Release Notes

ETK Tools V4.5.0

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Table of Contents

1. Introduction

Dear Customer, in this file you will find the latest information about our product ETK Tools 5.x

IT IS NECESSARY TO UPDATE ALL FIRMWARE USING HSP 10.4 PRIOR TO USING ETK TOOLS V4.x WITH ETK / XETK HARDWARE

(Note: With a latest hotfix a higher HSP version must be used)

1.1. Definitions and Abbreviations

Term/Abbreviation	Definition
ECU	**Engine Control Unit**
EHI	**E**TAS **H**elp Desk **I**nternational
ETK	Emulation probe (**E**mulation **T**ast**k**opf)
HF	**H**ot**f**ix
HSP	**Ha**rdware **S**ervice **P**ack
HW	**H**ard**w**are
KIR	**K**nown **I**ssue **R**eport – 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
ML_ECU	**M**ultiple **L**ogical **ECU**
OHI	**O**pen **H**ardware **I**ntegration
PR	**P**roblem **R**eport
SP	**S**ervice **P**ack
SW	**S**oft**w**are

1.2. References

none

1.3. Conventions

The following typographical conventions are used in this document:

Choose **File → Open**.	Menu commands are shown in boldface.
Click **OK**.	Buttons are shown in boldface.
Press <ENTER>.	Keyboard commands are shown in angled brackets.

The "Open File" dialog box is displayed.	Names of program windows, dialog boxes, fields, etc. are shown in quotation marks.
Select the file setup.exe	Text in drop-down lists on the screen, program code, as well as path- and file names are shown in the Courier font.

1.4. User Documentation

The *ETK Tools* user's documentation in PDF format can be found in the installation folder on the PC. It can be called up from the Windows start menu: → **Program** → **ETAS**→ **ETK Tools** → **ETK Tools Manuals**

2. Product Definition

2.1. Functions at a glance

The XCT Configuration Tool is used to configure the ETK / XETK / FETK hardware to the requirements of the project. In addition, this tool can be used to read the configuration from the ETK / XETK / FETK hardware.

An interoperability matrix showing which ETK / XETK / FETK hardware is supported by which ETAS software can be viewed on the ETAS web page:

http://www.etas.com/en/products/etk_xetk_ecu_interfaces-etk_drivers_tools_compatibility_list.php

2.2. General Description

2.2.1. System Prerequisites

The following minimum system prerequisites have to be met:

Required Hardware	1,0 GHz PC 1 GB RAM DVD-ROM drive Network adapter Graphics with a resolution of at least 1024 x 768, 32 MB RAM
Required Operating System	Windows® 8 (64 bit), Windows® 10 (64 bit)
Required Free Disk Space	500 MB (not including the size for application data)

The following system prerequisites are recommended:

Required Hardware	2,0 GHz Dual-Core PC or equivalent

	2 GB RAM DVD-ROM drive Network adapter Graphics with a resolution of 1280 x 1024, 128 MB RAM
Required Operating System	Windows® 8 (64 bit), Windows® 10 (64 bit)
Required Free Disk Space	>2,0 GB

2.2.2. Software Prerequisites

Important notes:
In order to use ETK Tools the user needs read and write access to the registry path HKEY_LOCAL_MACHINE\Software\ETAS.

2.2.3. Release Test Configuration

none

2.2.4. Restrictions

The following operating systems are not supported:

- Windows® 95
- Windows® NT
- Windows® 98SE
- Windows® 2000
- Windows® XP
- Windows® Vista
- Windows® 7

2.3. Delivery

The ETK Tools can be downloaded from the ETAS Download Center:
http://www.etas.com/en/products/download_center.php

2.3.1. Used 3rd Party Software

The 3rd Party Software used by ETK Tools is listed in the document:
Open_Source_Software_in_ETK_Tools.pdf (in folder \Manuals\OpenSourceSoftware)

2.4. Installation

To install double click setup.exe of the downloaded installation package and follow the on screen instructions.

2.4.1. Installation Hints

This installation sets up the xETK Configuration Tool (XCT). After the installation a reboot might be necessary.
After installation, the first start of the xETK Configuration Tool (XCT) must be done with administator privileges.

2.5. Licensing

ETK Tools is not protected via electronic licensing.

3. Changes

This chapter describes changes with respect to previous versions of *ETK Tools*

3.1. What's New

New with ETK Tools 4.5.0

- Support of the following micro controllers
  - SR6P3E_A (FETK-T4.0B and BR_XETK-S4.0B)
  - SR6P3_A (FETK-T4.0B)
  - TC46xED_A (BR_XETK-S3.0C)
  - TC48xED_A (BR_XETK-S3.0C and FETK-T1.1C)
- Edit and merge back an A2L file without losing measurements & characteristics.

New with ETK Tools 4.4.7

- Support of the following micro controllers
  - TC39x_A (PD) (FETK-S1.1B)
  - TC4DxED_A (BR_XETK-S3.0C)
  - TC49xNED_A (BR_XETK-S3.0C)
- FETK-T1.1C (TC4xx controller family)
- Explicit Timer Trigger ID configuration in the Raster Editor for ML_ECU devices

New with ETK Tools 4.4.6

- Multiple logical ECU XETK
  - XETK-S16.0D-M for NXP S32 (G2, G3, K3 and NZ5)

New with ETK Tools 4.4.5

- Support of the following micro controllers:
    - TC39x_PD (XETK and FETK)
    - TC49x-N and TC49xNED (XETK)
    - SR6P3 (XETK)
- A2L export for standard XCP: Set MAX_DAQ_LIST in EVENT according to the ETK properties
- Display a warning when downloading a dynamic configuration to a device
- Menu item for opening the ETAS Network Settings dialog
- Menu item for opening the IP Address of a selected FETK in the standard browser
- Menu item for opening the log files location in a file explorer
- Menu item for changing the tool language
- User option to enable/disable logging of unknown configuration parameters when importing an A2L file or loading a configuration from a device
- Remove XETK-T2.1/2.2
- Remove obsolete GUI tab "Memory Layout Display"

New with ETK Tools 4.4.4

- Overwrite the Dynamic DISTAB configuration of the device (force the configuration via the XCT)
- Display undefined configuration parameters in the application log upon A2L file import

New with ETK Tools 4.4.3

- No new Features in this 4.4.3

New with ETK Tools 4.4.2

- Support Infineon TC3Ex production device with BR_XETK-S3.0A , XETK-S20/S30 and FETK-S1.1B
- Support Infineon TC4Dx_B production device with BR_XETK-S3.0C
- XCT shows unknown config features in the application log window when import an A2L File or uploading from a device.
- Support of multiple DISTAB 17 areas (FETK-T4.0B)

New with ETK Tools 4.4.1

- XCT supports Advanced Code Check: Editor and A2L file generator
- XCT Distab Editor layout has changed to be able to support several Distab 17 config and output areas in the future.

New with ETK Tools 4.4.0

- Removed the ETK Configuration Tool from ETK Tools
- The CPU types for the FETK-T5 are more generic.
- Support of the memory segment type NOT_IN_ECU

- Support of OLDA memory regions for TC26xED_A, TC27xED_B, TC29xED_A, TC37xED_B and TC39xED_B
- Support of the configuration parameter “Combined ECU Variable Access Size” for FETK-S1.1x and FETK-T1.1x

New with ETK Tools 4.3.7

- Support of the logger configuration for BR-XETK-S3.x
- Improved FETK-T5.0 trigger polling rate configuration
- Support NXP S32E278 with FETK-T5.0
- Support XcpChecksumAlgorithm (ADD44 & CRC32) in XCP A2L File export for BR-XETK-S3.x and all FETKs

New with ETK Tools 4.3.6

- Support ST Stellar SR6P7 with BR_XETK-S4.0B and FETK-T4.0B
- Support Infineon TC4Dx with BR_XETK-S3.0C

New with ETK Tools 4.3.5

- Support ST Stellar SR6P6 with BR_XETK-S4.0B
- Remove BR-XETK-S4.0A
- Make raster, memory segment and trace windows tables sortable
- Replace context menus with real menus
- XCT displays download issues in the error/warning window
- Automatic configuration of DISTAB17 memory distribution and calibration handle distribution in the GUI for XCP usage
- Display specific events in XCP, in the log window for debugging purpose

New with ETK Tools 4.3.4

- Release FETK-T5.0 (supports the controllers S32Z and S232G from NXP)
- Fix Plausibility Check: Multiple Rasters with same Priority only count for one Acquisition Channel
- GUI improvement: select multiple lines in tables
- XCT console support reading monitor variables

New with ETK Tools 4.3.3

- Configuration Parameter “Reset Amount Until Watchdog Reactivation” for all FETKs
- Support of retrieving A2L information via the ECU Info Mailbox (XCP GET_ID 1, 2, and 5)
- A2L file creation via the XCTConsole
- Support of the Transfer Mode (0) for XCP GET_ID responses

New with ETK Tools 4.3.2

- Add a text filter to the controller selection to ease the controller selection
- Give a hint if no full emulation is possible in case of the automatic emulation handle assignment for the use with 3rd part XCP masters
- Release BR_XETK-S4.0B (supports the controller SR6x7 from STMicroelectronics)
- Release BR_XETK-S3.0C (supports the controller TC49x from Infineon)

New with ETK Tools 4.3.1

- **FETK Monitor Variables**: Remove some deprecated Monitor Variables for some FETK-Ts
- **XETK Monitor variables**: Add some new Monitor Variable to some XETKs and BR-XETKs
- **DISTAB 17 FETK:** Support of DISTAB 17 memory distribution by the FETK itself, no fixed raster configuration with XCT needed
- **XCT Console:** New method to convert a loaded project to a fixed project, like the project config file
- **XCT**: Improved device and controller selection for new projects, possible to select controller first

New with ETK Tools 4.3.0

- **FETK Support**: Support of FETK-T4.0B (SR6x7) Trace measurement support
- **Micro Controller Support**: Removed support of TC27xED_A

New with ETK Tools 4.2.7

- **Micro Controller Support**: Support of the SR6x7 micro controller
- **FETK Support**: Support of FETK-T4.0B (preliminary no TRACE measurement supported)
- **UI Appearance**: Startup und About dialogs adapted

New with ETK Tools 4.2.6

- **Micro Controller Support**: Preliminary support of the SR6x7 micro controller
- **Memory Segment Configuration**: Support of memory segments of type SERAM
- **Device Configuration**: Creation of an XCP device configuration offline (i.e. w/o connected device)

New with ETK Tools 4.2.5

- **Standard Python Library**: The standard Python library is available for XCT Console scripts.
- **New Logging Windows**: Next to the (now text editor based) application log window the XCT provides an error/warning window showing *active* configuration issues to the user.

New with ETK Tools 4.2.4

- **XCP A2L File Creation**: The protocols (TCP or UDP) can be enabled or disabled for an XCP based A2L file export.

- **XCP Flashing Configuration Validation**: The files contained in an XCP flash configuration get verified according to the contained version information
- **Various UI improvements**: TRACE window configuration, DAQ Overload Policy configuration, distribution of DISTAB 17 memory among rasters.

New with ETK Tools 4.2.3

- **XCT/INCA: Support of TC37xxX_PD and TC39xxX_PD**: with XETK-S20.x, XETK-S30, BR_XETK-S1, BR_XETK-S3, FETK-S1.1B. These controllers are similar to the corresponding ED chips, but without support for Trace measurement.
- **INCA Raster Check**: INCA does not reject XETK projects with an unknown combination of configuration parameters, but assumes the slowest possible interface speed for the corresponding device. INCA displays a proper message in the Monitor Window.

New with ETK Tools V4.2.2

- **INCA**: **Monitor variable handling improvement**: Only monitor variables of connected or selected device can be used in the variable selection dialog
- **INCA**: **Advanced code check improvement**: Open Memory Page Manger after clicking Continue
- **XCT**: Support of ReconfigurableSizeMoveableEmuRAM for fixed size calibration handles, needed for 3rd party XCP master use case
- **XCT**: **Forward compatibility**: From now on the XCT accepts XCT projects of a higher version
- **XCT**: Improved device and controller selection for new projects
- **XCT**: Ignore not known memory segments

New with ETK Tools V4.2.1

- BR-XETK-S3: support of “no trigger polling”
- XETK-S20/S30, BR-XETK-S1/S3: delete not supported configuration combinations
- BR-XETK-S4: delete not supported XCP flashing
- XCT use the actual IP address of a connected device for A2L file generation
- FETK-T: support of the config feature for FETK power down mode
- Support of Calibration wakeup via GUI and script:
  - A2L file generation and import
  - Wakeup ECU
- Configuration of the XETK IP address via script
- ETK reboot via script
- Support of automatic overlay layout configuration
- Read hardware states via script (ECU reset state, trace interface state, etc.)

New with ETK Tools V4.2.0

- **Software Component Check**: Checks whether the A2L file matches to several software components running on one ECU
- **Support of TC33xPD**: Support of the TC33x production device (INCA, XCT and ECU Flashing)
- **XETK-S20/S30, BR_XETK-S1/S3**: Removed not allowed trigger polling rate
- **BR_XETK-S3**: support of “no trigger polling”, improved the data rate for trace measurement

3.2. Compatibility to Earlier Releases

In general compatibility to other ETK / XETK Configuration Tools has been considered. Newly introduced configuration features cannot be used by former ETK / XETK / FETK Configuration Tools.

If necessary, the installation asks to uninstall older version of ETK Drivers & Tools or ETK Tools.

3.3. Fixed Problems

This section describes the set of fixed problems of the released versions of *ETK Tools*.

Problems solved with ETK Tools 4.5.0

None

Problems solved with ETK Tools 4.4.7

None

Problems solved with ETK Tools 4.4.6

Problem Number	Title
791945	Error by reading a2l file at XCT
795586	[XCT: XETK-S22] Invalid OMD CID when importing A2l file w/o calibration

Problems solved with ETK Tools 4.4.5

Problem Number	Title
784905	XCT shows not clearly error message what is the issue with trace windows after importing A2L file
784389	XCT is generating wrong A2L for INCA because entry for ECU_ID is missing for trace trigger with supplementary Distab
758017	Page Switch Method Version = Not Used not being set in cfg
790188	XETK HW Init using an undefined HW trigger
784980	In XCT customer is not able to delete a calibration handle from his config

Problems solved with ETK Tools 4.4.4

Problem Number	Title
776496	XETK-S21 configured via XCT Tool PIN is activated (configured via INCA PIN ok)

Problems solved with ETK Tools 4.4.3

Problem Number	Title
768789	[XCT/XETK-S16] Not possible to setup ReconfigurableSizeMoveable emulation for S32N
771565	XCT : Overlapping will be shown with not existing memory segments with calibration handles due to issue cashed/non-cached handling

Problems solved with ETK Tools 4.4.2

Problem Number	Title
766651	XCT converts wrong calibration handle when fixed configuration is used after DISTAB XCP or convertion to XCP over edit button

Problems solved with ETK Tools 4.4.1 HF

769094	FETK-T4.0B with SR6P7 µC (Bosch MD1_CS204) : Implausible trace-based measured values

Problems solved with ETK Tools 4.4.1

Problem Number	Title
760015	Unable to delete last row of Distab17 Performance Limitations
760000	Distab17 ECU_PROPERTY -> CORE_PERFORMANCE not working for core 0

Problems solved with ETK Tools 4.3.7

Problem Number	Title
740465	Raster check file for FETK-T5/S32G254A_Rev1 wrong, which may lead to unexpected behavior of the variable selection dialog
734786	XCT Tool API reads the wrong IP address from BR_XETK-S3: wrong and unnecessary Tooltip removed

Problems solved with ETK Tools 4.3.6

Problem Number	Title
732233	Convert project to fixed configuration doesn't work
726993	Warning: The config features of the raster check didn't match
733231	XETK IP is displaying two different addresses
734786	XCT Tool API reads the wrong IP address from BR_XETK-S3

Problems solved with ETK Tools 4.3.5

Problem Number	Title
722533	Default and Plausi check of memeory segments & calibration handles not correct/not sufficient
722986	XCT 4.3.4 Download and Upload config with ETK-S20
720264	When in INCA in HWC is no DaqOverloadPolicy value set then the default from FETK-S is STOP

Problems solved with ETK Tools 4.3.4

Problem Number	Title
708170	The color of raster (Acquisition Control, Trigger Source, ...) was red, even if the configuration is valid.

Problems solved with ETK Tools 4.3.3

Problem Number	Title
702229	XETK-S30.0C XCT tool XCP-configurations exports of the a2l and xct files are inconsistent to each other
701108	XCT Tool : Text for type in editor for memory layout is RESEVED instead of RESERVED

Problems solved with ETK Tools 4.3.2

None

Problems solved with ETK Tools 4.3.1

Problem Number	Title
678767	XCT: Timer raster configuration failed in case the name has a following space
682537	Python XCT.SearchForHardware() does not update devices if one has already been found
682862	XCT Crash during repeated Search for Hardware
684269	CalWakeup API Call needs always 2s or more to return

Problems solved with ETK Tools 4.3.0

Problem Number	Title
675376	XCT crash during parallel INCA usage and error logging

Problems solved with ETK Tools 4.2.7 Build 96

Problem Number	Title
674849	automatic generation of XCT file leads to wrong configured emulation handles
674950	calculated overlay configuration contains unnecessary handles, other are missing instead

Problems solved with ETK Tools 4.2.7

Problem Number	Title
672437	Configuration of OMD maximum length > 0 of BR-XETK-S3 fails

Problems solved with ETK Tools 4.2.6

Problem Number	Title
669388	Cannot get a connection to BR_XETKS3 if the UDP connection was 2 times interrupted due to a ethernet card issue

Problems solved with ETK Tools 4.2.5

Problem Number	Title
648717	XCT: The "Automatic DISTAB Configuration" button does not consider TRACE rasters with Supplementary Distab
652376	Calibration Methode "Fixed Size" not available with latest XCT version

Problems solved with ETK Tools 4.2.4

Problem Number	Title
615908	[XETK-S21]: XCT download of default memory segment fails
648717	XCT: The "Automatic DISTAB Configuration" button does not consider TRACE rasters with Supplementary Distab
653506	Calibration Handles are wrong (not aligned with 2^n)

Problems solved with ETK Tools 4.2.3

Problem Number	Title
637576	Error to delete ProF after flashing - INCA V7.2.16 and FETK-S1.1B for TC387PD
642381	INCA-XETK-S20 Out of Memory Error not propagating to user
620074	INCA crash at a2l assignment to ETK in case if UTF8 support is active in Windows Settings

Problems solved with ETK Tools 4.2.2

Problem Number	Title
636455	FETK not visible any more after download via XCT (overlapping physical addresses are no longer allowed)

Problems solved with ETK Tools 4.2.0

Problem Number	Title
622847	XCT: Hex editor window does not update values after ECU Reset.
625368	"EXCLUDE_FROM_FLASH" doesn't work for BR-XETK-projects

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 the set of known problems of the released version of *ETK Tools.*

3.5.1. Software related Items

Problem Number	Title
N/A	N/A

3.5.2. Hardware related Items

Problem Number	Title
N/A	N/A

4. Hints

none

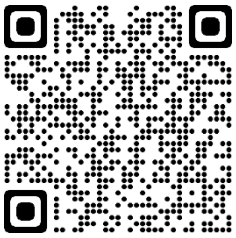
5. Hotfix Information

none

6. Contact Information

6.1. Technical Support

For details of your local sales office as well as your local technical support team and product hotlines, take a look at the website: www.etas.com/hotlines



6.2. ETAS Headquarters

ETAS GmbH

Borsigstraße 24	Phone:	+49 711 3423-0
70469 Stuttgart	Fax:	+49 711 3423-2106
Germany	Internet:	www.etas.com