retrieve the parent window
598725	Ex-ID: #1851939632: DnD to WordPad leads to COM component error HRESULT E_FAIL
598823	MDA 8.2.3 Exception - A drag operation is already in progress
599340	Error during replacing a measurement file
599644	MDA 8.2 report
599735	When changing the name of an existing oscilloscope (with a set of 4 displayed signals) MDA suddenly crashed
599779	MDA8_crash when signal is moved via drag and drop to other axis
600020	Not_reproducible_Report: Exception There must be only one writable view!

600064	ThreadId: 57 Exception Object reference not set to an instance of an object.
600080	Exception "There must be only one writable view"
600081	Not_reproducible_Report
600273	MDA 8.2 report: Exception Object reference not set to an instance of an object.
600277	Being able to use cursors in non-anchored mode, while being synchronized between several instruments
600399	Not_reproducible_report
600488	Exception: An item with the same key has already been added.
600593	MDA 8.2.3 Exception - Invalid height weight: -0.336992454639513
600654	MDA8 calculated signal with Accumulate_Rolling_Integral issue
600725	ThreadId: 04 Exception Could not load file xxx
600726	Exception at GetSignalHandlesForPersistableSignals
601083	MDA8.2: Ice.ConnectionRefusedException at StartupAction
601109	1 x Ex-ID: #3966804286 System.ArgumentOutOfRangeException: The DisplayIndex for the DataGridViewColumn with Header " is out of range.
601293	1 x Ex-ID: #49544493 System.NullReferenceException: Der Objektverweis wurde nicht auf eine Objektinstanz festgelegt.
601473	MDA8_Signal in Oscilloscope displayed with sample points and no sample connection
601482	MDA 8.2 report
601594	MDA 8.1 report
601901	Collection was modified; enumeration operation may not execute.
601925	[Ex-ID: #1721639868] Exception "could not retrieve the parent window." at WorkspaceDockingManagerOnToolWindowCreated
602382	MDA8 - Unit is missing by calculated signals
602736	1 x [Ex-ID: #3001418615] - System.ArgumentOutOfRangeException: Der DisplayIndex für die DataGridViewColumn mit dem Header "" ist außerhalb des gültigen Bereichs. DisplayIndex muss größer oder gleich 0 und kleiner als Columns.Count sein.
602792	1 x [Ex-ID: #4066757290] System.Net.Sockets.SocketException: No connection could be made because the target machine actively refused it
602830	Axes settings is not saved in MDA config
603268	1 x Ex-ID: #4261055266
603445	1 x Ex-ID: #3828626604
603555	MDA shows data wrongly in Bit-area
603813	1 x Ex-ID: #3966804286 - System.ArgumentOutOfRangeException: Der DisplayIndex für die DataGridViewColumn mit dem Header "" ist außerhalb des gültigen Bereichs. DisplayIndex muss größer oder gleich 0 und kleiner als Columns.Count sein.
603954	3 x Ex-ID: #49544493 - System.NullReferenceException: Object reference not set to an instance of an object.

603997	1 x Ex-ID: #49544493
604220	1 x [Ex-ID: #1061518249] System.Collections.Generic.KeyNotFoundException: The given key was not present in the dictionary
604466	1 x [Ex-ID: #4130890731] System.ArgumentException: Das Gerät des Hintergrundpuffers ist ungültig.
604547	Ex-ID: #3853502026 - Replace measure file leads to Etas.CoreApi.RemoteException.RemoteFileAccessException: Measure File was not loaded.
604858	MDA 8.3 reports to be unable to import customer's XDA file
605044	1 x [Ex-ID#1844742870]
605219	False Signal representation for COMPU_VTAB_RANGE formula

4.7

8.3.0

EHI #	Title
549776	Stability issues with Matlab Easy-to-Use Interface
590730	MDA8.2.1 Crash after adding some signals to oszi
594947	MDA reports about crash - lost contact to server?
595166	MDA 8.2.3 does not show signal sequence
595714	MDA 8.2.3 Exception - Index must be within the bounds of the List
596121	MDA 8.2.3 Exception - A call caused an exception error
596163	Inner Exception: Eine vorhandene Verbindung wurde vom Remotehost geschlossen bei IceInternal.StreamSocket.finishRead(Buffer buf)
596248	MDA8 crash: ThreadId: 16 Exception Der Objektverweis wurde nicht auf eine Objektinstanz festgelegt.
596251	MDA 8.2.3 Exception - The defined types in the assembly 'Etas.Mda.CalculatedSignalsExtension, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null'
596421	Crash when attempting to drag oscilloscope into another layer (The object reference was not set to an object instance)
596971	MDA 8 Info Center is not working in other configurations
597006	MDA8_working in oscilloscope leads to oscilloscope not visible (except of the legend)
597316	ThreadId: 82 - Exception - Das Gerät des Hintergrundpuffers ist ungültig.
597461	MDA V8.2.3 is unable to open modified mf4-files
597547	MDA V8.2.3 Osci is partially unable to display filled digital signal if more optional colors are selected
597819	MDA 8.2.3 Exception - The sequence contains no elements
597917	61 Exception - Object reference not set to an instance of an object

598006	MDA 8.2.3 Exception - Could not load file The device of the background buffer is invalid
598084	MDA 8.2.3 Exception - The value must not be NULL
598368	MDA 8.2.3 Exception - Create and return NullDrawingContext
598471	MDA8 lost connection to EHB when a messfile changed
598977	ThreadId: 41 Exception - Das Gerät des Hintergrundpuffers ist ungültig.
599091	MDA 8.2.3 Exception - Object reference not set to an instance of an object
599328	Not able to assign measurement file in the attached configuration (XDX/MF4)
599440	MDA 8.2.3 Exception - Could not load file

5 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