
ETK Drivers & Tools

Release Notes

2009-06-30

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1 About this ETK Drivers & Tools version

1.1 Type of version

This version contains a complete product installation.

1.2 Scope of application

With this version user of all ETAS ETK hardware are addressed.

For a list of new functions contained see chapter 4.1 and for a list of corrections see chapter 4.3 for the driver part.

For a list of new functions contained see chapter 5.1 and for a list of corrections see chapter 5.3 for the ETK Configuration Tool part.

For a list of new functions contained see chapter 6.1 and for a list of corrections see chapter 6.3 for the XETK Configuration Tool part.

2 Product Definition

The ETK Drivers & Tools product enables easy update of the ETK drivers and configuration tools installed on the PC.

The ETK Drivers & Tools installation updates the ETK drivers for supported INCA versions and installs or overwrites a configuration tool version for the ETK and XETK products.

2.1 System Prerequisites

The minimum system requirements for the target SW has to fulfilled, e.g. for INCA V6.2 following minimum system prerequisites has to be met:

- Required hardware 1 GHz Pentium
 DVD Drive
 Ethernet connection
 1 GByte RAM
- Required operating system Windows 2000 (SP4)
 or Windows XP (SP3)
 or VISTA (SP1)
- Free disk space 250 MB

3 Supported ETK Hardware Products

This table shows the possible combinations of ETK Drivers & Tools, INCA and HSP versions required for use of an ETK product.

Product	INCA V6.1.0 HSP V6.1.x	INCA V6.2.0 HSP V7.0.x	INCA V6.2.1 HSP V7.1.x	INCA V6.2.1 HSP V8.0.x	Remarks
ETK-3.1*	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-7.0*	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-7.1	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-8.0*	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-8.1*	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-8.2	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-10.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-11.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-P1.0*	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-P1.1	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-P2.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-P3.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-P4.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-P5.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-P6.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-P7.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-P8.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-P8.1	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-P9.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-P20.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-T1.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-T1.1	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-T2.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-T2.1	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-V1.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-S1.0A*	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-S1.0B*	ETK D&T	ETK D&T	ETK D&T	ETK D&T	

Product	INCA V6.1.0 HSP V6.1.x	INCA V6.2.0 HSP V7.0.x	INCA V6.2.1 HSP V7.1.x	INCA V6.2.1 HSP V8.0.x	Remarks
	V1.1.0 – V1.1.4	V2.0.0	V2.1.0	V2.1.0	
ETK-S1.0D*	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-S1.1B	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-S1.1C	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-S1.1D	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-S2.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-S3.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-S4.1	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-S4.2	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-S5.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-S5.1	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
ETK-S6.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
μETK-1.0*	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
μETK-2.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
μETK-3.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
μETK-P1.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
XETK-V1.0	ETK D&T V1.1.0 – V1.1.4	ETK D&T V2.0.0	ETK D&T V2.1.0	ETK D&T V2.1.0	
XETK-T2.1	Not supported	Not supported	ETK D&T V2.1.1	ETK D&T V2.1.1	The XETK-T2.0 is replaced by the XETK-T2.1
XETK-S7.0	Not supported	Not supported	Not supported	ETK D&T V2.1.3	

table 1: Compatibility and supported products

Notes:

* The hardware of this ETK is not maintained by ETAS any more but its function is supported in the listed products.

ETK D&T is the abbreviation for ETK Drivers & Tools.

4 (X)ETK Drivers

4.1 New or Enhanced Functions

4.1.1 New or Enhanced Functions in the 2.1.x versions

4.1.1.1 Enhancements and new functions in ETK Drivers & Tools V2.1.3

Product	Description
All	This version includes all corrections and features shipped with ETK D&T V2.1.3
ETK-S6.0	Support of new micro controller SH72543R

4.1.1.2 Enhancements and new functions in ETK Drivers & Tools V2.1.2

Product	Description
All	This version includes all corrections and features shipped with ETK D&T V2.1.1
ETK-S6.0	Support of new micro controller SH72531RFCC, SH72531F, SH72531FCC

4.1.1.3 Enhancements and new functions in ETK Drivers & Tools V2.1.1

Product	Description
All	This version includes all corrections and features shipped with ETK D&T V2.1.0
XETK-T2.0	NOT supported as of this version
XETK-T2.1	New product, replaces the XETK-T2.0

4.1.1.4 Enhancements and new functions in ETK Drivers & Tools V2.1.0

Product	Description
All	This version includes all corrections and features shipped with ETK D&T V2.0.0
ETK-S4.2	Support of new micro controller TC1767, TC1797, TC1736ED
ETK-T2.1	Support of new micro controller TC1797
XETK-T2.0	New product
ETK-S6.x	Support of new micro controller SH72544R

4.1.2 New or Enhanced Functions in the 2.0.x versions

4.1.2.1 Enhancements and new functions in ETK Drivers & Tools V2.0.0

Product	Description
All	This version includes all corrections and features shipped with ETK D&T V1.1.4
ETK-S1.1B	Support of new micro controller M32186F

4.1.3 New or Enhanced Functions in the 1.1.x versions

4.1.3.1 Enhancements and new functions in ETK Drivers & Tools V1.1.4

No enhancements made for this version.

4.1.3.2 Enhancements and new functions in ETK Drivers & Tools V1.1.3

Product	Description
XETK-V1.0	Support of new micro controller MPC5565, MPC5566 and MPC5567

4.1.3.3 Enhancements and new functions in ETK Drivers & Tools V1.1.2

Product	Description
ETK-S4.2	Support of new micro controller INFINEON TC1797ED. Support following new feature with INFINEON TC1767ED and TC1797ED: - Protocol based page switching using OCON.
ETK-T2.1	New ETK hardware, successor of ETK-T2.0, support following new features: - μ C support INFINEON TC1792 / TC1796 / TC1796ED / TC1797 / TC1797ED - Advanced code check, NOTE: requires AML IF_DATA ETK_XETK V1.1

4.1.3.4 Enhancements and new functions in ETK Drivers & Tools V1.1.1

Product	Description
ETK-S4.2	Support of new micro controller INFINEON TC1767ED
ETK-S6.0	Support of new micro controller RENESAS SH72546RFCC

4.1.3.5 Enhancements and new functions in ETK Drivers & Tools V1.1.0

Product	Description
INCA V6.1	This is the first version of the ETK Drivers & Tools product.
ETK-S4.2	new ETK hardware, successor of ETK-S4.1, supports following new features: - μ C support TC1767 /ED, TC1766 /ED, TC1796 /ED - "Advanced code check", NOTE: requires AML IF_DATA ETK_XETK V1.1 - "Watchdog disable" - "CalWakeUp - customer specific implementation" - "Debugger arbitration " - "JAMP (small in size and user friendly flash driver)"
ETK-S5.1	In combination with new HDC V24: - Corrected problems with emulation memory handling -> Dynamic Emulation now possible! - Improved general usability -> Fewer pop-up messages and less ETK reconfigurations - Cold start functionality enabled - Introduced a 2nd option for the ECU / ETK startup handshake -> More reliable Cold start measurement when ETK is buffered from ECU
ETK-S6.0	In combination with new HDC V22: - μ C support SH72512F, SH72512FCC, SH72513F, SH72544F - SH72513FCC μ C-bug improvement; AUD-II interface failure - refer to ETK-S6.0 release notes
ETK-P3.0, ETK-P4.0, ETK-P7.0, ETK-P9.0, ETK-P20.0, ETK-11.0, ETK-T1.1, ETK-T2.0	The feature "DISTAB inside RAM" is now available within INCA V6.1 (INTECRIO V2.2, ASCET RP V5.6)

4.2 Known Issues

4.2.1 Known issues open for this ETK Drivers & Tools version

Call #	Product	Description
75262	XETK-V1.0	HWC options (Code Check Error Behaviour and Auto Start Behaviour) does not work with XETK-V1.0 and Inca 6.0.0
75487	XETK-V1.0	In case PC does not fulfill ETAS XETK system requirements, data acquisition will be stopped by XETK – no warning will be provided to user.

1003959	All ETK & XETK using ETK_XETK AML	A compatibility issue between INCA versions exists when using A2I-files containing bypass configurations. INCA models generated with these kind of A2I-files using INCA V6.2.1 (ETK Drivers & Tools V2.1.0 or later) do not function correct in INCA V6.2.0 or earlier (ETK Drivers & Tools V2.0.0 or earlier).
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4.3 Corrected Errors

4.3.1 Corrected errors in the 2.1.x versions

4.3.1.1 Problem reports corrected in ETK Drivers & Tools V2.1.3

Call #	Product	Description
1004018	All ETK	In some cases the ETKC variables are removed from the experiment

4.3.1.2 Problem reports corrected in ETK Drivers & Tools V2.1.1

Call #	Product	Description
87142	All ETK	In some cases selection of measurement value is impossible in INCA if running on VISTA. (MSXML6 support fails)

4.3.1.3 Problem reports corrected in ETK Drivers & Tools V2.1.0

Call #	Product	Description
75129	XETK-V1.0	Repeating device replace (like XETK-V1 -> ETK-V1 -> XETK-V1) in HWC does not work in Inca

4.3.2 Corrected errors in the 2.0.x versions

4.3.2.1 Problem reports corrected in ETK Drivers & Tools V2.0.0

Call #	Product	Description
80509	XETK-V1.0	Advanced Code Check with XETK does not behave as expected
1003026	ETK-S2	Unable to reconfigure ETKS2 for customer specific Memory Map using INCA5.4.1 or INCA6.0

4.3.3 Corrected errors in the 1.1.x versions

4.3.3.1 Problem reports corrected in ETK Drivers & Tools V1.1.4

Call #	Product	Description
81325	XETK-V1.0	Unable to use A2L project description file with more than one device (IF_DATA section)
81329	XETK-V1.0	Address Mappings do not work for A2L project description files using AML IF_DATA ETK_XETK

4.3.3.2 Problem reports corrected in ETK Drivers & Tools V1.1.3

Call #	Product	Description
1003539	XETK-V1.0	Raster with raster rates slower than 100ms are not available in Inca.
80032	XETK-V1.0	No measurement data acquired in Inca for Distab rasters with more than 255 bytes to acquire.

1003542	XETK-V1.0	Power fail during XETK update (Firmware and HDC) left the XETK in a state, where further update attempts with HSP were impossible.
80279	XETK-V1.0	Hardware Time Synchronisation is not working correctly.

4.3.3.3 Problem reports corrected in ETK Drivers & Tools V1.1.2

Call #	Product	Description
75078	XETK-V1.0	Alias name of XETK can not be set in HWC workaround; use the function "Set Alias" in the Ethernet Configuration of the Target server
79245, 2007403006	ETK-S4.2 ETK-S4.1 ETK-S1.1D3	Reconfiguration of an internal data region to RAM region might fail if the RAM region is used to store overlay configuration table
79853	ETK-S4.2	Configure ETK-S4.2 using ETK-S4.1 Configuration String while hardware is offline leads to an error message in ETK Configuration Tool
79860	ETK-S4.2	Configuration Parameter described in INCA HW Configuration window of Advanced Code Check is not considered if AML IF_DATA ETK_XETK V1.1 is used
2008400254	ETK-S1.1B2, ETK-S1.1D3	Data logging with 2 ETK units does not work

4.3.3.4 Problem reports corrected in ETK Drivers & Tools V1.1.1

Call #	Product	Description
78553	XETK_ETK_AML	Limited Emulation Toolbox doesn't work with ETK using AML IF_DATA ETK_XETK
78427, 78055, 78427	ETK-S4.2	ETK Configuration Tool doesn't show the ETK-S4.2 name correctly. An ETK-S4.2B might be shown as ETK-S4.2A
77857	Advanced Code Check	Warning appears during download if advanced code check is enabled and time out "PATTERN_REFRESH_TIMEOUT" is specified in AML with small numbers
78150	ETK-S4.2	- Configuration Features are corrupt when switching ETK-S4.2 to ETK-S4.2 used as ETK-S4.1 (invalid ID, JTAG speed)
78136	Advanced Code Check	National Language Support updated to be show dialog of Advanced Code Check in German , French, English and Japanese
70894, 68580	ES715	Experiment produced off line in INCA for drive recorder does not work
1003477	XETK	XETK not working correctly with customer specific INCA Add-on "Slewing"

4.3.3.5 Problem reports corrected in ETK Drivers & Tools V1.1.0

Call #	Product	Description
71609	ETK-11.0	Wrong error message displayed to user
1002972	ETK-S2.0	Prof Checksum error
72042	ETK-S5.1	Calibration with ETK-S5.1 fails
1002846	ETK-S5.1	Reconfiguring issue
1002815	ETK-S5.1	Unrequested switch to WP
71754	ETK-S6.0	Handshake improvements at low voltages
75098	XETK-V1.0	User option " Hardware-> ETK Security" is respected in Inca V6.1

75662	XETK-V1.0	The XETK-V1.0 does blink in RAM Adaptor mode, once it is updated with HSP6.1.0
75638	XETK-V1.0	Fix of bandwidth limitation in Inca V6.1

4.4 Hints

4.4.1 ETK-S5.1

The use of ETK-S5.1 requires the use of at least HSP V6.1 together with INCA V6.1. All older SW and FW versions or combinations of new and old versions are not working indicated by error messages.

4.4.2 XETK-V1.0

If Triggered Direct Measurement is used, the Distab header has to be located in the XETK DPRAM.

5 ETK Configuration Tool

5.1 New or Enhanced Functions

5.1.1 New or Enhanced Functions in the 2.1.x versions

None

5.1.2 New or Enhanced Functions in the 2.0.x versions

None

5.1.3 New or Enhanced Functions in the 1.1.x versions

5.1.3.1 Enhancements and new functions in ETK Drivers & Tools V1.1.2

Description
For ETK-S4.2 configuration feature added to switch usage of OCON register for Protocol Based Page Switching with INFINEON TC1767, TC1767ED, TC1797, TC1797ED

5.1.3.2 Enhancements and new functions in ETK Drivers & Tools V1.1.1

Description
Configuration Feature added to switch conveniently between ETK-S4.2 and ETK-S4.2 used as ETK-S4.1

5.1.3.3 Enhancements and new functions in ETK Drivers & Tools V1.1.0

Description
This is the first version of the ETK Drivers & Tools product.
As of now the ETK Configuration Tool is a part of the ETK Drivers & Tools product.

5.2 Known Issues

The following table contains known issues open for this release.

Call #	Description
	No known issues.

5.3 Corrected Errors

5.3.1 Problem reports corrected in ETK Drivers & Tools V1.1.0

Call #	Description
	No errors.

6 XETK Configuration Tool

6.1 New or Enhanced Functions

6.1.1 New or Enhanced Functions in the 2.1.x versions

6.1.1.1 Enhancements and new functions in ETK Drivers & Tools V2.1.3

Description
Support of XETK-S7.0

6.1.1.2 Enhancements and new functions in ETK Drivers & Tools V2.1.1

Description
Support of XETK-T2.1
Support for XETK-T2.0 canceled, replaced by XETK-T2.1

6.1.1.3 Enhancements and new functions in ETK Drivers & Tools V2.1.0

Description
As of this version is online help available
Support of XETK-T2.0

6.1.2 New or Enhanced Functions in the 2.0.x versions

6.1.2.1 Enhancements and new functions in ETK Drivers & Tools V2.0.0

Description
Newly added raster editor supports definition of the ECU measurement raster configuration

6.1.3 New or Enhanced Functions in the 1.1.x versions

6.1.3.1 Enhancements and new functions in ETK Drivers & Tools V1.1.2

Description
Memory segments with Address Mapping are now supported.
When importing an A2L file and downloading this configuration into the XETK, all rasters defined in the A2I file will be configured in the XETK.

6.1.3.2 Enhancements and new functions in ETK Drivers & Tools V1.1.0

Description
This is the first version of the ETK Drivers & Tools product.
The XETK Configuration Tool is a new tool for the support of the configuration of the XETK product family. New versions and corrections will be shipped by ETK Drivers & Tools.

6.2 Known Issues

6.2.1 Known issues open for this ETK Drivers & Tools version

Call #	Description
None	A verify error message appears during configuration download if

	raster of the type special usage, e.g. for RTA Trace, is used. The raster is nevertheless correctly set up internally.
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6.3 Corrected Errors

6.3.1

6.3.2 Corrected errors in the 2.0.x versions

None

6.3.3 Corrected errors in the 1.1.x versions

6.3.3.1 Problem reports corrected in ETK Drivers & Tools V1.1.2

Call #	Description
no call	The alias name of the XETK can not be set by the offered function.

6.3.3.2 Problem reports corrected in ETK Drivers & Tools V1.1.0

Call #	Description
	No errors.

7 ETK Drivers & Tools Program (Installation)

7.1 New or Enhanced Functions

Description	Version
No new features.	1.1.2 – 2.1.3
Product introduction	1.1.0

7.2 Known Issues

The following table contains known issues open for this release.

Call #	Description
no call	None.

7.3 Corrected Errors

7.3.1 Problem reports corrected in ETK Drivers & Tools V1.1.2

Call #	Description
2008400265	The installation of ETK Drivers & Tools stops at 6%, if the installation is linked in the external installation (install.ini) with the parameter "Basic".

8 Hints

8.1 Recovery of old driver versions

An ETK Drivers & Tools installation performs either an update or a downgrade of the existing drivers. If update applies the possible selections are automatically checked by the program. In case of the installed driver versions are newer than the installed ones the selection boxes are not checked and a downgrade warning occurs.

With other words if performing an ETK Drivers & Tools installation the installed, i.e. in use by INCA, driver versions will always be overwritten. If the recovery of an older driver version is desired, the ETK Drivers & Tools version containing the required driver version has to be installed, i.e. has to be downgraded with an older ETK Drivers & Tools release.

8.2 Delete of unused entries in the Windows start menu

An uninstall of the ETK Drivers & Tools product does not delete the Release Notes and disclaimer entries from the Windows start menu. This is because the ETK drivers are still used by INCA. However an uninstall of INCA does not delete these entries either. In case of invalid or unwanted entries, these should be deleted manually.

9 Support and Problem Reporting

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