
INCA V7.1.3

Release Notes

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1 Introduction

Dear customer, in this file you will find the latest information about our product INCA V7.1.

IT IS NECESSARY TO UPDATE ALL FIRMWARE USING HSP V10.0 PRIOR TO USING INCA V7.1 WITH HARDWARE

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

1.1 Definitions and Abbreviations

Term/Abbreviation	Definition
CDM	Calibration Data Manager
EE	INCA Experimental Environment
EHI	ETAS Help Desk International
LiMa	ETAS License Manager
HSP	Hardware Service Pack
HF	Hotfix
HW	Hardware
MDA	INCA Measure and Data Analysis
MIP	Matlab Integration Package
MR	Multi-Recorders
OHI	Open Hardware Integration
OS	Operating System
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
PR	Problem Report
SP	Service Pack
SW	Software
VSD	Variable Selection Dialog
WB	Walkback, Inca system error

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 <code>setup.exe</code>	Text in drop-down lists on the screen, program code, as well as path- and file names are shown in the Courier font.
A <i>distribution</i> is always a one-dimensional table of sample points.	General emphasis and new terms are set in italics.

1.4 User Documentation

The INCA user's documentation in PDF format can be found on the DVD or in the installation folder on the PC.

It can be called up from INCA via the menu item ? → **Manuals and Tutorial** or via the Windows start – menu: → **Program** → **ETAS** → **INCA 7.1** → **Manuals and Tutorial**.

2 Product Definition

2.1 Functions at a glance

New functionality of INCA V7.1 is listed in the overview "INCA-V7.0-Whats-new.PDF".

You find the overview "INCA-V7.0-Whats-new.PDF" on the installation DVD in the folder "Documentation" or in the installation folder on the PC.

2.2 General Description

2.2.1 Safety Notice

Calibration activities influence the behavior of the ECU and the systems controlled by the ECU. This may result in unexpected behavior of the vehicle and thus can lead to safety critical situations.

Only well trained personnel should be allowed to perform calibration activities.

Sending CAN messages influences the behavior of the CAN bus network and the systems connected to it. This may result in unexpected behavior of the vehicle and thus can lead to safety critical situations.

Only well trained personnel should be allowed to perform CAN message sending activities.

Calibrate measurement (Write to RAM) activities influence the behavior of the ECU and the systems controlled by the ECU. This may result in unexpected behavior of the vehicle and thus can lead to safety critical situations.

Only well trained personnel should be allowed to perform calibrate measurements activities.

2.2.2 System Prerequisites

The following minimum system prerequisites have to be met:

Required Hardware	2 GHz Processor 2 GB RAM DVD-ROM drive (for installation) Network adapter Graphics with a resolution of at least 1024 x 768, 256 MB RAM, 16bit color and DirectX 9
Required Operating System	Windows® XP SP3 (32bit) or higher, Windows® Vista SP1 (32bit) or higher, Windows® 7 SP1 (32 or 64bit*) or higher. Windows 8 (32 / 64 bit*) *) INCA uses the 32bit compatibility mode on a 64-bit operating system. (English, French, Japanese, Chinese and German OS version supported)
Required Free Disk Space	1 GB (not including the size for user data; absolute min. required, but not recommended)

The following system prerequisites are recommended:

Recommended Hardware	3 GHz Quad-Core Processor or equivalent 4 GB RAM DVD-ROM drive (for installation) Network adapter Graphics with a resolution of at least 1280 x 1024, 1GB RAM, 32bit color and DirectX 9
Recommended Operating System	Windows® 7 SP1 64bit (INCA uses the 32bit compatibility mode on a 64-bit operating system) (English, French, Japanese, Chinese and German OS version supported)
Recommended Free Disk Space	>10 GB
Recommendation on Performance	Investigation on performance showed: <ul style="list-style-type: none">- More Memory improves execution time of repetitive operations- SSD hard disks improve the file access times

2.2.3 Software Prerequisites

Important notes:

- In order to use INCA the user needs read and write access to the registry path HKEY_LOCAL_MACHINE\Software\ETAS (for more details about user privileges, please refer to the user manual chapter "User Privileges Required for Installation and Operation").
- If the user wants to switch between INCA 7.1 and former INCA versions on the same PC INCA, the COM server settings in the Windows registry are re-registered with each switch. Therefore to switch version the user needs Admin rights to the PC.

If only one INCA version is used this is not necessary. This is also no longer necessary with INCA 7.1 and later versions.

- Windows 7 Ultimate N
EHI #97742 Minimum requirement to install INCA is an installation of Microsoft hotfix "Windows6.1-KB968211-x86".
- Hyperthreading is supported
- Multiple monitors may be used, but there is no special functionality in INCA for them.

2.2.4 Restrictions

WINDOWS® 95, WINDOWS® NT, WINDOWS® 98SE and Windows® 2000 are not supported.

The following hardware is no longer supported with Windows7:

- ES300
- KIC2 / ES585
- MAC2
- ES1000.1

INCA does not officially support PCMCIA adapters used in a Desktop PC for connecting the ES580. If communication problems occur with such an installation, ETAS cannot offer a solution. Please check at first whether the installation of the PC adapter and its driver software has been performed successfully.

INCA offers a mdf3 - 4Byte converter that is called MDF4 converter.

This converter converts MDF3 files to a special MDF format using 4 byte variables. This will not convert files to the new ASAM MDFV4.0 format. We have deliberately kept the old MDF4 name in INCA to ensure the COM-API is still compatible with earlier INCA versions.

When using triggers to start or stop a recording, the recording duration has to be at least 3 seconds. In case of a shorter recording duration INCA might not be able to record all events. A period of at least one second is required after a pause event, before the start trigger condition may trigger again. Otherwise INCA does not recognize the pause and does not include an appropriate pause comment into the recorded data file. This may lead to unexpected display results in the MDA.

Since V6.2.0 INCA allows parsing A2L files containing 2-byte characters.

However the following restrictions apply:

- 2-byte strings are not always displayed correctly
- copy and compare of 2-byte strings is only possible if source and destination have the same encoding

MDA/INCA - Calculated Signals:

- It is recommended to use '.' as decimal symbol for defining calculated signals
- Using library functions in formulas might causes some differences in the number of samples
- Measure time as input signal does not work correctly (INCA issue only)
- Dependency view is not able to show more the 5 levels of a cascade
- Using different rasters as bases for calculated signals might cause wrong results

CDF V2.0

- Rescale axis of Vector CDF files are rejected by INCA 6.2 (and subsequent)
The reason is that Vector writes rescale axis in CDF V2.0 in a different way than INCA.

Write to RAM

- When using CSE for Write to RAM, values in scenarios can be edited only in PHYS representation.

ETAS INCA V7.1.0 introduces a new version of the target server component.

For this reason, with INCA V7.1.0 and ETAS Experiment Environment V3.3 (as well as with earlier versions of the experiment environment) simultaneous online operation will not be possible. E.g., if during bypass operation INCA V7.1.0 is used to measure and to calibrate on an ECU, Experiment Environment V3.3 cannot access the corresponding prototyping hardware (e.g. ES910) at the same time.

Recommendations:

- Use INCA V7.1 in combination with INCA-EIP V7.1 to access both the ECU and the prototyping hardware simultaneously. No compatibility restrictions apply in this case.
- Use INCA V7.0 for parallel operation with Experiment Environment V3.3.
- Use the succeeding version of the Experiment Environment (V3.4, which will be available with LABCAR-OPERATOR V5.2 and INTECRIO V4.4 later in 2013) for parallel operation with INCA V7.1.0.

2.2.5 Miscellaneous

Problems may arise with new scan engines of virus scan tools. To ensure the highest data security for data in the INCA database, the database is directly saved after every data change or access. This leads to a high amount of read/write cycles and this might initiate the scan engine of the virus scan tools to check the differences if the option 'scan all files' is set. This leads to a delay working with INCA. We recommend excluding all files of the INCA database from scanning.

Whenever uninstalling INCA, the included INCA uninstall program should be used. This ensures that all add-ons and other products installed with INCA are also uninstalled (except ETASData and ETAS License Manager). Never delete files or folders manually.

INCA differentiates between online (=visualization) and offline (=recording) data. However, online data may not be complete in high "system load situations". Offline data is being buffered internally and ensured to have no gaps in the recorded data file.

The INCA-MIP add-on (MATLAB Integration Package) uses by default the online data because data is always available for all devices at all times. For switching to offline data, an API command is available.

For Rapid prototyping purposes, the ES4xx module chain can be connected directly to the ES910. For measurement with INCA the ES4xx module chain shall be connected directly to the measurement setup (i.e. ES600)

The documentation provided in the PDF format can be viewed and printed using the Adobe Acrobat Reader, which is available free of charge at <http://www.adobe.com>

Updates for manuals in the PDF format won't be delivered with INCA refreshes to reduce the size of the file for download.

2.3 Delivery

The INCA software is delivered with an automatic installation routine on a DVD including the INCA software, documentation, tools, utilities, and further information. All software documentation is available in the Portable Document Format (PDF), which requires Adobe® Reader®.

If the installation routine does not start automatically execute the `autostart.exe` program on the DVD manually. Select your preferred language, then **Installation** and finally select **INCA V7.1 installation** first. The Hardware Service Pack (**HSP V10.0.0 Installation**) has also to be installed for proper operation.

2.3.1 Used 3rd Party Software

The 3rd Party Software used by INCA and its add-ons is listed in the document: `Open_Source_Software_in_INCA_7.1.3.pdf` (in folder `\Release_Notes\OpenSourceSoftware`).

2.4 Installation

For details on installation select (after the automatic installation started from DVD) **Documentation → Getting Started INCA V7.1**, Chapter "Installing the Program" (or in `INCA_Manual_R7.1_xx.pdf`, Chapter "Installing the Programm")

Please check also Chapter 10 (Troubleshooting) with information about setting of network adapter and personal firewall or what you can do if firewall block ETAS hardware and search for Ethernet hardware fails.

2.4.1 Important Installation Hints

- After the installation a reboot is required. This is also true for hotfix installations.
- MDA is no longer installed automatically with INCA. MDA is delivered on a separate CD, and must be installed independently.
- User shall not install/uninstall licenses while licensed software is online. Recommendation: Shut down product and manage licenses then.

2.4.2 Related Components

Firmware

IT IS NECESSARY TO UPDATE ALL FIRMWARE USING HSP V10.0 PRIOR TO USING INCA V7.1 WITH HARDWARE.

The Hardware Service Pack (HSP) V10.0 is also included on the installation DVD.

ES4xx and ES6xx (Daisy-Chain) Support

Support of these modules is provided by a separate Daisy-Chain add-on.

The INCA installation medium contains the latest version of the add-on available on the release date of INCA. It is installed automatically during the INCA installation. For new versions of the Daisy-Chain add-on please check our website. It is part of the INCA Service Pack.

ETK Support

Driver and configuration support of ETK/XETK modules is provided by a separate add-on 'ETK Drivers&Tools' (important hint: the ETK configuration tool is only available, when the add-on is installed). Additional (X)ETK tools or driver to support new (X)ETKs may become available independent of INCA releases.

This installation medium contains the latest version of the 'ETK Drivers&Tools' add-on available on the date this INCA version is released. The add-on is installed automatically during the installation of INCA. For new versions of the 'ETK Drivers&Tools' add-on please check our website. It is part of the INCA Service Pack.

2.5 Licensing

INCA, MDA and some INCA add-ons are protected via electronic licensing.

In order to run and use the products, a 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.

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.

3 Changes

This chapter describes changes with respect to the previous version of INCA V7.1.0.

3.1 What's New

See What's New slides of INCA: Select **Version Info** → **What's new presentation** on the automatic installation from DVD or INCA-V7.1-Whats-new.pdf.

3.2 Compatibility to Earlier Releases

In general compatibility to other INCA versions has been taken into account. Known exceptions are: Experiments updated to INCA V7.1 cannot be used with former INCA versions. A back-porting mechanism is available: oscilloscopes are replaced by measurement tables.

For more details see Getting Started INCA Chapter "*New YT and XY Oscilloscope*", especially section "*Compatibility and conversion*"

3.3 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>

3.4 Known Issues

This section describes the set of known problems of the released version of INCA V7.1.0

3.4.1 Software related Items

Problem Number	Title
EHI #330173	INCA 7.1 Crashes when importing Workspace In seldom case it might happen, that an import of a workspace will crash INCA sporadically (depends on project, installation, system)
EHI #326775	INCA Crash During Morphee "Full Scan" INCA Crash During Morphee "Full Scan" if MCD3 Server Options are set to "INCA Workspace Search" = "All Folders" and "INCA Project Search" = "All Folders".
EHI #74310	Electronic Licensing - Valid local license not found when LAN connection deactivated If the LAN connection may be automatically deactivated when the ethernet cable is not plugged anymore. When using electronically licensed software products depending on the MAC-address, the application does not find a valid license and cannot be started because the MAC address cannot be identified. Ethernet adapter has to be active.

EHI #2008404287

Excessive RAM usage with combined editor - accumulator over long period of time (with many cycles)

With INCA 7.0 the memory leak is fixed for the table part. For the graphical part the memory leak is not solvable. For test bench applications the combined editor must be used in the "table only" mode.

3.4.2 Hardware related Items

Problem Number	Title
NA	NA

4 Hints

4.1 Compatibility with other INCA versions

- INCA V7.1 introduces new functionality
- When designing and implementing this functionality, compatibility to other INCA versions has been taken into account
- Exchange of export files or databases with other INCA versions is possible
 - Easy, safe, and fast migration to INCA V7.1
 - Projects created in former INCA V6.x / V7.0 versions can be reused
 - Up and downward* compatibility allows using INCA in distributed development projects

* Known exceptions are:

Experiments updated to INCA V7.1 cannot be used with former INCA versions. A back-porting mechanism is available, which replaces oscilloscopes by measurement tables.

5 Refresh and Hotfix Information

A refresh installation updates an INCA 7.1 installation.

Important: It requires a full INCA V7.1 installation.

All refresh software updates are cumulative. The most recent refresh incorporates any changes introduced by previous refreshes.

At the same time other INCA Add-Ons will also be updated. The INCA V7.1 base installation and Add-On installation will be updated with help of the INCA Service Pack.

The following issues have been fixed in INCA V7.1.x refreshes as listed below.

History listed in reverse order.

5.1 INCA V7.1.3

5.1.1 Recommended Installation

It is recommended to install the update the complete INCA V7.1 only with help of the Service Pack (installer) of the INCA V7.1 SP

5.1.2 News

5.1.3 New Features

See What's News slides INCA V7.1 SP03 (INCA-V7.1-SP03-Whats-new.pdf)

5.1.4 Solved Known Issues – Important Hints

Solved known issues of INCA V7.1.2 and former versions

- EHI #375203 If CDM is opened from EE, operation in function mode, then the difference is not detected
Solved with INCA 7.1.3
- # 364841 CCP "Quick start mode" - "Save Configuration (Suspended mode)" does not work
Solved with INCA 7.1.3
- #370206 Flash over UDS might fail.
Solved with INCA 7.1.3
- #378741 Silent installation with the Service Pack installer will not update the ETK Tools part of ETK D&T
Known issue with the Service Pack Installation from INCA V7.1 SP1 and SP2
Details and workaround see Service Pack Release Notes
Note: Solved with INCA 7.1SP3. The ETK *Drivers* will be updated with ETK D&T V3.12.0 installation automatically (but the drivers are not part of INCA V7.1.3)

5.1.5 Open Known Issues – Important Hints

Known issues of INCA V7.1.3 and former versions

- #373433 HIL Test Bench: LABCAR CCI data logger: It might happen that data logger cannot be activated anymore and therefore new data logging is not possible
Note: Solution planned with updated LABCAR or INCA version (depending on issue)
- #373446 Labels in the CDM might be not updated when address are used more than one time
- Calibration with "Limitiert EMU-RAM" not possible in Experiment Preparation mode
Issue is caused by the Experiment Preparation "Toolbox": After flashing has been finished, the dynamic emulation layout is gone (green LED is switched on), but the EP "Toolbox" does not set the overlay layout, again.
Issue does not occur if DERT is active. In this case, INCA configures the overlay layout in the right way.
Condition (issue occurs):
 - INCA option Limited EMU RAM: Experiment Preparation
 - use serial ETK
 - HW init inside EE
 - switch to WP
 - calibrate
 - flash from WP->ECU flash
 - after closing ProF, INCA reinit and try to calibrate: value cannot be changed even though we have equal checksums and HW init was successful

There are 2 possible **workarounds**:

1. Open MPM and execute a Download from Dataset to WP
 2. Trigger a hardware initialization (F3)
- #382083 Device XCP:1 does not define a TPBlob. Cannot load the Asap1b driver
It is only an issue by parsing the A2L file, when the included AML files doesn't exist.
Workaround: Provide all AML include files.
Note: Only relevant for corresponding projects using XCP AML V1.2
 - Raster switch with EVENT_CAN_ID_LIST does not work correctly if measurement is running
Sporadically INCA does not configure correctly the measurement but does only start and stop some DAQ-Lists

Windows 8 support

EHI # 372813 Windows 8 64bit Microsoft Surface 128 GB: INCA HWK does not start

On Windows 8 64 bit systems, it might happen that the timer of the system is not supported correctly and HWC will not open. This depends on the hardware.

In such case the timer driver does not support a special interrupt controller mode of the given controller.

Note: Will be solved with one of the next INCA 7.1 Service Packs.

5.1.6 Bug Fixes and Improvements

- Note:
 - Some fixes are solved with the corresponding INCA – Add-Ons (also part of SP2)
 - Listed in increasing order

EHI #	Title
257926	Translated strings have not been integrated at all in "GPS_DeviceParameters" tab for GPS devices in HWC Editor
277323	CAN low speed baudrates : If "Transmission speed" --> "low speed" is configured baudrates > 125k should not be configurable
278637	INCA not reachable via Windows task switch when "Bounds Visualization" window is openend
329798	CDM Performance: Adding Labels and using filters in CDM takes too long
334353	EE: Measure Table with 3 labels shows 4 labels (twice the last one) when scrolling down
339154	EE VUI: Adding new variables to some VUI widgets stops visualisation
340607	XCP Raster check for Busload does not work in offline mode
340617	XCP V1.2 Raster check for busload limit works only, if another limit is defined as well
344713	Inactive Window couldnot be deleted but it wander to other activated folders
347232	Calibration table column size autofit does not work properly
348720	Shutting down of INCA takes a lot of time
348925	EE: Element used in a VUI changes there size after selecting different label
350001	INCA-DB Additional (complete) path entry after experiment import
350243	INCA memory increases as run MCD3 tests causing PC to freeze and INCA to crash
351107	After INCA is closed the IPMSERVER remains opened as task
352473	Different Messages while INIT a second time without changes. Note: Requires ETK Drivers & Tools V3.12 (part of the SP-installation)
352541	Memory pages window is not controlled with windows resizing for horizontal direction
354090	Window setting are changed in experiment - Label name no longer visible
355059	ISOTP TX fails with STmin > 15ms on QNX device
355309	Some basic API commands are missing in INCA V7.0/V7.1
356365	[WBID2935145940] on dataset change over asap3
358633	INCA 7.1: [WBID2439085396] Walkback when open CDM configuration with multiple datasets
361828	New Osci (V7.1): Analog signal is always filled after move into the digital domain
362291	[WBID1366287155] on opening EE
363957	If CDM is started from EE, then a message appears "A copy is not possible when the Experiment is using Limited EMU RAM"
364984	[WBID2313778916] - When initializing the hardware
365487	[WBID2982027503] when opening the Experiment

365606	RTOSCI: "[NetWBID2423115] Etas.Base.Shared.EtasException: Exception in Plugin Etas.EE.Oscilloscope" or "[NetWBID1081518937] System.NullReferenceException: Object reference not set to an instance of an object." when open special experiment with new osci
366120	[WBID4026170935] when adding some calibrations in one transaction via CDM to EE
366720	Table editor scrolling mismatch
366834	Due to incomplete DLL registration a reboot is required between INCA V7.1 and INCA 7.1 SP1 installation
367304	Communication error (CCP) during automated write/read test with powerfail (successor of #361536)
367441	[WBID693730511] if attempt to initialize EE after standby
367626	[WBID2104325493] receiver must be a boolean
367633	[WBID3380465711] UndefinedObject does not understand x
367652	[WBID3093849059] UndefinedObject does not understand asSInt16Array
367912	ES59x and ES9xx: Delay between the transmissions of two ConsecutiveFrame on UDS flashing - Note: requires FW update HSP V10.3 or higher
368161	Updating of the unequal variable values will not be set in real time in CDM
368501	[WBID1372541587] Experiment environment can not be open due to inactive variables
369260	[WBID2639573367] after start of EE
369267	XCP V1.2 Raster check does not work correctly
369497	[WBID2892933132] when calibration of axis in offline modus causes
369532	INCA V700: [WBID2678061846] INCA V710: [WBID3908644710] when open EE
369625	XCP V1.2 Raster Check for MEMORY_CONSUMPTION and ODT_ENTRIES calculates wrong
369935	XCP V1.2 Check for MEMORY_CONSUMPTION does not work correctly
370015	XCP V1.2: CPU Limits are available in the VSD for XCP V1.2 even if there are not all mandatory parameter defined in the A2L file
370023	Problem with VTAB-Range conversion
370206	Flash over UDS failed
370296	[WBID2036305924] RBFolder does not understand DataManagerClass
370299	[WBID2978522827] EE when open special workspace
370403	Recorder Configuration: Trigger on variable of an array not possible - no array selectable, no array displayed
370439	Unexpected values are shown for Compu Method M_asin and M_acos
370447	TgtSvr crash during flashing - etkc_1b.dll: Critical Exception 0xC0000005
370529	CAN UDS No detection of ECU OFF during measurement
370611	LIN Import of certain LDF file fails (signal scale factor -1)
370772	Added scenarios get not loaded in the EE
370783	MCE Manual Configuration Issues
370859	Not printable letters are written in different LAB Files after a compare or copy
371004	CDM performance increased in case loading configuration into CDM
371005	[WBID1584341332] UndefinedObject does not understand x while calibration of a Map in 2D-Graphic

371012	CDM Copy performance improved when the BackgroundComparison (BG) is ON (compared to INCA V7.1.1)
371202	Interpolate Z-values in X-direction is not working as expected - not all Z-values respected
371203	[WBID2036305924] RBFolder does not understand dataManagerClass
371590	Changes made to a project in the A2L Editor get not loaded in the EE if the project already assigned to a workspace
371619	INCA V7.1.1 Checksum calculation of working page fails
371822	GMLAN No measure values in the experiment displayed
371921	KWP2000: Checksum not unknown, upload of WP missing
371938	Critical exception of etasGeneral100.dll when adding calc signal to EE
372041	LogViewer: registry settings will not be applied if LogViewer GUI was not started with "Run as administrator" - see also #372779
372122	WB [WBID868823276] UndefinedObject does not understand detect:ifNone:
372301	After install INCA V7.1.1 the API connection to server with INCA 7.0.0/V7.1 is not possible
372303	EE: "[WBID3341496994] UndefinedObject does not understand isDeviceGroupCompatibleTo:" can occur when grouping in EE->hwc
372655	[WBID81108787] WB solved
372669	[WBID3175958561] Walkback when initialize and start recording with experiment
372684	WB [WBID1211125905] WinError does not understand setLastWriteTime:
372722	Performance improvement for customer specific RAMScope: Performance during creation of generic measure device in case of more than 100 measurements
372751	[WBID3499201962] UndefinedObject does not understand sign when flashing
372766	WB [WBID2122044588] UndefinedObject does not understand cr
372770	WB [WBID2971474149] UndefinedObject does not understand isMasterData
372778	[WBID695056342] UndefinedObject does not understand setInputFocus
372779	Cfw.LogViewerGUI.exe does not save settings for logging if user is not admin
372830	[WBID2036305924] RBFolder does not understand dataManagerClass - CDM
372841	EE windows gets resized when calibration variables for LERT Experiment Preparation are reconfigured
372852	EE: Label selected via "Search For Variable" are not deselected after selecting new Label in the same Osci
372906	NetWBID1072430456 occurs when configure the "Variable name display setup" in EE.
372968	[WBID3252205347] UndefinedObject does not understand filterController / Crash after close CDM
372974	INCA is terminated abnormally when the customer change the ProF action menu of 2byte character.
373063	Value of the bit display blink on and off suddenly. In such case the displayed value is different between the bit display and the numeric display.
373108	ES720 V7.0.0: idRef for "ObdOnCAN" is undefined in exported .wsmd file
373203	WB [WBID3388896898] UndefinedObject does not understand startsWith:
373233	[WBID2649952204] solved

373300	Add a variable to Oscilloscope in VUI is not working properly in Korean OS
373373	[WBID535153218] read from invalid memory location. Note: User without rights to write in the "Application Data" directory for current user, cannot use INCA.
373548	CDM-"Ctrl-W" shows a wrong order of variable names.
373726	EW_I7.0.0/21: INCA Walkback after hardware initialization
373743	ASAP2 Editor - Wrong icon for axes
373766	WBID281497833 Systemerror calibrating a grouped array via ASAP3
373857	Change Smalltalk Inactive Purge Context Menu Label
374017	WAIT_FOR_KEY in ProF doesn't work
374046	Pre-triggered measurements and "Multiraster": Signals might get lost.
374064	WBID1557531359 during 2nd read for same DCM file via test automation
374138	UDS Flashing - WriteMemoryByAddress always sends PDU with 4095 bytes
374151	ETK-S1.1D3: Cannot initialize ETK-S1.1D3 hardware with INCA 7.1.1 od INCA 7.1.2
374293	[WBID2036305924] CDM add folder as destination
374714	Adding new layer, the focus is missing for the new created layer
374766	XCP V1.2 EVENT_CAN_ID_LIST from XCP 1.2 does not work
374773	Error 64 encountered when launch INCA after installation
374825	[WBID1877063121] MessageNotUnderstood: UndefinedObject>>new
374944	Adding INCA-MCE XETK Calibrations via MCD3 V1.0.1 "Always Use Fuli" fails
375008	EE: [NetWBID642990540] System.InvalidOperationException: TargetServerChannel not connected) after try to open VSD when before different INCA versions are used
375026	EE: New Oscil might use wrong Default Value for Property Line Style
375038	[WBID3234260705] & [WBID1766103906] & [WBID2498553291] Walkbacks at GM Test bed during shut down of CAMEO.
375166	OS Version not correctly logged in ASAP3/MCD3
375203	CDM opened from EE, operation in function mode, then the difference is not detected
375215	Asap3.exe crashes when activating recorder
375318	[WBID992885578] System error on attempt to expand a function in CDM
375477	[WBID847977887] While change grouped items over ASAP3
375601	[WBID625331335] Flashing is not possible
375744	[WBID1899679281] Editor not found
375779	[WBID1916615553] UndefinedObject does not understand identifier
375782	[WBID2234988461] UndefinedObject does not understand pfilnam:
375787	[WBID2595496058] UndefinedObject does not understand databaseFileType:
375791	[WBID963979591] UndefinedObject does not understand do:
376235	ProF: Flashing with 3rd party tool not possible
376413	Flashing via ES1232_CAN_Port_ES1222 is not possible
376539	WBID3962789407 Reading A2L + HEX into INCA
376549	WBID2112125908_System error after importing WWH_OBDonCAN.exp in Inca V712 Note: Required INCA Add-On ODX (part of SP)
376552	Switching layers causes windows to be moved in layers

376628	CDM: Number of selected variables is not "0" if a "source"-project is removed
376841	FlexRay Monitoring issue with MUX-PDUs Note: Requires INCA Add-On FlexRay (part of SP)
376847	[WBID1123985822] Walkback when select ES610 in Hardware Configuration
376859	[WBID1775382810] Systemerror on attempt to copy variable in CDM
377098	[WBID3884384147] EtasContainerMeasureWidget does not understand addSelectedWidget
377100	[WBID4003596577] UndefinedObject does not understand checkAllLabelsInDataset:
377162	WBID3550110205 Systemerror configuring an ES650
377297	Baudrate cannot be switched by ProF if XCP project is assigned to same CAN
377316	Analog signals drawn over strip borders
377332	UDS flashing is not possible with Panasonic and Keihin ECU
377475	INCA saves wrongly measure values in the measure files if "output" signals are in use
377508	Experiment window gets resized when recording is started (after closing MPM)
377571	Kvaser devices has no support for ES720
377573	[WBID3855418535] Primitive failed in: Object>>#at:put: due to Index out of range in argument 1
377763	XCP FlxBuffer : Do not use FLX_Assign messages for FIXED buffers
377838	API Command StopMeasurement does not save measurement file in INCA V7.1.2
377874	Editing a register will not change individual bits of that register
377978	ASAP3: Get Extended Parameter delivers wrong type
378033	Flashportselection does not work
378053	[WBID1769954627] DBLinDeLinError does not understand comment: when try to read A2L and Hex File
378054	ES610 measurement values are wrong when the workspace contains a ES595 with FlexRay Monitoring
378196	[WBID2800727061] System error comparing datasets
378435	Replace system is slow if Ipetronik Addon is installed
378741	ETK Tools are not updated during INCA V7.1 SP02.1 installation
378882	OHI - FlexRay Startup Controller settings get lost
379053	Impossible to switch back from recording to measuring when recording duration exceeds the duration specified in the recording management window
379054	[WBID1779721979] False does not understand notEmpty
379251	CDM Compare_Function_mode doesn't show "new functions"
379961	[WBID3358669662] MessageNotUnderstood: EtasWriteChunkStream>>notEmptyContents
379968	[WBID2397091331] Primitive failed in: Object>>#at: due to Invalid class in argument 1
380167	Adding INCA-MCE XETK Slewing Calibrations via MCD3 V1.0.1 fails Note: Requires INCA Add-On MCE V2.0.2 (part of SP)
380427	[WBID2157804504] UndefinedObject does not understand resetSigDigCache
380448	[WBID115558893] using COM.API

380594	After ETK-Re-Init INCA shows a wrong settings in dialog and user "must" start flashing of ECU
380601	Connection of ASAP3 to INCA from within the Experiment does not work if .NET V4.5.0 is installed (no issue with .NET V4.5.1) Note: Workaround implemented with INCA V7.0.0 HF24 and INCA V7.1.3
380673	Add of measure signals is not possible on HIL-system.
381044	XCP AML V1.2: MPM cannot be opened if XCP ECU is not initialized
381543	[WBID2119616776] Exception is not resumable - if copy data set in CDM
382262	Convert of EE to new oscilloscope removes all multi-rates
382539	[WBID3202787132] Inca crash by double click on CDM Quality Label
382876	Pre-trigger-time cannot be saved in the measure file with XCPonEthernet
382976	Calibration Wakeup HWC option not initialized with information from the A2L file
383113	CDM: [WBID1012134614] during double click on "function"
383223	Datasets exported from INCA V7.1.2 cannot be read in with older INCA versions
383243	[WBID59756152]_INCA walkback during opening EE in INCA V7.1.2/1
383371	CSM: [WBID1823878228] Walkback at SFH for 3rd hardware with CSM
383517	Does not show Adaptive Parameters in VSD and EE - as performance is poor
383589	WBID1332945512 CDM-Editor cannot be closed
383659	[WBID1575485604] (ExError) An error has occurred in CDM
383765	Raster switch with EVENT_CAN_ID_LIST does not work correctly if measurement is running
384071	SYSTEM ERROR is occurred when Read from CDF V2.0 file including PMD in CDM

5.2 INCA V7.1.2 HF 01

5.2.1 Recommended Installation

It is recommended to install the update the complete INCA V7.1 including INCA V7.1 HF only with help of the Service Pack (installer) of the INCA V7.1 SP

5.2.2 Known Issues – Important Hints

See also INCA V7.1.2.

New known issues with INCA V7.1.2 (but not introduced with INCA 7.1.2 HF01):

Windows 8 support

EHI # 372813 Windows 8 64bit Microsoft Surface 128 GB: INCA HWK does not start

On Windows 8 64 bit systems, it might happen that the timer of the system is not supported correctly and HWC will not open. This depends on the hardware.

In such case the timer driver does not support a special interrupt controller mode of the given controller.

Note: Will be solved with one of the next INCA 7.1 Service Packs.

CDM used in parallel to EE

EHI #375203 If CDM is opened from EE, operation in function mode, then the difference is not detected

It is not issue if the CDM config object is opened without EE.

Note: Issue will be solved with the upcoming INCA V7.1.3.

5.2.3 Bug Fixes

EHI #	Title
375477	[WBID847977887] While change grouped items over ASAP3
376323	Flashing ECU fails for Prof configuration with AALFI_FOR_REQUEST_DOWNLOAD = 4x (x=1,2,3,4)
376861	XCPonCAN and XCPonEthernet - measurement is not possible if FIRST_PID 0x00 and MAX_ODT 0xFC

5.3 INCA V7.1.2

5.3.1 Recommended Installation

It is recommended to install the update the complete INCA V7.1 only with help of the Service Pack (installer) of the INCA V7.1 SP

5.3.2 News

5.3.3 New Features

See What's News slides INCA V7.1 SP02 (INCA-V7.1-SP02-Whats-new.pdf)

Note: Currently What's News slides INCA V7.1 SP02 are in "Draft" status.

Summary/Key points:

- ASAP3 "EXTENDED GET PARAMETER/SET PARAMETER"
- CDM - Compare option for compare FORMAT (ASAP2-MC) with higher precision
- Windows 8 (32 / 64 bit*) supported
*) INCA uses the 32bit compatibility mode on a 64-bit operating system.
- ProF: Support sending of CAN messages on any CAN-ID during flashing
- Multiple client support of ES581.3 (requires also update of drivers).
 - Related ES581.3 calls solved
 - Known issue with ES581.3 solved.
 - EHI #347726 ES581.3: No measurement via IPETRONIK or CSM possible if both ES581.3 CAN ports are used.
- Search feature of EE enhanced: CTRL-F --> Find variable which is not in use in current EE. As a result, VSD is opened with this string as search filter

5.3.4 Open Known Issues – Important Hints

Important hints for operation with ES581.3:

To **support multiple clients with ES581.3** a major/structural change of INCA, driver and firmware was required.

- When **upgrading any of the INCA Versions V7.0 or V7.1** with INCA V7.0 SP15 or V7.1 SP2 also the corresponding other version needs to be upgraded to the new version.
- If **J2534** is used (e.g. for 3rd party access on ES581.3), an update of the ES581-J2534 driver to V2.0.7 or higher (part of HSP V10.2.0) is required.
- Ensure the **USB driver** is updated to the latest version (part of HSP V10.2.0)
- Note: The ES581.3 firmware is automatically updated from the driver (if required).
- Known issues:

- #349083 Flashing with ES581.3 (and 3rd Party HW) fails - ST_MIN not respected

Flashing via UDS/KWP with ES581.3 HW might fail, if a CAN frame separation time (STmin) > 0ms is used. In this case it might happen that the used separation time is sporadically lower than STmin.

This is an issue with every 3rd Party HW (Vector, Kvasar, ES520). It is not issue with ES59x, ES910, ES511.

Workaround: Change setting in the file

„ETAS\ETASShared11\System\ES581_CAN.xml“ :

```
<IniFileItems>
```

```
<entry>
```

```
<key>ISO15765_TX_NOTIFICATION</key>
```

```
<value>ACCURATE</value>
```

```
</entry>
```

```
<entry>
```

```
<key>SELF_RECEPTION_MODE</key>
```

```
<value>1</value>
```

```
</entry>
```

```
</IniFileItems>
```

- #373308 ES581 Sporadically a critical exception at NeoVIsServer.exe occurs

ES581.3 is incompatible with some deprecated Intrepid Control Systems, Inc. Vehicle Spy settings.

Please remove the 'Intrepid – neoVI' J2534 setting in the registry or change the FunctionLibrary registry key to use the latest icsJ2534VCAN3.dll driver.

- [HKEY_LOCAL_MACHINE\SOFTWARE\PassThruSupport.04.04\Intrepid - neoVI] // Windows 32bit
- [HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\PassThruSupport.04.04\Intrepid - neoVI] //Windows 64bit
- FunctionLibrary=C:\Windows\system32\icsneo40.dll // deprecated
- FunctionLibrary=C:\Windows\system32\icsJ2534VCAN3.dll // update

Windows 8 support

- #370449 Winows 8: Context Menu Variable Documentation does not work correctly when a PDF file is used.
Note: Installation of Adobe Reader V10.1.8 or higher required.
Please download the latest released Adobe Reader.
- #372813 Windows 8 / Microsoft Surface 128 GB: INCA HWK does not start

Windows 8 – HW/Drivers released for Windows 8

- ES581.3 with INCA V7.0 SP15 and INCA V7.1 SP2
- Kvaser (drivers V5.1 is supporting Windows 8)
- Vector – HW (with latest drivers available on Vector DL-center)
 - VN1610
 - VN1611
 - VN1630
 - VN1640

Windows 8 - HW/Drivers – currently not released (or not tested) for Windows 8

Note: Drivers might work, but currently not tested.

- ES520
- ES580
- Vector – HW (please check the Vector home page for latest news):
 - CANcardXL
 - CANcardXLe
 - CANcaseXL
 - VN7600
 - VN8910

Known issues of INCA V7.1.2 and former versions

- #373433 HIL Test Bench: LABCAR CCI data logger: It might happen that data logger cannot be activated anymore and therefore new data logging is not possible
- # 364841 CCP "Quick start mode" - "Save Configuration (Suspended mode)" does not work
- #370206 Flash over UDS might fail.
Analysis in progress. It might be an issue with the ProF command
UDSX_ROUTINE_CONTROL_MODE
- #373446 Labels in the CDM might be not updated when address are used more than one time

5.3.5 Bug Fixes and Improvements

- Note:
 - Some fixes are solved with the corresponding INCA – Add-Ons (also part of SP2)
 - Listed in increasing order

EHI #	Title
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59428	Upload with CCP: Text on upload progress bar is not translated
86742	CDM CUBOID error, CDM Compare does not generate PDF
100988	ETK T1.1: No download of modified parameters after offline calibration (calibration during disabled online access)
323355	ES581.3 Change of protocol merge CAN1 and CAN2
328822	Walkback encountered if drag a slewable variable from a measure window to a YT scope
332992	IP-Manager: IPManager should inform user if hardware device is out of predefined IP range
337774	MPM comes up only every second time when user calibrates offline and switches ECU calibration access back on again
338655	CSE: Column width for Variable name does not fit to actual length of name
341897	CDM: Some booleans show (true/false) although the option was set to show integers (1/0)
343664	ES581.3: Deterioration of CCP Flashing performance compared to Reference Version INCA V700 HF8
344686	After copy & paste from layers in the VSD, widgets are used in unexpected layers
346669	Calibration changes made in the state "ECU in reset" get discarded
347178	Faulty slew icon displayed on the dataset after reading the hex file. Note: Already solved with INCA V7.1SP1 and INCA V7.0.0 SP 13.
347715	Japanese export file name is not transferred from workspace name
347842	[WBID1366287155] when open EE
348732	CDM: Dependent labels are unexpectedly computed when using A2L and Data Transfer File
349085	Maximized window resizes to default size each time after closing of VSD
349780	[NetWBID2805166059] system error when opening multiple VSD
350233	[WBID1985422111] during calibration recording
350917	Replace hardware - information missing in "confirm" pop-up window
351590	Raster information is not shown in INCA with connected Hardware - Note: Solved with ETK D&T V3.11.0 (part of the SP)
351676	ODX project not included in regular INCA export file if previously imported from an "Folder export" - Note: Requires INCA Add-On ODX V1.5.2 (Part of SP2)
352006	"Add layer" and "set the layer comment" does not work at the same time in the VSD
352254	ES581.3 blockmode: initialization of sequence too slow
352402	Unit(msec) of "expected time" is too sensitive in the CDM -> Changed to Seconds. Values smaller than 0.5 Sec. not displayed.
352404	Vertical scroll bar of "Scalar Table Editor" will not be displayed automatically after moving variable from other window
353125	CDM: Preview output is not saved in DB object
353772	[WBID1351596878] solved
353955	[WBID4070127963] Walkback when open experiment

354194	LCA: Cannot write StringArrayParamVar
354443	Different WBs during INCA session solved ([WBID3269616446]+ [WBID2563756822] + [WBID2674861332] + [WBID4219976294] + [WBID1457383385])
354877	Osci Borders: Migration of border values not working
354905	[NetWBID3527674279] Divide by zero - during recording
355040	If SEED_AND_KEY() was called twice, the second call always returns "0"(error).
355599	Window positions in EE changed when saving
355667	Recording in special workspace does not work
355936	CDM compare takes >8000 seconds
356006	Variables set to "record only" get lost from experiment when hardware is removed
356285	[WBID3753871432] adding dataset to CDM
356443	[NetWBID4080051704] Systemerror in EE
356664	WBID2383799375 due to wrong Raster Check for ETK
356887	[WBID3629547366] xception has been thrown by the target of an invocation.
356974	PC locks up when initialize XCP with ES581
357047	[WBID859343832] when try to read scenario in the CSE
357077	[WBID1904208450] while execution of ASAP3 command SWITCHING OFFLINE/ONLINE
357996	Inca hangs if flashing with ProF fails
358001	[NetWBID284093111] while select variable from dbc file
358113	Recorder file is not saved using ASAP3
358292	Scrollbar is not displayed in EE
358344	No recording possible due to long user comment (>32000)
358528	NetWBID2805166059 Alt+T opens VSD twice and leads to WB
359140	[WBID599328138] assigning Sensor catalog to ES611 if EtasShared is installed within ProgramFiles directory with limited user rights
359154	CDM: Save As dialog not displayed until action is performed
359207	Wrong information text (number of log-file) in WB dialog
359231	[WBID56370359] when open special experiment
359583	ErrorCode 517 when save database with INCA 7 type
359763	Unsuccessful flashing of a K-Line device leads to TargetServer crash
359776	[WBID3350186849] System error when initialize HW in HW-editor
359918	Space key discards measurement data: The "Discard"-Button in the progress dialog is "clicked", when the user presses the spacebar. This is the standard Windows behavior.
360366	[WBID2789835248] Inserting an inactive variable in the EE causes a crash.
360410	[WBID3489611665] System Error during INCA session
360414	CDM: After toggling RP / WP the CDM is flickering
360424	INCA V7.1.0 does not re-register the older IPM-Server when V7.1.0 is uninstalled
360572	[WBID2495295358] when clicking on Stop Measurement with demo project

360726	ETK reconfiguration occurs without any system changes
360764	[WBID761833463] System error during INCA session
360813	[WBID4105491366] while open EE
360875	[NetWBID4135088560] System error when selecting a newly created calculated signal into EE
360886	Crashes when INCA is left open and the user close the PC lid -i.e puts PC into sleep mode
360971	INCA crashes sporadically
361237	[WBID3034539543] while searching by STRG-F (DSMA*) and switching to the WP in EE
361307	XCP on CAN measurement requires strictly increasing PID numbers
361312	Osci does not show data
361328	Comment in EE is not saved
361533	[WBID172707040] while starting EE and switching the layer
361551	[WBID3550110205] after try to close HWC when before entry from Interpolating Table used by ES610 / ES611 Channel was deleted
361994	[WBID1468378902] Systemerror on attempt to add scenario
362120	INCA crashes when starting visualization
362305	[WBID1339338300] EtasETKDevice does not understand values
362399	eCDM - Server needs the version of the client
362564	After switching to 2D an additional axis is displayed, which disappears after the first page switch
362571	Calibration is not possible. (Address 02400CC4h + Offset -04400000h)
362572	[WBID2796752995] Windows has run out of resources and I71x creates much more widgets than I700 when adding many (~700) labels to EE
362595	ProF monitor crashes on percent sign
362624	Flashing CRD3-NFZ with INCA V7.1 and ES593 does not work
362675	Flashing of CCP ECU with ES590 and ES595 fails
362853	Disclaimer window has unnecessary space on Japanese OS
362857	[WBID302089311] - While opening an Experiment from I700
362861	[WBID2867680566] when openning EE after exchanging the used project
362899	[WBID2765789831] when seleceting variables (CTRL+F) in an experiment enviroment
362977	Action of "Return" hotkey is blank in the hotkey assignment for hardware
363082	Ctrl+F does not find calibration signal
363201	[WBID1828434506]when start recording after ~15 Seconds
363252	Too small dialog for INCA user option "Verify checksum" (HW tab) with JP Win7
363282	Moving the horizontal scrollbar in a layer causes windows in another layer to be moved
363298	[WBID1828434506] when moving a variable into new combi editor.
363486	Unexpected warning about parameters defined multiple when "read all calibration from..." several DCM files in INCA experiment
363520	[WBID2379529958] when remove the unit column from a numeric display in

	a VUI
363536	VSC: Wrong Inc/Dec step when try to change multi selected Inc/Dec step in the VSD
363537	No hint to an multi selection error in the VSD Disp Config Tab
363613	[WBID3272354541] start a new CDM configuration and read the XML file as source
363655	[WBID1909117232] after try to change Conversion
363701	CDM: When there is no label selected unexpected entry Name is found in AboutInfo
363755	Fixed strings are used in the Hotkey assignment window
363756	Button and text redrawing will be wrong after setting "Large" to "Toolbar Icon Size" when INCA windows size is small
363817	Ctrl+U for GroupMAPs resets the axis values even if answered with "no"
363964	[WBID2341914299] during operation
364055	ETKS20 Download does not work after power fail
364145	Lin: Opening HWC of an lin device without an assigned project causes an OHI Error Message
364151	[WBID3115317880] solved
364186	No match variables are lost after first open of experiment
364270	[WBID4127442835] / [WBID1085971809] when adding martix via CDM to EE and switching WP/RP
364297	INCA crashes and ends abruptly
364700	CDM: InlineEditor disappears after adding label to CSE
364728	CDM: Update from label in EE does not work each time when CDM is used in parallel to EE
364772	[WBID3941810745] when open experiment
364850	[WBID1486526400] after changing the extended limits
364868	Activation of inactive measurement fails
364869	CDM: Part of About Info is not updated when EE CDM and change was done in the CSE
364886	[WBID667152105] when performing HPT with reimport in CDM
364989	Strange behaviour with the new oscilloscope (time axis starts at -17000sec)
365104	[WBID4205771203] when try to drag label from CDM Inline Editor to EE
365263	Character value 0x08 does not work in paco + cdf
365264	Doubled display of ES921-device and not present ES920 in HWC-search if CSM AddOn installed
365338	[WBID1858057186] when clicking on can-db item in dbb (customer workspace I700)
365362	[NetWBID3117710536] when drag and drop calibrations into osci
365491	COM-API: Function 'Experiment.StopAndDiscardRecording' does not discard measurement file in specific cases
365501	Instant compare and compare have different results
365646	[WBID3521830602] if assigning project to XCP device
365682	System error after sleep mode of PC

365781	Error reading in LDF file
365788	[NetWBID1225729729] New OSCI: WB while shifting signals from one stipe to another
365809	"CheckDataPagesConform" API command missing for E-Target
365839	Error indication on ES1000 after installation Partner_addOn products
365850	Instant compare preview and comparison listing lists variables twice
365884	ES581.3 Unable to flash with ES581
365940	Communication to HSP or INCA does not work after reconfiguration of the IP assignment on the ES592
365941	[WBID826584337] after closing EE and CDM
365969	[WBID3831484687] during calibration recording cuboids testsuite running
366002	Flash programming failed for KWP2000
366021	Final XCP V1.2 AML can not be red into INCA V7.1.x
366195	INCA 7.0 HF20/21 VCRedist 2010++ 32bit needed - solved with ETK D&T 3.9 and subsequent
366261	[WBID1351596878] IDispatch call returned an exception.
366417	ECU cannot be initialized if ECU is seed and key protected
366547	Scrolling VSD: Selection marking failure in the VSD variable configuration screen
366574	[WBID1351596878] and NetWBID3376827096
366692	INCA freeze while working in VSD
366707	WBID124697803 + WBID2982189480 during opening VSD
366727	Got msg "invalid target server obj" when creating a CalcSig with MeasureCal (scalar) input
366976	[WBID4044653973] crashed while starting the EE
367276	VSD for Experiment Preparation selection does not show variables from LAB-file, when file is in VSD-Root and INCA option for calibration of measurements is YES
367282	Checksum resulted in (0x18) on CCP command UPLOAD (0x04)
367342	ES780 does not initialize properly when launch Experiment and INCA process must be killed to continue
367438	EE: Measurement with abs(x) not updated in widgets
367445	[NetWBID606721900] when open workspace containing an RTOsci with ~ 20 labels
367490	[WBID4020821034] solved
367577	Crash flashing CCP ECU with ES591 module
367587	Fixed strings are used in "about" tab of "Key and Value" field in the CDM
367591	Date format changed in CDF+Paco from yyyy/mm/ddThh:mm:ss to yyyy-mm-ddThh:mm:ss according CDF specification
367630	[WBID718680018] solved
367636	[WBID3266516586] solved
367639	[WBID2191077278] solved
367646	[WBID889164776] solved
367655	[WBID3093849059] solved

367690	EE: Measurement with abs(x) not updated in widgets - solved with #367438
367692	Copy labels in function mode: not all selected variables get copied in CDM
367789	Updating of the unequal variable values will not be set in real time in CDM
367801	CSM Addon did not run properly with used INCA command updateFromSearchResultUseCase- Msg: Invalid use case
367829	[NetWBID86843282] EE: Could not create instrument of type 'YT Oscilloscope (V7.1)' because memory is low.
368044	[WBID1056456240]solved
368128	CDM: Compare and copy is slow
368136	All Windows are moved in EE
368258	LDF Converter generates too long internal Long Signal Identifiers - Note: Requires INCA AddOn - LIN V7.1.2
368296	Difference in CDM compare is not detected
368314	New Feature: ASAP3 - Support of Commands EXTENDED GET PARAMETER/SET PARAMETER
368385	IPE Devices would not recognized due start the EE
368434	Set the same serial number for two different ES581.3 devices
368436	[WBID3185843499] at opening experiment or when starting HWC dialog
368437	[WBID2799303568] when search for HW in HW editor
368569	EE: Dependent label might not be correct updated
368580	ASAP2Editor: Dependents changed via ASAP2 Editor might be not updated
368609	ES581.3 TgtSvr crashes while measuring with ES581 over UDS
368613	[WBID203833631] Walkback when select 64-bit float calibration variable in VSD
368655	Data samples missing from ECU with XCPonCAN measurement in the mdf-file
368698	WBID2500789050 when adding label into experiment
368805	LDF to A2L Converter: quotes in comments can lead to rejecting LDF files - Note: Requires INCA AddOn - LIN V7.1.2
368867	VSD CalibrationHistory window cannot be active after opening it from inside VSD
368871	INCA-MCE Calibration via iLinkRT => WB
369278	[WBID2923198559] when editing Calibration History entry
369526	[WBID3084012237] when trying to perform a copy between source and destination containing parameters with process meta data
369581	CDM copy takes significantly longer than in older INCA versions
369702	Asap3.exe crashes when stopping recorder
369823	ODX V1.5.1: MSI parameters windows appears during the installation.
369844	ES581 causes CAN bus to crash
370089	The toolapi command „StopAndDiscardRecording does not work as described
370280	RTOSCI: It is not possible to drag and drop boolean label from one strip into another strip
370281	[WBID4225922226] solved
370334	[NetWBID3051776007] Walkback when click in Display Configuration tree of Scope Properties

370344	[WBID594243018] when closing EE after adding all martix labels to default recorder
370383	UDS Flashing with ES581 fails
370384	ES581.3 USB latency setting slow down flash performance
370388	ES581.3 CCP Monitoring: Buffer overflow at high busload
370390	ES581.3 Speed-Up does not stop on error
370415	No function of the CSM modules with the ES581.3
370416	ES581.3: No measurement via IPETRONIK or CDM possible if both ES581.3 CAN ports are used. Known issue with ES581.3 solved.
370437	[WBID1677654732] CSE: WB when activate scenario
370449	Known issue: Context Menu Variable Documentation does not work correctly on Win 8 when a PDF file is used - Note: Adobe Reader V10.1.8 or higher required
370452	CDM: Fields in GUI too small for included text
370531	[WBID1087598679] on attempt to open EE
370612	[WBID3202343969] system error on attempt to assign a XCP project
370640	Working page addressing by Inca is not working for CCP
371002	CDM Compare performance improved if BackgroundComparison (BG) is ON (compared to INCA V7.1.1)
371055	Windows move of layer on saving EE
371147	MPM actions for ETK S6.0 seem to do incorrect copy actions - Required ETK D&T V3.11.0 (part of the INCA SP)
371336	Adding LAB files in VSD the name is displayed not completely, if the name contains a dot
371461	INCA freeze during measurement
371606	CDM: [WBID3972003626] at CDM LIST TO CDFX action
371690	Copy action in CDM takes 20 minutes
371694	Configure Output Channels menu item in EE is disabled when CANTransmit configured
371806	Flashing E78 controller - start ProF failed
371943	Recorder does not start
372012	ES581.3: After Flashing of the ECU, the HW initializing do not responds if the CAN 2 is initialized
372305	[WBID1320052639] during open EE with Excel-VBA-Macro
372448	ES581.3: Initializtion freeze if the CAN2 is initialized with a different Baudrate to CAN1
372849	Diagra can not use J2534 interface after INCA V712 was installed
373332	eCDM - INCA hangs when reading huge PaCo file
373347	Targetserver Crash when Initializing ETK S6.0B - Required ETK D&T V3.11.0 (part of the INCA SP)
373362	Flashing transfers false data if using CanCase in case of 4kB block size
373614	EE: Search feature enhanced: CTRL-F --> Find variable which is not in use in current EE. As a result, VSD is opened -- with this string as search filter
2011401036	CAN-Monitoring: Pop up window during measurements
2011408715	Existing layercontent gets not longer displayed, if a new window with new

	variables is added
2012402163	Communication break down using USB Device on Panasonic CF5x
2012402179	Outputs of calibrations are not updated after changing x nodes (solution already shipped with INCA V7.1.1)
2012402276	Searching for a variable in the Display Configuration does not show all instances of that variable. - Already solved with INCA V7.1.0
2012404346	ES581.3 switching On/Off leads to the hanging of INCA
2012404958	ETK S Implementation calibration with calibration extension of 512 KB to 704 KB (TC1791ED)
2012405899	Communication error when trying to upload from memory area 0 of ETK - Note: Solved with ETK D&T V3.11.0 (part of the INCA V7.1 SP2)
2012405925	[WBID1056371263] when associating a XETK project to a XETK HW
2012406096	CDM: Highlight doesn't marked in a red square

5.4 INCA V7.1.1

5.4.1 Recommended Installation

It is recommended to install the update the complete INCA V7.1 with help of the Service Pack (installer) of INCA V7.1 SP 1.

5.4.2 News

5.4.3 New Features

See What's News slides INCA V7.1 SP01 (INCA-V7.1-SP01-Whats-new.pdf)

Summary/Key points:

- XCP-on-Ethernet Flashing (Prof)
- XCP Flashing over Ethernet
- Make timeout for XCP Program_clear configurable in the Prof configuration
- ODX Database for WWH-OBd (ISO 27145)
- Limited EMU RAM - different overlay sizes
- Limited EMU RAM - dynamic calculation of different overlay sizes
- Limited EMU RAM - free no longer used overlay sections

5.4.4 Known Issues

No new issues

5.4.5 Bug Fixes and Improvements

EHI #	Title
87145	Test improvement ASAMMCD3MCDV21: INCA consumes too much RAM using

	MCD3
95691	Wrong file ending for secondary recording format MDF 4.0
98016	[WBID1171579123] when open EE including CSE with inactive labels
98564	It is not possible to initialize ES595 if only Ipetronik is configured
98653	Renaming of Device name in HWC doesn't work with Umlaut (ä, ö, ü) for CSM - OHI integration corrected
100744	ES5xx - CAN-Monitoring Reconnect does not work after Ethernet was disconnected
335355	For special Slew it is not possible to add them to Measure Window
337558	The description for the ETK parameter "ETK steal measurement rasters" is not complete in the Hardware Editor
340153	Osci: Unexpected graphical representation from the axis if axis position is right
341035	[NetWBID2869734893] when using special characters in VSD for renaming widgets
346737	[WBID1188624608] when delete device in ee->hwc (special workspace)
347075	[WBID59071569] while opening INCA Experiment via EE
347545	INCA cannot handle Japanese folder names correctly in DBM
349096	[WBID1309351448] System error during MCE label configuration Note: Requires INCA AddOn MCE V2.0.1 (part of INCA 7.1SP1)
349605	Japanese AUTOSAR CAN DB file is not read correctly
349672	Window focus is changed in experiment when switching layers
350047	Invalid CAN variable is displayed in the VSD
350454	Fixed strings are used in help text of "Monitor bounds visualization" item
351057	Possible to add 2 XCP projects with different baud rates into one CAN controller
351465	[WBID976644063] When assigning project to workspace
351709	CDM Korean file name is not supported.
351870	[WBID1811049737] System error during INCA session
351974	NLS strings for ASAP2 reuse messages are not displayed
352244	"Format" value in the CDM will be emptied after new configuration
352642	[WBID2614014563] when calibrating in EE
352665	XCPonCAN : fail to assign multiple DAQ to single EVENT
352697	Inconsistent naming for old scope
352965	Some items on the Channel Details garbled Japanese characters
353252	[WBID448902737] CDM: The setting ASAM2MC of the compare mode leads to WB during listing of different items
353472	[WBID1030798313] if changing user options during EE open
353645	Inconsistent text in popup closing CDM in EE context
353699	XCP: Unknown MCE Error (MCE_ShadowDevice FW-ErrorCode: 0x80000000) Solution requires an update of the MCE Add-On (min. V2.0.1 required)
353717	Online documentation "Remaining recording time" inadequately described
353729	CDM compare output has too much space lines

353767	IPM Server NIC selection problem after HW power off/on cycle
353768	[WBID2292025523], [WBID2900964476] and [WBID526537052] OpenEE: WBs occurs when adding an axis point after removing an axis point
353769	[NetWBID1380843749] after a sequence of actions
353848	New oscilloscope cannot separate variables having name differences by underscore
353956	View in CDM variable list changes when calibrating a lable
354002	[WBID500456574] when navigation in ECU view (special ECU)
354101	Slows: Slow behavior changed and icon is not being displayed on the proper data set
354189	Additional CAN Transmit device is added when perform replace
354344	INCA V7.0.0 [WBID2252893887] INCA V7.1.0 [WBID3914582808] when opening experiment
354446	[WBID4257230198] System error during adding a2l+hex in INCA
354565	INCA User-Option: Recorderformat = MDF4 , The ASAP3 Option-dialog returns an Error-Message on closing. "Error: Wrong Parameter "
354566	[WBID845251662] on attempt to open EE
354669	[WBID1049526310] if press Strg+5 in any combined editor of the experiment
354890	[NetWBID2805166059] Object reference not set to an instance of an object
355071	When selecting BOA hardware in BUSMASTER, the hardware is not found
355262	SYS_CONST not visible in ASAP2 Editor
355263	MCD 3 MC V2.2 : Internal Error bei IMCCollectors.Add
355334	[WBID971617169] when trying to save DB>4GB as Inca 5/6 DB
355441	[WBID1830517044]after using Create Empty Dataset
355529	IPM: DHCP-Check when the DHCP Server provides IP addresses in the APIPA range reserved by Microsoft
	The check is switched off (like INCA V7.0.0HF14 and former versions). The pre-condition is, that the NIC used for IPM Server has the IP address in APIPA range (169.254.0.1 - 169.254.255.254).
355604	After saving an experiment the modified values are getting lost
355609	Issue changing values of curve and scalar parameters
355641	Wrong direction of changing phys value
355683	[WBID4084274371] Osci corrupts experiment
355748	Adaptation of the CAN wrapper of the CSM AddOn for INCA V7.1
355826	LimitedEMU: Upload has different HEX data than expected
355862	[NetWBID167725091] when open customers project EE
355890	Searching for variable under "record only" does not list the searched variable on the right hand side of variable select window
355891	[WBID3462124558] when opening the experiment
356055	Conversion file uses wrong ASAP2_VERSION
356192	Focus on wrong label when moving labels using Alt+F10
356199	Server Busy message and Walkback encountered when using UFE "Force

	Running Reset"
356343	Wrong timestamp in the recording of CAN bus with ES690 and 3rd Party AddOn
356426	The configuration of the Ethernet adapter has changed
356462	INCA V7.1.0 and immediate MDA V7.1.0 Installation is not possible - Solved with MDA V7.1.1
356465	Reconnection fails if at first startup of Workspace the HW was not present
356490	[WBID3507640661] when init ETK S6
356559	Not possible to initialize connected modules (ES581.3, Vector Cancase VN1630)
356586	A1b.DK: The provided binaries in the subfolders of XML are not up-to-date Note: Shipped with an updated INCA HWI-DK-Product (7.1)
356587	A1b.DK: Extend the package by a new example and adapt the current documents to them Shipped along with INCA HWI-DK - synchronized with INCA V7.1 SP1.
356594	VSD - difficult to read color combinations (text / background) for raster info
356598	[WBID715207463] when switching to working page
356615	CDM output folder is changed without intention of the user
356621	Update from "About Info" does not work correctly when CDM and Label Viewer is at the same time visible
356641	Connection to ECU broken after automatic firmware check
356654	INCA SP Installer V1.0: Improve English phrasing
356667	Command PARAMETER FOR VALUE AQUISITION changes Raster of measurement in EE
356915	INCA SP Installer V1.1: Support of INCA V7.1 Service Packs with INCA V7.1.x/INCA V7.1.x AddOn installations
357075	Flashing UDS fails (customer-project)
357107	Database folder, file name not supported Korean typing
357131	CDM WBs ([WBID2415885070], [WBID4035783185]) after API-Access
357188	IPM Server configures ETAS network in the last known CN subnet address range
357210	XCP-Download to working page (WP) is not possible
357255	Focus is changed in VSD
357377	LimitedEMU: ETK-S4.2C page switch error, when using DRA page switching with zero active calibration handles
357384	LimitedEMU: ETK-S4.2c: Target Server crash when LERT is deleting active calibration handles from ETK driver
357389	[NetWBID1387878443] Walkback when attempt to launch help from Recording tab of Recorder Configuration
357926	2d representation of curve is wrongly initialized
358399	Connected modules are not initializable (ES581.3, ES590)
358625	[WBID177740905] when opening experiment

358635	Naming conflict in German about the CDM in experiment environment
358706	J2534: System Error occurs if you select the J2534 device on the HWC
358761	Feature: XCP on Ethernet Flashing
358768	VSD selection performance is not linear
358772	Make timeout for XCP Program_clear configurable in the Prof configuration
358790	OpenEE: Pasting a valid scalar value in a customer instrument is not working
358995	LimitedEMU: Error connecting INCA/LERT V2 to ETK configured with LERT V3
358999	LimitedEMU: TgtSvr Crash when connecting INCA LERT V2 with ETK configured with LERT V3
359068	[NetWBID2371750740] can occur when changing border to polygon during visualisation
359074	All variables are kicked out and missing message "<GMHM Error>ETKC:1 not connected Communication error" when open special workspace
359133	[WBID1995202784] when adding some special variables to EE
359164	[WBID3459799566] INCA V7.1.0 System error opening Experiment
359167	[WBID23588784] INCA V7.0.0: System error opening Experiment
359168	Not able to read information text in pop up window
359219	[WBID1755757732] When adding some special labels to experiment
359293	[WBID2375067316] when adding some special variables to EE
359313	LimitedEMU: LERT_V3_GET_MEMORY returns handle with ID -1
359362	[WBID172707040] when clicking on a special layer in converted ee
359411	[WBID2353725686] when starting visualization
359607	[WBID2818652063] when adding some variables belonging to ETKC device to EE
359619	[WBID2131658443] WB while re-grouping of ECUs
359626	Drawings are disappearing when osci is stopped and zooming into drawing area
359724	VSD: automationId for search text box not available
359761	Undo from Calibration Actions in the Scalar Table Editor does not work for Grouped Devices
359811	INCA SP Installer V1.0: Installer hangs if access to installation is broken
359924	CSM Addon for 7.1.0 does not install with INCA 7.1.1 (INCA 7.1 SP1)
	Note: Requires an updated version of the CSM-Addon (tested with V2.33)
360408	[WBID91755544] EtasSlewingToolbox - after selecting special Project
	Requires also an update of Slewing Add-On
360417	[WBID1167443177] after reading same Data Transfer File again as source
360477	INCA-EIP V7.1.0: Tables are removed from Experiment when saving without HW connection
360539	XETK_S4.2 ETKAccessDll exception occurs when XETK S4.2 is initialized
360688	ETK reconfigure dialog blocks regressions tests and causes unexpected behavior and ETK status
360880	[WBID3329588264] when reading in DCM files into Exp

360943	LimitedEMU: Correct Package for LERT V3 is missing or not installed correctly in INCA V7.1.1 beta 3
360956	OpenEE: [WBID2818652063] when copying a variable from a customer instrument to a combined editor
361036	Slews: Slew behavior changed and icon is not being displayed on the proper data set
361151	[WBID2818652063] When adding calibration variables to experiment
361193	[WBID1600904071] when trying to open EE containing some customer instruments
361195	Measurement with XCP not possible with CPC-NG (ECU) and INCA V7.1.0
361253	[WBID3245040113] when changing source dataset in CDM if inline editor is displayed
361293	System error while loading a new DCM
361294	[WBID1167443177] when deleting variables in CDM if inline editor is in use
361333	"Internal error during restoration of recording files!" or "etas target server recover file dialog" after successful multirecording saving, close and reopen EE (MDF3 indexing off)
361338	INCA switches wrongly the calibration page after flashing
361465	Flashing with ES580 and Inca V7.1.0 is not possible
361786	[NetWBID2805166059] WB while ALT-T from new oscis
362102	[WBID2935521719] when try to open special EE
362123	CDM: After using Filter in CDM the About Info and the Inline Editor was not updated
362181	[WBID2375067316] when try to add special label to EE
362220	[NetWBID2243372993] when try to change multi selected messages for a Measure Window via VSD
362318	[WBID3269616446] Memory optimization message and walkback when open and close experiment multiple times
362614	INCA SP Installer V1.1.0.x beta: The SP installer in "JP" folder do not find INCA V7.1.0
362630	Calibration Page is wrongly switched after flashing
362633	"Show Data Freeze message box" typo in option description
362769	[WBID136555192] when try to create old YT osci together with a border
362830	OHI Error Message when try to open EE with Lin Device
	Note: Requires INCA Add-On LIN V7.1.1 (part of INCA V7.1SP1)
362927	Possible that FlexRay EE is not usable because no label is available
	Note: Requires INCA Add-On FlexRay V7.1.1 (part of INCA V7.1.0SP1)
363129	ASAP3.exe System error when starting Client Setup
363410	[WBID3858905214] whenever I try to read ECU project via eCDM
	Note: Requires INCA AddOn QMBasic V7.1.1 (part of INCA V7.1 SP1)

363432	[WBID927381850] when starting a Copy action Note: Requires the INCA AddOn QMBasic V7.1.1 (part of INCA V7.1SP1)
363440	Limited EMU RAM - enhancement with INCA V7.1 SP1 Support of variable section size (see also What's New slides of INCA V7.1 SP1) - different overlay sizes - dynamic calculation of different overlay sizes - free no longer used overlay sections
363443	eCDM Performance Improvement for INCA V7.1 SP1 Better Performance for data exchange of A2L + Hex + CDF file
363498	ES590: XCP Measurement not longer working
363510	[WBID1830318832] after removing Rescale Pair from a Rescale Axis Pairs used by Grouped Devices
363521	eCDM: WB [WBID4035878948] when starting a list action to an ECU project read via eCDM
363682	[WBID875378039] (INCA V7.1.0)/ [WBID2704107310] (INCAV7.0) INCA crashes at "List" or "Compare" action in CDM
363824	[WBID3972003626] occurs when starting copy action
364077	IPM server package 16.1.6 or 16.1.7 not registered
364177	Icon of OnlineFirmwareCheck incorrect in HWC for ES592/ES593/ES595/ES581
364292	INCA freeze while working in VSD
364299	[WBID1478058315] on attempt to read the CAN-db
364303	[WBID172707040] while working in the EE
1003923	In VSD, the raster percent fill is not displayed
1004035	Cannot add variables from GMLan with experiment in offline mode
2011405120	[WBID3235928131] using IPETRONIK AddOn in INCA
2011405437	[WBID2252893887] using experiment with IPETRONIK AddOn
2011406089	Compare is not executed in background task
2012404411	[WBID1524229236] System Error on deleting ETK or device in EE
2012404490	Layer tab-width gets wider on Windows7 (Japanese display language)
2012405330	API-Tool cmd SetDoublePhysValue return code incorrect
2012405629	INCA switches page after Flashing ECU
2012406097	By using a triggered measurement with lead time listening to the generated data file for certain measures the time stamps on about 10s before

6 **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

