DRIVING EMBEDDED EXCELLENCE

INCA V7.2.17

Release Notes

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1 Introduction

Dear customer, in this file you will find the latest information about our product INCA V7.2.

IT IS NECESSARY TO UPDATE ALL FIRMWARE USING HSP V11 PRIOR TO USING INCA V7.2 WITH HARDWARE

(Note: With each INCA Refresh, Service Pack the corresponding HSP V11.x version must be used, available on the ETAS Download Page)

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	**K**nown **I**ssue **R**eport – For severe Problem Reports which occur after a release, ETAS has introduced the Known Issue Report to inform affected customer immediately. The current Known Issues of former versions can be found on the ETAS website: http://www.etas.com/kir
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 setup.exe`	Text in drop-down lists on the screen, program code, as well as path- and file names are shown in the Courier font.
A *distribution* 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 7.2 → Manuals and Tutorial.**

2 Product Definition

2.1 Functions at a glance

New functionality of INCA V7.2 is listed in the overview "INCA-V7.2-Whats-new.PDF".

You find the overview "INCA-V7.2-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.

Important: With release of INCA V7.2 SP13.1 the new ETAS Safety Advice is available with the following additional languages: Belarussian, Russian, Ukrainian, Vietnamese, Thai, Traditional Chinese, Indonesian, and Hindi. Please read it carefully.
The ETAS Safety Advice is displayed during start of INCA (Disclaimer) and it is available in `ETAS_Safety_Advice.pdf` in the folder `\Documentation\ReleaseNotes\`of the installation package (ZIP file)
or after installation of the INCA Service Pack in
Program-Menu -> ETAS -> INCA 7.2 ServicePack in the folder `\ReleaseNotes`.

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® 8 (32 / 64 bit*) and Windows® 8.1 (32 / 64 bit*) Windows® 10 *) INCA uses the 32bit compatibility mode on a 64-bit operating system. (English, French, Japanese, Chinese and German OS version supported) Note: The support of Windows® 7 was discontinued with INCA V7.2 SP16, and the support of Windows® Vista was discontinued with INCA V7.2 SP5. (Details: see INCA-V7.2-Whats-new.pdf)
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 16 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® 10 64 bit (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: - 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 privileges, please refer to the `INCA_InstallGuide_R7.2_EN.pdf` chapter "Privileges").
- If the user wants to switch between INCA 7.2 and former INCA versions than 7.1 on the same PC (like INCA 7.0 or former), the COM server settings in the Windows registry are re-registered with each switch. Therefore to switch the INCA version the user needs Admin rights to the PC. If only one INCA version is used this is not necessary.
  This is 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® XP, WINDOWS® 95, WINDOWS® NT, WINDOWS® 98SE and WINDOWS® 2000 are not supported. Support of Windows® Vista discontinued with INCA V7.2.5.

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 V7.2.0 introduces a new version of the target server component.

For this reason, with INCA V7.2.0 and former versions of the ETAS Experiment Environment (not release for operation with INCA 7.2) simultaneous online operation will not be possible. E.g., if during bypass operation, INCA V7.2.0 is used to measure and to calibrate on an ECU, the Experiment Environment not released for operation with INCA 7.2, cannot access the corresponding prototyping hardware (e.g. ES910) at the same time.

Recommendation:

- Use former INCA versions for such use cases.
- Use such versions of the Experiment Environment, LABCAR-OPERATOR and INTECRIO which are released for operation with INCA V7.2.0.

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

The latest version of the INCA manuals in PDF format is part of each INCA Service Pack and installed onto the computer.

2.3 Delivery

The INCA software is delivered with an automatic installation routine on a DVD (or ZIP – file) 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 V7.2 installation** first. The Hardware Service Pack (**HSP V11.0.0 Installation**) has also to be installed for proper operation.

2.3.1 Used 3rd Party Software

The 3rd Party Software used by INCA, its add-ons and components is listed in the documentation in the folder \Documentation\OpenSourceSoftware.

The Open Source Software Attribution documentation (PDF) of INCA covers INCA but also almost all of the INCA add-ons and components shipped with the INCA Service Pack.

For all other products and components check the separate Open Source Software Attribution documentation within this folder.

The documentation of hardware related Open Source Software Attributions are shipped with HSP (Hardware Service Pack) and can be found within the corresponding folder there.

2.4 Installation

For details on installation select (after the automatic installation started from DVD) **Documentation → Getting Started INCA V7.2**, Chapter "Installing the Program" (or in INCA_Manual_R7.2_xx.pdf, Chapter "Installing the Program").

Please check also Chapter *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

- **Very important:** After the installation a reboot of the computer system is required.
- MDA V7.2.0 is now shipped with the INCA 7.2.0 DVD and installed automatically with the INCA 7.2 Service Pack installer (might be unselected during installation).
- 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 V11.0 PRIOR TO USING INCA V7.2 WITH HARDWARE.

The Hardware Service Pack (HSP) V11.0 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 Tools

Configuration support of ETK/XETK modules is provided by a separate add-on 'ETK Tools' (important hint: the ETK configuration tool and XCT are only available, when the add-on is installed).

This installation medium contains the latest version of the 'ETK Tools' add-on available on the date this INCA version is released. The add-on might be installed automatically during the installation of INCA Service Pack (has to be selected). For new versions of the 'ETK Tools' add-on please check our website. It is also part of the INCA Service Pack.

2.5 Licensing

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

MDA and the INCA Add-ons could be installed automatically with help of the INCA Service Pack Installer by selecting the corresponding products during installation.

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 V7.2.

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 the INCA-V7.2-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 V7.2 or 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 general set of known problems of the released version of INCA V7.2.0, valid for all INCA 7.2.x releases.
For version specific new and solved known issues see the corresponding section in the version history below, please.

3.4.1 Software related Items

Problem Number	Title
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 - accumulation 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.
EHI #514755	Computer might freeze during recording in case of outdated network card driver. In case update to the latest version, please.
EHI #436577	Calculated Signals, Perl: The file "Limits.pm" has been removed from "ETASShardedxx\perl586\site\lib\PDL\Graphics\". In case you make use of the Perl functions of this file (e.g. for calculated signals), please download and install this file from the official Perl PDL distribution page in the internet (http://pdl.perl.org/). Note: No change planned.
EHI #426483	Starting measurement with unconnected XCP on Ethernet takes a lot of time. Note: this is a standard behavior of Ethernet communication. Not solvable in INCA. Workaround: Open the EE in offline mode ("Experiment without full HW-access"). No change planned.
EHI NA	INCA Add-Ons (or INCA engineering Add-Ons) which are not part of the INCA Service Pack has to be updated manually to avoid unexpected behavior. Not updated Add-Ons might lead to system errors or wrong results
EHI #449628	CDM: Calibration of values might be very slow (15 Sec for one inc/dec step) in case of instant compare together with a large number of (sub)groups+(sub)functions and working in function mode and all functions are used. Workaround: Disable instant compare. No change planned.
EHI #436256	WIN8.1 INCA installation does not progress, if .NET4.5.2 is not installed Note: Win8x has always .NET45 "on board", additional update to .NET4.5.2 may not run successful if -> a msi installation (e.g. Win update) is already in progress. -> a (pending) reboot is required from a previous installation and blocking desired .NET452 update. Workaround: Before installing any INCA V7.2.x on Win8x, ensure to enable/install "windows feature" .NET3.5. (windows setting) Finalize any Window-updates and reboot your system before installation of INCA V7.2.0 and INCA V7.2 SPx.

EHI #NA	Usage of virtual PC machines. The usage of INCA on a virtual machine (VM) is restricted and not recommended. ETAS recommends to use real PC hardware: O The VM needs sufficient working memory (RAM), otherwise the performance of INCA goes down O Access to sufficient graphic card memory (Direct X) is necessary, otherwise the oscilloscope representation of measurement signal is not possible O Access to hardware interfaces Ethernet, USB, PCMCIA, … is necessary, otherwise INCA cannot use the connected hardware O Measure samples may be lost and the accuracy of time stamps is not guaranteed as the higher task priority for hardware access (Target Server) is not given O ETAS does no special tests concerning VM machines No change planned.
EHI #NA	INCA Add-Ons (or INCA engineering Add-Ons) which are not part of the INCA Service Pack has to be updated manually to avoid unexpected behavior. Not updated Add-Ons might lead to system errors or wrong results.
EHI #587715	INCA V7.2.8: CAN-Monitoring: Complex AUTOSAR signals are not supported for ES590/ES591/ES690/ES1222. New INCA AUTOSAR features that have been introduced with INCA V7.2.6 and V7.2.8 are not supported by the CAN-Monitoring driver for the following devices: ES590/ES591/ES690/ES1222. Signals of complex AUTOSAR structures like e.g. Container PDUs or Multiplexed-I-PDUs can be selected in the INCA Variable Selection Dialog, but cannot be measured due to their more complex AUTOSAR structures. No measurement data will be displayed and an error message will be printed in the INCA monitor window for unsupported AUTOSAR signals.
EHI #550011	Devices ETK-S20/ETK-S21/ETK-S22: Incorrect ECU status is shown in the INCA EE during ECU power loss The ETK devices ETK-S20/ETK-S21/ETK-S22 in case of MCU power off and ETK still supplied with power are actively driving the MCU reset, which could lead to the status information inside the INCA EE of "ECU in reset" instead of "ECU off". The behavior was not changed to the new INCA version. The behavior to other serial ETK devices could differ in this use case though because of a different ETK reset handling.
EHI #564713	Setting of CAN-FD Transceiver delay compensation (ON/OFF) shall be consider in the J2534/MDI2 device implementation. Configuration of this parameter in INCA-HWC will be ignored. CAN-FD Transceiver delay compensation configured in INCA HWC will be ignored, since the J2534 standard interfaces does not provide an interface to allow configuration of this parameter on device.
EHI #550426	ES720 Drive Recorder: Deactivated "Stop Trigger" from INCA V7.2.2 is not respected in INCA V7.1.x ES720 Driver Recorder with INCA V7.1.x software does not respect the stop trigger exported from INCA V7.2 and evaluate it wrongly.

	Workaround: Remove the "Stop Trigger" condition in INCA V7.2 before the export for the drive recorder.
EHI #563090	Sporadically happens that the datalogger could not be activated and then stop simulation is not working. Then an update of the Windows Universal CRT might be required. The Windows Universal CRT Dll is a component of the Windows Operating system and updated with Windows OS. Details see: https://support.microsoft.com/en-us/help/2999226/update-for-universal-c-runtime-in-windows

3.4.2 Hardware related Items

Problem Number	Title
NA	NA

4 Hints

4.1 Compatibility with other INCA versions

- INCA V7.2 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 V7.2
  - Projects created in former INCA 7.0/7.1 versions can be reused
  - Up and downward* compatibility allows using INCA in distributed development projects

    * Known exceptions are:
    Experiments updated to INCA V7.2 cannot be used with INCA 7.0 or former versions. A back-porting mechanism is available, which replaces oscilloscopes by measurement tables.

5 Version History, Refresh and Hotfix Information

The INCA 7.2 Service Packs (SP) updates (or downgrades) a former INCA 7.2 installation automatically, in case INCA V7.2 is already installed. The INCA V7.2 base installation and INCA Add-On installations will be updated with help of the INCA Service Pack.

If INCA V7.2 is not installed, it is highly recommended to install immediately the latest INCA V7.2 SP (there is no installation of INCA V7.2.0 or another former INCA version required).

Important: The automatic update requires a corresponding INCA V7.2 installation (but it is also possible to install an INCA V7.2 SP without a previous installation of INCA V7.2)

An INCA 7.1 installation has to be updated manually to INCA 7.2 (like a new installation).

All refresh software updates (shipped with INCA 7.2 Service Packs) are cumulative. The most recent refresh incorporates any changes introduced by previous refreshes.

The following issues have been fixed with INCA V7.2. History is listed in reverse order.

5.1 INCA V7.2.17

5.1.1 Recommended Installation

It is strongly recommended to update and down date INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack Installer.

Very important: After the installation, a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.1.2 New Features and enhancements

- All news of the INCA V7.2 Service Packs see INCA-V7.2-Whats-new.pdf.

5.1.3 Known issues of INCA V7.2.17 – Important Hints

- #636459 Calculated Signal RSFlipFlop shows wrong values
  If more than one RSFlipFlop is used in *Calculated Signals* the result is getting wrong. Independent if more than one RSFlipFlops are used in one "Set" or in different "Sets".
  Affected INCA Versions: All versions supporting RSFlipFlop.
  Issue is solved with INCA V7.3.1 and higher.
- Important hint about **INCA / MDA Support Stop of Windows 7**
  Microsoft announced the end of the Extended Support for Windows 7 by January 14, 2020.
  Therefore, ETAS discontinued the development and maintenance of Windows 7 support for INCA V7.2 SP16 and higher.

  For more details see
  `- Maintenance Stop INCA Windows 7 EN.PDF` or
  `- Maintenance Stop INCA Windows 7 DE.PDF`
  in the folder `\Documentation\WhatsNew\`of the installation package (ZIP file) or after installation of the INCA Service Pack in
  Program-Menu -> ETAS -> INCA 7.2 ServicePack in the folder `\WhatsNew`.

- Known issue with new feature *64Bit Integer Support*
  IF
  calibration is done in the INCA experiment or CDM
  AND
  a parameter of type 64Bit Integer is used
  AND
  the parameter holds a value that needs more than 52 bits for representation
  AND
  the user changes the values
  AND
  uses afterwards 'undo'
  THEN
  INCA does the 'undo' with the physical representation of the former value. The result is a 'casted' value that has less precision as the original former value.
- #596696 XCP V1.4 - Compatibility of XCP 1.4 with former INCA versions: A2L files containing XCP 1.4 cannot be used in INCA V7.2.7 and former versions at all, even not for other protocols (e.g. if containing CCP, UDS, KWP2000, ETK etc. descriptions).
  Workaround: Remove the XCP V1.4 part to use other parts of the A2L file
- #603952 API: Trigger Condition is not taken over correctly - though command is executed with True
  and
  # 601299 Complex trigger condition cannot be set using the COM-API
  Due to Call 601299 now an API Error is returned if Trigger Parse did not parse until the end. This is required as else parser fails and INCA would run into following error/ random condition. In this case the Parser stops because of blanks in Device Name.
  Workaround: Rename Device Names with blanks to Device Names without blanks. This is required in HWC and in API - calls.

5.1.4 Known issues solved with INCA V7.2.17 – Important Hints

- #633290 ProF name is not visible in the Path Select Dialog.
  Side effect from the performance improvement for call *#618135 Zip-file in folder or path of PROF-files slows down the selection of the config.*
  Solution of INCA V7.2.17: #618135 reverted.
  INCA V7.3 will get a complete new dialog, which solves both calls.

5.1.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
609926	[WBID2840447704] IDispatch call returned an exception. ErrorCode: 0x80131600 Source: Etas.Base.Shared. ExceptionInDotNETCOMServer_KeyWord - NetWBID1971169032
615704	MDF format switching is not successfully executed by API
628288	VUI_ Slider Editor_font size of variable name and value not plausible
630679	Several Shortcut ALT + key leads to unintended set of a Bit in Bitmask Widget
630699	CDM_ after "Connection to ASAP2 project" of file wrong compare result
631269	INCA wrong resizing of value field and updown control in calibration window with silder editor and display unit activated
631347	ComReg --unreg should unregister all detected IPManager versions
632510	CDM: INI files generated from CDM are not saved with the proper data. When reloaded, CDM shows wrong data
633290	ProF name is not visible in the Path Select Dialog
633722	CDM: WB duing CDM copy action. [WBID2181148066] Store into read-only object.
634016	ProF ECU flashing with XETK/FETK (including dmETK in FETK mode) fails in case of an inconsistent device configuration for XCP target access. Consequently also disabling the MCU Software Watchdog Timers failed.
634305	CalculatedSignals: Package version number not incremented in the INCA V7.2.16 and higher. Note: Due to no further change version frozen to [7.2.15.113]
634524	UFE button greyed-out when Non-UFE controller on top of HW config hierarchy tree
634722	INCA_does not read a2l (generated by DAMOS++) with unused COMPU_VTAB when NumberValuePairs is 0
635469	Cuboid: Hard bounds exceeded when copying a CDFx or dataset into a dataset
636309	CDM Copy data and QM-Basic entry from cdfx-file to dataset, then in the standard copy history entry the source is missing

5.2 INCA V7.2.16 HF1

See also section INCA V7.2.16

5.2.1 Known issues of INCA V7.2.16 HF1 – Important Hints

- See section INCA V7.2.16

5.2.2 Known issues solved with INCA V7.2.16 HF1 – Important Hints

- See also section INCA V7.2.16
- #634016 ProF ECU flashing with XETK/FETK (including dmETK in FETK mode) fails in case of an inconsistent device configuration for XCP target access.
  If
  INCA V7.2.16 or INCA V7.3.0 is used for ProF ECU flashing
  AND
  the XETK or FETK or dmETK in FETK mode are used
  AND
  the ProF-Flow contains the command ETK_FPRG_COMMAND
  with following command parameters param1=3, param2=4, param3=7
  AND
  the according memory area for the XCP based 32Bit memory access is not configured for the device (A2L, ProF device hardware reconfiguration)
  THEN
  flashing will fail.

  Affected INCA Versions: INCA V7.2.16 and INCA V7.3.0
  Note: All ETKs are not affected.

  This was a side effect from
  #631750 FETK/XETK: Disable Watchdog impossible because current INCA does not support to write to SPI Register via ProF script
  introduced with INCA V7.2.16 and INCA V7.3.0
  This change was reverted. Solution of #631750 is planned by adaptation of the ProF Skript.

5.2.3 Bug Fixes and Improvements

EHI #	Title
634016	ProF ECU flashing with XETK/FETK (including dmETK in FETK mode) fails in case of an inconsistent device configuration for XCP target access. Consequently also disabling the MCU Software Watchdog Timers failed.
631750	Reverted.

5.3 INCA V7.2.16

5.3.1 Recommended Installation

It is strongly recommended to update and down date INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack Installer.

Very important: After the installation, a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.3.2 New Features and enhancements

- All news of the INCA V7.2 Service Packs see INCA-V7.2-Whats-new.pdf.

5.3.3 Known issues of INCA V7.2.16 – Important Hints

- Important hint about **INCA / MDA Support Stop of Windows 7**
  Microsoft announced the end of the Extended Support for Windows 7 by January 14, 2020.
  Therefore, ETAS discontinued the development and maintenance of Windows 7 support for INCA V7.2 SP16 and higher.

  For more details see
  `- Maintenance Stop INCA Windows 7 EN.PDF` or
  `- Maintenance Stop INCA Windows 7 DE.PDF`
  in the folder `\Documentation\WhatsNew\`of the installation package (ZIP file)
  or after installation of the INCA Service Pack in
  Program-Menu -> ETAS -> INCA 7.2 ServicePack in the folder `\WhatsNew`.
- Known issue with new feature *64Bit Integer Support*
  IF
  calibration is done in the INCA experiment or CDM
  AND
  a parameter of type 64Bit Integer is used
  AND
  the parameter holds a value that needs more than 52 bits for representation
  AND
  the user changes the values
  AND
  uses afterwards 'undo'
  THEN
  INCA does the 'undo' with the physical representation of the former value. The result is a 'casted' value that has less precision as the original former value.
- #596696 XCP V1.4 - Compatibility of XCP 1.4 with former INCA versions: A2L files containing XCP 1.4 cannot be used in INCA V7.2.7 and former versions at all, even not for other protocols (e.g. if containing CCP, UDS, KWP2000, ETK etc. descriptions).
  Workaround: Remove the XCP V1.4 part to use other parts of the A2L file
- #603952 API: Trigger Condition is not taken over correctly - though command is executed with True
  and
  # 601299 Complex trigger condition cannot be set using the COM-API

Due to Call 601299 now an API Error is returned if Trigger Parse did not parse until the end. This is required as else parser fails and INCA would run into following error/ random condition. In this case the Parser stops because of blanks in Device Name.
Workaround: Rename Device Names with blanks to Device Names without blanks. This is required in HWC and in API - calls.

5.3.4 Known issues solved with INCA V7.2.16 – Important Hints

- #631013 CDM writes sometimes unexpected values during CDM listing to the data exchange file (e.g. DCM, CDF, PaCo, CVX)
  IF
  CDM is used in parallel to INCA-Experimental Environment (INCA-EE) with running measurement or recording
  AND
  CDM Listing-, CDM Compare- or CDM Copy-action is executed
  THEN
  it is possible that the result contains wrong values, which are displayed or written to the data exchange file.

  Notes: INCA V7.0 up to INCA V7.2.15 is affected.
  Appearance of the issue is more likely, the more items in the EE are displayed and updated in parallel to the CDM action.

  Workaround: Stop the measurement or recording in the INCA-EE and then execute the CDM-actions
  OR
  Write the "data exchange file" directly from INCA-EE without CDM.
- #625918 WB in CDM "Multi-column" when moving columns: [WBID34407603] UndefinedObject does not understand longName
  If you use CDM in Multi Column View
  AND
  you select a column by clicking to the column title
  AND
  you move the selected column to a value field inside CDM
  THEN
  a WB may occur
  To avoid the problem do not try to move the columns of the multi column view in CDM
  Note: The solution is planned with INCA V7.2.16 and V7.3.0.
- #597666 Possible data loss with ES4xx devices in case of high load situations (e.g. high data rates) AND a second network card connected to the company network
  Solved with INCA V7.2.16 and INCA V7.3.0.
  Nevertheless, it is recommended to switch the company network off, to avoid data loss in case of high data rates. Such data loss might be caused by some repetitive computer management tasks (e.g. by IT departments) which are scheduled when the computer is connected to a company network.
  Known issue: Data loss will still occur with Intel® Gigabit-CT-Desktop-Adapter; Product Code: EXPI9301CTBLK or EXPI9301CT. In case it is recommended to

exchange it. ETAS released this fix with Delock PCI Express Karte > 1 x Gigabit LAN; Item No: 89156 (https://www.delock.de)

- 603992 Recorded CHARACTERISTIC value is always set "0" if "Calibration Recording" with MDF3 is used with a BIT_MASK and BIT_MASK is not set on LSB (0001) but higher Bits (e.g. 0010).
  If
  MDF3 for Calibration Recording is used
  AND
  BIT_MASK is used for Calibration with CHARACTERISTIC
  AND
  the bitmask is not set to the LSB (*least significant bit*) but a higher bit position
  THEN
  the recorded value of the Calibarion is always zero (0).
  Note: Calibration works correctly.
  Workaround:
  - Use MDF 4.
  - Workaround for MDF3: Use an "outputsignal" for recording the calibration.
  Note: This issue is with INCA V7.2.16 and INCA V7.3.0.

5.3.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
596905	[WBID3155437212] RBVUIMoveAndScaleWrapperWithText does not understand storageVUIObject:
597666	Possible data loss with ES4xx devices in case of high load situations (e.g. high data rates) AND a second network card connected to the company network. Solved with INCA V7.2.16 and INCA V7.3.0.
603992	Recorded CHARACTERISTIC value is always set "0" if "Calibration Recording" with MDF3 is used with a BIT_MASK and BIT_MASK is not set on LSB (0001) but higher Bits (e.g. 0010).
616858	Missing data values have been detected during measurement
616896	[WBID3523642367] UndefinedObject does not understand tabList
619470	Using of Display_Indentifier leads to manual trigger after reloding the EE
620381	CAN-FD-project -INCA doesn't display all "TRANSPORT_LAYER_INSTANCE" from A2l file
621369	ES4xx devices lost channel information.
621777	CDM: WB([WBID1256181380] Primitive failed in: Object>>#at: due to Index out of range in argument 1) when type in Character in Multi Column CDM List without selected Label
622028	INCA-EIP calibration editor hanging
624792	INCA-CANTransmit: Rate Range does not match documentation
625505	[WBID2725107926] System error on attempt to close CDM

625903	ETK not connected error when initialising HW the first time subsequent to assigning new SN for the ES891 in the mapping dialogue. Recommendation: Click "OK" on mapping dialog.
625918	WB in CDM “Multi-column” when moving columns: [WBID34407603] UndefinedObject does not understand longName
626774	[WBID1166204626](ExCLDTIndexOutOfRange) Index out of range. Note: Solved with INCA V7.2.15
626798	INCA freezes sporadically if a start-stop is detected during measurement
627198	No values from device FETK when two FETKs are connected on an ES89x device.
627397	INCA V7.2: No linear formula in INCA for AUTOSAR files V3.2.2
627703	Unable to reset enumerated axis map to reference page values for selected area
628273	BR_XETK-S40_ Flash driver does not start
628432	INCA-CANTransmit: Missing samples on USB Devices
628489	Invalid parameter detected: CAN_SEND_CYCLIC_MESSAGE_START” message
628771	ServicePackInstaller: Changing UI language improved for 64 Bit installations
628913	Text fields in VUI changes position undesired
629110	Update references INCA Release Notes / Installation Guide according privileges
629293	Remove AML V2.6.0 support: Prevent AML V2.6.0 can be used erroneous in INCA V7.2.16 and later.
629301	ETAS License Manager: Returning a License does not work without .lic-file
629513	FETK-S1.1: No error message if too many Trace windows with the same core are defined. Note: Solved with HSP V12.0.0
629596	Switching layer in experiment: [WBID1798690937] Primitive failed in: PlatformFunction>>#callWith:with:with:with:with: due to Value out of range in argument 4
629995	Data cannot be transferred to PC
629998	NeoVI Fire 2 displays UUID error in INCA due to outdated "ocdj2534can.dll". Recommendation: Rename to to "ocdj2534can.dll.old" in "C:\Program Files (x86)\ETAS\ED-EBI_V2\Bin\Win32\Dll".
630051	P3max setting causes Seed request error
630157	If ASCET 5.2.2 is installed in parallel, the old IPM-Server gets registered
630227	[WBID3329787912] UndefinedObject does not understand byteAt: + [WBID3421345940] UndefinedObject does not understand byteAt:
630327	XETK-S21.0B "Error in XETK Protocol driver: XCP Communication error" occur after HSP changed from V11.5.1 to V11.14.0
630413	Usage of ES1135 with ASAP3 causes [WBID3910621239] (ExCPMStackOverflow) A stack overflow has occurred.
630475	Huge delay when opening experiments which contain HWI.DK/OHI devices with many signals
630730	Slews not zeroing on import and export
631013	CDM writes sometimes unexpected values during CDM Compare, CDM Copy and CDM listing to the data exchange file (e.g. DCM, CDF, PaCo, CVX)
631750	FETK/XETK: Disable Watchdog impossible because current INCA does not support to write to SPI Register via ProF script INCA V7.2.16 and higher supports now 32 bit write accesses to the ECU memory via the ProF script. This can be used e.g. to write to SPI register in order to disable the ECU watchdog in preparation for ECU flashing. Addendum April 21, 2020: Reverted with INCA V7.2.16 HF1. See *“Known issues solved with INCA V7.2.16 HF1 - Important Hints”.*

5.4 INCA V7.2.15

5.4.1 Recommended Installation

It is strongly recommended to update and down date INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack Installer.

Very important: After the installation, a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.4.2 New Features and enhancements

- All news of the current INCA Service Pack see INCA-V7.2 SP15 -Whats-new.pdf.
- ETAS License Manager (LiMa):
  The new LiMa V1.7.3 provides the possibility to manage licenses via command line.
  The most important enhancements are:
  - Borrow licenses
  - Return licenses
  - Activate / configure / deactivate Auto-Borrow for licenses
  - Backup and restore the license status
  - This is possible for single features (e.g. one single INCA Add-on) or on product level (e.g. INCA and all add-ons)
  - This functionality is available for all products using LiMa V1.7.3.

  Borrow and return licenses is also available in the GUI of LiMa. However, with two small batch-files with the corresponding command lines, there is now a one-click solution available to borrow or return licenses with a predefined duration.

  More information is available in `LiMa_ManageLicencesCMD_EN.pdf` in the folder `\Documentation\Manuals\`of the installation package (ZIP file) or after installation of the INCA Service Pack in **Program-Menu -> ETAS -> INCA 7.2 ServicePack** in the folder `\Manuals`.
- EATB – Connect to INCA
  Evaluation of the last recorded data with EATB. An installation of EATB V4.1 or higher is required to start analyzing measure data from the INCA Experiment. INCA automatically uses the highest installed version of EATB.
  The release of EATB V4.1 is planned in Q1/2020.
  Note: When EATB V4.0 or earlier is installed no analysis is started.

5.4.3 Known issues of INCA V7.2.15 – Important Hints

- See also section INCA V7.2.14 HF1
- Important hint about **change of the Grace Mode of ETAS Software products** with LIMA V1.7.1 shipped with INCA V7.2.13 and higher (introduced in Q2/2019).
  It affects all Software Products, providing Grace Mode, namely:
  ASCET, INCA, INCA-FLOW, INTECRIO, INTECRIO-RLINK, ISOLAR-EVE, MDA, SCODE-CONGRA, SCODE-ANALYZER and their Add-ons
  For more details see
  `- Change of Grace Mode 2019_03_NE.pdf` or
  `- Change of Grace Mode 2019_03_DE.pdf`
  in the folder `\Documentation\WhatsNew\`of the installation package (ZIP file)

or after installation of the INCA Service Pack in
Program-Menu -> ETAS -> INCA 7.2 ServicePack in the folder `\WhatsNew`.

- Important hint about **INCA / MDA Support Stop of Windows 7**
  Microsoft announced the end of the Extended Support for Windows 7 by January 14, 2020.
  Therefore, ETAS will discontinue the development and maintenance of Windows 7 support for INCA and MDA as following:
  - Versions and service packs of INCA and MDA, released after January 14, 2020, will no longer support Windows 7.

  For more details see
  `- Maintenance Stop INCA Windows 7 EN.PDF` or
  `- Maintenance Stop INCA Windows 7 DE.PDF`
  in the folder `\Documentation\WhatsNew\`of the installation package (ZIP file)
  or after installation of the INCA Service Pack in
  Program-Menu -> ETAS -> INCA 7.2 ServicePack in the folder `\WhatsNew`.
- Known issue with new feature *64Bit Integer Support*
  IF
  calibration is done in the INCA experiment or CDM
  AND
  a parameter of type 64Bit Integer is used
  AND
  the parameter holds a value that needs more than 52 bits for representation
  AND
  the user changes the values
  AND
  uses afterwards 'undo'
  THEN
  INCA does the 'undo' with the physical representation of the former value. The result is a 'casted' value that has less precision as the original former value.
- 603992 Recorded CHARACTERISTIC value is always set "0" if "Calibration Recording" with MDF3 is used with a BIT_MASK and BIT_MASK is not set on LSB (0001) but higher Bits (e.g. 0010).
  If
  MDF3 for Calibration Recording is used
  AND
  BIT_MASK is used for Calibration with CHARACTERISTIC
  AND
  the bitmask is not set to the LSB (*least significant bit*) but a higher bit position
  THEN
  the recorded value of the Calibarion is always zero (0).
  Note: Calibration works correctly.
  Workaround:
  - Use MDF 4.
  - Workaround for MDF3: Use an "outputsignal" for recording the calibration.
  Note: This issue will be solved with INCA V7.2.16 and INCA V7.3.0.
- #596696 XCP V1.4 - Compatibility of XCP 1.4 with former INCA versions: A2L files containing XCP 1.4 cannot be used in INCA V7.2.7 and former versions at all, even not for other protocols (e.g. if containing CCP, UDS, KWP2000, ETK etc.

descriptions).
Workaround: Remove the XCP V1.4 part to use other parts of the A2L file

- #603952 API: Trigger Condition is not taken over correctly - though command is executed with True
  and
  # 601299 Complex trigger condition cannot be set using the COM-API
  Due to Call 601299 now an API Error is returned if Trigger Parse did not parse until the end. This is required as else parser fails and INCA would run into following error/ random condition. In this case the Parser stops because of blanks in Device Name.
  Workaround: Rename Device Names with blanks to Device Names without blanks. This is required in HWC and in API - calls.
- #625918 WB in CDM "Multi-column" when moving columns: [WBID34407603] UndefinedObject does not understand longName
  If you use CDM in Multi Column View
  AND
  you select a column by clicking to the column title
  AND
  you move the selected column to a value field inside CDM
  THEN
  a WB may occur
  To avoid the problem do not try to move the columns of the multi column view in CDM
  Note: The solution is planned with INCA V7.2.16 and V7.3.0.

5.4.4 Known issues solved with INCA V7.2.15 – Important Hints

- See also section INCA V7.2.14 HF1

5.4.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
398514	Firmware state is not stored in active workspace.
429526	Check of calculated signal shows wrong check state if it is referenced
457049	"[WBID1635233607] IDispatch call returned an exception. ErrorCode: 0x80004005 Source: TgtSvrMain.TSDSignal.1." when open workspace with MDF4 + Calibration recording (no problem with MDF3)
481161	Default Setting for Limited EMU RAM Operation Mode not taken from UserDef.ini
515655	[WBID2308057877] UndefinedObject does not understand do:
544112	Combined editor displays false process poit value for floating point MAPs
555068	[WBID2589865771] UndefinedObject does not understand collect:

557236	EE: "[WBID1635233607] IDispatch call returned an exception. ErrorCode: 0x80004005 Source: <unknown>. <LOCALIZED>the MSRSW datatype >" occurs when add one special calibration to ee
558231	ToolAPI Method SetCurrentAcquisitionRate() always retuns true, even if the command not succeded
558743	EE: Copy&Paste from empty Layer in empty EE does not work
574678	EE Changing device names in HWC during EE is opened can lead to damaged multirecorder configs (recording does not start)
574866	[WBID309083042] Unhandled exception: Error while trying to parametrize generic hw items - due to unregistered DLL.
575287	Error 60834 "Too many rasters used within INCA" when working with CAN-Monitoring via ASAP3
582126	Assigning of Autosar Project is not working in case FIBEX with sub nodes
582425	[WBID1828434506] Exception in UI process and [WBID3402757492] UndefinedObject does not understand <=
582606	Experiment open takes a long time when no hardware is connected and it is opened offline
583929	[WBID871967868] MCSInactiveMeasureElementObject does not understand canRemoveFromDefaultRecorderUseAcquisitionDict:
593733	[WBID1478363034]RBNumericSliderCalibrationWidget does not understand acceptSelectedValue:
594112	ASAP2Ed: Value for SystemConstants is possibly not changed after reopen ASAP2 Editor
597430	CopyPaste: Paste from Excel Values into Axis does not work as expected when they have more than one dimension
600828	[WBID805930944]UndefinedObject does not understand hardwareConfigObjectName
601853	[WBID306560295] UndefinedObject does not understand setInputFocus
602476	[WBID2158926703] UndefinedObject does not understand dataElement
603646	[WBID180323053] UndefinedObject does not understand sensitive
607758	[WBID1957860430] EtasDynamicEmuRAMV1CalibrationMethodWrapper does not understand currentDataset
608742	opy Paste: Paste error displayed when pasting valid binary values without identifier into Combined Editor for Curve with Bin representation
611771	BR_XETK-S4: INCA calibration method FlashRangeSpecificEmuRAM does not support different handle page sizes
612210	INCA records into wrong MDF format (DAT file instead of MDF 4 written) if initial MDF Type from the useroptions was changed via API.
612928	Change the data visualization of display bar from phys to hex: [WBID3307274967] (ExCPMStackOverflow) A stack overflow has occurred.
613629	INCA hangs after hardware is disconnected
614067	[WBID1451216939] receiver must be a boolean
614386	In Case INCA is in offline mode, crash during flashing of one ECU out of experiment from the new improved UI for multi ECU. Note: No issue in case online EE mode.
614391	Error Message on IDENTIFY not completely correct. Should be: "ASAM-3MC-Protokoll der Version V2.x oder V3.0 erforderlich!"
614519	Opening of the raster drop-down in Variables Configuration is very slow
614729	VSD source view change from FETK to All sources is time consuming (performance issue)
616926	ASAM string escape seuences not supported by the parser ("\\\")
617084	a2l file with \" Symbols (defined as \\\") cannot be read into INCA

617260	VN5610 „Ethernet_Monitoring“ Port Config: selecting same AE-Port or same GE-Port for VN5610-ETH1 and VN5610-ETH2 should not be allowed
617720	[WBID2864902373] UndefinedObject does not understand hardwareConfigObjectName
617872	Wrong unit in MDF4 file with Ethernet Monitoring
618135	Zip-file in folder or path of PROF-files slows down the selection of the config. !! Note: Reverted with INCA V7.2.17 due to side effect #633290
618396	ARXML to A2L: Incorrect conversion of Linear CompuMethods (Hex to Phys)
618399	Arxml2A2l: Compu Method SCALE_LINEAR is converted incorrectly (Hex to Phys)
618446	Arxml2a2l: Open upper/lower limits in Compu Methods are converted incorrectly.
618475	Arxml2a2l: Texttable compu method doesn't support single negative values
618476	Arxml2a2l: SCALE_LINEAR doesn't work if upper/lower limit is set to -inf or inf
618620	[WBID2814337956] (ExCLDTKeyNotFound) Key not found.
618777	INCA_InstallGuide_R7.2.pdf -> missed infomration about new entries in the Licensing.ini
619132	ES820: Missing MC log entries after unexpected INCA force shutdown while ES820 was trying to shut down to low power standby
619187	[WBID209070908] receiver must be a boolean
619460	INCA-SIP: Although using the same model, DatabaseObjects are added.
619470	Using of Display_Indentifier leads to manual trigger after reloding the EE
619590	EE: Multiselected Labels in Calibration Windows shows different Context Menu dependent on the Label which the context menu is called
619687	Int64: Possibly wrong values are calibrated for Data Representation = Hex (if AAAAAAAAAAAAAAAA is used)
619722	Int64: Fill with Value Dialog opens again if Data Representation must be changed for Calibration Window / Scalar Table Editor (if 9007199254740991 is used (is 0x 001F FFFF FFFF FFFF))
619767	INCA must be terminated via task manager if MDA uses and locked the measurement file
619768	Since INCA V7.2 SP13 no WiFi adapter available in the ETAS network manager.
619816	ES820 V7.2.9 Background Recorder Flexray Trigger not fired
619952	EE: For Scalar Table Editor and for Table Editor Fill With Value shows unexpected values
620036	ETAS License Manager: Start Autoborrow in Context Menu do nothing
620040	EE: Calc Signal shows the values partly with digits and sometimes without
620052	EE: Measure Cal value possibly different as Working Point Value if the axis values are not in ascending order. Solution: Only strictly monotonous orders are allowed. All other orders will not be permitted for calculating curves or maps.
620089	[NetWBID489491352] System.NullReferenceException: Object reference not set to an instance of an object. - Inca crashes during layer deletion from display config window
620224	INCA after Reparse old state of import is already displayed in description of autosar
620229	Full Path should be visible to identify ARXML file in INCA Mainwindow
620365	When open EE and for labels the Data Type changes to Int64 the EE included possibly XY Osci with one Signal
620381	CAN-FD-project -INCA doesn't display all "TRANSPORT_LAYER_INSTANCE" from A2l file
620396	HWC J2534: Vector J2534 PassThru Library not selectable
620399	ES6xx Measurement Modules: AC1_AD1 time consistency check failed / missing timestamps. Likely if more than one raster used or raster with cycle time below 200ms used.

620425	EE: Possibly for Data Rep = Hex Combined Editor uses wrong Process Point
620454	ASAP2 Editor: Getting WB([WBID1158547847] Primitive failed in: Object>>#at: due to Index out of range in argument 1) when Double Click on Record Layout
620485	New Autosar file without any supported clusters will not be added to database but no information in Monitor window
620734	Convert FIBEX file using ECU-Test raises the error: "No input file name (-c) defined"
620920	Crash INCA after opening Experiment with Win7: [WBID306560295] SmallInteger does not understand conform:
620992	INCA V7.2.14 EE: Possible that Add Offset / Fill With Value / Multiply by factor / Divide by a divisor are NOT working for multi selected Labels in Calibration Window
621013	ES820: Target server crashes when ES820 is shutting down. Note: Solved with INCA V7.2.13 and higher.
621056	INCA V7.2.14 EE: Add Offset, Multiply, Divide and Fill with Values are not working on selecting multiple labels.
621074	ToolAPI: GetAllDevices() returns Null if Experiment is opened. Note: API Documentation for HWSystem.GetAllDevices Method updated.
621702	MDF-LIB: ICustomInformation does not work properly
621765	EE: In Cuboid with X Axis of data type SBYTE, the axis uses the Bounds from Output Values but not from X Axis
621768	ES820: Missing MC log entries after unexpected INCA force shutdown while ES820 was trying to shut down to low power standby
621823	[WBID2208963632] Primitive failed in: Object>>#at: due to Index out of range in argument 1
621831	INCA does not measure PDU`s from Ethernet bus due to wrong filter setting
621905	CAN(FD)-Monitoring not possible with AUTOSAR-File merged with DBC-File by ISOLAR A. Note: Already solved with INCA V7.2.14
622144	INCA-TOUCH: Slew Rendering out of proportion in Touch Screen
622149	INCA-TOUCH: Slews are sometimes not added to the Touch configuration
622390	[WBID75649393] CTError does not understand isSGOHIContainer
622419	INCA-SIP: Introduce Sorting and Filtering for Referenced Models in ECU List
622475	INCA-SIP: INCA tries to change Data Type of Parameter from int32 to double during model execution, which leads to an error in ASAM-MCD-1b
622566	EE: [NetWBID1058402648] System.ArgumentException: Invalid format) - when using Context Menu: Fill With Value for Customer Instruments
622576	[WBID1620976460] Primitive failed in: OSPtr>>#uint8At: due to General protection fault - read from invalid memory location
622607	[WBID1210747580] UndefinedObject does not understand currentDataset
622632	INCA-SIP: Missing "loading" information when opening "Configure" ECU Dialog if ECU contains lots of referenced models
622676	ES3xx AddOn -> MF4 -> Signal name wrong: : INCA write Signal name \ Devcive name
623057	Unable to reset enumerated axis map to reference page values
623302	IP Manager settings is not taken from XML while installation. Note: Since old settings are found in %APPDATA%/ETAS/IPMServer.xml or %PROGRAMDATA%/ETAS/IPMServer.xml these have priority over the installation settings in InstallationDefaultSettings.xml.
623316	CDM: Compare in function view displays questionmark if display scaling (zoom) higher than 100% used.
623382	Changed CDM setting is lost if CDM is opened afterwards via the Icon bar (Ctrl + F11)
623392	INCA-SIP: Failed to get the value of Simulink entity

623397	INCA MDF4 "si_bus_type" contains wrong format
623444	Targetserver Critical Exception
623678	Lookup block axis data on Combined Editor was not changed automatically
623934	API returns wrong measure value for CAN-Monitoring
623994	CSM or SMB modules: incorrect formula in MDF4 when multiple modules with different conversion formulas are used
624021	ToolAPI of INCA V7.2.14 delivers different results for CAN-DBC signals with VTAB description in comparison to former INCA Versions
624150	Import LAB-file leads to [NetWBID918849899] System.ArgumentOutOfRangeException: Das angegebene Argument liegt außerhalb des gültigen Wertebereichs.
624198	INCA Osci and INCA - TOUCH shows no values after making changes in HWC
624365	CDM display wrong result for axis compare
624485	ES4xx: Channel name with '_', '[' and ']' may have wrong fomula in INCA-EE
625160	INCA V7.2.15 Beta: [WBID2955958246] UndefinedObject does not understand asHexString when start recording with MDF4
625265	[WBID1166204626] (ExCLDTIndexOutOfRange) Index out of range.
625368	"EXCLUDE_FROM_FLASH" doesn't work for BR-XETK-projects
625402	[WBID3756249465] UndefinedObject does not understand deferRedraw: Occurs while continuously performing F6 (decrement) and F7 (increment) operation on Combined Editor in CDM using keyboard.
625505	[WBID2725107926] System error on attempt to close CDM
625627	HIL-System: INCA freezes since using the VN1630 module 2
626052	[WBID1166204626] (ExCLDTIndexOutOfRange) Index out of range.
626059	[WBID3353956529] (ExCLDTIndexOutOfRange) Index out of range.
626061	[WBID2298689681] (ExCLDTIndexOutOfRange) Index out of range.
626062	[WBID1747106544] (ExCLDTIndexOutOfRange) Index out of range.
626252	ETAS License Manager: LiMa deletes borrow registry information
626940	INCA V7.2.15 Beta: CDM does not open in parallel to EE if not CDM config is defined in HWC

5.5 INCA V7.2.14 HF1

See also section INCA V7.2.14

5.5.1 Known issues of INCA V7.2.14 HF1 – Important Hints

- See also section INCA V7.2.14
- #624731 Import of export files, generated with INCA V7.2.14, causes crash in INCA V7.2.12 and former INCA versions -- [WBID2704113274] item is not valid

  The export (*.EXP) file of INCA V7.2.14 (and higher) with an ARXML-file is not backward compatible with INCA V7.2.12 and all former versions.
  Workaround: "Export" from INCAV7.2.14 to INCAV7.2.13 (the current ES820 drive recorder version) works.

5.5.2 Known issues solved with INCA V7.2.14 HF1 – Important Hints

- See also section INCA V7.2.14
- #624365 CDM display wrong result for axis compare
  KIR Issue solved (see also ETAS Download Page)

  Affected INCA Version: V7.2.14.

  IF
  the user starts in CDM a compare
  AND
  activates in the CDM Options for axis compare only "Value(hex)" OR "Value (phys)"
  AND
  activates in the CDM Options for axis compare none of the following:
  "Unit", "Soft Limits (phys)", "Soft Limits (hex)", "Hard Limits (phys)", "Hard Limits (hex)", "Conversion name", "Conversion formula", "Current number of axis points", "Max. number of axis points", "Data type", "Monotony", "Input quantity" or "Input quantity".
  THEN
  CDM does not compare the axis values.

  Note:
  - The settings for CDM Options for axis compare "Name" AND "Long Identifier" do not affect the behavior.

  - The following use cases are **not** affected:
    IF
  the user starts in CDM a compare
    AND
  activates in the CDM Options for axis compare "Value(hex)" AND "Value (phys)"
    OR
  activates in the CDM Options for axis compare any other axis compare (except "Name" AND "Long Identifier")
    THEN
  the axis compare works well

  - The compare of scalars AND output values of Array, Curve, Map, Cuboid is **not** affected.
  - The Copy and List functionality is **not** affected.

  Workaround:
  Make at least one of following settings in the CDM Options for axis compare:
  - Activate both "Value(hex)" AND "Value (phys)".
  - Activate any other compare options (except "Name" AND "Long Identifier").

- #623934 API returns wrong measure value for CAN-Monitoring
  Affected INCA Version: V7.0 and higher.

  If
  STATUS_STRING_REF is in use
  AND

the measure value is in the range of a string (in the experiment a string is displayed)
AND
the user requests values via API
THEN
the API returns in invalid values

Note: The strings are correctly displayed in the Experimental Environment.

Solved with INCA V7.2.14 HF1.

- # 624021 ToolAPI of INCA V7.2.14 delivers different results for CAN-DBC signals with VTAB description in comparison to former INCA Versions

  Affected INCA Version: V7.2.14 only.

  Behavior of INCA V7.2.13 and former versions:
  If
  the CAN-DBC file contains IDENT conversions
  AND
  additionally "Signal Value Descriptions" (VAL_)
  THEN
  INCA uses a verbal conversion (VTAB) and responds on API Call GetConversionType() with "VTAB".

  Changed behavior of INCA V7.2.14:
  If
  the CAN-DBC file contains IDENT conversions
  AND
  additionally "Signal Value Descriptions" (VAL_)
  THEN
  INCA uses a mix of IDENT conversion and STATUS_STRING_REF and responds on API Call GetConversionType() with "IDENT".

  In combination with Call #623934 (see above), INCA API responds wrong values.

  With INCA V7.2.14 HF1 and higher, the behavior was changed back to the former behavior of INCA V7.2.13 and former.

  Note:
  - CAN-DBC read with INCA V7.2.14 will return correct values with INCA V7.2.14 HF1 but no VTAB computation method.
  - In order to get also VTAB computation method, the CAN-DBC has to be read again into the INCA database of INCA V7.2.14HF1 (or higher).

5.5.3 Bug Fixes and Improvements

EHI #	Title
624365	CDM display wrong result for axis compare

623934	API returns wrong measure value for CAN-Monitoring
624021	ToolAPI of INCA V7.2.14 delivers different results for CAN-DBC signals with VTAB description in comparison to former INCA Versions

5.6 INCA V7.2.14

5.6.1 Recommended Installation

It is strongly recommended to update and down date INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack Installer.

Very important: After the installation, a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.6.2 New Features and enhancements

- All news of the current INCA Service Pack see INCA-V7.2 SP14 -Whats-new.pdf.
- EHI #616562 CAN (FD) Monitoring: Not all the expected Values are available during the measurement - in case CAN frame PDU payload length does not match the AUTOSAR description file.
  Error message introduced with INCA V7.2.14:
  If a CAN frame PDU payload length does not match the AUTOSAR description file, the corresponding measurement signals will show no values in the EE. In this case, the AUTOSAR file must be fixed to match the actual payload length on the bus.
  In the past, this error was only visible in the TgtSvr.log file. Now, INCA writes a warning message in the Monitor Window to inform the user, e.g.:
  "*Container PDU payload does not match expected length. Container Name: <name> Expected Length: 14 Manifested Length: 13*"

5.6.3 Known issues of INCA V7.2.14 – Important Hints

- Important hint about **INCA / MDA Support Stop of Windows 7**
  Microsoft announced the end of the Extended Support for Windows 7 by January 14, 2020.
  Therefore, ETAS will discontinue the development and maintenance of Windows 7 support for INCA and MDA as following:
  - Versions and service packs of INCA and MDA, released after January 14, 2020, will no longer support Windows 7.

  For more details see
  `- Maintenance Stop INCA Windows 7 EN.PDF` or
  `- Maintenance Stop INCA Windows 7 DE.PDF`
  in the folder `\Documentation\WhatsNew\`of the installation package (ZIP file)
  or after installation of the INCA Service Pack in
  Program-Menu -> ETAS -> INCA 7.2 ServicePack in the folder `\WhatsNew`.
- Known issue with new feature *64Bit Integer Support*
  IF
  calibration is done in the INCA experiment or CDM

AND
a parameter of type 64Bit Integer is used
AND
the parameter holds a value that needs more than 52 bits for representation
AND
the user changes the values
AND
uses afterwards 'undo'
THEN
INCA does the 'undo' with the physical representation of the former value. The result is a 'casted' value that has less precision as the original former value.

- #596696 XCP V1.4 - Compatibility of XCP 1.4 with former INCA versions: A2L files containing XCP 1.4 cannot be used in INCA V7.2.7 and former versions at all, even not for other protocols (e.g. if containing CCP, UDS, KWP2000, ETK etc. descriptions).
  Workaround: Remove the XCP V1.4 part to use other parts of the A2L file
- #603952 API: Trigger Condition is not taken over correctly - though command is executed with True
  and
  # 601299 Complex trigger condition cannot be set using the COM-API
  Due to Call 601299 now an API Error is returned if Trigger Parse did not parse until the end. This is required as else parser fails and INCA would run into following error/ random condition. In this Case the Parser stops because of blanks in Device Name.
  Workaround: Rename Device Names with blanks to Device Names without blanks. This is required in HWC and in API - calls.

5.6.4 Known issues solved with INCA V7.2.14 – Important Hints

- See also section INCA V7.2.13 HF1 and HF2
- Important information to the ES886.1 module
  The ES886.1 module is PREPARED for Ethernet monitoring. The functionality will be delivered in a subsequent HSP package and INCA Service Pack.
  Solved with INCA V7.2.13 and HSP V11.13.0

5.6.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
368236	EE: "[NetWBID3806792709] VisuIT.ASAP2.Parser.Asap2ParserException: A2PARSER_E_REQUESTED_DATA_INVALID" when open an old CDM test project

386695	MCE_[WBID3307751915]:Exception in UI process: ~4680 Switch/Reloads of an EtherCat Logicallink
419970	INCA overwrites zipped logfiles.
533385	INCA V7.2.1 beta only: Experiment Changing calilbation values of map or curve not possible when prosess Point activation is active
578161	[NetWBID2060389102] in INCA while opening dialog for calculated signals / Absturz in INCA-Experiment beim Öffnen des Dialogs für berechnete Signale]
581710	[NetWBID3437682941] System.ArgumentNullException: Der Wert darf nicht NULL sein.
582835	CDM About Variables Dialog - Variable details are rendered outside window view
584246	[WBID122927328] UndefinedObject does not understand queryInterface:ppvObject:
585989	[WBID1097444304] IDispatch call returned an exception. ErrorCode: 0x80131600 Source: Etas.Base.Shared. ExceptionInDotNETCOMServer_KeyWord - NetWBID1971169032 For details see: C:\ETAS\Logfiles\INCA\walkback\net000003.netwkb
587713	[WBID1996100704]UndefinedObject does not understand getActiveMDIChild
588324	[NetWBID1971169032] System.InvalidOperationException: Element 'TMENg_nNegGradGeneral\XETK:1' with ID ID681520130 not found in input XML for VSD
589934	HWC dialog lost foxus when select another CAN-Mon device after changing CAN-Mon-project
590676	[NetWBID2018653242] System.Xml.XmlException: Es ist eine offene Zeichenfolgenliteral vorhanden. Zeile 4, Position 57. when opening Experiment
596374	[WBID2058624610] IDispatch call returned an exception. ErrorCode: 0x80004003 Source: Etas.INCA.ExperimentEnvironment.ExEnUI. Der Objektverweis wurde nicht auf eine Objektinstanz festgelegt
599236	[NetWBID4138045912] System.Data.StrongTypingException: The value for column 'Name' in table 'Group' is DBNull.
599847	Additional comment for user option "MDF write compressed": Data compression is only supported with MDF 4.1 or higher.
607908	TriggerEditor: Sporadic - [NetWBID2449327241] System.ArgumentNullException: Value cannot be null, [NetWBID3029022606]- Wkb appears when VSD is opened while creating NewTriggerSignal
610460	CAN Monitoring VN7610 : Device is not automatically reinitialized in "Retry Always" mode
610546	VariableConfigGrid does not show RasterMatrix under grouped variables
610855	[WBID4078116087] IDispatch call returned an exception. ErrorCode: 0x80131501 Source: System.Management.
611026	The order of bytes is wrong if signals are sorted on bytes in INCA-VSD
611350	CSE: [WBID3944112205] UndefinedObject does not understand asap2Module - Wkb appears when trying to select 'RP' from CSE dropdown.
612068	ETAS License Manager: If MDAV8 is started then INCA cannot be started. ->> LiMa-dialog appears
612360	ES820 sporadically reboots after reaching recording state due to stopped TgtSvr proccess
612379	[FETK-T] crash in a1b_XETK.dll when initializing project with TRACEonly + Distab Raster
612948	Wrong visualization of variables when they were dropped from a measure table in a y-t oscilloscope + NetWBID1971169032
613079	The duration of receiving recording data (MDF3.0) is very slow when trigger is active
613360	[NetWBID1992736311] System.InvalidOperationException: Die Auflistung wurde geändert. Der Enumerationsvorgang kann möglicherweise nicht ausgeführt werden.

613423	[WBID835503737] ASAP2RoutineParameter does not understand constantsWriteRoutineResult
613436	NLS - The AskAgain check box in the window Confirm - Raster Full Behavior is not NLS applicable and remains in English
613480	Support mail address is reset/overwritten to default
613546	EthernetPDUMonitoring: Possible that DBBrowser shows CanCluster entries and not the expected EthernetCluster
613576	ETK-S22 RH850-FCC2 Cannot re-programming
613742	INCA-TOUCH - INCA freezes and closes without error when opening experiment with Touch instrument
614219	[WBID1438519840] UIProcess does not understand isCebraProcess - if no Cebra toolbox is installed.
614362	Memory segments are shifted if two segments defined in A2L are overlapping in INCA
615077	CDM_Filters: Filtering does not work correctly for >2-dimensional matrixes
615112	EE: Possible that Undo repeats the action again using Rescale Axis Pairs in Combined Editor
615120	Experiment – Improved UI support for Multi ECU handling show wrong A2L-file name
615172	HWC: Replace System is disabled after adding multiple hardware devices to the workspace.
615218	ARXML file cannot be read into INCA due to dot in file name
615474	[WBID1787904690] UndefinedObject does not understand fileExtension
615546	[WBID4224695045] String does not understand subtractFrom:
615956	CAN-FD Monitoring with ARXML-file do not show any values
616041	ETASPT32 J2534 provider crashes when given an invalid channel Id of 0
616417	INCA ODX add-on installation failed on Windows 7 32bit
616562	CAN (FD) Monitoring: Not all the expected Values are available during the measurement - in case CAN frame PDU payload length does not match the AUTOSAR description file. Error message introduced with INCA V7.2.14
616568	INCA Multi ECU Support panel missing scope after press FButton (e.g.F8)
616581	INCA Multi ECU Panel Colum size changes length of the name of the ECU
616765	[WBID715207463] (ExCPMStackOverflow) A stack overflow has occurred. Due to change in Registry, Key "MaxCebraServers" (REG_SZ/String instead of REG_DWORD). Recommendation correct Registry.
616784	Variable is removed from the widget/made inactive after changing the working data set.
616990	INCA-EIP: Measurement stops with "Merging overload error"
617184	INCA-TOUCH screen causes widgets to size disproportionate
617200	Calcuration Signal description is missing in generated xda
617248	EE: Table Editor shows wrong arrow after increment/decrement of VTAB
617310	Ethernet Port Config - Empty Port Configuration: When a new Ethernet Monitoring device is created, the user is not prompted to configure the Ethernet Port.
617435	[WBID2401547976] UndefinedObject does not understand x crash by inserting a measure variable subNodeTable in ASAP editor
617544	CDM very slow if QM Basic active
617622	Time to reinitialise the HW in EE is more then open EE with init of HW itself
617739	ES820/INCA V7.2.9: The output channels switch sporadically active
617821	CDM inline editor does not work correctly with wrapper devices and opened EE
617834	Calibration window scaling does not respect minimum fontsize set in the useroptions

617836	Possibility to select calculated signals when using export (currently only deselect is possible). Note: Solved with MDA V7.2.14
617845	Ethernet Monitoring: Measurement failure due to duplicate filters
618001	INCA EE performance issue for Ethernet Monitoring with AUTOSAR files
618217	INCA creates wrong MAC Address filter for multicast messages
618296	Measurement Overload and Target Server crash with Large Experiment based on AUTOSAR files
618328	Japanese character string isn't displayed correctly when INCA read the A2L with /include command.
618396	ARXML to A2L: Incorrect conversion of Linear CompuMethods (Hex to Phys)
618397	LIMA returning auto borrowed license is not working
618404	Initialization or flashing of ECU not possible due to an error in the 'seed2key' function for security access.
618430	Initialization or flashing of ECU not possible due to an error in the 'seed2key' function for security access.
618563	The new ETAS Safety Advice is available with the following additional languages: Belarussian, Russian, Ukrainian, Vietnamese, Thai, Traditional Chinese, Indonesian, and Hindi. Please read it carefully.
618718	Copy And Paste from Excel to MAP/CURVE caused INCA System Error with [WBID3652347817] DBString does not understand removePreceedingEmptyRowsAndColumns
618926	INCA-SIP: Existing Datasets will be overwritten after model re-connect
618932	XCP is using wrong bits from TIME_CORRELATION Response
618952	[WBID891758851] UndefinedObject does not understand applicationController - Cannot open dat files with MDA 7 or 8 from INCA DBB or EE
618984	Page-switching is not executed if XCP segment number are not unique
618986	CDM: WB([WBID2902778476] SGCDMConfiguration does not understand createForItem:dataset:dbController:) when try to open special CDMConfig
619065	ETK-Tools and INCA: FETK-T3: XCT / raster check support JTAG frequency of 25MHz
619119	Calibration_Window : INCA crash when using "Add Offset" for CHARACTERISTIC with one active bit in BIT_MASK
619132	ES820: Missing MC log entries after unexpected INCA force shutdown while ES820 was trying to shut down to low power standby
619173	Open the structure tree with the filter AND in asap2.ini feature IsEnhancedFeatures=true leads to [WBID446255601] Primitive failed in: Object>>#at: due to Index out of range in argument 1
619217	IPM-Server stops working during initialization (occurs for German language only)
619219	AdaptiveCharactieristics(#RAMcal) or characteristics variable not added to DefaultRecorder when visualisation is startet
619307	ETK-S22: ProF error message occur on CleanupWatchdogHandling sequence
619309	Hexeditor from MPM doesnt show all columns on default
619323	MessageBox to confirm, replace existing file is shown twice while saving ".dat" file from Output File Properties in EE. Recommendation: Install KB4481031 Cumulative update for .NET Framework 3.5 and 4.7.2 for Windows 10, version 1809 or a higher update
619382	Copy from Excel to MAP caused ERROR (SGML Error)
619383	Copy And Paste from Excel to MAP/CURVE caused INCA System Error [WBID4262638188] DBString does not understand removePreceedingEmptyRowsAndColumns

619420	ASAP3: -> WB at Command GET CHARACTERISTIC INFO - A3C_Map_xU64_yS64_S64 - [WBID2018152704]: Float does not understand printStringRadix:showRadix:padTo:
619428	Visualiziation of heading in calcualting signals is wrong
619462	INCA-SIP: MDF mapping file is not generated.
619625	EE: AddOffset does not work for Data Representation = Hex for Scalar Table Editor / Calibration Window
619749	IPManager does not recognize network adapters if displayed as "unspecified"
619783	TgtSvr crash when initializing XCPonCAN with ME9U A2L
619786	INCA Trgsvr crash XCP with Code Memory Segment without XCP description in A2L
619831	CSM or SMB modules: In MDF4, an incorrect formula is written to recording file when multiple modules with different conversion formulas are used
619880	HIL-System: INCA freezes since using the VN1630 module
619904	[NetWBID1992736311] System error happend while recoding data
619937	Int64: Comb Ed switches automatically from Data Rep = Hex to Phys
619959	Calculated signal does not work if pm file is in offline folder. Solved with MDA V7.2.14
619983	CDM: WB([WBID297931926] UndefinedObject does not understand at:ifAbsent:ifPresent:) when try to connect Data Transfer File to Project
620090	[WBID4262638188]Copy And Paste from Excel to MAP/CURVE caused INCA System Error
620485	New Autosar file without any supported clusters will not be added to database but no information in Monitor window
620698	Cannot open Autosar .arxml. Note: Solved with INCA V7.2 SP13.2
621025	[FETK-T3] Hardware configuration feature "AuroraResetControlDisabled" is overwritten to the value "0 (No)" by the trace plugin. In some ECUs, this results in trace data acquistion failures and JTAG failures.
621666	ETAS License Manager: At the end of the INCA installation the error appear "Licensing framework does not work" in case activation mode is triggered
621768	ES820: Missing MC log entries after unexpected INCA force shutdown while ES820 was trying to shut down to low power standby
622195	INCA V7.2.14 Beta: System Error on Invocation of Hex Post Treatment: [WBID577714753] Primitive failed in: PlatformFunction>>#callWith:with:with:with:with: due to Invalid argument count

5.7 INCA V7.2.13 HF2

See also section INCA V7.2.13 and INCA V7.2.13 HF1.

5.7.1 Important Hints, Bug Fixes and Improvements

- **Important: The new ETAS Safety Advice** is available with the following additional languages: Belarussian, Russian, Ukrainian, Vietnamese, Thai, Traditional Chinese, Indonesian, and Hindi. Please read it carefully.
  The ETAS Safety Advice is displayed during start of INCA (Disclaimer) and it is available in `ETAS_Safety_Advice.pdf` in the folder `\Documentation\ReleaseNotes\`of the installation package (ZIP file)

or after installation of the INCA Service Pack in
Program-Menu -> ETAS -> INCA 7.2 ServicePack in the folder `\ReleaseNotes`.
(see also EHI-Call #618563)
Note: Already solved with INCA V7.3.13HF1.

- #619777 INCA V7.2.13 HF1: Not possible to uninstall INCA V7.2.13 with INCA V7.2.13 HF1 if path to the original installation changed or installation sources no longer available.
  In case, uninstallation will ask for the 1.msi file and path has to be selected manually (`INCA_V7.2_SP13.1\01_INCA_V7.2.13\00_Prod_INCA_7213\Packages\INCA\1.msi`). If not available uninstallation will be cancelled.
  Workaround: Keep the INCA V7.2 SP13.1 installation available on the same path (like during installation) until INCA V7.2 SP13.1 is uninstalled or updated to another INCA V7.2 Service Pack.

  Note: To solve this issue, INCA V7.2.13 needs to be rebuilt and it is not possible to install INCA V7.2.13 HF2 manually on INCA V7.2.13 Build 159 (shipped with INCA V7.2 SP13 and SP13.1).

- XCP side effect with INCA V7.2.13 HF1 solved:
  #619786 INCA Trgsvr crash XCP with Code Memory Segment without XCP description in A2L Side effect with INCA V7.2.13 HF1 solved.
  and duplicate
  #619783 TgtSvr crash when initializing XCPonCAN with ME9U A2L

- IP-Manger side effect with INCA V7.2.13 solved:
  #619749 IPManager does not recognize network adapters if displayed as "unspecified"

Table of all solved EHI-Calls:

EHI #	Title
619749	IPManager does not recognize network adapters if displayed as "unspecified"
619777	INCA V7.2.13 HF1: Not possible to uninstall INCA V7.2.13 with INCA V7.2.13 HF1 if path to the original installation changed or installation sources no longer available.
619783	TgtSvr crash when initializing XCPonCAN with ME9U A2L
619786	INCA Trgsvr crash XCP with Code Memory Segment without XCP description in A2L

5.8 INCA V7.2.13 HF1

See also section INCA V7.2.13

5.8.1 Important Hints, Bug Fixes and Improvements

- **Important: The new ETAS Safety Advice** is available with the following additional languages: Belarussian, Russian, Ukrainian, Vietnamese, Thai, Traditional Chinese, Indonesian, and Hindi. Please read it carefully.
  The ETAS Safety Advice is displayed during start of INCA (Disclaimer) and it is

available in `ETAS_Safety_Advice.pdf` in the folder `\Documentation\ReleaseNotes\`of the installation package (ZIP file)
or after installation of the INCA Service Pack in
Program-Menu -> ETAS -> INCA 7.2 ServicePack in the folder `\ReleaseNotes`.
(see also EHI-Call #618563)

- #618404 and #618430 Initialization or flashing of ECU not possible due to an error in the 'seed2key' function for security access.

  The function to calculate the key for the security access can have either the name "seed2key" or "seed2Key" (with uppercase 'K'). In case the seed&key dll implements the second variant, it could not be called by INCA.Y

- XCP: #618984 Page-switching is not executed if XCP segment number are not unique
  Side effect with INCA V7.2.12 solved.

- Issues solved for better support of *Monitoring of PDU based signals on Ethernet* (see also `INCA-V7.2-SP13-Whats-new.pdf`).
  #615218 ARXML file cannot be read into INCA due to dot in file name
  #617310 Ethernet Port Config - Empty Port Configuration: When a new Ethernet Monitoring device is created, the user is not prompted to configure the Ethernet Port.
  #617845 Ethernet Monitoring: Measurement failure due to duplicate filters
  #618001 INCA EE performance issue for Ethernet Monitoring with AUTOSAR files
  #618217 INCA creates wrong MAC Address filter for multicast messages
  #618296 Measurement Overload and Target Server crash with Large Experiment based on AUTOSAR files

- ES820 Support
  #617739 ES820/INCA V7.2.9: The output channels switch sporadically active

Table of all solved EHI-Calls:

EHI #	Title
618563	The new ETAS Safety Advice is available with the following additional languages: Belarussian, Russian, Ukrainian, Vietnamese, Thai, Traditional Chinese, Indonesian, and Hindi. Please read it carefully.
617739	ES820/INCA V7.2.9: The output channels switch sporadically active
618404 and 618430	Initialization or flashing of ECU not possible due to and error in the 'seed2key' function for security access.
615218	ARXML file cannot be read into INCA due to dot in file name
617310	Ethernet Port Config - Empty Port Configuration: When a new Ethernet Monitoring device is created, the user is not prompted to configure the Ethernet Port.
617845	Ethernet Monitoring: Measurement failure due to duplicate filters
618001	INCA EE performance issue for Ethernet Monitoring with AUTOSAR files
618217	INCA creates wrong MAC Address filter for multicast messages
618296	Measurement Overload and Target Server crash with Large Experiment based on AUTOSAR files
618984	Page-switching is not executed if XCP segment number are not unique

5.9 INCA V7.2.13

5.9.1 Recommended Installation

It is strongly recommended to update and down date INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack Installer.

Very important: After the installation, a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.9.2 New Features and enhancements

- All news of the current INCA Service Pack see INCA-V7.2 SP13 -Whats-new.pdf.
- FETK-T3.0 is supported
- The cluster names, which are generated out of AUTOSAR files, will change with INCA V7.2.13. To have unique cluster names in the future, all cluster will have a prefix for new created database elements.

  The prefixes are: CAN_, CANFD_, ETH_, SOMEIP_ and FLX_

  New cluster name = prefix + old cluster name

  For FlexRay INCA shows only one cluster entry, which will be FLX_Cluster, independent of the name in the AUTOSAR file.

5.9.3 Known issues of INCA V7.2.13 – Important Hints

- Important hint about **change of the Grace Mode of ETAS Software products.**
  This change will come with LIMA V1.7.1 scheduled for Q2/2019 and will affect all Software Products, providing Grace Mode, namely:
  ASCET, INCA, INCA-FLOW, INTECRIO, INTECRIO-RLINK, ISOLAR-EVE, MDA, SCODE-CONGRA, SCODE-ANALYZER and their Add-ons
  For more details see
  `- Change of Grace Mode 2019_03_NE.pdf` or
  `- Change of Grace Mode 2019_03_DE.pdf`
  in the folder `\Documentation\WhatsNew\`of the installation package (ZIP file)
  or after installation of the INCA Service Pack in
  Program-Menu -> ETAS -> INCA 7.2 ServicePack in the folder `\WhatsNew`.
  Note: This will affect INCA V7.2.13 and higher.
- Important hint about **INCA / MDA Support Stop of Windows 7**
  Microsoft announced the end of the Extended Support for Windows 7 by January 14, 2020.
  Therefore, ETAS will discontinue the development and maintenance of Windows 7 support for INCA and MDA as following:
  - Versions and service packs of INCA and MDA, released after January 14, 2020, will no longer support Windows 7.

  For more details see
  `- Maintenance Stop INCA Windows 7 EN.PDF` or
  `- Maintenance Stop INCA Windows 7 DE.PDF`
  in the folder `\Documentation\WhatsNew\`of the installation package (ZIP file)

or after installation of the INCA Service Pack in
Program-Menu -> ETAS -> INCA 7.2 ServicePack in the folder `\WhatsNew`.

- Important information to the ES886.1 module
  The ES886.1 module is PREPARED for Ethernet monitoring. The functionality will be delivered in a subsequent HSP package and INCA Service Pack.
- #596696 XCP V1.4 - Compatibility of XCP 1.4 with former INCA versions: A2L files containing XCP 1.4 cannot be used in INCA V7.2.7 and former versions at all, even not for other protocols (e.g. if containing CCP, UDS, KWP2000, ETK etc. descriptions).
  Workaround: Remove the XCP V1.4 part to use other parts of the A2L file
- #603952 API: Trigger Condition is not taken over correctly - though command is executed with True
  and
  # 601299 Complex trigger condition cannot be set using the COM-API
  Due to Call 601299 now an API Error is returned if Trigger Parse did not parse until the end. This is required as else parser fails and INCA would run into following error/ random condition. In this Case the Parser stops because of blanks in Device Name.
  Workaround: Rename Device Names with blanks to Device Names without blanks. This is required in HWC and in API - calls.

5.9.4 Known issues solved with INCA V7.2.13 – Important Hints

- #612288 CDM writes different physical values in different maps during listing maps to data exchange files (e.g. e.g. DCM, CDF, PaCo, CVX)
  (KIR-issue solved with INCA V7.2.12HF1 and V7.2.13, see also ETAS Download Page)
  IF
  the "Preview about info" is enabled
  AND
  exactly one of the parameters in the 'variables to process' window is highlighted
  AND
  CDM does a listing to a data exchange file
  THEN
  it is possible that wrong values are written to the data exchange file.

  Note: The wrong values come from the display update of the about dialog. If the display update runs while CDM does the listing, the values of the about dialog may be written to the data exchange file instead of the parameter values.
  As the display update is initiated by the Operating System, the wrong value may occur on every location in the data exchange file.

  Affected INCA Versions are from INCA V7.0 to V7.2.12.

  Workaround: Switch off "Preview about info": Change the CDM Setting, "Pre-viewer", "Preview about info"-Option to **No** in each CDM-configuration.

- #605100 INCA - INCA Service Pack Installer: Repair not working. Deleted files not restored. Repair Button might have no effect.

Repair of the installed INCA V7.2 works not in all cases.
Workaround: If a repair of INCA is needed, uninstall INCA and install the INCA Service Pack anew
OR
install (update or down date) another INCA V7.2 Service Pack.
Note: This issue is solved with INCA V7.2 SP13.

- #610459 Icon status for Dataset, ReRunAll and Overlap check is retained after Changing Data in the dataset (ASAP2 Editor, EE and CDM).
  The immediate update of the Icon caused a major side effect effecting Bench operation via ASAP3.
  Workaround: Changing the focus will update the Icon to correct status.
  Note: This issue is solved with INCA V7.2 SP13.

5.9.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
394613	[WBID682205675] EtasOfflineEcuDevice does not understand asap2Module
412998	Variable name display setup works different in EE and .NET components
415862	ETK: Walkback on A2L file with wrong memory segment: [WBID1109719151] Primitive failed in: OSPtr>>#uint32At:put: due to Value out of range in argument 2
451659	Performance CDM: Compare action for selected parameters.
491403	XCP: Custom checksum DLLs are not supported
498920	XCP: Checksum DLL can't be changed
502456	Poor performance for opening experiment with CAN Monitoring
512284	VSD : After editing the name of a measure signal VSD disables the rasters of the signal
512943	EE: Changing device name in HWC||EE and hw init in EE leads to not active rasters in VSD
531468	[NetWBID2465410890] System.InvalidOperationException: Raster name not specified in device 'CalcDev'
532261	Unclear handling during save CDM configuration
532855	The scrolling with clicking in empty scrollbar area or on scrollbar arrows in INCA 7.1 oscillocope types is extremly slow
534992	[NetWBID2306070993] System.Xml.XmlException: Root element is missing.
536748	Measurement documentation (Messdokumentation) is only written if recorder configuration has XDA file activated
557614	Focus gets lost when monitor bounds window opens
557679	EE: Calibration value is immediately used after paste in edit mode
558980	[WBID1510791766] Primitive failed in: OSPtr>>#uint8At: due to General protection fault - read from invalid memory location
560619	EE:Getting wb([WBID2968725501] Primitive failed in: PlatformFunction>>#callWith:with:with:with:with:with:with:with:with:with: due to General protection fault - read from invalid memory location) afterr open EE the first time

561173	VUI: The "Bounds Range" value will get disappeared in properties of widget when toggled between two display type
561644	[WBID4137754855] Primitive failed in: OSPtr>>#uint8At: due to General protection fault - read from invalid memory location --- when flashing via Prof
563120	INCA Touch crashed INCA if use display i10CTV
572806	[WBID2174568190] Metaclass does not understand removeInstance
572973	[WBID845251662] Primitive failed in: OSPtr>>#uint8At: due to General protection fault - read from invalid memory location
573768	Virtual Device: [NetWBID83280457] System.FormatException: Input string was not in a correct format.
581121	ASAP2_Editor: Hot keys won't function
581679	[WBID762445230] Unable to allocate device context.
584046	Drawn data on oscilloscope has blank while measurement
587713	[WBID1996100704]UndefinedObject does not understand getActiveMDIChild
591654	INCA if default comments are changed then carriage returns are changed to „ “ string
593171	INCA-TOUCH is not animating the Sequence button after saving Experiment
593259	EE HWC: Widgets are removed from EE after renaming HW more than once.
593916	INCA Touch Sequence runs not fluent
594337	Tooltip 'Experiment with full HW-access' not displayed
596122	[NetWBID1793397324] System.InvalidOperationException: Collection was modified; enumeration operation may not execute.
597764	[WBID3944159554] Primitive failed in: OSPtr>>#uint8At: due to General protection fault - read from invalid memory location
597951	EE: After INCA crashed, in Measure File from Background Recorder is no comment that RPs are not equal (follow up of #586639)
598350	[NetWBID2651798225] System.InvalidOperationException: Collection was modified; enumeration operation may not execute.
598416	[WBID2761333665] Primitive failed in: OSPtr>>#uint8At: due to General protection fault - read from invalid memory location
598433	Measure value incorrect displayed if ETK-Test Device and BYTE_ORDER MSB_FIRST is used
598745	CAN Transmit - Unable to use decimal points in the DBC Generator Signal Attributes dialog
598835	MDA/INCA: INCA EE does not write Line Width information to xda file
599499	EE: Pulldown to switch to another MAP opens only on 2nd click
600175	Ethernet Adapter are not visible in IP-Manager
600681	Font size of the calibration label will not increase while enlarging the calibration window when using "Bit Editor"
601153	OCD DLL's of ETAS BOA are still missing after INCA reinstall
602013	ASAPEditor: Hotkeys to Calibration variable values are not working.
602914	Help file change request of INCA behaviour for Monitoring devices (CAN, FLX, J1939). According to the ASAM MCD 2 MC specification INCA uses "." instead of "/"
603033	_EE: Possibly getting Monotony Error in Monitor Log after setting all Input Value to the same value and Strict Monotny is set to No
603208	With multiple recorders configured, background recorders get stuck in Waiting for Comment status and then become inactive
603248	FETK_ALIAS Name: Mapping dialog occures even when all alias, SN, infos etc. are exactly matching
604064	INCA-TOUCH: Element losing focus when moving with coursor if table is in the layer

604546	INCA-Freeze during ASAP3-session and active recording
604618	ETAS License Manager: LiMaGui V1.6.11.23 reported has stopped working when auto borrowing checkbox for Feature EHB_NAV or EHB_NAV_Basic is activated and LiMaGui is closed
604647	INCA freeze when using ES415 in configuration after 2 to 3 hours of recording
604951	[WBID1033558394] Primitive failed in: OSPtr>>#uint8At: due to General protection fault - read from invalid memory location
605100	INCA - INCA Service Pack Installer: Repair not working. Deleted files not restored. Repair Button might have no effect.
606502	Connect Device Window appears with every initialisation when ES891 and FETK is in use
606746	[WBID2882884377] Primitive failed in: OSPtr>>#uint8At: due to General protection fault - read from invalid memory location
606904	DaisyChain Configuration Tool ES930: Crash after edit channel name
607028	For 'Bit display' column 'Data Representation' is displayed in properties window.
607092	Only top layer of hierarchical trigger definition will be exported, if selected es stop trigger - Re-Import of Exported file not possible
607145	[NetWBID4071594761] System.FormatException: Input string was not in a correct format. In case, language changed to English and in XY-Scope border lines activated and second value (Y) set to 0.7 (with dot)
607660	EE: 'use predefined raster' checkbox appears disabled on Raster Selection dialog of EE for project with polling raster.
607936	Copy Paste: INCA throws an error when the cells copied from EXCEL are empty at the beginning and in between but pastes when the cell is empty at the end
608017	Target Server crash during reconnection attempts with unresponsive XCPonTCP slave
608041	Copy Paste: Value is blank after values of different representations are pasted in calibration window
608046	"Preview Output" = "Editor - - Preview window can not be closed
608066	[WBID3193837017] Primitive failed in: OSPtr>>#uint8At: due to General protection fault - read from invalid memory location - followied by [WBID1828434506] Exception in UI process
608250	INCA-MIP: MATLAB crash at IncaGetCalibrationValue if empty parameter is used
608351	COM_API: Typo in HW_SYSTEM Description for J2534 (J2354_CAN)
608439	[WBID2129116706] Symbol class's should not implement this method
608480	CDM creates unwanted folders on the user PC at dataset selection
608526	Test bench stops during duration test with ASAP3 due to access denied to working page by ECU and checksum culculation is not was not triggered. Recommendation: Check workspace configuration for connection behavior.
608545	Problem with FETK-T1.1-B CalWup measurement in calwup after ECU reset: Error message improved. A2L file corrected.
608663	[WBID3682473128] MCSDSMUIController does not understand deferRedraw:
608697	INCA-SIP: Calibration name gets an index, if its name corresponds to some workspace variable. Note: Same like #609374
608777	INCA is crashed after add new senario to Calibration Scenario Editor. (tgtsvr-crash)
608781	FETK-T3 device selection in HWC shows ETK-S22 for ES891/FETK configuration
608865	SFH for XCPonETH is executed during Open EE in OFFLINE mode
608885	Copy Paste: Possible that invalid values are accepted - VTAB
608896	[WBID92034467]MCSDSMErrorAxisMinExceeded does not understand type
608967	Slewing Widget "Reset To Reference Page" shortcut key (Ctrl + U) does not work

609237	Refresh issue in the display of widget when switched to WP page having WP column selected in CSE
609296	XCP Upload has no error handling which leads to wrong data
609374	INCA-SIP: Unexpected calibration parameters. Note: Same like #608697
609430	Creating a calculated signal with a verbal table leads to [WBID4078373620] Array does not understand convertFor:
609606	[NETWB] System.NullReferenceException Etas.EE.MCD.Asap2.Normalization.NormalizationController.<>c__DisplayClass9_0.<DeviceNormalization>b__5(IVariable v)
609730	ETAS License Manager: LicensingPostAction does not work properly and updated with F5 (only once) after initial installation
609768	Start of measurement with MDF4 is slower as with MDF3 in case wrting device information to MDF4 is switched on: Performance improved.
609887	[WBID306560295] EtasGenericECUTargetSystemDevice does not understand ethAddress
610070	[NetWBID3026253681] & [NetWBID3436845223] & [NetWBID1606794361] when opening VSD
610316	VSD: Raster matrix are disabled and non selectable and undesired raster 'predefined' appears on VSD.
610459	Icon status for Dataset, ReRunAll and Overlap check is retained after Changing Data in the dataset (ASAP2 Editor, EE and CDM).
610535	[NetWBID2982781513]System.InvalidOperationException: Collection was modified; enumeration operation may not execute.
610592	E-Target: Calibration on EE is reflected on CDM but the other way does not work
610687	[WBID4227372842] Primitive failed in: SmallInteger>>#primitiveRem: due to Divide by zero
610752	CDM: Depending from setting of User Option "Multi Raster" the content from Lab File for "Different Item" is different (but should not)
610763	Recorder was set to inactive after a given numer of repetitions but should not.
610800	EE: Possible to find New column "Predefined" is appeared in VSD Raster Matrix
610855	[WBID4078116087] IDispatch call returned an exception. ErrorCode: 0x80131501 Source: System.Management.
610896	If a Bluetooth devices has a static IP address assigned to it, it is (wrongly) listed as Interface in the IP Manager dialog.
611157	INCA-MIP: Manual corrected about depth of ring buffer. The ring buffer is limited to 1 MByte per signal and can hold up to approximately 8 seconds of measurement data dependent on the measurement rate.
611173	CDM||EE: Widget table disappears and variable can't be calibrated, when source in CDM is changed.
611358	CDM WB durting Copy QMD All: [WBID3972003626] ASAP2Function does not understand checkAxisPointsNameAt:
611375	CDM Error when attempt to copy an enumeration table
611682	FlexRay Monitoring - Additional Signals for each ECU sending the same signal
611709	X/FETK A2L driver does not update the configuration entry OmdMaxLength
611710	[WBID306560295] Character does not understand convertFor:
611838	[WBID746992785] EtasGenericECUTargetSystemDevice does not understand ethAddress
611982	Already selected or to be added array measurements are not visible in VariableConfiguration/Sources/Functions view
612054	DB_Browser: Experiment Elements - Layer update problem
612167	TF: new functionality
612221	EE: [WBID2372547412] UndefinedObject does not understand value: INCA throws wkb when trying to 'Fill WIth Value' in Combined Editor.

612222	[WBID1867593116] Primitive failed in: Object>>#at: due to Index out of range in argument 1
612223	[FETK-T3]: "Error converting physical to access address" is sent by FW when SuD17 is used in specific cases
612277	INCA-MCE Manual: Missing information in Manual reagrding obligatory Multicast Usage in case of FETK
612288	CDM writes different physical values in different maps during listing maps to data exchange files (e.g. e.g. DCM, CDF, PaCo, CVX)
612519	ES830: Problems in searching Connected Hardware's after initializing ES830
612529	ES830: Problems in searching Connected Hardware's after initializing ES830
612539	WBID1819875962 while opening experiment; SmallInteger does not understand specification
612541	Calibration variables are not recorded consistently with Calibration Recording enabled
612660	INCA crash after measurement overflow
612696	ES891: INCA V7.2.12 might change the FETK Port wrongly to 1 during initialization
612770	[WBID2550121805] UndefinedObject does not understand getPhysValue - Walkback in CDM when using Inline compare feature
612772	MCD3 eLT_Download command taking extensively longer time in INCA V7.2.9 than with INCA V7.2.5
612993	XCPonCAN-FD Resume Mode does not work correct
613425	CAN Monitoring with no header PDU works partly not. Recommendation: Correct arxml file.
613429	EE: WB([WBID4002670554] MISSING 42 in krn) when open EE and closing KVL Raster Full Behavior Dialog by pressing ESC
613557	ProF compiler throwing an error when parameter in RUN_DLL command is set to spaces (e.g.: RUN_DLL(....," ")
613614	Changed display (size of chars) of bit masks in VUI
614186	Copy action in CDM triggered by API does not reflect in ECU
614335	INCA Changed Default behavior with API command CopyReferencePageToWorkingPage: With INCA V7.2.10, "Do you want to create a new Dataset" of this command was changed to "Yes". Reverted with INCA V7.2.13
614480	VN5610 Capture Driver - Port configuration - Capturing can not be configured
614545	[WBID3930005421] UndefinedObject does not understand gmhmDebugPrint:level:locationIndex:
614945	Write hex-file: Path set to default path when hex was added from integrated network drive
615140	[WBID307309302] UndefinedObject does not understand fileExtension
615162	Measurement on all 4 CAN-Channels of VN1630 only randomly possible
615432	Daisy Chain Configuration Tool error opens with error: the a1b_es400.dll not found
615498	INCAV V7.2.13 Beta: Network Manager does not select the correct card
616042	INCA-EIP: Start of OS-button of INCA-EE doens't start OS
616052	INCAV V7.2.13 Beta: IP Manager with Auto IP is switching to no adapter when finish settings dialog

5.10 INCA V7.2.12 HF2

See also section INCA V7.2.12 and INCA 7.2.12 HF1

- Especially sections *(solved) known issues* and in *new features* the point *"With INCA V7.2 SP12 the FETK mapping feature will be introduced which will have an impact on the former behaviour of FETK`s during the initialization phase."*

5.10.1 Bug Fix

EHI #	Title
613557	ProF compiler throwing an error when parameter in RUN_DLL command is set to spaces (e.g.: RUN_DLL(....," ")

5.11 INCA V7.2.12 HF1

See also section INCA V7.2.12

- Especially sections *(solved) known issues* and in *new features* the point *"With INCA V7.2 SP12 the FETK mapping feature will be introduced which will have an impact on the former behaviour of FETK`s during the initialization phase."*

5.11.1 Bug Fixes and Improvements

KIR-issue solved, see also *ETAS Download Page*, and one further EHI-Call:

- #612288 CDM writes different physical values in different maps during listing maps to data exchange files (e.g. e.g. DCM, CDF, PaCo, CVX)

  IF
  the "Preview about info" is enabled
  AND
  exactly one of the parameters in the 'variables to process' window is highlighted
  AND
  CDM does a listing to a data exchange file
  THEN
  it is possible that wrong values are written to the data exchange file.

  Note: The wrong values come from the display update of the about dialog. If the display update runs while CDM does the listing, the values of the about dialog may be written to the data exchange file instead of the parameter values.
  As the display update is initiated by the Operating System, the wrong value may occur on every location in the data exchange file.

  Affected INCA Versions are from INCA V7.0 to V7.2.12.

  Workaround: Switch off "Preview about info": Change the CDM Setting, "Pre-

viewer", "Preview about info"-Option to **No** in each CDM-configuration.

EHI #	Title
612288	CDM writes different physical values in different maps during listing maps to data exchange files (e.g. e.g. DCM, CDF, PaCo, CVX)
611710	[WBID306560295] Character does not understand convertFor:

5.12 INCA V7.2.12

5.12.1 Recommended Installation

It is strongly recommended to update and down date INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack Installer.

Very important: After the installation, a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.12.2 New Features and enhancements

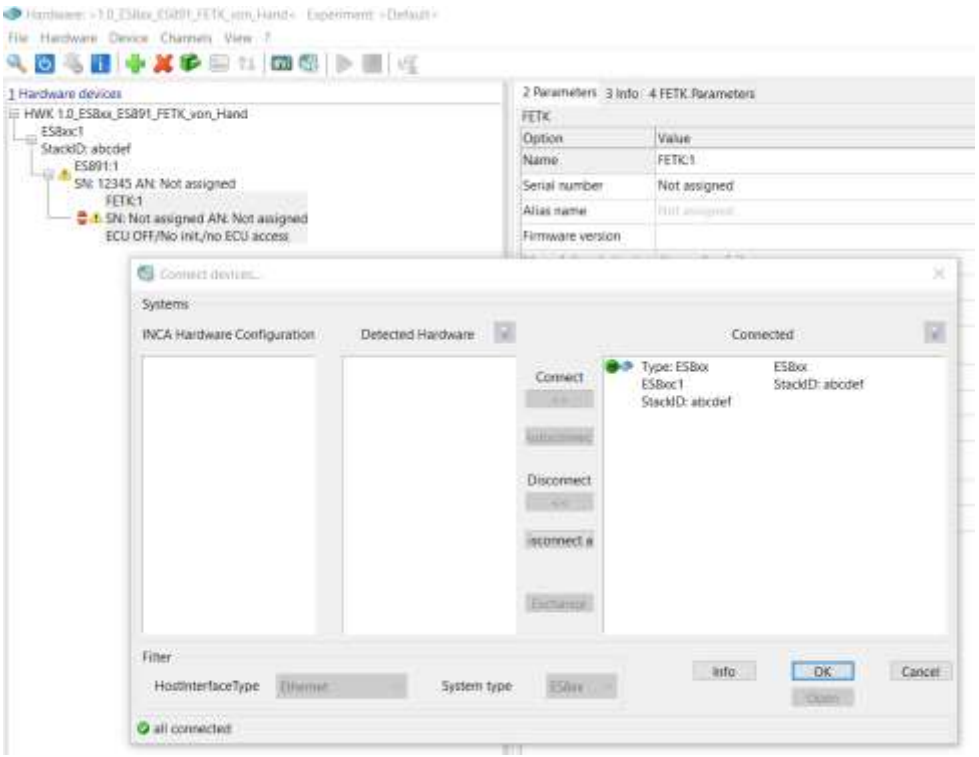
- All news of the current INCA Service Pack see INCA-V7.2 SP12 -Whats-new.pdf.
- With INCA V7.2 SP12 the FETK mapping feature will be introduced which will have an impact on the former behaviour of FETK`s during the initialization phase.

  The FETK´s have now the same behavior like all other Ethernet devices concerning the mapping of configured and found devices. Devices can be mapped by different criteria.

  Now it might happen that an older workspace where no serial number parameter has been set yet must be mapped manually or the serial number has to be configured manually:

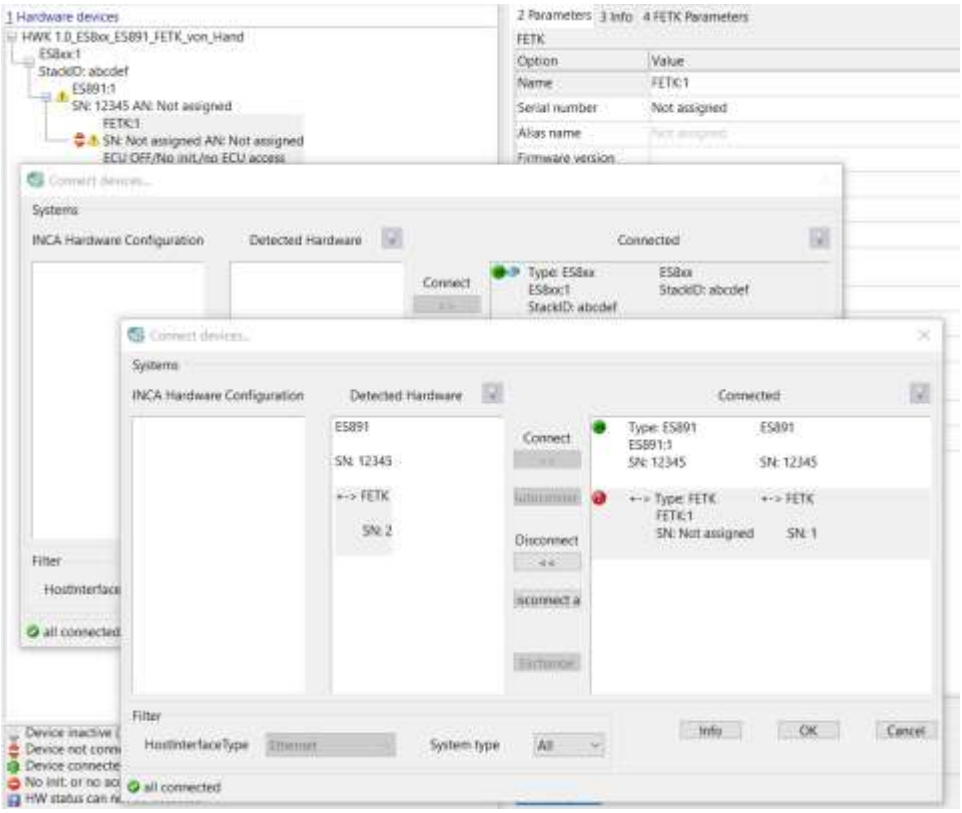
  - Szenario1: Old workspace with one FETK without a configured serial number (SN) and more than one connected FETK. In this case, INCA cannot map the devices by any criteria and has to estimate which FETK is the right one.
  - Szenario2: Workspace with one FETK with SN and more than one connected FETK and no criteria (serial number, alias name or serial number history) is fitting to map the configured FETK to the right FETK. INCA has to estimate which FETK is the right one.

  For FETKs, which are connected to an ES89x module, there is a special behavior in the mapping dialog. The mapping dialog opens with the stack view of the ES88xx modules and not the standard view where all Ethernet modules can be mapped.



In this dialog, the user cannot see that INCA estimates the connection for the FETK. In this dialog only the status of the stacks is visualized.

If the user now runs into the problem that the already existing workspace cannot initialize successful anymore. The reason could be the not visible estimated connection, which could be the wrong one. To resolve this, the user either has to open the mapping dialog manually from the stack view and map the devices manually or configuring the right serial number manually to the configured device in the INCA HWC.



Here the user sees that INCA made an estimation and can change the selection manually.

- #606766 ARXML with linear and textual conversion show only one of the conversions. Further improvement of #595271 of INCA V7.2.10.

  In case of AUTOSAR files with nested conversions (i.e. SCALE_LINEAR_AND_TEXTTABLE compu method) used for CAN Monitoring, INCA V7.2.9 and former versions created one signal (SignalY) with a textable compu method. There was no signal available for the linear part of the nested comversion.

  With INCA V7.2.10 the missing linear part was solved (solution of Call #595271), by creating two signals called SignalY.linear and SignalY.texttable. The signal (SignalY) was no longer created. This renaming was needed, since we had to introduce 2 signals for "SignalY", which must have different names and shall be consistent to the Fibex use case.

  -> If customers used "SignalY" in their experiments of INCA 7.2.9 (or older), the signal was removed from the experiment when using it in INCA 7.2.10 or 7.2.11. "SignalY.texttable" or "SignalY.linear" had to be added manually to the Experiment again.

  Change with INCA V7.2.11HF1 and higher:
  As this leads to a break in customers tool chains, with INCA V7.2.11 HF1 and higher, the variable SignalY is generated again (in addition to SignalY.linear and SignalY.texttable) and is no longer removed from experiments.

5.12.3 Known issues of INCA V7.2.12 – Important Hints

- Important hint about **upgrade of the ETAS License Server** to Version 11.15.1 by end of 2018.
  See `\Documentation\WhatsNew\IT Information about Upgrade of ETAS LicenseServer.pdf`
  Note: With INCA V7.2.12 an upgrade of the ETAS License Server is now finally required.
- Important hint about **change of the Grace Mode of ETAS Software products.**
  This change will come with LIMA V1.7.1 scheduled for Q2/2019 and will affect all Software Products, providing Grace Mode, namely:
  ASCET, INCA, INCA-FLOW, INTECRIO, INTECRIO-RLINK, ISOLAR-EVE, MDA, SCODE-CONGRA, SCODE-ANALYZER and their Add-ons
  See `\Documentation\WhatsNew\..`
  `..Change of Grace Mode 2019_03_NE.pdf`
  `..Change of Grace Mode 2019_03_DE.pdf`
  Note: This will affect INCA V7.2.13 and higher.
- Important hint about **INCA / MDA Support Stop of Windows 7**
  Microsoft announced the end of the Extended Support for Windows 7 by January 14, 2020.
  Therefore, ETAS will discontinue the development and maintenance of Windows 7 support for INCA and MDA as following:
  - Versions and service packs of INCA and MDA, released after January 14, 2020, will no longer support Windows 7.

  See `\Documentation\WhatsNew\..`
  `.. Maintenance Stop INCA Windows 7 EN.PDF`
  `.. Maintenance Stop INCA Windows 7 DE.PDF`
- #610459 Icon status for Dataset, ReRunAll and Overlap check is retained after Changing Data in the dataset (ASAP2 Editor, EE and CDM).
  The immediate update of the Icon caused a major side effect effecting Bench operation via ASAP3.
  Workaround: Changing the focus will update the Icon to correct status. It is planned to solve this issue with INCA V7.2.13.
- Important information to the ES886.1 module
  The ES886.1 module is PREPARED for Ethernet monitoring. The functionality will be delivered in a subsequent HSP package and INCA Service Pack.
- #596696 XCP V1.4 - Compatibility of XCP 1.4 with former INCA versions: A2L files containing XCP 1.4 cannot be used in INCA V7.2.7 and former versions at all, even not for other protocols (e.g. if containing CCP, UDS, KWP2000, ETK etc. descriptions).
  Workaround: Remove the XCP V1.4 part to use other parts of the A2L file
- #605100 INCA - INCA Service Pack Installer: Repair not working. Deleted files not restored. Repair Button might have no effect.
  Repair of the installed INCA V7.2 works not in all cases.
  If a repair of INCA is needed, uninstall INCA and install the INCA Service Pack anew
  OR
  install (update or down date) another INCA V7.2 Service Pack.
  This issue will be solved with INCA V7.2 SP13.

- #603952 API: Trigger Condition is not taken over correctly - though command is executed with True
  and
  # 601299 Complex trigger condition cannot be set using the COM-API
  Due to Call 601299 now an API Error is returned if Trigger Parse did not parse until the end. This is required as else parser fails and INCA would run into following error/ random condition. In this Case the Parser stops because of blanks in Device Name.
  Workaround: Rename Device Names with blanks to Device Names without blanks. This is required in HWC and in API - calls.

5.12.4 Known issues solved with INCA V7.2.12 – Important Hints

- #591892 INCA FlexRay Monitoring with Fibex file: No measurement values for signals of Multiplexed-I-PDUs contained in a Multiplexed-I-PDU
  FlexRay monitoring signals of a Multiplexed-I-PDU that are contained in another Multiplexed-I-PDU (nested) cannot be measured with INCA (i.e. no value update) when using a Fibex input file.
  AUTOSAR input files are not affected.
- #603532 When using INCA V7.2.11 with MDA V7.2.10 and do a recording MDA crashes and shows a problem with CalculatedSignals.dll
  When using INCA V7.2.11 or higher, it is necessary to use at least MDA V7.2.11, as the shared component 'Calculated Signal' has been updated with INCA V7.2.11.
  Note: It is no issue with MDA V7.2.11 and INCA V7.2.10.
  Solved with MDA V7.2.12 and INCA V7.2.12.
- #604097 Alias name for ES582.1 by multi byte characters caused system error. [WBID317112320] Primitive failed in: Object>>#at:put: due to Invalid class in argument 2
  Usage of 2byte characters as alias-name (e.g. Chinese, Japanese characters) is currently not supported and leads to a WB.
  The same issue is with all ES59x devices (e.g. ES590, ES591, ES592), ES582 and ES584 - USB devices.
- #597792 Copy Paste: Excel table entries with gaps are handled in unexpected way.
  Copy of table/maps/arrays with gaps (no entry in a cell) is not supported. Current behavior of INCA is wrong.
  E.g. in case of gaps in each row of a 4x3 array, after the copy paste action from Excel to INCA the gaps are filled with the next valid value of the row. This means that after the copy paste action such array is copied as a 3x3 array.
  Note: With INCA V7.2.12 it is planned to stop such undefined copy action with an error.
- #607198 Measurement ended sporadically without stop-trigger or customer interactions due to less memory of the used computer system.
  The "LowMemory" warning in the TgtSvr.log has been improved. It now reports the remaining available phys memory so that it is clearly visible, that the computer has too less memory.
  Solution of this issue: Increase physical RAM on the computer system.

5.12.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
398430	[WBID3362704584] UndefinedObject does not understand writeSingleShotValue:timeSource:
401079	[WBID4169989938] Array's should not implement this method
444184	EE: Fill with values prompter does not display the default value when data representation is Phys
458968	INCA crash during ToolAPI Test after downloadWorkPage Command - [WBID3998453027] EtasDynamicEmuRAMV1CalibrationMethodWrapper does not understand canManageMemoryPages
487080	EE: MDF3 - possible that recording switches from recording directly back to visualisation and prints in monitor "offset"
496783	[WBID3054930112] RBFolder does not understand getProject - When set path via Tool API without DataSet: CDM -> SetSourceDataSet -> Set Path
512943	EE: Changing device name in HWC||EE and hw init in EE leads to not active rasters in VSD
543312	Color of Y-axis in new osci changes if other variables are moved to this axis
547101	EE: When open EE (with triggers) with key variable list added labels could lead to invalid recorder configuration
550175	INCA might drop samples with same timestamp without warning or error for Multiraster signals or Calculated signals if different samples with the same time stamp are received. Then only the first sample is written into MDF file.
553551	API: Command "ReadHexFile" does not work with HEX file without code, if read a complete HEX file bevore
556542	DatabaseBrowse: User recommendation after a INCA crash points to the wrong menu location
560701	Variables from device are no more found after exchanging project.
561447	Error: Das Gerät >ETK-Testgerät:1< ist schon verwednet
567860	Delete Layers in Experiment -measuremnet cannot be started
570432	DynEmuRam with part EMU: <targetServer Error> HCD command to ASAP1b driver with invalid parameters
575402	MCE: Cyclic delay(~20ms) by transmitting DAQ lists on iLink (each 10 sec). Notes: Solved with HSP V11.12.0
577089	[NetWBID2319331352] System.InvalidOperationException: Variable 'Zeit\CalcDev' not found in device 'CalcDev'
577126	INCA API cannot proceed after crash if some DB element was corrupted and needs to be recovered
577349	[WBID2138975053] Invalid operation during callback
584293	EE: Targert Server crash when changing device name in EE||HWC with a name containing "%%%" characters
585600	[NetWBID2004865831]System.InvalidCastException: Unable to cast object of type 'System.__ComObject' to type 'Etas.TargetServer.Interfaces.IRCFillLevelDevice'.

585831	Daisy Chain AddOns for ES4XX, ES6XX and ES93X: Tgtsvr and the corresponding ucrtbase processes increases CPU time consumption after each power Off/On for ES891.
586128	IPM - IPM Server hangs until master is terminated (Multimaster client use case)
586485	Division by Zero leads to Error in calculated signal of type "Threshold". Solved with INCA and MDA V7.2.12
587670	[WBID2377665786] (ExCLDTKeyNotFound) Key not found.
588809	[WBID1350091369] UndefinedObject does not understand detect:ifOne:
589851	[WBID3421345940] UndefinedObject does not understand gmhmDebugPrint:level:locationIndex:
591892	INCA FlexRay Monitoring with Fibex file: No measurement values for signals of Multiplexed-I-PDUs contained in a Multiplexed-I-PDU
592203	HWC: Possible that "Next" does not select the next entry in search results
592306	CDM: The CDM Outputfilename ,tooltip does not show up the actual value for the selected variable if ariable is prefixed with $
594248	Issue moving variables in Variable Order window
594666	CDM_Path_feature: The “output path” ,if left blank is not replaced with any default string and thereby output file is generated with blank name.
595912	Detection of foreign IP adress should be clearly shown
596185	HWC: Possible that found entry is not marked in Device Tree from Add HW Device Dialog
596633	INCA V7.2.10: Navigating down on the Database objects has increased by 15%
596677	[WBID3124119375] String does not understand path
596983	[WBID3986681704] UndefinedObject does not understand >=
597117	[WBID3612347985] (ExCLDTInvalidSize) Invalid size.
597201	INCA-SIP manual: Hint regarding non-support of #RAMCal device is missing
597246	ETAS License Manager: LiMaServer.exe crashes with Dump file and error 0xE06D7363
597792	Copy Paste: Excel table entries with gaps are handled in unexpected way
598111	CopyPaste: Possible that Paste does not work for Matrix
599996	[WBID1580952521] UndefinedObject does not understand updateETargetGroupForHWChanges
600062	[WBID3684876175] UndefinedObject does not understand experiment
600111	[WBID306560295] EtasL1AccessScalar does not understand calibrationObject
600158	[WBID3792328954] SmallInteger does not understand addLabel:for:
600184	[WBID2526214534] Invalid operation during callback
600318	Oscilloscope Sample Connection Steps: Oscilloscope starts to draw line for signal even if not received at all
600323	INCA crash because Targetserver cannot be started if C:\Program file is available. Recommendation: Rename this file as Windows does not support this. File or folder on computer called "C:\Program" could cause certain applications to not function correctly
600366	Read/Write of adaptive parameters not consistency
600738	MDA does not take over the signal properties in an oscilloscope correctly using the snapshot functionality. Note: Solved with INCA V7.2.12 an MDA V7.2.12
600769	[WBID515105712] (ExCLDTIndexOutOfRange) Index out of range.

600812	[WBID3783984255] UndefinedObject does not understand do:
600905	[WBID1654661410] (ExCPMStackOverflow) A stack overflow has occurred.
600961	INCA_Tutorial_R7.2 improved/corrected
601226	Copy Paste: No Error message displayed when pasting data containing invalid rows into Combined Editor of Array or Curve
601299	Complex trigger condition cannot be set using the COM-API
601307	Copy Paste: Paste Error displayed when pasting values into Scale of Rescale Axis Pair label
601328	INCA-SIP: When 2-d lookup table value is changed, it takes much time to apply the changed value.
601383	[WBID367498641] UndefinedObject does not understand + occurs when copy pasting a value from one column to another
601453	INCA-MCE is not supporting LINEAR as Conversion Type for COMPU_METHODS
601506	[WBID4169651993] UndefinedObject does not understand tsdMaxSize
601625	Copy Paste: Cuboid accepts invalid data pasted from Excel
601977	INCA-SIP: If sCompileModel flag is not set, variables from sub-models are not loaded - except those are loaded in MATLAB previously
601985	INCA-SIP: SIP does not assign measurement inputs as axis of a Map
602016	Message window appears "CDM: List 1459 selected variables" which cannot be canced
602043	INCA-SIP: "data type propagation" block throws an error at connect
602048	INCA-SIP: Simulink mask type "Bitwise Operator" throws an error is 'Stored Integer' parameter type is set
602050	INCA-SIP: "Lookup Table Dynamic" block throws an error if 'OutDataTypeStr' mask parameter differs from "edit"/"checkbox"/"popup"
602060	INCA-SIP: 'tapped delay" simulink block throws an error if 'DelayOrder' mask parameter is set to default value 'Newest'
602061	INCA-SIP: Non-standard name of some simulink block leads to a2l/s19 not created without any error message on MATLAB side
602318	[WBID3720820752]Primitive failed in: String>>#at:put: due to Value out of range in argument 2
602330	EE: [WBID3672605058] UndefinedObject does not understand isPollingSignalGroup: WKB appears when <Spcae> is pressed on 'Raster Selection' dialog.
602333	EE: User is able to select polling raster even when setting 'Enable messurement by polling' is set to 'Keep existing'.
602457	[WBID814094199] (ExCLDTIndexOutOfRange) Index out of range.
602640	[WBID452625898] String does not understand - followed by [WBID1828434506] Exception in UI process. Note: No longer reproducible with INCA V7.2.10
602732	Copy Paste: Pasting from Excel works even when monotony is violated for Cuboids
602738	INCA behaves inconsistently when pasting a hard bound exceeded values to an editor. Now values are limited to bounds and error displayed
602751	FETK Alias Name: Search for hardware returns no more devices when one was already selected and assigned to HWC
603011	[WBID2740462102] receiver must be a boolean. Note: Already solved with INCA V7.2.11.
603015	ProF: bin2sort.dll does not support filename with multiple dots
603042	EE: Fill with Value does work in different ways for multiselected scale
603047	[WBID306560295] ASAP2EtkIFData does not understand isEmpty

603092	FETK ALIAS Name: Serial Number and ALIAS not upadated after HW init when device is added manually
603133	CDM creates Windows folder in the original path of project/dataset, independent of configuration settings
603135	Trace Raster Priority is not changed to a valid range (when the cfg file is generated) when there is no D17 raster in the project
603170	IPMServer might stop working
603315	CDM Inline Editor: Possible that it looks like that many destinations are compared with Source
603347	[WBID1317326452] UndefinedObject does not understand device
603355	Not editable destination displayed greyed out for a scalar, not for maps and curves in the embedded editor if inline comparison view activated
603363	[NetWBID2784567072] System.NullReferenceException: Object reference not set to an instance of an object. - when setting Grouped Reference Device in VSD opened by Trigger Editor.
603459	Closing the INCA takes 2 to 10 Minutes since the Measurement file format was changed to MF4. Improved to same level as with DAT (to approx. 6-9 Sec.)
603460	Copy Paste: Paste Error displayed when copying valid values from Map to Array
603487	VSD: Same labels are shown twice in Display Configuration, when variables are multiselected in VSD.
603501	NaN: "[WBID2339540550] (ExCPMStackOverflow) A stack overflow has occurred." can occur when adding adaptives
603518	CDM_Comparision in pre-viewer: Result of map/curve with different size leads to double value in all cells even if the value is the same in both compared csv files.
603532	When using INCA V7.2.11 with MDA V7.2.10 and do a recording MDA crashes and shows a problem with CalculatedSignals.dll
603538	Copy Paste: [WBID1531692464]/[WBID324554201]/[WBID1190313834] Occurs when pasting copied data into fixed axises of Curve, Map and Matrix
603543	[WBID1122515093] (ExCLDTIndexOutOfRange) Index out of range
603641	ETK Tool: Not possible to release Reset as long ECU is unpowered
603692	INCA does not read A2L file with "\\" in String
603797	Not possible to add lab file to DDS config. Note: Already solved with INCA V7.2.10 and corresponding DDS
603803	Not possible to install ETAS product due to missing MSI files. Recommendation according Microsoft: Keep the original package source files secure and available to users, but do do not delete them.
603814	[WBID1380917098] UndefinedObject does not understand <
603841	COM API: WB with Command SetFloatImplValuesRange(): [WBID4262905378]: Primitive failed in: Object>>#at:put: due to Invalid class in argument 2 : Command SetFloatImplValuesRange
603850	Changing Raster in the Variable Configuartion after having opened the Raster Info
603911	ETK Tool: Cannot craete an A2L file of a project with mixed families (e.g. FETK-S1.1B, FETK-T1-1B and an BR-XETK-S3)
603952	API: Trigger Condition is not taken over correctly - though command is executed with True
603995	[WBID747154900] String does not understand \\
603996	[WBID1477195478] UndefinedObject does not understand gmhmDebugPrint:level:locationIndex:
604030	Copy Paste: Incorrect error message displayed when copying entire data from 1 matrix to another with different dimension

604097	Alias name for ES582.1 by multi byte characters caused system error. [WBID317112320] Primitive failed in: Object>>#at:put: due to Invalid class in argument 2
604099	[WBID3906730368] UndefinedObject does not understand asMilliseconds
604238	INCA crashes at EE-file import [WBID3370493158] (ExCLDTObjectNotFound) Object not found.
604260	[WBID1423632391] UndefinedObject does not understand id
604304	[WBID1823422269] receiver must be a boolean
604315	LABCAR CCI: During CCI tests INCA crashes
604342	[WBID1541010895] UndefinedObject does not understand asHexString
604433	INCA Touch does scale down objects in Touch Window with different scaling beteween two monitors
604447	[WBID950993071] EtasCANMonitoringDevice does not understand referenceData - Walkback when select Ctrl+Shift+C in Experiment. Note: Crtl+Shift+C/B/E is only for calibrations.
604455	ETK Tool: Not possible to release Reset as long ECU is unpowered: The behavior in XCT and INCA is expected to be the same for slewing memory area defined in an a2l file
604500	XCP_CAN : INCA crash is observed while performing calibration with ES581.4
604502	[WBID306560295] OrderedCollection does not understand includesKey:
604571	[WBID306560295] CfsError does not understand stMtime
604604	CDM Inline: When open CDM config in EE with some data exchange files 2 blue arrows are shown in destination list
604649	Targetserver reports 'The device >XCP:2< is already present (TgtSvr.log)'
604685	Copy Paste: [WBID1630299572] UndefinedObject does not understand isValueBoolean occurs when copying entire data from one curve to another
604716	[WBID2440347218] Dictionary does not understand isDefaultPort - when open experiment and confirm error message.
604746	Copy Paste: Paste Error displayed when copying valid VTAB value from Curve to Map
604807	[WBID1049487582] CfsError does not understand stMtime
604815	EE: "[WBID3523418792] MCSNameObject does not understand indices" can occur when changing name of device in HWC after calibration in CDM
604871	After Undo possible wrong value is shown for Rescale Axis Pairs when using Scales percentages
604897	INCA-VoiceRecorder: Description in Voice Recorder was partially displayed in German
604946	CDM Inline: CDM Inline compare view still visible after remove of destination
604949	No Monotony Error Message in case each item of Rescale Axis in Combined Editor was set to the same value. Works correctly if "Fill With Value" was used.
604959	INCA Network manager is not overtaken manual settings after pressing next and finish
604977	Sample Point is not taken over for XCPSimTime-Device on CAN-FD
604981	Request to reset ECU is not closed automatically after ECU is turned off with FETK
605079	INCA-MCE is not supporting COMPU_VTAB_RANGE for COMPU_METHODS References
605145	Durging merging overload error the NLS - variable %s (should be a device) is not replaced by a text string 'Either there is to much offline lag for the input data from device %s'

605241	Copy Paste: Pasting entire clipboard data won't work as expected. Middle x-axis value changes unexpectedly.
605259	CDM: When changing value of rescale-Axis, new value is not overtaken properly
605325	[NetWBID274004231] System.Data.EvaluateException: Fehler im Like-Operator: Das Zeichenfolgenmuster ist ungültig.
605327	[WBID2516603018] ASAP2BytesMeasurement does not understand axisPtsX_ After reading a2l generated by subset generator
605419	#MeasureCal signal show anomalies in the measure file where as the PorcesslogV2 TgtSvr.log report the expected behavior
605735	Bug im a2l Parser - valid A2l from ARXML cannot be used in case "\\" in String
605898	Copy Paste: [WBID2023549468]/[WBID3173140427]/[WBID1615817451] UndefinedObject does not understand copyTypeString occurs when pasting blank cells to combined editor
605953	INCA-ODX: Special characters for units of diagnostic signals cannot be used on Asian OS windows systems. Added “OBDonCAN_ETAS_SAEJ1979_2017-02 special units.pdx” to the INCA-ODX installation as additional .pdx file for the Asian market.
605969	Unknown API error if attempt to set APIMatrixDataElement of type real64. Note: Already solved with INCA V7.2.10.
605992	[WBID2943876443] UndefinedObject does not understand evaluateValuesOfDependentParametersInfluencedBy:experimentView:
606004	Manual Calculated Signals - LookupGenerator path needs to be updated (CalculatedSignals_Manual...PDF updated)
606095	When changeing the FontSize in Calibration Windows the font size in CDM Inline Compare and ASAP2 Editor is not correct.
606183	When open Experiment or HWC - [WBID389492979] Primitive failed in: OSPtr>>#memcpyFrom:to:into:startingAt: due to Invalid class in argument 2
606284	Adaptive Parameters - WB when selecting adaptive parameters in EE - [WBID1310713766] Character does not understand +
606309	Trigger activation duration is longer when CAN monitoring signal used in experiment.
606353	[WBID4235588697] UndefinedObject does not understand getImplValue - when open not equal Calibration in CDM with inline compare
606439	[WBID306560295] UndefinedObject does not understand gmhmDebugPrint:level:locationIndex:
606446	ProF: When selecting a ProF to install in INCA MPM in path C:\ETASData\ProF errors come up
606515	LogViewer error by closing application
606540	Experiment with Korean character in the unit can not open.
606593	Ulong with Bitmask is not displayed correct in Bit-Display
606615	CDM: Open CDM Preview with shortcut CTRL+W not possible with INCA default settings
606766	ARXML with linear and textual conversion show only one of the conversions. Further improvement of #595271
606861	[WBID2101519020]: Undefinedobject does not understand copy ToOSMemory
606982	ProF: Flash Operation Prof with ES581.4/MDG1 is interrupted at 'Erasing CB area'. Note: Solved with HSP V11.12.0
607085	Jump to unintended column in calibration window after switch from one windo into another window
607185	Controller configuration for FLX fails due to values are out of range

607198	Measurement ended sporadically without stop-trigger or customer interactions due to less memory of the used computer system.
607331	[WBID306560295] UndefinedObject does not understand do:
607341	INCA shows unexpected error "The Distab output table must be located inside a trace window" with FETK-T1.1B and supplementary Distab
607370	Not possible to reinitialise when reconnect VN HW
607449	After import of calculated signals with same input signal recording is not possible
607494	ES593 and VN1630 cannot be used at the same time if VN1630 is added to existing config
607538	After the export of project, error message and connection to hardware (ES581.3) lost
607628	ETAS License Manger: Gui has stopped working
607816	System error when Calibrating Group_MAP - [WBID2787703177] UndefinedObject does not understand isEmpty
608027	Read Hex File works very slowly for encrypted network drives
608046	"Preview Output" = "Editor - - Preview window can not be closed
608267	Limited EMU-RAM - Copy CDM from EE: copy action works significant slowly as a copy DCM in EE
608271	[WBID1033922085] (ExCLDTObjectNotFound) Object not found.
608300	[WBID1885715013] Primitive failed in: EtasPrimitiveError>>#primitive:withArgument:backUp: due to General protection fault - read from invalid memory location
608324	[WBID1684481673] Primitive failed in: Object>>#at:put: due to Index out of range in argument 1
608332	XETK Flash process stops when LA4 is a part of used workspace
608345	EW_7.2.4: ASAM3: 10s delay after GET_ONLINE_VALUE. Notes: Solved with INCA V7.2.9.
608491	EE: WB([WBID1693360456] RBDataMatrix does not understand weakBoundaries) after Undo for special Matrix
608511	ODX on Win10: Importing an ODX project results in a walkback: [WBID821571823] UndefinedObject does not understand modified.
608517	Full Help only available on English
608520	EE: Possibly getting unexpected Monotony Error Message for Rescale Axis Pairs
608563	tf
608920	INCA crash while assigning project with XCP V1.4 device: [WBID3058045080] UndefinedObject does not understand compareGreaterThan:
609496	Copy Paste: [WBID1822867421]/[WBID2962546853] Primitive failed in: String>>#at:put: due to Invalid class in argument 2 occurs when pasting incorrect Cuboid complete data into Map
609659	INCA V7.2.12 Beta: [WBID930084744] UndefinedObject does not understand asHWItemCategoryCombination - due to obsolete version 301 of hwDescription xml files in KiBox. Should be updated to V303.
609791	EE: Distance of bit string too narrow in case size of text (zoom) is set higher than 100%
609871	[WBID3948410969] + [WBID526537052] UndefinedObject does not understand this_is_an_intended_walkback_the_real_one_occured_just_before
610159	Copy Paste: Walkback upon pasting blank cell on calibration editor. [WBID1994310178] (ExCLDTIndexOutOfRange) Index out of range.

610435	INCA V7.2.12 Beta: [WBID3770229882] UndefinedObject does not understand getCANControllerChildren - if "Default KWP2000 Flash Port Type for ETK" is set to "CAN" and XETK in HWC selected

5.13 INCA V7.2.11 HF1

See also section INCA V7.2.11, please.

5.13.1 Improvement

#606766 ARXML with linear and textual conversion show only one of the conversions.
Further improvement of #595271

In case of AUTOSAR files with nested conversions (i.e. SCALE_LINEAR_AND_TEXTTABLE compu method) used for CAN Monitoring,
INCA V7.2.9 and former versions created one signal (SignalY) with a textable compu method. There was no signal available for the linear part of the nested comversion.

With INCA V7.2.10 the missing linear part was solved (solution of Call #595271), by creating two signals called SignalY.linear and SignalY.texttable. The signal (SignalY) was no longer created. This renaming was needed, since we had to introduce 2 signals for "SignalY", which must have different names and shall be consistent to the Fibex use case.

-> If customers used "SignalY" in their experiments of INCA 7.2.9 (or older), the signal was removed from the experiment when using it in INCA 7.2.10 or 7.2.11. "SignalY.texttable" or "SignalY.linear" had to be added manually to the Experiment again.

Change with INCA V7.2.11HF1 and higher:
As this leads to a break in customers tool chains, with INCA V7.2.11 HF1 and higher, the variable SignalY is generated again (in addition to SignalY.linear and SignalY.texttable) and is no longer removed from experiments.

5.14 INCA V7.2.11

5.14.1 Recommended Installation

It is strongly recommended to update and down date INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack Installer.

Very important: After the installation, a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.14.2 New Features and enhancements

- All news of the current INCA Service Pack see INCA-V7.2 SP11 -Whats-new.pdf.
- The following new errors were implemented (the error message is also displayed in the INCA Monitor window):

Error ID	Corresponding error text	Comment
E_RECORDER_ACCESS_DENIED	No sufficient access rights to work with %s. permission denied	There are problems with file rights.
E_RECORDER_FILENAME_LIMIT	File %s cannot be created in directory. Path Maximum Characters limit was reached.	This is determined by the pathlen. The path must not be bigger than MAX_PATH characters.
E_RECORDER_SHARING_VIOLATION	File %s cannot be created in directory. Sharing violation.	This is an error where there is a sharing problem caused by another process/service/server.
E_RECORDER_OTHER_ERROR	"Error %d, creating directory >>%s<<." or L"%s: Error >> %s <<.	This is any other Windows error when creating the directory or file, the Windows error description is appended.

- #598102 ES820 cannot start the experiment from the attached export due to length (>260 char) of created (temp.) measure files.

5.14.3 Known issues of INCA V7.2.11 – Important Hints

- #603532 When using INCA V7.2.11 with MDA V7.2.10 and do a recording MDA crashes and shows a problem with CalculatedSignals.dll
  When using INCA V7.2.11 or higher, it is necessary to use at least MDA V7.2.11, as the shared component 'Calculated Signal' has been updated with INCA V7.2.11.
  Note: It is no issue with MDA V7.2.11 and INCA V7.2.10.
- #604097 Alias name for ES582.1 by multi byte characters caused system error. [WBID317112320] Primitive failed in: Object>>#at:put: due to Invalid class in argument 2
  Usage of 2byte characters as alias-name (e.g. Chinese, Japanese characters) is currently not supported and leads to a WB.
  The same issue is with all ES59x devices (e.g. ES590, ES591, ES592), ES582 and ES584 - USB devices.
  It is planned to enhance this with INCA V7.2.12.
- #596696 XCP V1.4 - Compatibility of XCP 1.4 with former INCA versions: A2L files containing XCP 1.4 cannot be used in INCA V7.2.7 and former versions at all, even not for other protocols (e.g. if containing CCP, UDS, KWP2000, ETK etc. descriptions).
  Workaround: Remove the XCP V1.4 part to use other parts of the A2L file
- #591892 INCA FlexRay Monitoring with Fibex file: No measurement values for signals of Multiplexed-I-PDUs contained in a Multiplexed-I-PDU
  FlexRay monitoring signals of a Multiplexed-I-PDU that are contained in another Multiplexed-I-PDU (nested) cannot be measured with INCA (i.e. no value update) when using a Fibex input file.

AUTOSAR input files are not affected.
Note: Solution is planned with one of the next INCA versions

- #597792 Copy Paste: Excel table entries with gaps are handled in unexpected way. Copy of table/maps/arrays with gaps (no entry in a cell) is not supported. Current behavior of INCA is wrong.
  E.g. in case of gaps in each row of a 4x3 array, after the copy paste action from Excel to INCA the gaps are filled with the next valid value of the row. This means that after the copy paste action such array is copied as a 3x3 array.
  Note: With INCA V7.2.12 it is planned to stop such undefined copy action with an error.
- Important hint about **planned upgrade of the ETAS License Server** to Version 11.15.1 by end of 2018. See `\Documentation\WhatsNew\IT Information about Upgrade of ETAS LicenseServer.pdf`
- Important information to the ES886.1 module
  The ES886.1 module is PREPARED for Ethernet monitoring. The functionality will be delivered in a subsequent HSP package and INCA Service Pack.
- #605100 INCA - INCA Service Pack Installer: Repair not working. Deleted files not restored. Repair Button might have no effect.
  Repair of the installed INCA V7.2 works not in all cases.
  If a repair of INCA is needed, uninstall INCA and install the INCA Service Pack anew
  OR
  install (update or down date) another INCA V7.2 Service Pack).

Known issues of Standalone Tool DaisyChain V7.2.5 and V7.2.8 Build 4 with *INCA V7.2*.

- #601919 INCA very slow after install the "Standalone_Tool_DaisyChain V7.2.8 Build 4"

  Affected Standalone Tool DaisyChain V7.2.5 and V7.2.8 Build 4.
  Affected INCA Versions: INCA V7.2

  If INCA V7.2 was installed and then DaisyChain Config Tool V7.2.5 or V7.2.8 Build 4,
  then files of INCA will be replaced, which leads to a performance degradation.

  Note: It is no issue if Standalone Tool DaisyChain was installed and then INCA V7.2.

  The issue is solved with Standalone Tool DaisyChain V7.2.8 Build 11

  Recommendation: Update to Standalone Tool DaisyChain V7.2.8 Build 11.
  Then uninstall INCA and install the INCA Service Pack anew
  OR
  install (update or down date) another INCA V7.2 Service Pack).
  Note: Repair of the installed INCA V7.2 worked not in all cases.

- #601951 After deinstallation "Standalone Tool DaisyChain V7.2.8 Build 4" INCA does not start anymore
- #603770 INCA crashed when INCA was opened after uninstall "Daisy Chain Configuration V7.2.8 Build 4".

Affected Standalone Tool DaisyChain: V7.2.5 and V7.2.8 Build 4.

Affected INCA Versions: All INCA V7.2

During uninstallation of Standalone Tool DaisyChain V7.2.5 or V7.2.8 Build 4

OR

during update of Standalone Tool DaisyChain V7.2.5 or V7.2.8 Build 4 to Standalone Tool DaisyChain V7.2.8 Build 11 or higher,

files of the INCA V7.2 installation will be deleted.

The issue is solved with Standalone Tool DaisyChain V7.2.8 Build 11.

Recommendation:

Uninstall INCA and install the INCA Service Pack anew
OR
install (update or down date) another INCA V7.2 Service Pack).
Note: Repair of the installed INCA V7.2 worked not in all cases.

General recommendation: Before installation of another version of INCA V7.2, the Daisy Chain Configuration Tool shall be updated to version 7.2.8 Build 11 or higher to avoid the reported issues.

5.14.4 Known issues solved with INCA V7.2.11 – Important Hints

- #505766 MDF 4.x files cannot be stored on the network share during the experiment. Only MDF 3.x supports data recording on the network share.
  Note: Further investigations are planned with call #592385
  With INCA V7.2.11 it is now possible to store MDF4 files also on network share after a hint that due to limitations date might be lost or inconsistent. Limitation are e.g. no possible to detect free space of share, performance of share/slow connection to share, access violations during write process.

5.14.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
330586	INCA-MCE: Interleaved mode in iLinkRT not working. Note: Solved wiht HSP V11.11.0
416379	[INCA-MIP + INCA-SIP]When Start Measurement via INCA-MIP, EE will be closed. Workaround: Save EE one time and then it is working.
428745	INCA-EIP: ES910 and ES830 Initialization error using array with more than 2000 entries. Note: Solved with INCA V7.2 SP11, HSP V11.11.0 and INTECRIO V4.6.2 HF1. The buffer size is increased dynamically up to 8MB to handle large arrays.
461346	ToolAPI Method DataBaseItem.GetComponentType() does not work at all
470927	MDF4: Can not start recording if the lenght from path\filename have 229 or more characters
512275	Moving Calibration in VUI does not work properly
521405	YT-Oscilloscope freezes visualization for a few seconds periodically
524666	EE : Even when all the variables are set to inactive, they are still active in the EE
540395	[WBID3494474628]SGASAP2Project does not understand createSignalGroupsForCANDevice: - when exchanging project for XcpOnCan
543325	[NetWBID238631414] SlimDX.Direct3D9.Direct3D9Exception: D3DERR_DEVICEREMOVED: Hardware device was removed (-2005530512
546146	KVL: Order is wrongly appearing for all the variables inside the Function and Groups.
548923	[WBID781212283] UndefinedObject does not understand width
549738	ASAP2 Container: If user deselects / selects top file node while importing .ECUZIP , below file nodes are not deselected / selected
550417	Restore no matche variables do not work with measure arrays
557765	INCA crash when reading empty hexfile
558055	[NetWBID1292475823] System.InvalidOperationException: Cannot access another ValueHolder in an event handler of "' (Etas.EE.MCD.Utilities.UpdateManagerV3.DataContracts.ValueHolderInput 1[System.Object]): valid'
562566	EE: Inactive variable is not added to EE after setting it active
564320	Search for Hardware does not find FETK-interface at ES89x-device in INCA-main-window
568400	Setting position of a layer after creation of it is not possible - Layer is always at last position
569894	EE/Calibration recording: "[WBID3268792428] <LOCALIZED>WriteAllImplValues for >CoslTCSslTar/x<:: The size of the byte array does not match with the expected size(6!=4)</LOCALIZED><HRESULT>0x80004005</HRESULT>"
575490	ASAP3: Slow GET_ONLINE_VALUE (1Sec) for all signal if one signal is not received by INCA e.g. CAN-Monitoring
576038	COM API: BrowseItem() Method returns all the Database Items, even already deleted ones
576172	VSD: Context menu option 'Add Selected Measurements From This Device' is disabled for grouped devices.
576358	INCA Path with space before the last backslash leads to wrong file handling in windows
578506	[WBID2273692218] UndefinedObject does not understand wbCheckSum + [WBID612512492] Exception in UI process
580426	Measurements from multi raster do not work in Oszi
583266	"Reactivate no match variables" feature sets varibales to wrong recorder by re-activating

583446	Projectdata is not visible in INCA main menu when customer uses "Windows classic" design
585036	[NetWBID1160891676] System.ArgumentException: Illegal RecOutputFormatID - no Plug-in available for ID mdf 3.0. Workaround: Installation of 2015-Redistributables
585282	DB: WB([WBID3977999389] Invalid operation during callback) after Canceling several Bounds Checks which are started automatically via User Option
585879	[NetWBID1112130700] System.InvalidOperationException: Collection was modified; enumeration operation may not execute.
586639	In Background Recorder Measure File there is no comment that RPs are not equal
586896	Selected Project/Dataset text not visible
587045	Target-Server Crash during HW search or initialization (with or without ETK MCE setup). Note: Solved with HSP V11.11.0
587817	API-Doku not matching (IncaObj.GetState("MODULE: HWC; DEVICENAME: XCP:1; STATENAME: GetDifferencesCounter"))
588686	MCE_EE:MCE Option: "MCE -Add all calibration variables of experiment" didn't works if using contextmenu "Add Variables" on EE
588907	ES830: If ES891 or ES830 is added to the HW Config, the other HW is not found automatically
588998	[WBID3878240219] CTError does not understand select:
589169	[WBID4247560293] receiver must be a Boolean
589387	INCA Data Base: Sorting Order with 2Byte local setting might be incorrect after first open a folder.
589760	EE: Target Server error is displayed on start of visualisation in the EE window.
590319	INCA ASAP3 does not add variable to INCA if it exist in EE with Mulitraster
591778	API: Fast start stop recording create negative time stamps at the mesaure file
592385	MDF4: Recording doesn't work if network folder is set as a path to save MDF V4.x. Network shares are not correctly detected. Enhance support of Network shares.
592528	Service Pack Installer: During downdate the wrong icon is displayed. Installation finished is displayed but the downdate icon shall be displayed. Downdate worked correctly.
592799	IPM-Server: Automatic configuration does not work for specific networkcard setting anymore
592800	INCA-TOUCH: After changes in the Scenarion Configuration (or closing/reopening) in the Experiment calibration of variables in an INCA Instrument no longer possible.
592829	API method GetItem does not work for root folders of DB
592913	Changing raster in the Variableconfiguration does not work after the rasterinfo in the VSD was opened_finally leads to [WBID3461005165] +[NetWBID2073834138] , [NetWBID973756777System.ComponentModel.Win32Exception: Fehler beim Erstellen des Fensterhandles.
593887	INCA sometimes creates duplicate dataset names
594078	INCA crash during reconnecting the XCP on ethernet ECU
594193	[NetWBID2255879872] System.NullReferenceException: Der Objektverweis wurde nicht auf eine Objektinstanz festgelegt.
594382	Japanese OS: The characters of "Connected devices" of "3 Info" Tab are garbled.
594930	HWC: In Add Device Dialog without selected entry the enabled OK Button does not close Dialog
594982	[WBID1814189086]UndefinedObject does not understand isEmpty
595093	FETK sporadically does not respond. Notes: Solved with HSP V11.11.0
595186	EE/VSD: Functionallity to add variables for grouped devices does not work
596097	[WBID306560295] ASAP2MeasureIFData does not understand isEmpty

596817	WB when 18000 multi raster lables are selected in VSD: [NetWBID3699874998] System.InvalidOperationException: Collection was modified; enumeration operation may not execute.
596867	[WBID3720820752] Primitive failed in: String>>#at:put: due to Value out of range in argument 2
597162	[WBID612512492] Exception in UI process --> when initializing HW
597192	User options not consistent for cal scenario editor
597265	Out of memory error when assign a2l to hardware
597435	INCA ODX-LINK: Win7 32bit PC reboot problem with INCA ODX-LINK
597452	ODX project error, when opening the EE
597470	Copy Paste: Paste from VTabs coming from Excel does not work each time
597604	CopyPaste: Copy entire Data into Clipboard and Paste from one Label to another Label with same size is done if one uses VTab and the other VTab Range
597657	CopyPaste: Missing Error Message when Copy Paste from Excel to Label complete Label with not included VTab entry
597662	CopyPaste: Values are unexpected changed when Copy Paste from Excel to Label complete Label with not included VTab entry
597770	ES820: Automatic restart after a non-definable time (sporadic Targetserver crash)
597791	CopyPaste: Getting unexpected Error Message when paste from Excel not known test into VTab Label
597834	EE: saving measurement to etas binary format can lead to [WBID4000354860] (ExCPMStackOverflow) A stack overflow has occurred.
597859	Deletion of 112000 variables in recorder needs ca. 17 min.
597893	[WBID1252090673] UndefinedObject does not understand doSingleShot:
597899	[WBID2681648256] UndefinedObject does not understand execLongOperation:message:allowCancel:showProgress:title: - Intermittent crash when perform automatic sensor offset in Hardware editor
597901	FETK: Experiment Switching rasters on/off does not work.
597907	Quality data is not being retained in CDM with QM Basic
597962	PollingModeOnOff: Old Polling Raster does not any longer looks like disable after changing Raster
598007	VUI: WB([WBID1579813916] Primitive failed in: OSPtr>>#uint32At:put: due to Value out of range in argument 2) when using not allowed entry for "Width of the drawing area" in UI Developer
598102	ES820 cannot start the experiment from the attached export due to length (>260 char) of created (temp.) measure files.
598121	Using LAB file and user option set to "Keep existing", able to switch back to polling raster after selecting standard raster in VSD.
598138	CopyPaste: Paste into Scale from Rescal Axis Pairs works not for Data Representation Bin, Dec, Hex
598154	System.NullReferenceException: Object reference not set to an instance of an object- several WBs at recorder manager configuration -[NetWBID2926665533] [NetWBID3202766346] [NetWBID3934286188] [NetWBID1787568594]
598188	MeasCal value does not always get updated if the calibration value changes
598198	INCA is unable to read in A2L file V1.51 that contains USER_RIGHTS keyword
598354	CopyPaste: For Curve Axis after getting Monotony Error unexpected entries are marked as pasted
598371	CopyPaste: Paste after Copy entire Data into Clipboard does not work for Cube 3/4 when Axis are Numeric and Output are VTab/VTab Range
598380	[WBID17191892] False does not understand subtractFrom: - Occurs during merging of a2l file in DB Browser.

598473	Measure windows and tables sometimes not retaining data when stop visualization/recording
598559	ES582 J2534 provider deployed with BOA 2.18.1.2 cannot be used for CAN-FD flashing with 8 byte messages
598609	Combined Table Editor: Possibly getting to mutch Message Boxes after changing multi selected values for Rescale Axis Pairs
598654	MCE: iLinkRT and EtherCAT implementation description documents missing in manuals
598731	Setup aborted during INCA V7.2.9 installation: The fully qualified file name to all components of setup must be less than 260 characters, and the directory name must be less than 143 characters.
598762	NLS: Inconsistent naming of the ECU Description Handling Option
599103	ASAP2Editor: Inca freezes when Values tab is selected in ASAP2 editor window.
599229	Overlap check result icon is retained even after merging a2l file and after cut&paste operation of dataset file.
599243	ProF configuration not usable - incorrect default file name specified - in case Unix format was used
599372	a1b_XETK.dll critical exception when initializing XETK
599392	COMAPI Error in case of duplicate lables. Note: New API-Error 25: "duplicate name" ...
599506	Oscilloscope_Sample_Connection_Steps : Oscilloscope starts to draw line for signal even if not received at all
599577	ES581.4: INCA crashed when ECU connection interrupted
599604	Oscilloscope: Error in the scaling representation if CSM AddOn ECAT_ECATADMMHS is used
599785	Copy Paste: Pasting entire data without an identified into a combined editor works even if the data type is different
599786	Copy Paste: Wrong error message displayed when pasting values with multiple decimal separator into a CE
599788	Copy Paste: Pasting the data copied from INCA back into the editor gives Paste Error
599790	Copy Paste: Pasting cells with multiple decimal separators does not give an error in Cuboid
600042	Copy Paste: Possible getting WB ([WBID2886330786] MISSING 4 in krn) after paste into Cube
600046	EE: WB([WBID1727642813] Character does not understand +) when try to change Axis Value in Cube_4
600051	EE: Autosize setting of Combined Editor is not working correctly for Cube
600059	Copy Paste: Copying and pasting Entire data into Vtab/Vtab range table is allowed even if it contains invalid data
600061	Copy Paste : Pasting entire data with wrong identifier into Calibration Editor gives incorrect error message
600152	Copy Paste: [WBID3087902911] RBDataMatrix does not understand physValueAtXIndex:yIndex:put: occurs when copy pasting any cell in a Matrix or Array
600171	EE: Getting unexpected Monotony Error Message Box when try to change VTab Axis Value in Data Representation Hex by DropDownList
600190	Copy Paste: Pasting copied data from one editor to other works even when the dimensions are not the same in Cuboid and Cuboid 4 - VTab/VTab Range
600238	COMAPI: Some commands are very slow in case of large number of signals in recorder configuration. Improved up to factor 100.
600271	"No memory-segment download feature" does not work correctly during "Immidiately download" in case A2L files without memory segment description

600403	CSE : Inline Editor for 'BLOB' type variables is not available in Calibration Scenario Editor (CSE).
600430	INCA interface jerks when ASAM connection is activ
600490	ETAS module exeption caught RECONNECT_SYNC
600517	[WBID573505784] UndefinedObject does not understand do:
600623	Erroneous warning in INCA monitor window that ECU time drifts from transport layer time by more than 10%
600737	Measurement does not work with legacy device, ECU without memory segments and multiple analog input devices
600841	Metadata not saved properly for trigerred measurement
601012	TI_I7211_Beta73:[WBID2599883717] RBOneDCharTable does not understand checkPhysValueDataTypeForInterpolationX: Occurs while Selecting all the Z axis pts in Asap2 Editor.
601016	Incorrect support mail address in System Error window when a WB is reported
601039	CPU type "NotDeterminedInManufTest" reported for FETK-S1.x / FETK-T1.x
601053	Variables are missing when parsing ARXML files due to undefined encoding in the AUTOSAR file. Recommendation: Add encoding definitions to the AUTOSAR files for the signals which shall be measured with INCA
601085	INCA Processpoint interpolation is not working when map axis goes out of range
601145	The signals measured via FLX-Monitoring misses some values if the "payload preamble indicator bit" is set for the corresponding frames. Note: This is correct behavior as correct behavior in case the frame contain no signal data.
601186	Multiple UUDT_CAN_IDs are not correctly interpreted
601197	MCE Calibration toggle with more than 510 Values in 1ms Raster (1 DAQ - 3 ODTs Lists). Note: Solved with HSP V11.11
601310	MCE/ASAP3 [WBID1783529376] IDispatch call returned an exception. ErrorCode: 0x80131509 Source: Etas.EE.EmuRamSegmentCalculator. It is forbidden to update the existing data segments if there are emulated variables
601341	CDM: "[WBID4032023935] RBFolder does not understand getProject" can occur when open special CDM config
601357	Copy Paste : [WBID952828899] RBOneDCharTable does not understand checkPhysValueDataTypeForInterpolationX occurs when copying entire data
601554	WB when User Option is trying to open; [WBID3093081040] item is not valid
601629	Copy Paste: [WBID4193287172] Primitive failed in: Object>>#at: due to Index out of range in argument 1 occurs when pasting invalid values into Cuboid VTab Range
601663	Copy Paste INCA to Excel: Incorrect Values copied from Z or XY Axis of Cuboid
601789	[NetWBID1160891676] System.ArgumentException: Illegal RecOutputFormatID - no Plug-in available for ID mdf 3.0. Workaround: Installation of 2015-Redistributables
601794	[NetWBID1160891676] System.ArgumentException: Illegal RecOutputFormatID - no Plug-in available for ID mdf 3.0. Workaround: Installation of 2015-Redistributables
601919	INCA very slow after installation of the "Standalone_Tool_DaisyChain V7.2.8". Note: Solved with Standalone_Tool_DaisyChain V7.2.8 Build 11 or higher
601951	After deinstallation "Standalone_Tool_DaisyChain V7.2.8" INCA does not start anymore. Note: Solved with Standalone_Tool_DaisyChain V7.2.8 Build 11 or higher
601954	If two ECUs have same ECU-Project, then INCA crashes for DriveRecorder optimized export
601984	INCA crash during changing a working dataset in experiment with [WBID1342559952] (ExCLDTKeyNotFound) Key not found
601994	INCA ARXML no measure values from bundle PDUs in case of "NO-HEADER"

602054	VSD: [NetWBID1987222534] / [NetWBID471440213] System.InvalidOperationException: Failed to compare two elements in the array. occurs when clicking on About Variable of Variable Containers
602070	J2534 Provider Name provider is too long and causing DPS to crash. The new name will be `ETAS J2534 Provider'.
602232	ETAS License Manager: With "Obtain License Info" generated "Licenseinfo.txt" files are wrong. Additional Null character added after each character.
602268	IP-Manager changes setting to "No adapter" after open and close VPN
602281	AUTOSAR file cannot be imported into INCA if "&quot" is used in the DISPLAY-NAME of a COMPU_METHOD
602380	INCA-EIP:Measurement stops with "Merging overload error"
602443	CDM: Possible getting wb([WBID2141741075] UndefinedObject does not understand isManaged) when select label in CDM List which is opened by EE and Preview is Editor
602460	ASAP3: Sometime INCA recorder activation duration is longer than 30Sec via PUMA
602644	[NetWBID4180231994] System.InvalidOperationException: Polling rasters should not be checked for checkbox value if polling mode deactivated. with polling mode option --> none
602654	[WBID558410570] UndefinedObject does not understand title
602730	ETAS License Manager: Exception when Borrow license over the maximum Borrow time
602744	Reconfiguration of EMU ranges in the ETK failed
602761	TargetServer crashs with callstack 0xC0000005 in EtasTime.dll. Note: Already solved with INCA V7.2 SP8
602777	Some AXIS's address become zero when connected with ECU. Note: Solved with INCA V7.2.10
602877	ETAS License Manager: "Copy UserID to Clipboard" and "Copy MAC to Clipboard" did not work
603055	EE: Possibly getting WB ([WBID1176275350] Exception is not resumable) when using Context Menu Move variable to for Group Axis Coordinates
603200	Not possible to run VX1135 and VN devices in parallel with INCA V7.2.9 or higher
603249	MCE: LimitedEMURAM - EE with MCE Measurement configuration lost the MCE measurements at opening
603252	ES690 Multiraster variables including sychro raster lead to Merging Overload Error - in case of legacy hardware E690, 590, 591 or ES1000
603290	Service Pack Installer: Does not shows errors in SPI GUI after occuring an error
603310	Instrument could not be created properly. Note: Issue with installation of a very old customer specific instrument. Uninstall of the old instrument fixed the problem. No issue with the new customer specific instruments.
603470	Copy Paste: [WBID1254297193] Float does not understand printNibblesStringRadix:showRadix:groupedSize:wholeSize: occurs when copying Axis value from Matrix
603647	Define Channel Color List Setting has different behavior
603770	INCA crashed when INCA was opened after uninstall Daisy Chain Configuration V7.2.8 Build 4. Note: Solved with Daisy Chain Configuration V7.2.8 Build 11 or higher
603845	CDM: If the head of the dropdown list for "Write group axis overview" is selected, not clear what can be selected.
604025	[WBID3923731289] receiver must be a boolean. Note: Already solved with INCA V7.2.11.
604177	INCA-TOUCH: Push "STOP" after "PAUSE". INCA will not work at all.
604549	ECU-Software does not run with connected FETK-S1.1B

604792	INCA V7.2.10 Update not possible when LabCar IP 5.4.8 and Cosym 2.0.4 are Installed. BOA not updated to BOA V2.19 (workaround install BOA V2.19 after the INCA 7.2.10 installation). Solved with INCA V7.2.11 and BOA V2.2.20

5.15 INCA V7.2.10

5.15.1 Recommended Installation

It is strongly recommended to update and down date INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack Installer.

Very important: After the installation, a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.15.2 New Features and enhancements

See What's News slides INCA V7.2:

- INCA-V7.2 SP10 -Whats-new.pdf: News of the current INCA Service Pack.

- #595271 ARXML with linear and textual conversion show only one of the conversions
  If the AUTOSAR compu-method of a CAN signal is of type "SCALE_LINEAR_AND_TEXTTABLE", i.e. a combined compu-method with a linear function and a texttable, the former INCA versions only create a signal for the texttable part called "<SignalName>" (without any extension).
  Now INCA generates two signals: One for the linear part called "<SignalName>.linear" and one for the texttable part called "<SignalName>.textable".
  If using Experiments with the signal <SignalName> (without extension), this signal will now be removed from the Experiment when it is opened, since this signal is no longer generated.
  The signal "<SignalName>.textable" must be added manually again.

5.15.3 Known issues of INCA V7.2.10 – Important Hints

- #596696 XCP V1.4 - Compatibility of XCP 1.4 with former INCA versions: A2L files containing XCP 1.4 cannot be used in INCA V7.2.7 and former versions at all, even not for other protocols (e.g. if containing CCP, UDS, KWP2000, ETK etc. descriptions).
  Workaround: Remove the XCP V1.4 part to use other parts of the A2L file
- #591892 INCA FlexRay Monitoring with Fibex file: No measurement values for signals of Multiplexed-I-PDUs contained in a Multiplexed-I-PDU
  FlexRay monitoring signals of a Multiplexed-I-PDU that are contained in another

Multiplexed-I-PDU (nested) cannot be measured with INCA (i.e. no value update) when using a Fibex input file.
AUTOSAR input files are not affected.
Note: Solution is planned with one of the next INCA versions

- #505766 MDF 4.x files cannot be stored on the network share during the experiment. Only MDF 3.x supports data recording on the network share.
  Note: Further investigations are planned with call #592385
- Important hint about **planned upgrade of the ETAS License Server** to Version 11.15.1 by end of 2018. See `\Documentation\WhatsNew\IT Information about Upgrade of ETAS LicenseServer.pdf`
- Important information to the ES886.1 module
  The ES886.1 module is PREPARED for Ethernet monitoring. The functionality will be delivered in a subsequent HSP package and INCA Service Pack.

5.15.4 Known issues solved with INCA V7.2.10 – Important Hints

- #597452 ODX project error, when opening the EE
  ODX project error, when opening the EE. It could sporadically happen that an error message pops up, when opening the EE with configured ODX project:
  "Inconsistent ODX project. No project file (*.prj) contained."
  This could happen, when the ODX project of the INCA Database could not be extracted in the temp folder.
- #583041 ES820 Drive Recorder with INCA V7.2.5 reboots if attempt to load recording job - in case an INCA V7.2.6 (or higher) ETK Project with A2L file if the key ETK_XETK_REF is defined in section TRACE_TRIGGER_CFG

  INCAV7.2.6 (and higher) contains a new feature for the XETK/FETK-driver. Due to this, corresponding EXPORT-files from INCA V7.2.6 (and higher) are not backward compatible to former INCA versions.
  Affected are INCA V7.2.6 (and higher) ETK Projects with an A2L file, if the key ETK_XETK_REF is defined in section TRACE_TRIGGER_CFG.

  ETK_XETK_REF is optional and was not evaluated until INCA 7.2.6.

  Example:

  ```
  /begin TRACE_TRIGGER_CFG
    TRACE_TRIGGER 0
     0x70000008
     CONFIG "MaxTriggerValue" "0xFF" ECU_ID 1024
     ETK_XETK_REF 1
  /end TRACE_TRIGGER_CFG
  ```

  Workaround to overcome the issue in such case:
  - Workaround for PC users: Re-assign the same project to FETK or XETK in the INCA HWC in the used former INCA version.
  - Workaround for ES820 users: INCA V7.2.5 should be used on the PC (the same version is in use on ES820) to create exports for the ES820 Drive Recorder.

Solution for ES820 Drive Recorder: ES820 V7.2.7 released in March 2018 is compatible with INCA.

5.15.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
402316	Freeze Working Data does not work in HWC with XCPonCAN
467456	Performance EE: Time required to open EE has increased
508491	[WBID2882884377] Primitive failed in: OSPtr>>#uint8At: due to General protection fault - read from invalid memory location - after standby
518029	Problems on Calibration Scenario Editor Settings.
531633	Dataset Upload with XCP on CAN for MDG1 takes several minutes
536618	Raster selection in Variable configuration is too narrow
540750	INCA-TOUCH: Use of multiple INCA-TOUCH instances in EE is not blocked. Note: Solved with INCA V7.2 SP10.
543189	KVL: It is possible to create key variable list with the same name.
543389	[WBID2654370691] True does not understand +
554467	Key Variable List Properties appear disabled when user selects 'Default' option.
555078	[WBID560348227] UndefinedObject does not understand dataElement
557099	When using keyboard to navigate through search results in Experiment focus might get lost
557294	[NetWBID1354974101] System.IndexOutOfRangeException: Der Index war außerhalb des Arraybereichs.
557457	INCA Instrument Integration Development Kit - memory leak
558886	[WBID2557765572]Primitive failed in: Object>>#at: due to Index out of range in argument 1
559692	DB: EE which is added to CDMConfig is not exported
559987	[WBID998949105] EtasComboBox does not understand createContextMenuWithToolboxEntries
560362	Horizontal tab in strings (\t) ignored. INCA shall skip the "\t" for display.
563359	[WBID792825498] (ExCLDTIndexOutOfRange) Index out of range.
563593	INCA-TOUCH: INCA crashes when add second INCA-TOUCH instrument to Experiment
565740	[WBID2440347218] Dictionary does not understand isDefaultPort
567506	EE: 'Fill With Value..' prompter dialog doesn't appear when display mode is set to 'Difference' in properties dialog
568146	Manage the recording by Stop_Trigger not possible. Recommendation: Change Stopp Trigger to "TriggerEdge(NOT (Start)) AND NOT(TriggerEdge(NOT(Pulse(Start,1))))"
570684	Calibrate in the slider editor by mouse click step mismatch
570803	Calculated signals: Signal does not work after change devcie
573220	E64 - Code Page Checksum Mismatch after ProFs Flash Programming
573767	INCA-FLOW: Issue with Trigger Definition in Start Recording block. Note: Solved with INCA V7.2.10 and INCA-FLOW V4.5.0

574958	Autosize setting of Combined Editor is not working correctly
575073	Saving F-ETK-T Measurements with Multiraster takes far too long
577296	[WBID3749065113]MCSDSMManager does not understand label
580806	[WBID135544040] Primitive failed in: Object>>#at: due to Index out of range in argument 1
581015	[WBID4072985675] UndefinedObject does not understand title| occurs when cse was removed/added and cs editor closed with OK
581851	Slider for scalar values behaves not as expected
582104	Copy / Paste does not work with overlay function for curves / maps
582705	INCA assigns lables with identic name randm to different CAN-Monitoring-HW
583711	[NetWBID3026253681] & [NetWBID3436845223] & [NetWBID1606794361] when working in VSD
583864	[WBID1111522972] UndefinedObject does not understand setInputFocus
583916	EE: Pressing >> in VUI Window does not open Icons if the window is as small as possible
584505	ASAP3 shows wrong message as the raster is full with error code 60825 (FETK is used)
585096	XCP with CAN-FD -> it is not possible to change the project with different CAN-FD-Baudrate
585279	INCA-TOUCH Windows 10 Improvements. Enhancements for different DPI settings often used with newer windows 10 computers.
586639	In Background Recorder Measure File there is no comment that RPs are not equal
586684	[WBID821419939] UndefinedObject does not understand allMeasurementLabels
587432	INCA-TOUCH: Name of WAV file uses European date format DD/MM/YY
588607	INCA-TOUCH: New control which support editing individual cells of calibration map.
588634	Copy from Excel to MAP or CURVE not working correctly in case of unknown formatting (e.g. thousand delimiter or string) in case of a complete wrong column (case thousand delimiter solved; follow up #594410 for strings)
588846	The YT oscilloscope does not display correctly in Wrap Around Curtain mode
588951	Optimized Upload with XCPonCAN ECU leads to flickering message box
588963	INCA-TOUCH: SStart On Last Screen option does not work: Documentation updated.
589141	ASAP3 command caused to change existing array variable's raster, if user-option -> index=left is selected
589533	[WBID2402441145] UndefinedObject does not understand device
589546	[WBID2885114108] ASAP2BytesCharacteristicValblk does not understand startAddress
589579	Missing Transportlayer in Selection Dialog while change a A2L with API
589853	EE: Some info in Device Mapping Dialog is partly not really readable
590009	ETAS License Manager: ExecuteBorrowAutomaticExtensionInterval=90 entry is missed after INCA-installation
590212	DB: Labels used in a Sub-VUI are handled different to other labels after removing complete widget in 3 Experiment Elements
590307	INCA lost the connection to ETK after stop of ASAP3 interface
590361	EE: [WBID227136726] UndefinedObject does not understand <: 'Fill with values' dialog is not modaled and hence wkb occurs in INCA
590433	EE: Possible that after using Context Menu Copy / Move Variable to Window in the opened Dialog Box are same entries for different Widgets
590436	Event Marker is not recorded if recording end trigger is encountered before Comment dialog is closed. Note: Comment has to be added and saved before next repetition.
591596	When number of axis points is different and "compare" in ADM is performed then all values of MAP are marked red, which make it impossible to figure out which values really changed

591734	ETK-Tool: Indicator for "tool is working" needed when search for HW
591739	EE: Possibly Calc Signal is not added to EE when used by another Calc Signal and they are selected in VSD by clicking the Raster in Raster Matrix
592193	INCA does not connect to Mongoose as J2534 device - in case of an old and new version of J2534 OCD is present on the system. Note: Delete the old OCD manually. It is no issue during normal update with BOA or INCA.
592359	API Methods do not work
592405	Use correct sortorder for numbers in VSD in case of hex
592468	Repair of installation is not complete. Note: Already solved with INCA V7.2.9
592484	Flashing via XETK fails for memory area from 0x8008000 to 0x801FFFFF. Note: Customer script was fixed in order to get the Prof Flow working again.
592573	ToolAPI: SetProject() returns always true for ARMXL files, even if assignment was not successful
592600	VSD multi-selection inconsistencies using filters
592838	[WBID306560295] ETASFormulaError does not understand formula
592974	INCA-SIP: Manual: wrong information regarding deinstallation routine
593011	INCA does not recognize the IP Address written in the A2L in case encoding was changed (and BOM not available in file)
593084	WB during "import as default recorder.." - [WBID4201857518] UndefinedObject does not understand add:
593220	Download fails with ES581.4.
593309	Raster indication is missing for FETK device. It might be not displayed due to a possible rendering problem under Win10.
593435	EE: Changed value in CDM Inline Editor is not updated in Customer Instrument used in EE
593454	Toggle Values with F6 F7 is sometimes not fluent
593536	[FETK-T1: INCA Rastercheck] Distab rasters are disabled in offline mode
593579	INCA-TOUCH: Touch GUI does not displayed after page switch on EE in case WP does not match to RP
593876	CDM: Possible getting WB ([WBID1266814943] UndefinedObject does not understand >=) after Rerun All Checks and label is selected CDM and shown in Inline Editor
594003	INCA-TOUCH mapping does not work
594084	ES6xx AD Channel Linear Formula inverts when import configuration
594151	Behavior change INCA 7.1.10/3 vs. INCA 7.2.8 : Reinitialize the hardware does not change the ECU access status as before
594273	Not possible to load multiple Print Engines in parallel
594391	ETK Tool: Configuration generation for XCP_on_UDP does not work with XETK-S3. Fixed error of XCT configuration of the XETK for XCP use case (configuration didn't match to generated A2L file).
594410	EE: Paste from Column with not expected content works not correctly in case of strings
594527	Device name of some signals are duplicated in the MF4 files
594535	CleanUp Tool Improvement for Japanese Customer
594579	ES820: Reboot after disconnect measure devices
594649	ES720: INCA V7.2.8 export with ETKS2x Project does not work with INCA7.1.10/3 (ES720)
594651	EE: Targetserver has stopped working during visualiation. This occurs when using a wrongly defined Calc Signal, like a=a+1. Solution: User will get error message and user has to correct the expression.
594790	EE: Different results when pasting string starting with a number into the different widgets

594807	ES591 / ETK do not automatic reinitialize after switch off / on
594828	INCA-SIP: msxml6.dll exceptions - subsystem name in "slash"
594834	Hardware (ES59x BOA +ES620) disconnect / connect with Trigger does not reinitialize
594940	INCA-ODX-LINK Polling Measurement stops sending polling requests, in case a timeout error occurs
594946	MDA7 error with calculated signal. Note: Solved with MDA V7.2.10 and INCA V7.2.10
595010	[WBID603441178] UndefinedObject does not understand isEmpty
595047	CAN FD - Signals in Container PDUs cannot be monitored by INCA in case byte order of the Container PDU is not set. Recommendation: If the byte order is not set, INCA takes MSB-Last (Intel) as default byte order
595098	XCP-measurement - abnormal values were detected/saved in the measure file. Note: Solution needs an adaptation of the A2L file consistently to the ECU data
595112	ES590 and INCA V7.2.9: Measurement fails for non BOA device for CAN protocols in case the aliasname is not set
595132	INCA EE shows difference after succesfully copying the reference page to working page via API. Default copy RP to WP changed to 'Yes'.
595224	INCA support phone numbers updated
595271	ARXML with linear and textual conversion show only one of the conversions
595349	EE: Wrong raster selection appears on Raster Selection dialog.
595456	Erase PFlash and probably the DFlash in PROF for Infineon TC39X_B-STEP takes disproportional longer than with the TC39X_A-STEP
595467	[WBID847213306] UndefinedObject does not understand deleteOnTS: when running INCA with API
595526	reocmmendation
595559	The oscilloscope is not displayed, only the legend is visible
595569	EE: WB([WBID863660786] Character does not understand +) when try to change VTab Value and Display Mode is Current Page and Differences
595590	CCP - SeedKeyLibDaq.dll critical exception when initialize with INCA 7.2.x
595625	tf
595641	EE: After Copy & Paste from Vtabs including change from Data Rep is Undo not possible
595643	XETK-S3 Trace2Ram RasterCheck version does not consider correct MCU resources for trace buffer size in case of TC39xED A and B step
595646	KVL option 'Apply Key Variable List' populating unexpected value.
595655	INCA calculated Signal prevent from start measure
595667	INCA crash during long therm Measurement with VN1630 A
595737	XETK-S3: No error message for wrong trace windows config
595758	TCM signals are shown shrunken by factor 100. Note: Correct behavior of INCA, showing something wrong with the ECU or the A2L description
595784	HW Init in Experiment ends with crash [WBID2853456223] MCSCalibrationRecordingManager does not understand updateAdaptiveContentsForData:
595809	Experiment: Display "ECU in Reset" does not work correctly
595893	IP Manager cannot move XETK to different IP subnet when static IP is set
595899	EE: TargetServer error 'Can;t initialize HW..' appears while reopening EE after renaming KVL; and EE is not refreshed.
596001	EE: "[WBID60515778] UndefinedObject does not understand formula" can occur when open EE
596009	[WBID2673539704] UndefinedObject does not understand isETargetRegistered
596062	[WBID66712699] UndefinedObject does not understand characterMethod:
596178	INCA-SIP: A2L errors in use Data Type Propagation

596187	HWC: Possible that Next Button is not moving to next entry in Add HW Device Dialog
596252	INCA Backanimation of MCE does not work
596342	AddOn Daimler-INCAExtension "!" is added to Dataset name when WS is imported
596347	Not possible to use VX and VN Devices in parallel with INCA V7.2.9
596391	ES6xx signal configuration reset to default after changing Channel names and importing
596444	WBs when tried to assign the project to ETKC device after assigning project to ETK test device: [WBID149381602] UndefinedObject does not understand allCalibrationAndAxisPointLabels & [WBID306560295] UndefinedObject does not understand memoryLayout:
596448	INCA create wrong DATA-area for CURVEs if FLOAT32 or FLOAT64 are in use
596456	Text in Raster Info in German is confusing for Used ODT and used DAQs
596554	WBs appears while saving Experiment after copying Recorders from different Experiment. [NetWBID3175403091] System.Data.StrongTypingException: The value n table 'MDFComment' is DBNull. [WBID1498940167]
596587	Error after delete one calculated signal
596637	<COMMON_PROPERTIES> are written twice in MDF 4.0 and 4.1 files
596660	Slews show incorrect value if Calibration Scenario Editor is open in the EE
596672	VUI: [WBID4065530840] EtasVUISubPaneController does not understand dimensionOfDrawingArea
596765	XETK Trace Raster Check always 'RED'
596810	[WBID1782112625] Vector does not understand isNaN after closing experiment with CalibrationSessionLog
597022	[WBID3379312075] (ExCPMStackOverflow) A stack overflow has occurred,on trying to open experiment after switching XCP hardware
597112	Groupmap is wrongly displayed for (X)ETKS with mode Experiment Preparation
597119	INCA_CAN: VN8970 initialization fails with license validation error
597173	[WBID2125781310] UndefinedObject does not understand calibrationController
597195	Error when importing Fibex file Version 3.2
597197	INCA-TOUCH: Klick to screen moves the previous marked button to that point
597208	CDM Copy noticeably slower in INCA 7.2.9 than with INCA 7.1.10
597426	Raster Utilization of FETK-S missing
597428	[WBID1819947770] (ExError) An error has occurred, walkback occurs on performing CDM Actions for the selected XCP on CAN data set
597448	Paste from Excel into Matrix does not work every time and could lead to WB([WBID145563045] RBBlockContextEditOperation does not understand indices) after try to Undo
597452	ODX project error, when opening the EE
597466	FlexRay: Error initializing the FlexRay monitoring device, due to AUTOSAR file not matching.
597492	Otimized projects are not correctly assigned to optimized workspace
597534	EE: Copy entire Data into Clipboard for Dec and Bin does not work proper for Rescale Axis Pairs
597536	EE: Copy entire Data into Clipboard and Paste into label where Axis Values are VTab and Output Values are Numbers leads to unexpected Axis Values
597590	CopyPaste: Possible getting WB([WBID1432745840] Primitive failed in: Object>>#at: due to Index out of range in argument 1) when copy from Map into Rescale Axis Pairs including change from Data Representation
597604	CopyPaste: Copy entire Data into Clipboard and Paste from one Label to another Label with same size is done if one uses VTab and the other VTab Range
597660	ODX-LINK issue with OBDMIDs with more than 6 TIDs

597662	CopyPaste: Values are unexpected changed when Copy Paste from Excel to Label complete Label with not included VTab entry
597770	ES820: Automatic restart after a non-definable time (sporadic Targetserver crash)
597901	FETK: Experiment Switching rasters on/off does not work.
598002	Problem with IPManager: manually selection of network adapter will only be active after IPManager restart
598118	ProF: Flashing over XCP not possible. Note: A XCP-CONNECT is always needed to initiate the XCP communication. Starting with PROGRAM_START directly in a disconnected state is not allowed.
598481	1 DIM arrays will be excluded from experiment when reread reduced A2L (optimized export)
598586	EE_CSE: Getting WB ([WBID2331910175] EtasCDMCalibrationComparisonControlWidget does not understand createSomeHandles) when use Copy Var 2 Window and use as destination CSE
599134	Arxml2A2l converter: Rational functions RAT_FUNC (quadratic, cubic or higher) are not correctly converted to a2l compu methods. Corresponding signals shall be blocked.
599288	Syntax correct A2L no usable in Inca. Note: Removed check for exclusive definition of TRIGGER_TYPE in order to support older A2L files.
599677	DBC file can't be read by INCA and no measurement values get displayed due to not supported comments "//"
599851	EE: Context Menu Inc/Dec/Fill With Value ..... are unexpected disabled for Combined Editor with Display Mode = Differences and added Axis Points are selected

5.16 INCA V7.2.9

5.16.1 Recommended Installation

It is strongly recommended to update and down date INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack Installer.

Very important: After the installation, a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.16.2 New Features and enhancements

See What's News slides INCA V7.2:

- INCA-V7.2 SP9 -Whats-new.pdf: News of the current INCA Service Pack.

- #586826 Prohibit the PC sleep mode during running measurement

  A running measurement or recording session of INCA must not be interrupted by putting the PC into sleep mode!

  Therefore, the INCA TargetServer now prohibits the PC to go into sleep mode during a running measurement. This only holds for time-triggered sleep mode activation (e.g. switch to "sleep after 1 min" or switch to "hibernate after 1 min").

The sleep mode cannot be prevented, if the user activates the sleep mode manually or closes his laptop. In these cases the user must ensure himself that measurement and recording is stopped and EE closed, before setting the PC to sleep mode.

- BR XETK-S3: Support Trace2Ram for TC39xED_B (Aurix2G) enabling fast raster measurement.
  More details in ETK Release Notes.

5.16.3 Known issues of INCA V7.2.9 – Important Hints

- #591892 INCA FlexRay Monitoring with Fibex file: No measurment values for signals of Multiplexed-I-PDUs contained in a Multiplexed-I-PDU
  FlexRay monitoring signals of a Multiplexed-I-PDU that are contained in another Multiplexed-I-PDU (nested) cannot be measured with INCA (i.e. no value update) when using a Fibex input file.
  AUTOSAR input files are not affected.
  Note: Solution is planned with INCA V7.2.10.
- #505766 MDF 4.x files cannot be stored on the network share during the experiment. Only MDF 3.x supports data recording on the network share.
  Note: Further investigations are planned with call #592385
- #583041 ES820 Drive Recorder with INCA V7.2.5 reboots if attempt to load recording job - in case an INCA V7.2.6 (or higher) ETK Project with A2L file if the key ETK_XETK_REF is defined in section TRACE_TRIGGER_CFG

  INCAV7.2.6 (and higher) contains a new feature for the XETK/FETK-driver. Due to this, corresponding EXPORT-files from INCA V7.2.6 (and higher) are not backward compatible to former INCA versions.
  Affected are INCA V7.2.6 (and higher) ETK Projects with an A2L file, if the key ETK_XETK_REF is defined in section TRACE_TRIGGER_CFG.

  ETK_XETK_REF is optional and was not evaluated until INCA 7.2.6.

  Example:

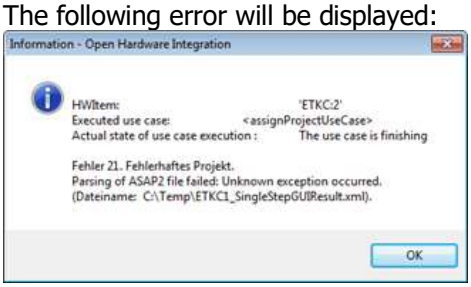
  ```
  /begin TRACE_TRIGGER_CFG
    TRACE_TRIGGER 0
     0x70000008
     CONFIG "MaxTriggerValue" "0xFF" ECU_ID 1024
     ETK_XETK_REF 1
  /end TRACE_TRIGGER_CFG
  ```

  Workaround to overcome the issue in such case:
  - Workaround for PC users: Re-assign the same project to FETK or XETK in the INCA HWC in the used former INCA version.
  - Workaround for ES820 users: INCA V7.2.5 should be used on the PC (the same version is in use on ES820) to create exports for the ES820 Drive Recorder.

  Solution for ES820: It is planned to release a higher compatible INCA version on the ES820 Drive Recorder.

5.16.4 Known issues solved with INCA V7.2.9 – Important Hints

- #594649 ES720: INCA V7.2.8 export with ETKS2x Project does not work with INCA7.1.10/3 (ES720)
  IF
  INCA projects with dmETK or FETK are used
  AND
  the A2L file is edited with INCA ASAP2 editor with INCA V7.2.8
  OR
  the optimized export for INCA Drive Recorder of INCA V7.2.8 was used
  THEN
  the export or project cannot be used with former INCA versions/INCA Drive Recorder versions.
  The following error will be displayed:



  Workaround: To fix the damaged A2L-files of the corresponding project it is necessary to **replace** the A2L-file with INCA V7.2.9. The **replace** function can be found in the context menu of the INCA project.
- #589977 Uninstallation INCA failed. No new installation possible. Due to very long/slow virus scan activities in rare cases (e.g. scan of global assembly cache folder and/or ngen tool/products with a valid ETAS certificate, which could be excluded from scan)
- #583041 ES820 Drive Recorder with INCA V7.2.5 reboots if attempt to load recording job - in case an INCA V7.2.6 (or higher) ETK Project with A2L file if the key ETK_XETK_REF is defined in section TRACE_TRIGGER_CFG

  INCAV7.2.6 (and higher) contains a new feature for the XETK/FETK-driver. Due to this, corresponding EXPORT-files from INCA V7.2.6 (and higher) are not backward compatible to former INCA versions.
  Affected are INCA V7.2.6 (and higher) ETK Projects with an A2L file, if the key ETK_XETK_REF is defined in section TRACE_TRIGGER_CFG.

  ETK_XETK_REF is optional and was not evaluated until INCA 7.2.6.

  Example:

  ```
  /begin TRACE_TRIGGER_CFG
    TRACE_TRIGGER 0
     0x70000008
     CONFIG "MaxTriggerValue" "0xFF" ECU_ID 1024
     ETK_XETK_REF 1
  /end TRACE_TRIGGER_CFG
  ```

  Workaround to overcome the issue in such case:

- Workaround for PC users: Re-assign the same project to FETK or XETK in the INCA HWC in the used former INCA version.
- Workaround for ES820 users: INCA V7.2.5 should be used on the PC (the same version is in use on ES820) to create exports for the ES820 Drive Recorder.

Solution for ES820 Drive Recorder: The issue is solved with ES820 - Service Pack 7 (INCA V7.2.7) or higher.

- #588480 Copy from Excel to MAP or CURVE not working in case of unknown formatting (e.g. thousand delimiter or string)
  (KIR-issue, see also ETAS Download Page)
  Affected INCA Versions: All.
  IF
  a map or curve is copied e.g. from EXCEL (source) and pasted to INCA map or curve (destination)
  AND
  one or more cells of the source contains information, which INCA cannot detected correctly
  e.g. string or a thousand delimiter
  THEN
  INCA copies only a part of the source correctly to the destination.
  Beginning with the cell INCA cannot detect correctly, no value is copied or more worse, values from other cells of the source will be copied to wrong cells in the destination.
  Workaround: Change setting of EXCEL (or other source) such that no thousand delimiter is used. In addition the source shall not contain any strings.
  Note: Major issue in case of unknown thousand delimiters is solved with INCA V7.2.8 and V7.2.9 (EHI #588634). Final solution in case of strings and further minor improvements are planned for INCA V7.2.10 (EHI #594410)

5.16.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
328766	EE: Missing Filter Adaptive Calibrations when open VSD via CSE
378509	EE: Possible that boolean calibration windows changes are not correct shown in calibration window and values cannot be changed in scalar calibration widget
388748	A2L encoded with UTF8 could not display correct information on VSD
434775	With using a CAN-Monitoring variable in the trigger formula of the recorder configuration itself is changed after adding a daisy chain module in HWC
438289	[WBID4082691507] Primitive failed in: DBString>>#at: due to Index out of range in argument 1
442820	Character corruption at variable description in VSD on Japanese language
444447	Walkback on ASAP3 Interface: [WBID726873342] UndefinedObject does not understand initDefaultState

454150	ASAP3: command 43: ACTIVATE RECORDER is not working properly with INCA when using MDF3.x file format
458499	GetDataType ToolAPI Method does not work with Asap2AxisDescription Object
484760	Copy & Paste does not work in combined editor
492918	Unable to change a filter configuration. Online Help updated.
507005	Default raster mark is not visible if all rasters are full.
507020	"SELECT DESCRIPTION FILE AND BINARY FILE" cmd error occured.
511372	VSD_SIP: when open/close CDM in CDM||EE and open VSD after that VSD has no labels anymore
518119	Japanese UI, Pressing <F1> key from General tab of User Option dialog fails with error
519042	[FETK-T1: Measurement] after 5min recording of 20MB/90k labels in project the fill buffer is 100% full, recordings stops, INCA monitor says Overflow error
522327	INCA Crash -> XETK and XCP -> [NetWBID217022737] System.Xml.XmlException: There is an unclosed literal string. Line 6, position 43
525558	[FETK-T1: Possible Out of memory problem in target server
529401	Label order in Oscilloscope in MDA is changed from INCA's order
539782	Cut and paste feature doesn't work properly in the comment field if 2 byte character is included
540343	Wrong mouse over for projects loaded by eCDM
541114	User option doesn't link to online help in Japanese
541163	Code menu in Hex view doesn't show
541548	VUI is unable to retain the selected trigger signal in display trigger widget of YT Oscilloscope
549630	ASAP2 Container: Possible to select as Hex File also ECUZip but the hex files are not used
549865	EE: Via KVL added widgets uses wrong Index
554008	[WBID2695576240] EtasTwoDTableListWidget does not understand iwcCallbackInputEvent:callData:
555419	[NetWBID3651829353] System.InvalidOperationException: No support of simultaneous revokes.
558215	[NetWBID1018064940] System.ArgumentException: Illegal RecOutputFormatID - no Plug-in available for ID mdf 3.0
561501	Online help of E-Target User options is not displayed on Japanese version for Windows
563306	Dataset comment is not properly shown.
567783	[NetWBID3707908581] System.NullReferenceException: Object reference not set to an instance of an object.
573220	E64 - Code Page Checksum Mismatch after ProFs Flash Programming
573782	INCA losing inactive Variables when importing or copy/paste a Layer - Information for user required
574149	EE: In Graphical Part from Combined Editor X Axis Values are not shown as VTab Values for 2D Graphic
574400	EE: Possible getting different result after Pasting Values from Clipboard or via pasting Complete Axis and Output in Curve Axis
574499	"ETAS Target Server Recovered Files" Window blocks the automatized ToolAPI scripts
575181	EE: "[NetWBID1392896668] System.ArgumentException: An item with the same key has already been added." occurs when move label from vui->osci to vui measure window
575511	Support of measurement signals with other than 8, 16, 32 and 64 bit sizes for FlexRay and CAN/CAN FD monitoring

575863	CDM: Axis size 0 for maps is not handled --> [WBID1318378051] UndefinedObject does not understand -
576294	VSD: Wrong border list appears for copied widgets after reopening VSD
578707	ASAP3 command ACTIVATE RECORDER with mode 0 crashes File Merging Server
580196	eCDM creates a copy of all previous comments. Recommendation: INCA user options / data exchange / QMD / History utput. Choose "The last History Entry only" then INCA writes only the last QMD to the CDF file
580732	EE: Values and position on Y Axis does not fit together for VTabs in Combined Editor
581568	[NetWBID92933146]System.ArgumentException: An item with the same key has already been added.
581762	INCA-EIP: "[WBID886138800] Primitive failed in: ByteArray>>#uint8At: due to Object size is invalid in receiver" can occur when change project in EE||HWC
582315	Slew icon does not refresh in DBB when state changes unless dataset is selected
582679	All triggers in all recorders are deleted when one input signal is missing
583306	Recording is not possible after change of Device Name from EE
583333	[WBID2695576240] EtasOneDTableListWidget does not understand iwcCallbackInputEvent:callData:
583452	ES830 is reported as ES910 in Inca Monitor log. Note: Solved together with HSP V11.9.0
584110	Recorder Path Variable is removed when using COM API recordings
584276	INCA does not initialize NeoVI Fire 2 as a CAN-Monitoring device when using GM Global B CAN-FD ARXML. Note: Has to be solved by updated firmware
584690	Copy action is grayed out, when a CDM is open from EE with MDG1 Project. Support with new feature: "CDM - open CDM || EE - Support COPY for Limited EMU RAM"
585582	ETK Compare limited range, but compare of created binary file with the current ECU content should be possible without size limitation. Note: This was corrected for the compare modes 3 & 4.
585618	INCA/INCA-FLOW: [WBID144451432] UndefinedObject does not understand + // occurrs during auto test by INCA-FLOW.
585716	EE: When multi recorder is copied into a new Experiment, visualization cannot be stopped and INCA must be terminated
585742	EE: possible that after adding some labels to multirecorder visualization cannot be stopped and INCA must be terminated
585944	EE:[WBID2397354027] WinError does not understand openFile ,is displayed when tried to record/visualise having the MDF file open in MDA
586243	Corrupt WS_ different values in osci and measuretable from ES650.
586373	EE: Labels from removed Sub-VUI are not removed in the VSD
586470	XETK: If CPU Type in A2L is unknown, INCA chooses a (totally wrong) default CPU description
586721	BITMASK: Recording is stoped when activate inavlid trigger with 64 bit measurement label
586817	ETAS License Manager: "expiration date" setting for LiMa "offline mode" state is required
586826	TgtSvr: Prohibit the PC sleep mode during running measurement
586913	Scenario Editor - GDI and User Objects are not released
587036	64Bit irritating warning for signed calibration signal BIT_MASK
587046	AddressOverlap: Possible that Overlap Check entry is unexpected disabled
587188	INCA lost the raster assignment after reopenning the EE in offline mode
587316	AddressOverlap: Answer Messag Box to disable User Option with Yes will not work every time

587409	AddressOverlap: Before Import Results Dialog is closed the Overlap Check is started when import is done and Option Overlap Check is set to Yes
587410	GET ONLINE VALUE times out with old measure mode
587577	Wrong error Message in ASAP3
587586	DB: After rename from Layer in DB Browser including inactives possible that Widgets are not any longer on expected Layer
587635	[WBID859124045] UndefinedObject does not understand ceeDisplayName while selecting UI Developer mode in vui
587637	EE: Auto Increment Fields are not disabled when Date Time suffix of hh:mm:ss is selected for MeasureFileName in INCA User Options
587667	LCO/EE/RTPC/INCA Target Server: When trying to download huge projects from EE, download operation fails.
588064	Connect DCM to Project does not work.
588266	Performance: Deletion of all recorder variables it very time consuming
588606	INCA-TOUCH: Slewing support
588608	INCA-TOUCH: Extend sequence functionality
588634	Copy from Excel to MAP or CURVE not working correctly in case of unknown formatting (e.g. thousand delimiter or string) in case of a complete wrong column (case thousand delimiter solved; follow up #594410 for strings)
588761	INCA does interpret the entry of data transmission rate of AUTOSAR (ARXML) file for CAN-FD. If defined transmission rate is not supported by used hardware, then the user will be not able to use the ARXML file with INCA.
588805	No measured values for calculated signals are displayed in the experiment
588823	CDM Label information are overwrite information when click value contents
588852	CDM: Label viewer show wrong change marker due to limitation problem due to quantization
588861	INCA-TOUCH: Set external windows size. Windows grows when set to defined minimal size.
588862	INCA-TOUCH: Function button image not shown when first changing from text to image as caption
588884	UDS Flashing via KWP fails when using INCA 7.2.7. Solution: Removal of the local copies of the convert.exe/dlls and making the Prof script work with the standard INCA convert.exe/dlls (which might require additional changes in the Prof script).
588905	Uninstallation of Package 'Boost V1.61.0 Redistributables' failed with error code '1612'
588964	INCA-TOUCH: Screen Rendering issues if Touch Widget is opened Maximized
589194	[WBID780278089] CTError does not understand itemTypeString
589239	CCP: Address extension (ECU_ADDRESS_EXTENSION) is not used when configuring DAQ measurement
589263	CDM QMBasic: create new entry crash INCA (stoped after 20 minutes)
589342	DatabaseBrowser: Incorrect Hex file extensions are displayed in the error message.
589384	ES830: Problems in searching Connected Hardware's after initializing ES830. Note: Solved together with HSP V11.9.0
589387	INCA Data Base: Sorting Order with 2Byte local setting might be incorrect after first open a folder.
589406	API: NetWBID1485133896 Command StopMeasurementAndSaveToFile if Filename include ":"
589424	Address Overlap: After leaving ModPar -> Systemconstants Result is unexpected removed
589428	AddressOverlap: Results are wrong shown after reopen DB
589486	HW-Configuration: "Show all Results" button is still enabled when search result contains no items.

589513	INCA-TOUCH: Touch Screen function does not work. (Stop measurement or visualization can not be executed)
589594	A2L encoded with UTF8 could not display correct information on VSD
589677	WBID3496933238] Primitive failed in: Object>>#at: due to Index out of range in argument 1: while copy & paste values in combined Editor
589838	INCA does not copy HEX neutral via CDM
589932	DB: Possible that wrong Formula is used as invers in ASAP2 Editor (acos(x) is wrongly defined as invers from asin(x))
589977	Uninstallation INCA failed. No new installation possible. Due to very long/slow virus scan activities in rare cases (e.g. scan of global assembly cache folder and/or ngen tool/products with a valid ETAS certificate, which could be excluded from scan)
589998	EE: Getting Error Message because of missing file after switching to WP and Labels with different size are used in Combined Editor with Display Mode = Differences
590023	Recorder Start takes very long after longer operation (with large number of iterations) of the measure setup
590027	[WBID3344486716] True does not understand , --> VUI editor: Walkback occur when XY oscilloscope icon clicked
590053	EE: Possible getting WB([WBID3891118009] True does not understand, When try to add Osci(V7.1) to VUI
590128	Can't delete target server signal message with XETK
590208	Logviewer set Loglevel to extended when first time in use
590242	Not possible to change Project or HW in INCA Main View
590436	Event Marker is not recorded if recording end trigger is encountered before Comment dialog is closed. Note: Comment has to be added and saved before next repetition.
590442	Flashing with XETK and TC39c-ED_B-Step fails
590480	Crash at opening Calculation Signals Window [WBID1090492614] EtasCalculatedSignalList does not understand getDeviceNameOnly
590510	XETK - no support of MEMORY_SEGMENT of type OFFLINE_DATA ROM
590695	Performance: Time of layer Import is increased 4 times for specific EE
590865	Error 21 when assign project to XETK using INCA 7.2.8 in case of duplicated identifiers in A2L
590932	[WBID3873723231] MCSExperimentDummyWidget does not understand vuiLabel_when "Display Component Names" is selected
590935	XETK: Error: 21 - Unknown exception when parsing ASAP2 file in case of duplicated identifiers in A2L
590937	[WBID2817964346] True does not understand name:_ when VUI Screen Layout 5 is added to Experiment
590943	ASAP2Ed: Value for SystemConstants is possibly after reopen ASAP2 Editor empty
590983	MDA not possible to open mf4 file
590998	INCA change of XETK-Project is not possible if HW name is changed
591011	Subset generator and optimized export for Driverecorder create invalid projects
591015	XETK: OHI Integration not supporting Slewing v2
591016	INCA-TOUCH V7.2.8: Cannot select map range for calibration
591048	MDF4.1 with CAN-Monitoring : Incorrect computation of the amplification factor and Base line values
591240	Disable CAN FD features for VN8950
591251	Slewing: Possible that in DB Browser Hex File is unexpected marked as Slew Active
591257	INCA measuring with suspended mode difference between INCA V7.1.2 and INCA V7.1.9
591277	Change values for a map take a lot of time

591424	Not possible to add Variable when not defined in Memory Segment (was not so in former Version)
591452	Walkback when right clicking on Variable in VSD [NetWBID686906861] System.NullReferenceException: Object reference not set to an instance of an object.
591500	INCA-SIP: Model compilation failes due to 'COMPU_VTAB_BOOLEAN_TYPE' description apperaing twice in the sipd-file (was not the case in SP4)
591579	Distab17: number of currently active events not correct in first INCA measurement after flashing
591596	When number of axis points is different and "compare" in ADM is performed then all values of MAP are marked red, which make it impossible to figure out which values really changed
591749	[WBID4285024020] UndefinedObject does not understand nextPutAll: - while creating DCM-file and CDM option allow functions and one listing per function
591752	INCA writes incorrect ALIAS information in measurement files
591759	[WBID2617466138] True does not understand asReal32 - Walkback when copy calibration in CDM
591952	XETK/FETK ECU-backed flashing mailbox command UNINIT does not clear mailbox after flashing
591969	IP-Manager changes setting to "No adapter" after open and close VPN
592086	[WBID988363438] IDispatch call returned an exception - LERT FlashRange + Online Firmware Check
592226	[WBID4134741072] (ExCLDTIndexOutOfRange) Index out of range - after pressing Next Button in Search results
592319	Targetserver crashes if there are two J1939 Can-Monitoring channels in use - a1b_J1939.dll: Critical Exception 0xC0000005
592349	Some Custom data types named like Matlab's primitive data types but with different cases, stops model from connecting or validating
592395	Not possible to run longer tests on test bench due to communication errors. Note: Has to be solved in the installed VX113x driver.
592409	INCA V7.2.9 Beta: OFFLINE_DATA ROM - Exclude from LERT needed
592464	Repair of INCA installation does not find the MSIs
592929	[WBID306560295] UndefinedObject does not understand metaObjectId - Walkback when replace ES5xx with ES8xx and open Experiment
592934	[WBID1379099580] UndefinedObject does not understand listHeader
592966	[WBID3738165505] Primitive failed in: Object>>#at: due to Index out of range in argument 1
593027	Unused calibrations added to Lab file incorrectly (e.g. inactive items from recorder were written to lab file)
593227	Calibration change in INST-IP instrument does not trigger update for legacy instrument
593449	Scalar Table Editor doesn't actualize the parameter value automatically
593651	INCA V7.2.8 HF2: Block calibration is 10 times slower with table editor for scalar values than the calibration window editor - follow up of #582680
593841	VN1630: Not possible to initialize HW due to not supported HW configuration: Updated list of supported Vector transceiver types to include the 1051cap transceiver when on a CAN piggy. It is now possible to use Vector devices which have a CAN piggy.
593941	The Variables but not the Values are shown in the dialog window of saving the measure file
594327	XCP: Can't add measure element in device if connection interrupted
594339	Flashing with FETK-S1.1b fails due to erroneous access device detection
594473	NLS - Online help shows English text instead of German in the file expGerman.chm

594649	ES720: INCA V7.2.8 export with ETKS2x Project does not work with INCA7.1.10/3 (ES720)
594655	INCA crashes when start measure XCP on FLX via ES583.1

5.17 INCA V7.2.8 HF2

See also section INCA V7.2.8 and INCA V7.2.8 HF1 Build 134, please.

5.17.1 Bug Fixes and Improvements

EHI #	Title
593027	Unused calibrations added to Lab file incorrectly (e.g. inactive items from recorder were written to lab file)
593227	Calibration change in INST-IP instrument does not trigger update for legacy instrument
593449	Scalar Table Editor doesn't actualize the parameter value automatically. Solved with #593227.

Note: To solve calls #593227 and #593449 it was necessary to revert the performance improvement of *EHI #582680 Block calibration is 10 times slower with table editor for scalar values than the calibration window editor*, released with INCA V7.2.8.
This was again solved with #593651 with INCA V7.2.9

5.18 INCA V7.2.8 HF1 Build 134

See also section INCA V7.2.8

5.18.1 Bug Fixes and Improvements

EHI #	Title
592892	INCA V7.2.8 HF1 Build 133: Registry key "ProductLabel" is empty (in HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\ETAS\INCA\7.2). Add-On installations checking "ProductLabel" will fail. Note: It is recommended to check the "Version" key during installation. Additionally solved with INCA V7.2.8 HF1 Build 134
	The following issues were solved with INCA V7.2.8 HF1 Build 133:
590242	Not possible to change Project or HW in INCA Main View
590442	Flashing with XETK and TC39c-ED_B-Step fails
590480	Crash at opening Calculation Signals Window [WBID1090492614] EtasCalculatedSignalList does not understand getDeviceNameOnly
590998	INCA change of XETK-Project is not possible if HW name is changed
591041	ARXML - INCA AddOn crash when adding Autosar project

591424	Not possible to add Variable when not defined in Memory Segment (was not so in former Version)
591277	Change values for a map take a lot of time
591052	INCA-TOUCH: Calibration of a variable with a function button is only possible if it is also selected on the corresponding layer for display in a control for example a table or a map. Note: Solved with INCA-TOUCH V7.2.8 Build 115
	Same issue reported from several users: 590699, 590865 590935, and 591011:
590699	Error when using .a2l for XETK project, "Error 21 occured. Invalid project"
590865	Error 21 when assign project to XETK using INCA 7.2.8 in case of duplicated identifiers in A2L
590935	XETK: Error: 21 - Unknown exception when parsing ASAP2 file in case of duplicated identifiers in A2L
591011	Subset generator and optimized export for Driverecorder create invalid projects

5.19 INCA V7.2.8

5.19.1 Recommended Installation

It is strongly recommended to update and down date INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack Installer.

Very important: After the installation, a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.19.2 New Features and enhancements

See What's News slides INCA V7.2:

- INCA-V7.2 SP7 -Whats-new.pdf: News of the current INCA Service Pack.
- New FETK products supported (together with HSP V11.8.0)
  - FETK-S1.1A HW to support ECU interface for the Infineon AURIX TC2xx microprocessor family
  - FETK-S1.1B HW to support ECU interface for the Infineon AURIX TC3xx microprocessor family
  - FETK-S2.1A HW to support ECU interface for the Freescale/STM MPC57xx/MPC58xx microprocessor family
  - FETK-T1.1B HW to support ECU interface for the Infineon AURIX TC3xx microprocessor family:
    - support of TC39x ED (B-Step)

- #582560 ARXML Signals filtered per Cluster
  INCA filters now the signals per selected clusters of AUTOSAR files for CAN/CAN FD and shows only the wished signals of the cluster in the variable selection dialog. Because signals that are not part of the selected cluster are now removed in INCA, it is possible that old INCA projects, which uses these signals in the experiment environment, are affected, because these are not available anymore.
- #580252 PROF shall support to forward the BOA URI of the selected Flash Port to an external Dll
  Within a PROF flash configuration, external Dlls or executables can be called that process the flash data or perform other actions required for flashing.

It is now possible to pass the BOA URI of the flash port that was selected by the user in the INCA HWC to such external Dlls or executables so that these Dlls/Exes can e.g. connect to the selected HW CAN port via the BOA interface.

5.19.3 Known issues of INCA V7.2.8 – Important Hints

- #588480 Copy from Excel to MAP or CURVE not working in case of unknown formatting (e.g. thousand delimiter or string)
  (KIR-issue, see also ETAS Download Page)
  Affected INCA Versions: All.
  IF
  a map or curve is copied e.g. from EXCEL (source) and pasted to INCA map or curve (destination)
  AND
  one or more cells of the source contains information, which INCA cannot detected correctly
  e.g. string or a thousand delimiter
  THEN
  INCA copies only a part of the source correctly to the destination.
  Beginning with the cell INCA cannot detect correctly, no value is copied or more worse, values from other cells of the source will be copied to wrong cells in the destination.
  Workaround: **Change setting of EXCEL (or other source) such that no thousand delimiter is used. In addition the source shall not contain any strings.**
  Note: This is improved with INCA V7.2.8: Copy to wrong cells is solved.
  If only one or some cells cannot be read, INCA 7.2.8 will prevent copy of the complete Map or Curve.
  Only In case a complete column consists of invalid values, copy of the left part of the map is allowed. This will be solved with INCA V7.2.9.
- #587715 INCA V7.2.8: CAN-Monitoring: Complex AUTOSAR signals are not supported for ES590/ES591/ES690/ES1222.
  New INCA AUTOSAR features that have been introduced with INCA V7.2.6 and V7.2.8 are not supported by the CAN-Monitoring driver for the following devices: ES590/ES591/ES690/ES1222. Signals of complex AUTOSAR structures like e.g. Container PDUs or Multiplexed-I-PDUs can be selected in the INCA Variable Selection Dialog, but cannot be measured due to their more complex AUTOSAR structures. No measurement data will be displayed and an error message will be printed in the INCA monitor window for unsupported AUTOSAR signals.
- #550011 devices ETK-S20/ETK-S21/ETK-S22: Incorrect ECU status is shown in the INCA EE during ECU power loss
  The ETK devices ETK-S20/ETK-S21/ETK-S22 in case of MCU power off and ETK still supplied with power are actively driving the MCU reset which could lead to the status information inside the INCA EE of "ECU in reset" instead of "ECU off". The behavior was not changed to the new INCA version the behavior to other serial ETK devices could differ in this use case though because of a different ETK reset handling.
- #564713 Setting of CAN-FD Transceiver delay compensation (ON/OFF) shall be consider in the J2534/MDI2 device implementation. Configuration of this parameter

in INCA-HWC will be ignored.
CAN-FD Transceiver delay compensation configured in INCA HWC will be ignored, since the J2534 standard interfaces does not provide an interface to allow configuration of this parameter on device.

- #583041 ES820 Drive Recorder with INCA V7.2.5 reboots if attempt to load recording job - in case an INCA V7.2.6 (or higher) ETK Project with A2L file if the key ETK_XETK_REF is defined in section TRACE_TRIGGER_CFG

  INCAV7.2.6 (and higher) contains a new feature for the XETK/FETK-driver. Due to this, corresponding EXPORT-files from INCA V7.2.6 (and higher) are not backward compatible to former INCA versions.
  Affected are INCA V7.2.6 (and higher) ETK Projects with an A2L file, if the key ETK_XETK_REF is defined in section TRACE_TRIGGER_CFG.

  ETK_XETK_REF is optional and was not evaluated until INCA 7.2.6.

  Example:

  ```
  /begin TRACE_TRIGGER_CFG
    TRACE_TRIGGER 0
     0x70000008
     CONFIG "MaxTriggerValue" "0xFF" ECU_ID 1024
     ETK_XETK_REF 1
  /end TRACE_TRIGGER_CFG
  ```

  Workaround to overcome the issue in such case:

  - Workaround for PC users: Re-assign the same project to FETK or XETK in the INCA HWC in the used former INCA version.
  - Workaround for ES820 users: INCA V7.2.5 should be used on the PC (the same version is in use on ES820) to create exports for the ES820 Drive Recorder.

  Solution for ES820: It is planned to release a higher compatible INCA version on the ES820 Drive Recorder.
- #550426 ES720 Drive Recorder: Deactivated "Stop Trigger" from INCA V7.2.2 is not respected in INCA V7.1.x
  ES720 Driver Recorder with INCA V7.1.x software does not respect the stop trigger exported from INCA V7.2 and evaluate it wrongly.
  Workaround: Remove the "Stop Trigger" condition in INCA V7.2 before the export for the drive recorder.
- #563090 Sporadically happens that the datalogger could not be activated and then stop simulation is not working.
  Then an update of the Windows Universal CRT might be required. The Windows Universal CRT Dll is a component of the Windows Operating system and updated with Windows OS. Details see: https://support.microsoft.com/en-us/help/2999226/update-for-universal-c-runtime-in-windows

5.19.4 Known issues solved with INCA V7.2.8 – Important Hints

- #588380 Repair Database makes error in Korean "System Locale" or other 2Byte Char language setting and additionally internal information of objects in the data base will be changed mistakenly

  (KIR-issue, see also ETAS Download Page)
  Affected INCA Version: INCA V7.2.7

  IF
  in in the Windows Setting "Language for non-Unicode programs" - the "Current system locale" is changed to a 2 Byte Char Language (like Chinese, Japanese, Korean, etc.)

  AND

  an INCA data base is used with INCA V7.2.7

  THEN

  INCA will no longer correctly evaluate additional internal INCA data base objects - and the additional information might be lost during further operation.

  Consequently duration of some operations might take longer (e.g. open VSD as cache information is not used) or the Change Date of an object will be displayed wrongly (and will get lost).

  Repair and Convert will no longer work.

  It is no longer recommended to work with such setting and INCA V7.2.7 with the data base to avoid data loss. After update to INCA V7.2.7 HF1 or INCA V7.2.8 (from INCA V7.2.7) it is highly recommended to start from a backup version of the INCA data base.

  Setting with non 2Byte Char Languages, like English, French, German etc. are not affected.
  Workaround: Use INCA V7.2.7 only with a non 2 Byte Char Language Setting.
- #585515 Multiple XCP download commands occur when calibrating 1D curve using INCA COM (SetDoublePhysValue). Note: Already solved with "SetDoublePhysValuesRange()"
  The originally introduced method SetDoublePhysValue sends the values always 2 times to the ECU. To avoid this and to keep compatibility an improved method SetDoublePhysValuesRange was introduced with INCA V7.0.0. It is highly recommended to use SetDoublePhysValuesRange but no longer SetDoublePhysValue to avoid this performance issue. Online documentation is also updated with this hint with INCA V7.2.8.

5.19.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
357148	Cut and Paste datasets works inconsistent
377076	EE: Init hardware (F3) can lead to "[WBID2753879971] UndefinedObject does not understand device" with special workspace
422290	EE/VSD: Possible that "Bounds Value" is not correct used in "Properties"
436372	CSE: "[WBID2602145997] UndefinedObject does not understand asap2" can occur when remove a scenario and close inca
442820	Character corruption at variable description in VSD on Japanese language
458085	[WBID3635886821] UndefinedObject does not understand bitAnd:
459483	Switching on the calibration access on RP leads to download on RP
460386	Switching CAN/CAN FD projects INCA does not offer all the existingTransport layouts
461340	It is not possible to check whether the DB element is a Can-DB or not (IsAsap2CanDB Method returns False) -> new IsTypeCanMonitoring() introduced
461940	CDM: INCA stops responding and two instances of EE window instead of one is getting opened for destination dataset.
467598	FIM: Transformer Path is in every case used relative to Inca Path
477724	EE_POLLING: "[NetWBID398135406] System.Xml.XmlException: Name cannot begin with the "" character, hexadecimal value 0x22. Line 3, position 17." when device name starts with "
478415	FIM: it is possible to open ASAP2Editor 2 times and do a transform on blob blob in both editors result "[WBID2872081978] UndefinedObject does not understand device"
486336	EE: [WBID1573308648] UndefinedObject does not understand getDevice: Walk-back ocurs while changing value to 'true' for a variable.
487345	Project name displayed shortened for MeasuerCal variables
489893	The measurement variables in the specific exp file will be deleted when opening EE.
490905	HWC_EE: Replace system to virtual system and open EE can lead to "[WBID3297897506] UndefinedObject does not understand ,"
493300	EE: [WBID1041560961] Invalid operation during callback: INCA crashes while importing attached 'ChangedStatus.exp' file.
498018	Bounds range values inverted automatically
502213	Can not start the INCA recorder with any Experiments in case Polling with ETK Device
504748	Confirmation message appears twice when user tries to delete project when EE is already opened.
511192	[WBID2872332542] Primitive failed in: String>>#at: due to Index out of range in argument 1 when reading A2L and emorySegments contains moduleParameter keywords in the longName
511454	EE: Lab file doesnt contain the calibration signals when the signals are added in default recorder
511896	[WBID1571033877] UndefinedObject does not understand device
513152	CDM: option "Generate variable lists for function processing "= "No variable list" does not work
513927	Wrong Monotony violation error message in place of exceeding hard bound message appears while trying to enter value about Hard bound limit.
524275	Drag and Drop of from measure window with bit representation does not work
535441	Order of VUI elements is not retained
538434	EE: "[WBID884761927] UndefinedObject does not understand alignment " occurs while adding calibration variables via MCE-VSD

538633	POWER OFF for ES891: HW reinitialization does not work after power on (ES891)
539509	[NetWBID1798657420] System.Runtime.InteropServices.COMException: <LOCALIZED>Legacy access is not possible</LOCALIZED><HRESULT>0x80004005</HRESULT>
540585	[WBID3098144109] UndefinedObject does not understand +
542861	Import does not work due to not existing user folder
546029	[WBID1843787773] UndefinedObject does not understand getImplValue:
546162	[NetWBID1454121674] System.Runtime.InteropServices.COMException: <LOCALIZED>Legacy access is not possible</LOCALIZED><HRESULT>0x80004005</HRESULT>
547849	Nested trigger conditions not evaluating correctly when trigger name matches a signal name
548989	[WBID4222741693] UndefinedObject does not understand interval - Walkback when select Optional Data tab in ASAP2 Editor for variable with an undefined RECORD_LAYOUT
551177	[WBID1661950726] UndefinedObject does not understand hasAliasName - Walkback when assigning project to FETK
553122	[WBID1017627418] UndefinedObject does not understand existsMeasureDataFor:
553216	Inconsistent device naming between (F)ETK and XETK
553717	EE: [WBID1730070284] Vector does not understand writeValue:withBitMask:: INCA crashes trying to Copy paste the value for variable 'BOOLEAN.KF_xU8_yFIX_wBOOL'.
554048	API: Can not start INCA recorder after run script (manual or over script)
555827	[WBID67593608] UndefinedObject does not understand <=
555969	Online help - Additional compare mode requires description for table compare mode
556141	MCE-XCP-IlinkRT : With XCP, ASAP3 crashes on GetOnlineValue command with 400 labels added into iLinkRT configuration
556543	DblPrChck_ERR lab file has invalid format
557748	Cursor color for speedometer not visible if background color is 3rd darkest grey
558002	ASAP2 container: read container does not work if pathname include "ä,ü,ö" etc.
559685	[WBID265917708] EtasInCircuit2CalibrationMethodWrapper does not understand clearModifiedUponCreationFromDB
560712	[WBID4286756730] UndefinedObject does not understand specification when changing DB while subset generator is open
561046	[NetWBID3580800068] System.InvalidOperationException: Element 'KP_PK1\CAN-Monitoring:2' not found in variable configuration
561201	[WBID144451432] UndefinedObject does not understand +
561402	Low performance if replacing EE in the selected workspace offline in the DB window
561631	No measured values for calculated signals are displayed in the experiment
563039	"Context-menu"-keyboard key doesn't work in INCA-main-window
564713	Setting of CAN-FD Transceiver delay compensation (ON/OFF) shall be consider in the J2534/MDI2 device implementation. Configuration of this parameter in INCA-HWC will be ignored.
565503	Choosing Transportlayer only works with new Workspace
565798	Not possible to change value in combined editor with display mode that show differences
566568	Recorders: Multi rasters are not selected when user tries to add variables from Manage Recorders.
567492	INCA V7.2.5: Performance loss open INCA and create new DB. Solved
568501	Datarepresentation changes while switching from WP to RP in CSE table

568514	[WBID3386478906]Primitive failed in: Object>>#at: due to Index out of range in argument 1
568767	[WBID2670053632] UndefinedObject does not understand copyFrom:to:
570735	EE: "Insert" hotkey to add the variable in the "MeasureWindowAlert" VUI window is not working
571083	Filter for Role in VSD does not work reliable
571547	Standard recorder state machine gets stuck. INCA has to be closed by the Task Manager.
572511	Improvement of XCP protocol in case of DISCONNECTED Status according to XCP Specification to avoid delays and freezes
573054	INCA-TOUCH: Missing information system requirements speech recognition. Note: Infos added to release notes.
573644	[WBID306560295] UndefinedObject does not understand getImplValue:
573723	ES820.1: ERROR: Failed to start recording for experiment
573846	[NetWBID686906861] + [NetWBID3805386347] System.NullReferenceException: Object reference not set to an instance of an object.
574400	EE: Possible getting different result after Pasting Values from Clipboard or via pasting Complete Axis and Output in Curve Axis
574516	INCA 7.2.5 Installation error - ErrorCode 1625 Installation is forbidden by system policy
574527	TargetServer error when run INCA V7.2.5
574863	Using UDS in ODX Projects issue - device couldn't be initialized
574957	Column Width in Combined Editor is not taken over when Autosize Setting is disabled
575179	LiMa: NLS - Error text in English in the German context.
575215	[NetWBID2314523908] System.NullReferenceException: - when change ratster assignment of all variables on a layer
575281	INCA_FLX_UDS : flashing stops abruptly for UDSonFLX with ES595 device
575489	MCE: UUID Error with MCE and BR-XETK-S1. Note: Solved with HSP V11.8.0
575605	[WBID919092954] Dictionary does not understand asHighCapacityLookupTable
575614	[WBID306560295] SmallInteger does not understand adjustValue: - Walkback if ES6xx signal name contains special character
575752	[WBID855740914] Array's should not implement this method
576030	ASAP3: wrong error code appears when raster are full
576042	Changing signal name of ES6xx device causes signal configuration to reset
576168	[WBID2579752945] UndefinedObject does not understand duplicateInFolderName:
576179	ASAP3: new command "Read all Calibrations from File" does not return correct error messages (which are available via API)
576520	EE: "[NetWBID753132642] System.Xml.XmlException: '<', hexadecimal value 0x3C, is an invalid attribute character. Line 3, position 20." can occur when adding signals in polling raster
576561	INCA-EIP: vECU Issue: Calibratables not saved after vECU re-start. Note: Documentation updated
576922	INCA-Touch: Calibration of enumeration is not possible. Note: Already solved with INCA V7.2 SP7
577294	[WBID1577932813] Primitive failed in: Object>>#at: due to Index out of range in argument 1
578822	INCA and MDA InstallationDefaultSettings.xml file defaults to D drive for ETASData folder
578827	[WBID985684475] DBError does not understand isReady
578884	ETK-S22_TU10.0_V850E2_FX4 : ECU restart fails after it is released from reset. Note: Solved with INCA V7.2.8 and HSP V11.8.0

579095	Experiement is undefined state instead of ECU OFF - NO ACCESS during measurement interruption
579507	[WBID3796414910] Primitive failed in: OSPtr>>#uint8At:put: due to Value out of range in argument 2
579988	INCA freezes after stopping the recorder (configured with repetitions)
580083	INCA window : XCP : The ECU is busy" is kept despite of the fact that the ECU does not send ECU busy event messages any more.
580145	EE: [WBID3021644136] MCSDefaultRecorder does not understand getMeasureWidget: INCA throws WB when trying to add a variable which is set to BlackList.
580252	PROF shall support to forward the BOA URI of the selected Flash Port to an external Dll
580727	EE: Undo functionality does not function as expected when multiple cells are selected in combined editor
580919	[X/FETK: Measurement Interruption] - Measurement does not continue / is not set up after short PowerCycle of ECU/XETK
581128	EE_MCE: Open EE with MCE configuration -> Calibration not possible -> additional Hardware init needed -Limited EMU Ram
581173	The failure behavior by interrupted connection should be clear
581202	Calibration not possible anymore after after declining LERT "Automatic Reconfigure" confirmation dialogue
581458	ETK: TgtSvr crash after ECU connection re-establishment
581510	[NetWBID2947425148] System.NullReferenceException:
581588	After export and import a workspace with customer-DBC no Signals values are shown in Experiment any more.
581596	INCA ES6xxAddOn: Add support for new probes ZFAS-U3 and LSU5.2
581704	[WBID1595113687] Primitive failed in: OSObject class>>#reference:reftype:offset: due to Invalid class in argument 1
581763	[WBID2749365249] UndefinedObject does not understand timeStamp:
581872	INCA V7.2.7: "EXPORT_PROJECT " time related to former INCA Version worsened.
582099	[NetWBID3325646839] System.ArgumentException: An item with the same key has already been added. - When calibrate a group map in CDM
582111	[WBID4195118619]UndefinedObject does not understand do:
582146	[WBID1556615653]Primitive failed in: String>>#at: due to Index out of range in argument 1 - reproducible in case read attached A2L file with buggy syntax
582330	Change the description when INCA and another application sharing the same network connection as a master
582384	CDM: [WBID206700317] UndefinedObject does not understand shortNameType - during creating CDF file
582515	INCA-SIP / MDF: MATLAB can crash with (huge, 41 MB) MDF files
582517	XETK: A2L entry NOT_ALLOWED_x_BITS : makes fill level inicator in INCA-VSD always "red"
582518	INCA V7.2.6 crashes when opening Experiment (used in V7.2.5) with [WBID306560295] UndefinedObject does not understand replaceFrom:to:with:startingAt:
582560	ARXML Signals filtered per Cluster
582658	INCA-MIP: it is not possible to add more than 350-450 CAN-FD Monitoring variables (manually possible): Manual updated with an additional note in chapter 4.4.3.
582680	Block calibration is 10 times slower with table editor for scalar values than the calibration window editor. Performance improved by factor 10-100.

582697	INCA does not behave as expected when entering 2^64 +/-x as number of repetition for trigger
582952	ASAP2Ed: Possible getting WB([WBID4107156604] UndefinedObject does not understand removeActionDictForWidget:) after changing Weak Bounds in ASAP2 Editor
583094	Raster check does not display the result for 10 s Raster
583236	EE_Recorders: Unable to add variables, that are listed in "BlackList" to background recorders.
583248	INCA-TOUCH only borrow licenses are shown as used but not checked out licenses
583250	Uploading A2L files via XCP command GET_ID: TgtSvr crashes if provided buffer is smaller than A2L file
583281	EE: If EE includes 2 SubVUI with same name then Labels partly added to wrong SubVUI
583317	INCA Crashs after changing axis distribution values in CDM [NetWBID2276862425] System.NullReferenceException: Object reference not set to an instance of an object.
583336	[WBID1957642456]UndefinedObject does not understand hasMemorySegments
583435	[WBID306560295] UndefinedObject does not understand type
583580	ASAP3: ASAP3.exe crashed after command sequence. Command Get Online Value crashed. EnableExtendedGetWorkingPoint=on
583748	Window is lost after deleting the previously containing layer
583750	Change Project with different Transportlayer name in Workspace leads to crash when opening Experiment
583783	[WBID820924463] Primitive failed in: String>>#basicAt: due to Index out of range in argument 1
583879	CDM - CDFX comments are not read unless paragraph markers (<P>) are included
583913	DB: Text "3 Experiment" written above the Icons is not any longer written above the Icons in DB Browser after EE was opened
583919	Search HWC: On the left side from the Search Input Field is a unexpected Split Bar under these Field shown
583926	[NetWBID755140796] System.NullReferenceException: - when change rasters.
584027	ETK-T2.2 : ECU status changes to "Data from data flash" after measurement interuption behaviour.
584047	INCA Walkback on optimized export of experiment with ODX - [WBID3628085547] ASAP2DBProject does not understand duplicateReduced:
584051	CDM: Missing limits in Output-file (VTAB and BOOLEAN) after copy + list
584063	Improvement of the cluster filtering of duplicated signals to avoid missing signals after AUTOSAR file import
584161	EE: WB([WBID511287381] MCSNameObject does not understand includesSubstring:) after save EE before VUI was changed
584172	[WBID320192481] Primitive failed in: OSObject class>>#reference:reftype:offset: due to Invalid class in argument 1
584223	ASAP3_MCE:ASAP3.exe crashed on Command "Get Online Value" : Workspace with ETK and XCPonCAN
584230	ETK: Measurement with SDistab does not work properly (if more than one ETK is defined in A2L file)
584276	INCA does not initialize NeoVI Fire 2 as a CAN-Monitoring device when using GM Global B CAN-FD ARXML. Note: Has to be solved by updated firmware
584291	EE: Calc signals with name like "test_[a]_number" will be removed from recorder when calc signal dialog is closed with "OK" button
584363	ES830: Crash in a1b etargetEthernet.dll on close INCA

584375	DB: Possible to get WB([WBID2907835089] MessageNotUnderstood: MCSMainCtrl>>writeAsap2:toFile:) after using asapProject.WriteAsap2ToFile
584427	INCA-TOUCH: Add Layer is not shown in Display bar while being hide
584429	INCA records calibration as *.Output not in defined raster
584561	It is not possible to add more than 2 XETK devices to Workspace via API
584657	KID4GS: GET ONLINE VALUE depends on recorder state if KID is in use. Recommendation: Set the ASAP3 Option for "Compatibility" (in corresponding TAB): "Use old measurement mode (100ms update reate)"
584702	XCPCA-FD-Project cannot be assigned in INCA-HWC
585030	Changed order of variables of the measurement table is not stored.
585040	CDM does not work at Korean-named Directory
585127	INCA 7.2.7 crashes if HWI.DK (MDPlayer add-on) device offers signal names which contain brackets []: [WBID306560295] UndefinedObject does not understand adjustValue:
585515	Multiple XCP download commands occur when calibrating 1D curve using INCA COM (SetDoublePhysValue). Note: Already solved with "SetDoublePhysValuesRange()"
585602	No measure values after changing the acquisition configuration while ECU is off
585616	DefaultRecorder elements are not copied properly when layer is copy pasted from different experiment.
585618	INCA/INCA-FLOW: [WBID144451432] UndefinedObject does not understand + // occurrs during auto test by INCA-FLOW.
585642	Warning "eventually window shortcut incorrect for: CSV" appears any time a CSV output file is opened in CDM
585725	ES910: MAX_DLC_REQUIRED on ES910 together with MCE over XCP on CAN does not work
585886	Calculated signals can not be saved in default recorder
585957	INCA cannot be started via ToolAPI running on 64-bit Applications. Note: Wrong registry enties corrected.
585994	WBID821419939 - UndefinedObject does not understand allMeasurementLabels - after open HWC and assign the DBC-Object to the workspace
586048	BITMASK "0x10000000000000001" leads to "[WBID2619193522] Primitive failed in: ByteArray>>#uint32At:put: due to Value out of range in argument 2" when open EE
586079	ES650 channel formulas change without any user interaction
586104	INCA crashes when trying to open Experiment with [WBID306560295] False does not understand convertFor: - Note: Already solved with INCA V7.2.7
586235	INCA-MCE: It is possible to select variables in Polling raster via lab-file V1.1 though this use case is not supported
586322	TgtSvrLegacy.dll: Critical Exception 0x40000015_when experiment is opened
586342	CDM: Change from QM Basci status with import from User Option is not reflected in Outputname Variables
586408	Duplicate Hotkey(Combined Editor) [Alt] + [x]
586458	BR_XETK-S3 does not work with TC26x_ED B-Step
586521	KVL_BlackList_Recorders: [WBID2892113291] (ExCLDTKeyNotFound) Key not found.: INCA crashes when trying to add variable (listed in BL) to Default Recorder
586541	ES830: In the context of Rapid Prototyping, INCA IP Helper tool doesn't work for ES830
586564	CDM: [WBID3672383736] UndefinedObject does not understand measureController: INCA crashes when selecting 'No' or 'Yes' button on Save dialog while closing CDM window.
586605	Measurements using multiraster are not allowed in MCEConfig - Customer Widgets

586610	Improvement of the XCP DAQ timestamp overflow and time synchronization by using GET_DAQ_CLOCK, EV_TIME_SYNC and configuration parameters of XCP (TIMESTAMP_SIZE, TIMESTAMP_UNIT and TIMESTAMP_TICKS)
586640	[WBID2266315997] Primitive failed in: ArrayedCollection class>>#new: due to Invalid class in argument 1
586643	IPM-Server: Automatic configuration does not work for two networkcards anymore
586779	COM_API:Title : Command GetItem return ECU-Project after renaming of ECU-Project
586811	Formula is not invertible error in CDM for time constants - in case of poles or div. by zero in function/formula.
587035	Classic CAN Project from ARXML is handled as CANFD in INCA / not possible to asing to old HW e.g.: ES581.4
587181	XCPonCAN Comand FD 05 leads to Message Window while ASAP3 is active
587190	INCA crash with Targetserver Error: ETAS Time DLL: Critical Exeption 0xC0000005
587357	INCA-TOUCH Screen Rendering Issues
587431	INCA-TOUCH V7.2.8 Beta not opening experiments from older INCA versions
587433	INCA-TOUCH - misspelled word "Grapic" used instead of "Graphic"
587437	INCA-TOUCH V7.2.8 Beta no longer has the option to select target controller for WP/RP switch
587439	INCA-TOUCH - Function button is not accessible once a variable is selected in the variable list
587616	A2L-Editor: [WBID3561737415] The part <unnamed> can not be opened because it has been destroyed.
587635	[WBID859124045] UndefinedObject does not understand ceeDisplayName while selecting UI Developer mode in vui
587715	INCA V7.2.8: CAN-Monitoring: Complex AUTOSAR signals are not supported for ES590/ES591/ES690/ES1222
587794	Target Server crash due to error in EtasTime.dll
588198	It is not possible for the user to toggle from false to true if BIT_MASK 0x80 is in use
588380	Repair Database makes error in Korean "System Locale" or other 2Byte Char language setting and additional internal information to objects in the data base will be changed mistakely
588480	Copy from Excel to MAP or CURVE not working in case of unknown formatting (e.g. thousand delimiter or string)
588940	[WBID2012728120] Primitive failed in: OSPtr>>#uint8At: due to Invalid offset in receiver - when add a exchange file per drag and drop to the CDM
589107	ETAS License Manager: Installation on Win10 failes sometimes
589201	vcredist_2008sp1_x86 is installed with INCA 7.2 but not compatible with Windows 10. Note: They are compatible. Whats New updated with correct VS version numbers.
589265	After getting busy status from ECU, ProF send PROGRAM_NEXT
589300	Walkback at Close EE Offline [WBID2852979782]
589511	ES830: Problems in searching Connected Hardware's after initializing ES830
589514	If QM-basic AddOn is not licensed, it is not possible to use basic functionality of INCA when grace mode expired. Note: It is posible to deactivate QM-Basic by an INCA user option (INCA.ini: [General] PacoActive=false)

5.20 INCA V7.2.7 HF 1

See also section INCA V7.2.7, please.

Additionally the one of the reported KIR issue is solved with this hotfix.

5.20.1 Known issues solved with INCA V7.2.7 HF1

#588380 Repair Database makes error in Korean "System Locale" or other 2Byte Char language setting and additionally internal information of objects in the data base will be changed mistakenly

(KIR-issue, see also ETAS Download Page)
Affected INCA Version: INCA V7.2.7

IF
in in the Windows Setting "Language for non-Unicode programs" - the "Current system locale" is changed to a 2 Byte Char Language (like Chinese, Japanese, Korean, etc.)

AND

an INCA data base is used with INCA V7.2.7

THEN

INCA will no longer correctly evaluate additional internal INCA data base objects - and the additional information might be lost during further operation.

Consequently duration of some operations might take longer (e.g. open VSD as cache information is not used) or the Change Date of an object will be displayed wrongly (and will get lost).

Repair and Convert will no longer work.

It is no longer recommended to work with such setting and INCA V7.2.7 with the data base to avoid data loss. After update to INCA 7.2.7 HF1 it is highly recommended to start from a backup version of the INCA data base.

Setting with non 2Byte Char Languages, like English, French, German etc. are not affected.

Workaround: Use INCA V7.2.7 only with a non 2 Byte Char Language Setting.

5.20.2 Known issues of INCA

See INCA V7.2.7. Additionally:

#588480 Copy from Excel to MAP or CURVE not working in case of unknown formatting (e.g. thousand delimiter or string)

(KIR-issue, see also ETAS Download Page)
Affected INCA Versions: All.

IF
a map or curve is copied e.g. from EXCEL (source) and pasted to INCA map or curve (destination)
AND
one or more cells of the source contains information, which INCA cannot detected correctly e.g. string or a thousand delimiter
THEN
INCA copies only a part of the source correctly to the destination.

Beginning with the cell, INCA cannot detect correctly, no value is copied or more worse, values from other cells of the source will be copied to wrong cells in the destination.

Workaround: **Change setting of EXCEL (or other source) such that no thousand delimiter is used. Source shall not contain strings.**

Note: It is planned to solve this issue with INCA V7.2.8 and V7.2.9.

5.20.3 Bug Fixes and Improvements

EHI #	Title
588380	Repair Database makes error in Korean "System Locale" or other 2Byte Char language setting and additionally internal information of objects in the data base will be changed mistakenly

5.21 INCA V7.2.7

5.21.1 Recommended Installation

It is strongly recommended to update and down date INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack Installer.

Very important: After the installation a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.21.2 New Features

See What's News slides INCA V7.2:

- INCA-V7.2 SP7 -Whats-new.pdf: News of the current INCA Service Pack.

5.21.3 Known issues of INCA V7.2.7 – Important Hints

- #583041 ES820 Drive Recorder with INCA V7.2.5 reboots if attempt to load recording job - in case an INCA V7.2.6 ETK Project with A2L file if the key ETK_XETK_REF is defined in section TRACE_TRIGGER_CFG

  INCAV7.2.6 contains a new feature for the XETK/FETK-driver. Due to this, corresponding EXPORT-files from INCA V7.2.6 are not backward compatible to former INCA versions.
  Affected are INCA V7.2.6 ETK Projects with an A2L file, if the key ETK_XETK_REF is defined in section TRACE_TRIGGER_CFG.

  ETK_XETK_REF is optional and was not evaluated until INCA 7.2.6.

  Example:

  ```
  /begin TRACE_TRIGGER_CFG
    TRACE_TRIGGER 0
     0x70000008
     CONFIG "MaxTriggerValue" "0xFF" ECU_ID 1024
     ETK_XETK_REF 1
  ```

/end TRACE_TRIGGER_CFG

Workaround to overcome the issue in such case:

- Workaround for PC users: Re-assign the same project to FETK or XETK in the INCA HWC in the used former INCA version.
- Workaround for ES820 users: INCA V7.2.5 should be used on the PC (the same version is in use on ES820) to create exports for the ES820 Drive Recorder.

Solution for ES820: It is planned to release a higher compatible INCA version on the ES820 Drive Recorder.

- #563090 Sporadically happens that the datalogger could not be activated and then stop simulation is not working.
  Then an update of the Windows Universal CRT might be required. The Windows Universal CRT Dll is a component of the Windows Operating system and updated with Windows OS. Details see: https://support.microsoft.com/en-us/help/2999226/update-for-universal-c-runtime-in-windows
- #550426 ES720 Drive Recorder: Deactivated "Stop Trigger" from INCA V7.2.2 is not respected in INCA V7.1.x
  ES720 Driver Recorder with INCA V7.1.x software does not respect the stop trigger exported from INCA V7.2 and evaluate it wrongly.
  Workaround: Remove the "Stop Trigger" condition in INCA V7.2 before the export for the drive recorder.

5.21.4 Known issues solved with INCA V7.2.7 – Important Hints

- #573088 ES581.4: CCP communication problems due to backward compatibility issues.
  User of INCA V7.2.5 or older versions together with the ES581.4:
  To avoid compatibility issues with the firmware version on the ES581.4 device, please install the ED-EBI package in addition to the USB driver contained in HSV V11.6.0 (or higher)

5.21.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
357061	COM-API - SetRecordingPathName: Folder is not created if measurement file path is not yet existing
379011	Not able to perform Upload action in 'Memory Manage Page' thru Scripting API for XCP Device
400641	CSE: WB [WBID2276725951] when activating a newly created scenario

405590	White space in Measure Window with Table
420402	ToolAPI command SetRecordingFileAttributes() does not SetPath, if folder does not exist -> but still returns true
421267	Recording does not start
450323	Edit and create history entry not accessible in CDM Label viewer if a PaCo-file is selected as source
494308	[WBID2809760232] - Walkback when open experiment with special character in device name
511391	Unexpected entries in CDM Settings -> Output. When creating a new CDM the CDM output format options where not initialized with the corresponding visible values
544884	MDF 4.1: wrong si_bus_type
552974	[WBID306560295] AMLLabelIfDataXCP11 does not understand kpBlob
553260	EE: when putting to many labels into polling raster "[WBID4195639978] EtasTSPollingDevice does not understand setError:" occurs
555355	Copying cell properties does not work if using Ctrl C
556827	Performance: Time taken to open workspace has increased with INCA V7.2.4. Solved.
557466	INCA - Progress Bar needed at start recording
557905	EE: After several action in Table Editor it is not any longer possible to use many shortcut / Context Menu
558100	Problem in INCA V7.2.x: Export of experiment elements in database browser not possible if MCE addon is used and MCE variables are preselected in experiment
558474	Address Extension was not configured in SHORT_UPLOAD command requested by INCA
559370	Garbled Japanese characters in VSD
560926	VUI: Edit Y-Axis Point... does not open to accept values from user
563929	Unreadable character in Variable selection dialog for labe information in Japanese
564127	INCA-TOUCH Increment/Decrement Function buttons do not use configured step size
566693	ODX_UDS_FLASH: UDS Flashings not possible
566908	INCA option "allow calibration with unequal RPs" can not be applied on an already created WS
569027	ES820: RecJob is hanging on loading, when attempting to run EIP experiment in grace mode
569191	Descriptions for Japanese online help are in English
569437	EE: When copy variable to Scalar Table Editor [WBID305622912] UndefinedObject does not understand menuOptimizeColumnSize
569991	Exchanging Project in HWC leads to runtime error "Das Gerät ETK-Testgerät ist schon verwendet"
570306	EE: Possible that after Copy&Paste from Recorder in DBBrowser the Raster in Recording Tab are wrong
571821	Example Documentation DEMO03 can not be found
572427	Using API to create a HW configuration with XCP protocol is not possible with the French version of INCA
573078	Drive Recorder: Logviewer.dll: Unable to read log file from specified position w/o keeping result in internal cache.
573088	ES581.4 : CCP communication problems due to backward compatibility issues. Note: Solved with HSV V11.6.0
573204	[WBID826584337] UndefinedObject does not understand includes:
573210	CDM performance issue while deleting filtered list of functions.
573338	Oszi shows wrong data after changing conversion

574367	Wrong measure values over ASAP3 with MCE when adding/inserting the same signal several times by different ASAP3 clients
574399	Snapshot INCA V7.2.5 Oszi remains empty beside of the signal list
574490	ETAS License Manager/INCA: Incomprehensible behavior of INCA when no floating licenses available
574754	Convert Experiment does not work for new Osci in VUI
575148	Prof Compatibility Check (V1.1) doesn't work. Recommendation: Correct the ProF script.
575258	[WBID2662325400] Primitive failed in: String>>#at: due to Index out of range in argument 1
575382	Performance: Time taken to open VSD has increased in latest INCA version (V7.2.6)
575607	"CDM output file" path is saved in the cdm-object but will be ignored during start of CDM from INCA-EE
575709	No indication about EE state during "Start Recording" time (c.a. 15s)
575735	CDM: Possible getting WB([WBID3722473364] UndefinedObject does not understand >) after using List All
575889	Flash programming of area [0x80080000 - 0x807FFFFF] of ETKS20.1 ends with error at 45%. Note: Solved with a new ProF Configuration.
575980	CDM: "WBID1958966030] UndefinedObject does not understand getImplType" can occur in cdm inline editor
576023	Correct physical value are not shown using Instrument Integration Development Kit (INS_IP). Note: Already solved also with INCA V7.2.6.
576285	[WBID2735984887] UndefinedObject does not understand resetTabList
576290	VSD: 'Axis range' value changes after reopening VSD.
576438	INCA Help menu missing when two folders are selected
576442	Crash when calibrationSessionLog in MDF format is written with [WBID854691267] WinError does not understand openFile
576726	CDM COMPARE: "[WBID3946430571] UndefinedObject does not understand typeSize" can occur when perform a compare
576836	ASAP3 Manual: desription of error IDs 60214 & 60217 is the same (typing error)
576866	[WBID3864389055] EtasVUIExperimentController does not understand createExtensionMenu. Note: Is solved with Daimler Extensions 7.2.5.119
576925	Multiple changes using VTAB not works
576953	XCPonFLX/FLX automatically initialisation with delay
576986	INCA stucks if stopping recorder
577735	ARXML file import is interrupted without any meaningfull message (if the version is not compatible)
577888	[WBID660204276](ExCLDTIndexOutOfRange) Index out of range.
577962	CDM: Unexpected ERR.lab.lab file existing (err.lab.lab file gets created, even the Groups are existing)
578130	INCA does not respect A2L MONOTONY information -->INCA lists over 1500 warning messages
578133	The string name of data sets is not sorted correctly
578162	INCA freeze after 2-3 recorded files and creation of corrupted file after next manual recording. Recommendation: The recorder configuration has to be updated.
578419	CDM Headline shows after Exchange Source and Destination wrong file name
578422	ETAS License Manager: No influence of "Refresh status information at startup" checkbox
578424	Service Pack Installer: "Down Date" - icon changed during installation to normal installation icon - but should stay "Down Date"

578426	$ActiveCalibrationPage is displayed incorrectly in measurement files depending on the format MDF3.3 and on the multiple raster selection
578524	[WBID2747826263] UndefinedObject does not understand detect:ifOne:
578684	Unit of group axis not treated correctly
578861	ODX_KWP_FLASH: Crash in KWP2000 Asap1b on cancel ODX Flash operation
578994	KVL: "[WBID2063021817] UndefinedObject does not understand replaceFrom:to:with:startingAt:" can occur when changing order number to large number
579133	EE: Possible that NoMatch List includes same Label more than one time
579182	EE: Possible that KVL add already existing Label to KVL Layer
579475	Vector VX1132/1131: CAN-Monitoring Signal are written with offset to measure file. Note: New driver for Vector VX1132/1131 required
579691	EE: WB([WBID792966903] (ExCPMStackOverflow) A stack overflow has occurred.) when try to change a value using User Option "Allow Calibration with different RPs"
579859	CDM - WB when editing boolean in inline editor: WB ([WBID2717544274] EtasASAP2StringTableCalibrationWidgetModel does not understand selectedWidgets)
579863	WB([WBID306560295] False does not understand convertFor:) when try to open special EE
579949	Change of ETK-Project on DB take a lot of time, when some FLX or CAN objects are in workspace
579967	Last sample of WP ($ActiveCalibrationPage) incorrect
580038	ETAS Time DLL: Critical Exeption
580167	Service Pack Installer: Support of MDA 8 - installation or any other 64bit Installation (with SPI V2.2.6 a MDA V8 installation was not detected)
580193	CDM output path mismatch when listing a cdfx file into the project folder
580195	Lab V1.0 file RAMCELL position has changed from INCA 7.1.10 to INCA 7.2.6. Fixed with INCA 7.2.7 but recommendation: Change Tool to handle such change in future.
580253	Read-in corrupt A2l in INCA ends in a crash in case of MATRIX_DIM x 1 1. Solved but Recommendation: Please use NUMBER or MATRIX_DIM x for ASCII but not MATRIX_DIM x 1 1
580483	[WBID1577634150] UndefinedObject does not understand uiController
580484	[WBID1414275123] UndefinedObject does not understand deferRedraw:
580746	License Manager does not start after INCA update, reinstall of License Manager fails with error code 1603
580757	Installation triggers restart without warning/delay
580810	It is not possible to start "Explorer" from LiMA
580968	First time stamp of $Active Calibration Page is missing when Measurement is startet with trigger
580986	Recording Calibrations does not work
580992	INCA-Touch: Problems with displaying Bargraph after resizing it
580996	CDM - A value is displayed in the Scalar Table Editor as changed but the icon of instant compare still shows equal (green)
581056	Variables cannot be added to Default Recorder via VSD
581123	Delete signals from Measure Window after INCA crashed (restart INCA) - [WBID4137865905] UndefinedObject does not understand getOID
581129	Crash during manual HW INIT. (F3) after disconnecting PUMA-ASAP3 - [WBID4137865905] UndefinedObject does not understand getOID
581140	tx
581158	NetworkManager crashes when configuring IP

581214	Start CDM: [WBID2204552504] DBString does not understand truncate & [WBID4047786573] UndefinedObject does not understand reinitialize
581240	TgtSvr-Crash + ASAP3-crash when CAMEO via PUMA send command to ASAP3 (in case option for "process point activation" is set to: Yes) [WBID1828434506] Exception in UI process AND [WBID2171140994] String does not understand sign
581241	CDM option windows is not displayed
581348	INCA-Touch: Scope Legend not visible if bright Scope background colours is set. Default Text color changed to line color of the signal. So if the lines are visible the text in the legend is visible too.
581399	IP-Manager: Master not recognized in same network
581423	The EtasTime Windows driver could be installed twice which resulted in a PC freeze
581480	Korean name workspace is displayed wrongly in database browser.
581488	Can't see any paco history information by “Browse Calibration History" view for QM-BASIC(PACO) in INCA CDM
581527	System error occurs when I start MDA from INCA-Experiment. [WBID4240498695] unsupported type
581727	NetWBID1971169032 For details see: c:\ETAS\LogFiles\INCA\walkback\net000005.netwkb
581753	INCA-Touch: Range selection for Fillwith-Button is not working properly - undifened values overwritten
581783	Start the visualization in INCA V7.2.6 is not possible. [WBID2443813209] String does not understand between:and:
581792	Experiment: Menu Edit -> copy all data to clipboard ->paste ->does not copy values for axis points
581951	INCA V7.2.6: Adding a vailiable to Experiment caused system error [WBID87990780] Primitive failed in: String>>#at:put: due to Value out of range in argument 2
582128	Compressed flashing fails
582428	Copy of Values with VTAB not possible IF copy mode is exact AND size of String (of VTAB) is unequal. Note: was already solved with INCA V7.2.6 HF1
582540	INCA-TOUCH: Window size changes after reopening if fixed size is set
582574	INCA-SIP: Cannot execute the simulation from MDF file because of "MDF Stimulus Mapping Error"
582840	INCA-SIP: Model Validation does not work with any model
582929	CDM: DCM / CSV files: Can not copy bool calibration with compuVTab
582951	ASAP2Ed: WB([WBID2522611929] UndefinedObject does not understand addressOffset) after changing Label in ASAP2Editor and before a Bounds Check was done
583181	INCA-FLOW: Executing a reference page sync with INCA V7.2.6 leads to [WBID1875410638] UndefinedObject does not understand uniqueCacheKeyValue
583300	INCA V7.2.6HF1 Start Recoding: [WBID1938567550] UndefinedObject does not understand doSingleShot:
583524	Japanese character not displayed on database browser
583576	INCA V7.2.7 Beta: Targetserver Crash during recording
584061	EE: Existing calc signals are removed from recorder when open calc signal editor and close with OK
583649	Inconsistent measurement data for certain variables in 100 ms raster in case ETK-S20 with TC29xED and ES5xx or ES910 in case of given project. Note: Solved with HSP V11.7.0

5.22 INCA V7.2.6 HF 2

See also section INCA V7.2.6 and V7.2.6 HF1, please.

Additionally on important issue solved with this hotfix.

5.22.1 Bug Fixes and Improvements

EHI #	Title
583300	INCA V7.2.6HF1 Start Recoding: [WBID1938567550] UndefinedObject does not understand doSingleShot: Side effect of #578426 with INCA V7.2.6 HF1 solved.

5.23 INCA V7.2.6 HF 1

See also section INCA V7.2.5, please.

Additionally the reported KIR issues and several important issues are solved with this hotfix.

5.23.1 Known issues solved with INCA V7.2.6 HF1

#581056 Variables cannot be added to Default Recorder via VSD

(KIR-issue, see also ETAS Download Page)

IF
in VSD measurements shall only be added to the default recorder without visualization in an instrument
OR
parameters shall be added to the default recorder
AND
INCA is used in a language different than English
THEN
INCA does not add it to the recorder

Workaround: Use INCA with language English

Note: Solves also #580986 - Recording Calibrations does not work

#581180 Experiment: Menu Edit -> copy all data to clipboard -> paste -> does not copy values for axis points

(KIR-issue, see also ETAS Download Page)

IF
the user copies a map including axes into the clipboard
AND

pastes the values to map in a combined editor in the INCA experiment
AND
the map uses standard axes
THEN
INCA only copies the z values, not the axis values

Workaround: Copy z values and axis values separately

#581241 CDM option windows is not displayed
#581301 CDM caused system error during start of CDM
#581214 Start CDM: [WBID2204552504] DBString does not understand truncate & [WBID4047786573] UndefinedObject does not understand reinitialize

In case a language with Unicode Character Set is used, it is not possible to work with CDM.

Workaround: No issue with English or German.

#578426 $ActiveCalibrationPage is displayed incorrectly in measurement files depending on the format MDF3.3 and on the multiple raster selection

This Call is partially improved with INCA V7.2.6 HF1 in case EE is opened online (HW initialized), the option “Experiment without full HW access” is not set.
Status of $ActiveCalibrationPage is recorded, but the last recorded value of $ActiveCalibrationPage is wrong.

It is **not solved** in case Experiment Environment is opened with option “Experiment without full HW access” (offline)
OR if HW is reinitialized (F3): Status of $ActiveCalibrationPage is not recorded.

The complete solution is planned for INCA V7.2.7.

5.23.2 Bug Fixes and Improvements

EHI #	Title
581056	Variables cannot be added to Default Recorder via VSD
580986	Recording Calibrations does not work
581180	Experiment: Menu Edit -> copy all data to clipboard -> paste -> does not copy values for axis points
581241	CDM option windows is not displayed
581301	CDM caused system error during start of CDM
581214	Start CDM: [WBID2204552504] DBString does not understand truncate & [WBID4047786573] UndefinedObject does not understand reinitialize
581158	NetworkManager crashes when configuring IP
576986	INCA stucks if stopping recorder
581783	Start the visualization in INCA V7.2.6 is not possible. [WBID2443813209] String does not understand between:and:

5.24 INCA V7.2.6

5.24.1 Recommended Installation

It is strongly recommended to update and down date INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack Installer.

Very important: After the installation a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.24.2 New Features

See What's News slides INCA V7.2:

- INCA-V7.2 SP6 -Whats-new.pdf: News of the current INCA Service Pack.

5.24.3 Known issues of INCA V7.2.6 – Important Hints

- #563090 Sporadically happens that the datalogger could not be activated and then stop simulation is not working.
  Then an update of the Windows Universal CRT might be required. The Windows Universal CRT Dll is a component of the Windows Operating system and updated with Windows OS. Details see: https://support.microsoft.com/en-us/help/2999226/update-for-universal-c-runtime-in-windows
- #550426 ES720 Drive Recorder: Deactivated "Stop Trigger" from INCA V7.2.2 is not respected in INCA V7.1.x
  ES720 Driver Recorder with INCA V7.1.x software does not respect the stop trigger exported from INCA V7.2 and evaluate it wrongly.
  Workaround: Remove the "Stop Trigger" condition in INCA V7.2 before the export for the drive recorder.

5.24.4 Known issues solved with INCA V7.2.6 – Important Hints

- #484654 It is possible to add a stack device for ES891 in INCA HWC even though stack functionality is not supported
  Even though the workflow of adding stacked ES89x modules is already available in the INCA Hardware Configuration, this scenario is currently not yet supported.
  Note: Is meanwhile supported with the latest version of HSP and INCA.
- #566506 Support of XCP TIMESTAMP_SUPPORTED flag from ECU
  When the setting "ECU Description Handling" is set to "ECU" in Hardware Configuration (HWC), INCA will evaluate the flag TIMESTAMP_SUPPORTED from GET_DAQ_RESOLUTION_INFO command according to XCP specification.

5.24.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
368873	EE:"[WBID896195628] UndefinedObject does not understand isEmpty" when adding 64 bit float ramcal matrix via VSD
379808	EE_CSE: "[WBID127606339] MCSDSMErrorAxisMinExceeded does not understand setPhysValueIn:" can occur when adding new cse scenario
401079	[WBID4169989938] Array's should not implement this method
490919	POLLING: Replaced system from XCP device to none XCP device (here ETK testdevice) leads to damaged recorder config
492551	INCA crashes due to polling mode after reconnect
493426	[WBID1207648495] String does not understand -
496154	EE : Increment/Decrement options are disabled in the submenu option of Edit menu of EE for Slewing Variables
502839	Wrong values for dependent parameters are appearing for 'Physical' and 'Quantized' options under User options.
511763	Installation: Etas Time Service re-installation leads to blue screen on Win8.1/7
512950	[NetWBID4092366983] System.InvalidOperationException: Queue empty.
520272	[WBID21620648] Primitive failed in: Object>>#at: due to Index out of range in argument 1 - when pressing CTRL+I on adaptive maps
525250	Performance of CAN Monitoring measurement/recording start has been improved
528390	License checkout for INCA is also decreasing available INCA-SIP and INCA-EIP licenses
528601	Use of Polling Signals causes NetWB: [NetWBID4092366983] System.InvalidOperationException: Queue empty
532179	EE: "[WBID3421345940] UndefinedObject does not understand title" can occur when ee is opened and mapping is done
534854	[NetWBID4092366983] System.InvalidOperationException: Queue empty. - While INCA measurment with EE
540520	Drive Recorder Configuration Software : NLS source strings have not been changed correctly (ES720 --> DriveRecorder)
544614	MCE: Sporadically DAQ(0) Error on ILINK
546100	Additional "Switch to reference page" event is logged in measure file
546717	Calculated signal of multiraster signal - samples are missing
546858	First sample of calculated signal is wrong
547311	"Record Only" variables are removed from experiment with no warning
548697	CDM 'open new configuaration' uses cdmLastOptionSave.ini instead of cdmDefault.ini
548727	Imported hardware configuration for ES441 shows incorrecte formulas but corrects when INCA is reopened. Note: Solved already with INCA V7.2.5
549187	[WBID1806523454] EtasCDMCalibrationComparisonControlWidget class does not understand defaultErrorClass - INCA walkback when close Calibration Scenario Editor while visualizing
549236	[WBID446255601] Primitive failed in: Object>>#at: due to Index out of range in argument 1

549305	EE: Getting unexpected Message Box because of Bounds Exceeded after changing VTab Scalar
549632	ASAP2 Container: Child items are not automatically unselected
549820	CombinedEditor: [WBID2030209249] Vector does not understand writeValue:withBitMask:
549888	VSD opens empty after changing calculated signals
550492	Installing INCA in other folder than default folder (C:\ETAS)
551703	EE: "[WBID428455023] Primitive failed in: Float>>#In due to Value out of range" can occur when add (one special) label to vui->osci(old)
554049	[WBID1813580398] UndefinedObject does not understand isEmpty. WB in INCA/CDM while using ‘x-size-change‘ or ‘y-size-change’ of a map from DCM file
554707	INCA-SIP: Lookups sharing same table workspace variables are not made visible in INCA
555754	Dialog displaying every time TargetServer is launched with MyCanic software installed on PC. Note: See What's New INCA V7.2 SP6
556114	Output file name mismatch in CDM
556640	[XETK-S20:A1b] Fixed emulation mode doesn't consider noncached addressing
556641	[XETK-S20:A1b] Fixed emulation mode reserves too many handles when calculating 'reserved ranges'
556981	When reading in two DCMs double Parameter is reported as error
557035	[WBID1122515093] (ExCLDTIndexOutOfRange) Index out of range
557307	[WBID913897056] RBVUIBasicGraphicObjectDB does not understand dataConfigs
558465	TriggerEditor : Trigger Signal not found after changing index alignment
559887	Datenbank operations (scrolling, project change) take a not acceptable long time
561435	SettOption for TransportLayer does not work
561515	Reuse parts of Experiment: Possible that recording cannot not be started after import recorder into empty experiment
561882	J2534_UDS_KWP : Negative timestamp is observed for the first frame while performing multiple measurement start, stop, restart in address mode
561998	ETK Tool / XCT: Temporarily created project are not removed after the saving the project at different location
562277	INCA 7.2.4 and GMMDI-2 do not work properly for CAN-FD protocol
562317	Automatic startup of ETAS RemoteLogger Service
562701	The original Order of Layers get lost when copying the Layers in a new Experiment
562965	After 3 days a Target Server Crash occured during automated HIL test (ECUTest) with LCO/EE and INCA
563041	INCA-CDM --> the shortcut for displaying of "warnings" doesn't work --> alt+W ! (This shortcut is in use twice)
563090	Sporadically happens that the datalogger could not be activated and then stop simulation is not working.
563262	ASAM MCD 3MC V01 unable to find item 'device://CalcDev_Auto_CalcDev_GENERIC' in collection. Recommendation: Add missing .pm file.
563347	LAB-file cannot be used in INCA-CDM
563715	EE: possible that recording does not start (<LOCALIZED>Deserialization of base config >InputSignalGroupConfig RASTER_A< failed) and targetserver crash after closing Inca
564115	ARXML file does not work correctly for CAN-Monitoring
564825	INCA holds up memory when opening an experiment and does not release it after experiment is closed
564894	Distab variable number is limited if ACCM is used.

565528	[NetWBID324319256] System.NullReferenceException: Object reference not set to an instance of an object.
565834	INCA-EE freeze when recorder is stopped
565985	Crash in INCA experiment with 4D lookup table [WBID4222554293] DEAxisObjects does not understand setMyPhysValue:index4:check:oldValue:for:
566210	CDM: empty variable selection list in CDM after pressing (fast multiple times) [Ins] key after dataset source/target change
566336	ODX_OBD: Responses for multiple OBD ECU (>= 2 ECU) not complete
566410	Differences in TraceRasters are not updated to xetk.cfg
566506	Support of XCP TIMESTAMP_SUPPORTED flag from ECU
566558	MeasureAll Use Case takes to long. Note: Soved with disabling the "Use default raster" option and select the raster "100ms".
566570	ETK data freeze fails
566806	ODX_Polling: The last measure value is included twice in MDF File
566807	Missing LIN Measurepoint in INCA. Note: Solved with HSP V11.5.0
567082	[WBID3686709802] Primitive failed in: LCCollate>>#primitiveCompareCharacter:and: due to Invalid class in argument 2
567508	EE: Hot Keys 'Alt+O', 'Alt+C' doesn't work on reset confirmation dialog.
567747	ASAP3 Interface hangs up after reconnecting with PUMA. Note: Manual initialization during running ASAP3 not supported.
567831	RecordLayouts: Possible during Paste action from About Box different Hard Bounds used
567939	INCA_LOGVIEWER: LogViewer can't change settings in HKCU
568054	INCA process stopped to work message
568312	Targetserver crash into the workspace if click on "Info" Tab.
568316	[BR_XETK-S3]Only 32 trace rasters are working with supplementary distab
568510	Start Recording time INCA V7.2.5 worse than former version
568854	Option Measurement Documentation does not work
568988	INCA crashes after measurement starts [NetWBID4092366983] System.InvalidOperationException: Queue empty.
569090	Servicepack installer needs additional reboot after MDA Installation - if EtasRemoteLogger is still running
569125	MCE License is used even no MCE is configured in Workspace
569193	XETK RasterCheck calculates wrong hardware utilization in case of TDM with DisTab17
569200	INCA-SIP: Workspace Parameter shared with a table and axis make the model invalid
569243	ETK Tool: Saving the project in the first attempt fails
569716	[WBID3105018859] String does not understand -
569761	Combined Trigger goes lost when closing experiment
569994	ServicePackInstaller: When selected with Category headings, Addon's are not getting installed on system
570059	Not possible to Initialize Vector HW VX113x with CANDB: Initialization Error --> Failed to access OLL Link Configuration Container
570060	INCA lost connection to CPC ECU after successful Initialization. Note: Issue with ECU
570080	EE: VSD opens empty after changing calculated signals
570321	[BR_XETK-S3]Only 32 trace rasters are working with supplementary distab
570465	INCA sends PROGRAM_CLEAR without PROGRAM_START after ERR_GENERIC(31h) to 0xD2
570466	ASAP3.exe (RCI2.DLL) crash after change measure rate - Update of Documentation

570571	EE: "[NetWBID2593614798] System.NullReferenceException: Object reference not set to an instance of an object." can occur after change project in HWC||EE
570605	INCA EE: Adaptive variables are removed from Experiment Environment when EE is opened.
570621	Target server crash sporadically with XCP on Ethernet
570683	Incorrect measurement when adjacent bitmasked signals are present
570715	XCP-Command UPLOAD without SET_MTA
570904	Performance: imorting huge experiment takes longer (nearly 2 times)
571061	XCPX_UNLOCK of Prof is ignored, do not work
571155	AUTOSAR_CANFD : INCA does not support CAN-FD for AUTOSAR files which have only Frames <= 8 Byte
571172	TI_I726_AUTOSAR_CAN(-FD) : CAN(-FD) frames with 29bit (extended) CAN-ID <= 0x7FF are not handled correct
571210	EE: Instrument tab is not visible in the EE window after inactivating the current variable and adding a new variable to the widget.
571406	Single Presion Data types are visualised as INT in INCA
571590	FATAL error when visualizing using XCPonCAN with INCA 7.2.3. Note: Sounds like ECU issue. DAQ Overload event is an error of the ECU.
571677	Only visible Adaptive Characteristics are updated and therefore INCA creates wrong recording files
571736	EE: Possibly after changing Axis Values the expected strict monotony is not given/checked
571748	Missleading error message "Unknown XETK configuration format. INCA update necessary to support current connected XETK!" in case of ReadHardwareConfiguration from XETK and FETK devices because of invalid stim.cfg handling
571815	ETK Tool: XCT is not able to read a customer A2L
571873	Time to change rasters via VSD is very high. Improved by factor up to 6.
571874	Recorder configurations window blinks during update of experiment - progress bar is needed
571914	LogViewer Settings are not editable if Registry Folder is missing - even after new installation
571919	INCA-SIP: Updating of blocks using shared variables is only limited to the ones pared by SIP
571927	INCA-SIP: Simulink FixPoint calibrations are shown as int in INCA
571964	Inconsistency of EMU-RAM operation mode - ETK Warning while using UDS-Protocol
571966	ASAP3 crash when accessing EIP project /ES910 with [WBID521036185] EtasETargetES910SimulationControllerDevice does not understand setDownloadDiffsAfterIgnitionOffOn
572063	[WBID1813580398] UndefinedObject does not understand isEmpty / System error on attempt to adjust map size
572120	ASAP2Editor: WB([WBID3968110675] UndefinedObject does not understand addChildWindow:) when try to open Properties for Label with errors in ASAP2 Editor
572199	Bounds are wrongly calculated
572327	Space in VSD if Recorder field was in focus leads to Crash -> [NetWBID2706420711] System.ArgumentOutOfRangeException: Index was out of range. Must be non-negative and less than the size of the collection.
572443	Missing CompuMethod Import from Autosar 4.2/4.3 file
572571	After saving recording and starting an new one, no XETK Value are availabel anymore

572572	INCA does not block editing when MaxAxisPts from AXIS_DESCR is lower than MaxAxisPts from AXIS_PTS
572778	XETK: TargetServer crash on unknown / unsupported DAP frequency
572972	DB: Default Calibration History Setting are reused from first Project when used several times in same DB
572987	INCA-TOUCH Migration Scenario Missing
573216	[WBID2844583182] UndefinedObject does not understand createForProject:
573236	INCA-TOUCH - Variables deleted from Touch instruments when open INCA 7.2.3 experiment with INCA 7.2.5
573257	[NetWBID4137943083]System.ArgumentNullException: Der Wert darf nicht NULL sein.
573455	CDM: Empty file is created during listing
573520	ES922: Integration of new ES922 to INCA AddOn_ES9xx
573645	[WBID306560295] OrderedCollection does not understand includesKey:
573763	All variables in the state "recording only" are missed in the measure file if variables from new Osci are switched to record only in case of language is German
573771	If start or stop trigger a combination of triggers, then it will not be saved -> the start trigger will revert to "manual"
573781	Coping from DCM file is not possible for parameters with VTAB (INCAV7.1.10 - no issue)
573959	[WBID3002853640] Should not happen!
574126	Read-in incomplete A2L file without error message
574198	Service Pack Installer: Wrong Icon (update) displayed during "Repair"
574230	[WBID1016686772] Dictionary does not understand asHighCapacityLookupTable
574268	PROF hex file conversion fails with error message
574385	Trigger repetition is reseted
574388	DB: After deleting All Layers it is possible that Default and Background Recorders includes unexpected content
574460	The ASAP2 V1.7.0 Example Transformer uses wrong length information
574701	EE: Copy "float" into group axis leads to [WBID720985896] Primitive failed in: Object>>#at: due to Index out of range in argument 1
574719	EE: Copy and paste from matrix into matrix can lead to "[WBID2676299631] UndefinedObject does not understand y"
574724	EE: Table Editor: Paste does not work each time for Grouped Devices with Rescale Axis Pairs
574792	AUTOSAR_FILE : unknown <BASE-TYPE-ENCODING>IEE754 to unsigned integer
575182	RasterCheck Trace2Ram Estimation calculates the trace trigger data rate overhead wrongly based on the ECU trigger polling rate
575276	Default INCA UserDef.ini contains wrong section for “HW Config”
576179	ASAP3: new command "Read all Calibrations from File" does not return correct error messages (which are available via API)
576438	INCA Help menu missing when two folders are selected
576518	INCA V7.2 SP6 Beta: Exit due to Error 60 after downdate from INCA V7.2.6 Beta 108 to INCA V7.2.5 HF1
576916	$ActiveCalibrationPage is displayed incorrectly in measurement files depending on the format mdf3.3 or mdf4.1 and on the multiple raster selection. Note: Solved for MDF 4 with INCA V7.2.6. Solution for MDF 3 planned for a future INCA version.
576923	INCA-Touch: Position of widgets changes wehn resizing touch screen
576986	INCA stucks if stopping recorder
577136	XETK-S21: JTAG interface support for 30MHz, requires INCA 7.2.6
577172	INCA-SIP: SIP server crashes with an empty model

577378	No measurevalues are available after reconnect to ECU.
577437	Very slow acquisition rate with LIN-Monitoring. Note: Solved with INCA V7.2.6 and HSP V11.6.0
577977	[WBID971617169] (ExCLDTInvalidArgument) Invalid argument
578029	INCA V7.1.6 Beta: [WBID2443813209] String does not understand between:and:
578154	INCA V7.2.5/XETK: Targetserver crash after accessing ECU via ProF
578751	INCA crashes during importing Export file created with INCA V7.2.6 Customer Beta
578924	"[WBID1957705439] OrderedCollection does not understand delete:" can occur when copy and paste recorders
579362	INCA V7.2.6 Beta: After CDM was opened from EE the Oscis show no more data [NetWBID386105528] System.ArgumentException: The signalValueAccess is null or disposed. Parameter name: signalValueAccess

5.25 INCA V7.2.5 HF 1

See also section INCA V7.2.5, please.

Additionally several important issues are solved with this hotfix.

5.25.1 Bug Fixes and Improvements

EHI #	Title
570605	INCA EE: Adaptive variables are removed from Experiment Environment when EE is opened.
570683	Incorrect measurement when adjacent bitmasked signals are present
571964	Inconsistency of EMU-RAM operation mode - ETK Warning while using UDS-Protocol
571966	ASAP3 crash when accessing EIP project /ES910 with [WBID521036185] EtasETargetES910SimulationControllerDevice does not understand setDownloadDiffsAfterIgnitionOffOn
572199	Bounds are wrongly calculated
574230	[WBID1016686772] Dictionary does not understand asHighCapacityLookupTable
	Solved with **INCA-TOUCH V7.2.5.126** (also part of the INCA 7.2 SP5.1)
572987	INCA-TOUCH Migration Scenario Missing
573236	INCA-TOUCH - Variables deleted from Touch instruments when open INCA 7.2.3 experiment with INCA 7.2.5

5.26 INCA V7.2.5

5.26.1 Recommended Installation

It is recommended to update INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack installer.

Very important: After the installation a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.26.2 New Features

See What's News slides INCA V7.2:

- INCA-V7.2 SP5 -Whats-new.pdf: News of the current INCA Service Pack.

5.26.3 Important Phase Out Information

Maintenance stop for INCA under Windows Vista

- Microsoft announced the end of the Extended Support for Windows Vista by 11th of April 2017 http://windows.microsoft.com/en-us/windows/lifecycle
- ETAS will stop the INCA maintenance for Windows Vista by 11th of April 2017, too.
- Finally the support was discontinued with INCA V7.2.5.

Letter to all INCA and MDA users

Dear INCA and MDA users,

The purpose of this letter is to inform you about the stop of Windows Vista maintenance for INCA and MDA.

Microsoft announced the end of the Extended Support for Windows Vista by 11th of April 2017. For more information please refer to:

https://support.microsoft.com/en-us/help/13853/windows-lifecycle-fact-sheet

Therefore ETAS will discontinue the development and maintenance of Windows Vista support for INCA and MDA in the following order:

- After Q1/2017 new INCA and MDA versions and service packs will not be tested under Windows Vista any longer. The installation under Windows Vista will still be possible, but is not recommended.
- After Q1/2018 the installation of new INCA and MDA versions and service packs under Windows Vista will no longer be supported.

We recommend our users operating INCA and MDA under Windows Vista to migrate to a newer Windows version.

Yours sincerely

ETAS INCA Team

5.26.4 Known issues of INCA V7.2.5 – Important Hints

- #484654 It is possible to add a stack device for ES891 in INCA HWC even though stack functionality is not supported
  Even though the workflow of adding stacked ES89x modules is already available in the INCA Hardware Configuration, this scenario is currently not yet supported.
- #550426 ES720 Drive Recorder: Deactivated "Stop Trigger" from INCA V7.2.2 is not respected in INCA V7.1.x
  ES720 Driver Recorder with INCA V7.1.x software does not respect the stop trigger exported from INCA V7.2 and evaluate it wrongly.
  Workaround: Remove the "Stop Trigger" condition in INCA V7.2 before the export for the drive recorder.

5.26.5 Known issues solved with INCA V7.2.5 – Important Hints

- #566924 INCA shows wrong value for measure signals if a FIBEX- or a ARXML-file is in use
  IF
  a FIBEX- or a ARXML-definition file is used
  AND
  a for compu method a formula of type
  f(x)= (ax + b)/d
  is defined
  AND
  d differs from 1
  THEN
  the revers function is wrongly calculated, which leads to wrong values (display and recorded)
- #557770 Formatting not as expected when paste to CDM, if number contains a comma (localized formatting)
  IF
  a number in the clipboard contains a separator for thousands (localized formatting, such as a comma and point)
  AND
  the number is pasted into a axis, curve, or map
  THEN
  the value is not pasted as expected. E.g. values might be by a factor of thousand too large or small.

  Solution with INCA V7.2.5:
  If the user tries to paste a numerical value with 2 or more separators (e.g. 1.234,5) INCA does not accept it.
  INCA does this silent. There is no change of the existing value.
  INCA does not pop up a message box or write anything to the monitor. (Same behavior as before for "unknown" strings)

Recommendation: INCA does not support localized formatting. Please do not use this type of formatting for copy paste.

- #563490 [IEEE1588_TimeSync] Max time stamp recorded when no time value is at startup available.
  It could sporadically happen that an FETK device did not provide the current time of the device at start at measurement. As a result, time synchronization was not possible and all measurement samples were recorded with the maximum possible timestamp.
- #560237 INCA V7.2.4 VUI: Menu item "Instrument" is not appearing for Slide and Numeric Editor of VUI windows.
  Workaround: Do the actions in VSD.
- #544278 Recording doesn't start for CCP, when measure variables are added to EE.
  Work-around: Save, close and reopen EE, then recording works fine.
- #566281 Negative timestamp message in INCA monitor with INCA 7.2.5 beta in case of XETK. No measurement at all in case of second ES4xx Chain.
  a) In case XETK: Multiple messages are encountered in the monitor window indicating that samples of signals in the XETK have negative timestamps.
  b) In case or two ES4xx Chains:
  - HWSetup: ES600 - ES415-ES410-ES411
    | ----- ES415-ES410-ES411
  - Execute a recording
    -> measure values are ONLY displayed for one chain
    -> No measure data at all for second chain
- #504019 ES891 HW Integration: Improved error message in case mismatch INCA Workspace and Device configuration
  Error messages in INCA monitor.log:
  INCA Workspace: **5 * CAN**, ES891 configured to **3 * CAN + FlexRay**
  <GMHM Error>
  CAN-Monitoring:4 not connected
  Runtime Error
  CAN-FD Monitoring Device (OCI Exception)

  INCA workspace: **3 * CAN + FlexRay**, ES891 configured to **5 * CAN**:
  <GMHM Error>
  FLX Monitoring A:1 not connected
  Runtime-Error
  The interface with the requested UUID is not supported by the addressed node.
  (ETAS://ETH/ES800-STACK:0c-0d-16/ES891:100027/FLX:1)

5.26.6 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP) or in combination with current HSP.
  - EHI calls are listed in increasing order

EHI #	Title
368118	DB: Not allowed char in Value for User Option IntelHexFileExtensions or MotorolaHexFileExtensions is not removed
402479	[NetWBID1726976732] System.ArgumentNullException: Value cannot be null.
416499	[WBID1631460624] Primitive failed in: PlatformFunction>>#callWith: due to General protection fault - write to invalid memory location.
422357	[WBID457282500] EACCES (13) Invalid path or access denied [112]
430448	[NetWBID4080051704] SlimDX.Direct3D9.Direct3D9Exception: E_INVALIDARG: An invalid parameter was passed to the returning function (-2147024809)
431821	Reading in partial S-record files can be extremely time consuming in CDM.
439844	Issue recording calibrations - initial calibration value (at start of recording) is recorded twice.
450834	[WBID36469064] UndefinedObject does not understand getElementConfiguration
490885	CombinedEditor: X & Y label of combined editor does not display untill value is entered
490900	XCP Raster Check: ID field type, ID filed size, maximum of ODTs. The XCP raster check is not able to determine whether PID_OFF is really activated or not.
493749	MDF- missing information at the mdf file into the default comment: date / time / recordingduration
502219	[WBID4269026025] Primitive failed in: PlatformFunction>>#callWith:with: due to General protection fault
504019	ES891 HW Integration: Improved error message in case mismatch INCA Workspace and Device configuration
506714	Wrong API Documentation for "FlashHexFileWithControlFlow"
509074	EE: [WBID3412620940] (ExCPMStackOverflow) A stack overflow has occurred: INCA crashes when trying to change y-axis value count on Combined Editor.
514705	VSD:[WBID399266349] UndefinedObject does not understand properties: INCA crashes while trying to add all variables from VSD.
519704	Impossible to flash EDC17 via UDS after CCP initialization
523707	[WBID3481792129] IDispatch call returned an exception. ErrorCode: 0x80070057 Source: Etas.EE.EmuRamSegmentCalculator. A passed address range is not contained in configured data segments.
530378	COMPU_TAB method contains no default value for text/scale conversion
530680	After changing the dbc file in INCA the option "write > a2l file" ist not visible
532300	EE : Recording hangs after pressing F3 + start recording
532981	Missing LIN Measurepoint in INCA. Note: Solved with HSP V11.5.0
533247	Updating adaptive characteristics from DCM file does not work if current page is RP
533603	Oscilloscope gets not loaded in the EE
534141	[WBID265917708] EtasDynamicEmuRAMV1CalibrationMethodWrapper does not understand checkProjectDatasetDeletedUponOpeningEditorAssignNewProjectIfNecessary:
536830	[WBID2833288807] UndefinedObject does not understand getRecordLayout
537659	User-Options-window shows double backslash in MDA Path (General)
537678	Hard Bounds warning in Experiment stuck in infinite loop if add new device
538189	[Alt]+[G] to activate Device Selection Dialog in EE does not work correctly
538268	RecorderConfig: When inactive Label is used in imported Trigger the VSD status is not updated
538432	Export for ES720: Nothing happen if used EE-> HW -> Drive Recorder -> Optimized Export for environment with only 1 Hex File
539095	[WBID135544040] Primitive failed in: Object>>#at: due to Index out of range in argument 1 - Occurred while closing CDM
541577	Reset values with 'ctrl+z' does not work when weak bounds are exceeded

544278	Recording doesn't start for CCP, when measure variables are added to EE.
544349	Map or charakteristic in VUI window can not be edit
544890	INCAV7.2.1-installation is not possible, if required 3rd party software not installed or not up to date
546658	[WBID506114507] (ExCPMStackOverflow) A stack overflow has occurred.
546704	Drive Recorder ES820: No ERR LED as TrgtSrv aborts measurement too early
547248	EtasCalibrationRecordingDevice provides wrong timestamp (two timestamps 0)
547467	Start of recording of simple CAN Monitoring System needs more than 11 seconds. Performance improved from from 11.35 Sec to 0.347 Sec
547820	HW-Init of a CAN-Monitoring device takes more than 5 Sec. Improved to less than 3 Sec.
547843	A2L difference of INCA versions for XETK-S21 use case
549543	FLX measurment values are not completely stored with pretrigger
549616	[WBID3763246307] UndefinedObject does not understand setPosition:
550006	[WBID3738165505] Primitive failed in: Object>>#at: due to Index out of range in argument 1
550126	ProF "Calibration Wake Up" failed with all XCP-device (dmETK, XETK, FETK)
550701	[WBID4022518317] UndefinedObject does not understand symbolicName
550998	Database item name not being in Japanese
551063	EtherCat configuration error during test runs. SW-INSTANCE must have attribute C="CALIBRATION". Current attribute value
551485	MCE: Add_all_measurements pop up window occurs while ASAP3 session is running (window is not suppressed) and stops ASAP3 execution
551825	CDM_Conversion of Axis is described in AXIS_DESCR AND in AXIS_PTS differently_comparision_results_unplausible
552158	Formatting a measure window or table for float measurements results in much too wide windows
552359	Not possible to vusialize CAN or FLX varialbes in experiment after deleting ETK variables out of the experiment
552511	ARRAY copy in CDM does not work from a small one to a bigger one using the option "Allow for coping arrays into larger arrays, with warning"
552682	ServicePackInstaller: Copying of documentation fails in case file or folder blocked.
553169	[WBID2650672925] UndefinedObject does not understand subtractFrom: INCA crashes after copy action in CDM with A2L file which has alignment issues
554258	ASAP2Editor: [WBID1254523281] EtasAbtShellView does not understand getTabList. Note: Corrected the TAB behaviour within the ASAP2, the CDM, the CSE and the VUI.
555973	Bounds for VTAB Variables are not respected
556595	API: Command DownloadWorkPage works with A2L-File without Memory Segments
556787	INCA will not record with variables in polling mode raster
556909	Start of empty EE by using of 2xXCPonEth-device in INCA (offline) is very time-consuming (3min.)
556998	INCA-SIP: Accelerator mode does not work with precompiled GM SIL blocks
557094	INCA does not respond
557224	Reuse Parts of EE: Value for Output File -> Comment is not correct after Paste from Recorder
557606	In the propertiers window of an YT-Oscilloscope the display of the scroll mode "Vorhangmodus"and Oszilloskopmodus"are cross changed
557627	EE: Some Recorders are not recording and Measurement -> Stop Measuring is not possible to use and INCA must be killed with TM

557635	SMB VSD - no more raster selection possible. Workaround: The rasters are visible in the variable configuration grid and can be changed there.
557770	Formatting not as expected when paste to CDM, if number contains a comma (localized formatting)
558248	MCE: Add PARAMETER FOR VALUE ACQUISITION doen´t work correctly after calling second time
558253	MDF storing freezes EE sometimes after reconnecting measurement. Note: Solved with HSP V11.5.0
558458	INCA Drive Recorder: optimized Export does not work correctly: [WBID2671404257] UndefinedObject does not understand detect:ifOne:ifNone
558609	ASAP2Container: Unable to import .ecuzip to top folder.
558616	ASAP2Container: Import dialog 'Select projects from..' dialog gets closed without clicking on OK and projects get added to DB
558628	BR_XETK-S3: XCP Debugging Command HALT_AFTER_RESET sporadically fails
558658	EE/Customized Instruments: Blocks Opening of EE with dialog box - "Assertion Failed:Abort=Quite,Retry=Debug,Ignore=Continue"
558778	INCA measures wrong data when using GM ARXMLs for FlexRay
558859	ETAS RemoteLogger Service does not evaluate some RemoteLogger TLV's
559053	XCP: No size limitation for length of identification
559054	XCP: TargetServer crash on "invalid" response (4GByte response)
559129	EE: Recording is possibly not any longer possible after adding Labels using Polling Raster in new Background Recorder
559137	CTRL+C / CTRL+V to transfer properties in Experiment fails
559144	Problem acquiring floating licenses in case user and server are in different regions. Note: Fixed by changing the routing config / network setup to access the License Server.
559146	Sending diagnostic Message with ODX-LINK failed, in case a longer diagnostic UDS/KWP message is sent by INCA (>13 bytes) and the blocksize (BS) in the second flow control frame of the ECU differs from the blocksize in the first flow control frame.
559306	INCA V7.2.4: Search for hardware is triggered at link creation for each ES891. Performance loss compared to INCA V7.2.3. Solved: INCA V7.2.5 is now faster than INCA V7.2.3
559700	INCA-ODX: Aquisition of OBD data does not work if the Experiment is started offline
559796	If a "show output file dialog after recording' is deactivatd then 'date, time, pre-trigger time, recording duration, post-trigger-time' are missing in MDF
559813	ECU is switched to RP because of download on WP
559927	Performance: Import time of special workspace takes more than 10 seconds longer
559951	EE: when a calculated signal is created changing raster to polling raster does not work anymore (tsiAPIObject invalid in signalgroup Polling_100ms.)
560160	PERFORMANCE: Caching of experiment does not work anymore when switch between experiments
560166	[WBID3421345940] UndefinedObject does not understand graphical3DEditor
560167	ES820: Add ability to disable/enable ETAS Logger
560237	INCA V7.2.4 VUI: Menu item "Instrument" is not appearing for Slide and Numeric Editor of VUI windows.
560257	Copy verbal axis corrupts value in destination
560275	API + ASAP3: EnableDownloadDifferencesAfterIgnitionOffOn does not work with ETK
560291	Open EE-Window: No refresh ETAS Windows if use E-Target
560432	License Management Inca 7.2 Windows 10: Calendar window is empty

560476	CDM: Possible that Tool Tip shows not the complete Path and this is not indicated
560539	EE: 'About Variable' dialog doesn't open using Ctrl+I hotkey for VTab variable types.
560638	CDM: Possible that real used path is not the same as shown in Tool Tip
560665	TI_ETK-S22 : Raster details disappears when we select and deselect variable(s)
560985	DAQ overload with 6 variables using XCP on CAN. Note: Issue with ECU.
561177	CDM: [WBID4204231029] MCSDSMMainView does not understand applicationController
561419	ServicePackInstaller requests a reboot at end of package installation, but button 'Reboot' of SPI is not functional
561454	KVL Black List Usage shows wrong message "Elements did not fit into the defined raster" if more than one ECU is selected
561476	INCA crash with 0xC0000005 after measurement start
561589	EE: [WBID2030209249] Vector does not understand writeValue:withBitMask:
561879	INCA _CAN_CCP: Download fails for ES582_1 device after command process busy interrupt
561880	Signals from INCA Measurement not shown in MDA if MDA is opened from INCA Experiment (in case of CSM HW)
561884	INCA-MCE : Adaptive calibration parameter can be configured only via autoselect to MCE.
561939	OpenEE and InitHW takes very long time in case of no dataset is assigned to the project
562178	ETKS21.1_LFAST : Raster Check doesn't work for the attached exp file
562277	INCA 7.2.4 and GMMDI-2 do not work properly for CAN-FD protocol
562486	Initialize/Reinitialize HW in INCA7.2.4 takes more time as with former version: Performance improved.
562631	TgtSvrLegacy.dll and mdf_framework.dll critical exception 0xC0000005 subsequent to "lost connection to FETK-T" message during recording
562717	INCA was not able to read a arxml file.
562963	Measure rate is not available in the INCA-VSD if ES3xx (IPEaddon) is in use.
562966	Changed XCP V13 a2l file is no longer usable
563091	[WBID1213444697] UndefinedObject does not understand setPreviousArrayCompareResult:
563131	MDF 4.1 Wrong Cycle Count in Measure File
563138	ServicePackInstaller: Documentation (Setup_ServicePack.pdf) with improvements / error codes / changes added to SP installation
563247	INCA crashes after HW Configuration change if Experiment includes MCE variables with [WBID2941895604] or [WBID306560295] UndefinedObject does not understand apiGetDeviceConfig
563337	BR XETK-S1 ProF flashing: ERROR: Setting up XETK hardware failed
563434	EBI-IP (BOA) V2.12 with ES581.4 - Consecutive frames ES581.4 is not sending all of them. Note: Solved with HSP V11.5.0
563490	[IEEE1588_TimeSync] Max time stamp recorded when no time value is at startup available
563556	INCA-PROF: Seed and Key length for UDS Security Access was limited to 128 bytes. Now up to 4093 bytes can be used for the seed and also for the key (provided that the security Dll also supports this).
563723	CAN_DB with CAN-FD cannot be read into DB - Error_CAN id out of range
563835	ProF docu misses link to scalingByte in ISO 14229
563844	Timeout encountered when using J2534
563912	During import layer with VUI to an experiment variables will be removed from VUI oscilloscope

563938	VSD: "[NetWBID3612998204] System.ArgumentOutOfRangeException: Index was out of range. Must be non-negative and less than the size of the collection." can occur when copy and paste layer in vsd
564231	API: ActiveCalibrationPage contains values twice when switching pages via API
564359	Only visible Adaptive Characteristics are updated and therefore INCA creates wrongly inconsistent DCM files
564404	After hardware initialization the measure values are displayed with delay in case XCPonEth and device not connected
564522	Invalid XETK Raster Check Data XML files
564699	Recording with 4 background recorder: 2 Recoder switch to inactive
564928	Change of Project Data by HWC corrupts Recorder config in EE
565124	IP-Manager crashes when older ES610 is connected
565240	J2534-MDI2 CAN-FD : Baudrate Combinations with 125k Arbitration Baudrate fail. Note: solved with MDI-2 driver version 8.3.103.116
565501	J2534-MDI2 CAN & CAN-FD : Baudrate Combinations with 1000k Arbitration Baudrate. Note: Supported with INCA V7.2.5 but MDI-2 driver version higher than version 8.3.103.116 required to avoid data loss
565533	[WBID744775138] import file over context menu "import" ->crash
565764	INCA freezes during using of key variable blacklist for "Measure All" use case
565913	XETK Project do not work with INCA 7.2.4 and works with INCAV7.1.8
566010	Cannot start recording
566281	Negative timestamp message in INCA monitor with INCA 7.2.5 beta in case of XETK, No measurement at all in case of second ES4xx Chain.
566349	DAQ Overload statistic is not reset during start of measurement
566521	XETK ProF Flashing does not work
566804	ASAP2Editor: WB occurs when editing VTAB_Bounds in Editor - [WBID1063083045] UndefinedObject does not understand removeActionDictForWidget:
566812	AboutDialog: Different behaviour when using not an integer for Hard and Weak Bounds
566873	EE: [WBID2053922445] Exception is not resumable - Walkback occurs while doing Undo Operation
566924	INCA shows wrong value for measure signals if a FIBEX- or a ARXML-file is in use
566949	Physical unit is not available in INCA although it is given in arxml
567091	ASAP2Editor New value of hard-limits sometimes does not get changed
567154	ASAP2Editor: WB occurs when editing VTAB_Bounds in Editor - [WBID4107156604] UndefinedObject does not understand removeActionDictForWidget:
567698	INCA-TOUCH: [WBID1631460624] - INCA V7.2.4 with INCA-TOUCH if using and creating a INCA-TOUCH window for the 1st time offline without official license
567867	Generated measurement files start with negative timestamps
567954	[BR_XETK-S3] Number of selectable variables in VSD depend on selection order
567984	ETK/XETK/FETK Distab17 performance parameter definition for core 0 is not allowed (number must start with 1)
568024	[WBID3351470807] Primitive failed in: ArrayedCollection class>>#new: due to Value out of range in argument 1
568165	Imported project does not work if RAMCAL is enabled
568968	XETK: Oscilloscope does not display data anymore after wrap around of XCP counter and additional stop / start cycle
569020	No recording with INCA V7.2.4 build 137 in case of polling mode is used
569060	XETK time stamp delay with 100 ms rasters

569277	INCA V7.2.5 Beta: Missed ETK signals after start of recording
569847	INCA V7.2.5 Beta: Reading out CPU-Regiter failed for FETK-S2
570276	INCA V7.2.5 Beta: [WBID704757297] receiver must be a boolean - When opening Experiment

5.27 INCA V7.2.4 HF 1

See also section INCA V7.2.4, please.

Additionally a new important features released with this hotfix.

5.27.1 New Feature Extended information for µC Trace Overflow

- Extended information for µC Trace Overflow (seen as XCP DAQ overload events)
- Configurable µC trace overflow handling (trace overflows may not lead to measurement gaps)
- Storing XCP events in MDF, e. g trace overflows, trace mirror initialized
- Documentation of the this new feature is available in `Extended information for µC Trace Overflow.PDF` in folder `\Documentation\Manuals` of the INCA Service Pack ZIP file or in the same folder via the Windows start – menu: **→Program → ETAS →INCA 7.2 →INCA 7.2 Service Pack**

Note: Requires MDA V7.2.4 and HSP V11.4.0 or higher.

#563926 Sporadically unable to write MDF Events in case of FETK

5.28 INCA V7.2.4

5.28.1 Recommended Installation

It is recommended to update INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack installer.

Very important: After the installation a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.28.2 New Features

See What's News slides INCA V7.2:

- INCA-V7.2 SP4 -Whats-new.pdf: News of the current INCA Service Pack.

Important Phase Out Information

- Maintenance stop for INCA under Windows Vista
  - Microsoft announced the end of the Extended Support for Windows Vista by 11th of April 2017 http://windows.microsoft.com/en-us/windows/lifecycle
  - ETAS will stop the INCA maintenance for Windows Vista by 11th of April 2017, too.
  - Finally discontinued with INCA V7.2.5.

5.28.3 Known issues of INCA V7.2.4 – Important Hints

- #560237 INCA V7.2.4 VUI: Menu item "Instrument" is not appearing for Slide and Numeric Editor of VUI windows.
  Workaround: Do the actions in VSD.
- #484654 It is possible to add a stack device for ES891 in INCA HWC even though stack functionality is not supported
  Even though the workflow of adding stacked ES89x modules is already available in the INCA Hardware Configuration, this scenario is currently not yet supported.
- #544278 Recording doesn't start for CCP, when measure variables are added to EE.
  Work-around: Save, close and reopen EE, then recording works fine.
- #550426 ES720 Drive Recorder: Deactivated "Stop Trigger" from INCA V7.2.2 is not respected in INCA V7.1.x
  ES720 Driver Recorder with INCA V7.1.x software does not respect the stop trigger exported from INCA V7.2 and evaluate it wrongly.
  Workaround: Remove the "Stop Trigger" condition in INCA V7.2 before the export for the drive recorder.

5.28.4 Known issues solved with INCA V7.2.4 – Important Hints

- #555302 Wrong multiple cells selection in Scalar Table Window
  IF
  multiple calibrations are contained in one "Scalar Table Editor"
  AND
  the ECU is switched to WP
  AND
  a calibration (Cal_1) in the editor is selected
  AND
  you click on another calibration (Cal_2) to select it to calibrate (while unintentionally moving the mouse cursor(similar to drag and drop) so that you erroneously select multiple calibrations (as indicated by the mouse cursor changing to a STOP icon (a circle with a diagonal line)))
  AND
  a value is typed by keyboard
  THEN
  Cal_1, Cal_2 and all calibrations between them are highlighted and would be calibrated if the calibration action is confirmed.
  This might result in unexpected behavior.

Hint: Even if unwanted calibration variables are selected by above operations, the entered value is not written to any variables if you cancel the operation via the ESC key. However, you will still need to unselect 'unwanted' variables manually.

Note: Bounds are respected (and not exceeded).

Affected: INCA V7.1.8 and higher, including INCA V7.2.3
Note: Solved with INCA V7.2.3 Build 115 and INCA V7.2.4 beta 69 or higher.
Workaround: Avoid using drag and drop in a "Scalar Table Editor", which is not supported in this editor
or
use "Combined Scalar Editor".

- #555003 INCA 7.2 SP 3.1 / INCA V7.2.3 performs an unexpected restart during installation.
  Workaround: If Microsoft Visual C++ 2015 Redistributable (x86) are not installed, install them and reboot computer before installation of INCA 7.2 SP3.1/SP3.2.
  Note: Issue does not occur, if INCA 7.2.0 or higher is already installed on a system.
  Hint to fix in case of this issue happened already: Uninstall INCA 7.2 SP3.1 manually (via Program & Features). The VC++- Redistributable will not be removed with this uninstallation. After the manual uninstallation INCA could be installed.

- #556238 INCA 7.2 SP 3.1 / INCA V7.2.3: Time Domain Handler gets an error 0x80002004 while trying to find dynamic domains via TDM API
  In this case IEEE1588 is not supported.
  Workaround: If Microsoft Visual C++ 2012 Redistributable (x86) are not installed, install them and reboot computer before installation of INCA 7.2 SP3.1/SP3.2.

5.28.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP)
  - EHI calls are listed in increasing order

EHI #	Title
343690	Performance EE: Virtual memory consumption has increased when opening EE&VSD
353664	Numeric Editor - Tab/Shift-Tab bug. Use F6 or F7 after the Tab-key. Not obvious for a user which variable will be changed.
391967	Page switch without confirmation (in case of XCP)
399249	[WBID3931098129] EtasGenericHWItemCANControllerSystem class does not understand hostInterface
414475	Advanced Code Check error message while clicking "Cancel" action
419861	CDM: VSD: Walkback if use Filter configuration (xml) [NetWBID832287351] System.InvalidOperationException: An error occurred while processing this value. See InnerException property for more information
450254	[WBID2553776192] nil is not a valid key for LookupTable. Note: Solved with INCA V7.1.10

453471	Performance CDM: Time required to perform a copy action has increased with Win7-32bit
461633	[WBID1828434506] Exception in UI process + [WBID3307274967] (ExCPMStackOverflow) A stack overflow has occurred. Note: Soved with INCA V7.2.3
483851	Performance CDM: Time required to perform a background copy action has increased.
485140	Performance CDM: List action for selected parameters decreased
485141	Performance CDM: Copy action for selected parameters decreased
489660	Ctrl+Z does not work if week bounds are exceeded
491131	New Yt-Scope: No XCP on CAN history
494224	Emergency stop at test benches because the start of recording in INCA happens wih big delay 4s
501565	Correct COM-Reference counting in Target Server
509364	INCA calculates checksums although Advanced Code Check has failed (INCA calculates checksums if device returns SETUP_ABORTED in setupTarget)
515016	[WBID1234913044] Exception is not resumable
515164	SIP: Copy label to new xy-plotter leads to "[WBID1293336687] Primitive failed in: Float>>#ln due to Value out of range"
518513	INCA crashes on given computer configuration, when .wav file used for start recording event is missing (path to sound file no longer available)
520701	VSD: warning message box "lagre number of items selected" occurs 2 times
523199	Feature "ECU defined error codes" added for all ETKs and FETKs, connected to an ES89x.
523827	Definition of UNIQUE Variables for SELECTED Layers in VSD
525373	Performance worsening regarding the initialization of a CAN queue with many filters
525374	Performance worsening when adding additional CAN frame filters
526896	ES892 : INCA shows error while trying to insert all ports of ES892 device
529291	API Calibration Window does not respond during calibration
531375	TgtSvr-Crash with J2534-interface with ETS
531773	Missing or wrong MDF 4 Sender information for CAN, J1939, FlexRay and LIN monitoring
531808	[WBID2670512815] Primitive failed in: Object>>#at: due to Index out of range in argument 1
532056	[WBID2543336264] UndefinedObject does not understand reinitializeHwChangesController
533516	INCA 7.2.x TargetServer loads wrong xerces-c_3_1.dll
533707	DriveRecorder AddOn: Hardware Configuration Name change for DriveRecorder Device (rename label for 'ES720_System' to 'DriveRecorder'
533711	ES820 - Exception when configuring Experiment to start on DRVR (ES720) INPUT Trigger
534241	INCA crash on reading AUTOSAR V3.2 files when file contains empty optional elements
534443	Undefined behaviour on ETK when max distab length greater than 255 is defined in Distab12 a2l
537716	Start Recording F12 cannot be activated instead Start Visualization F11 become active
539149	"/include" doesn't work as awaited if a file is saved in the same folder as a "main" A2L file
540036	[WBID4152052861] (ExCLDTIndexOutOfRange) Index out of range if the list seperator is . (dot) - When a CSV file is imported via dataset.

540186	InstCheck.log does not contain Information regarding INCA AddOns
540219	ETK-S4.2C_TX: No measurement is seen after interruption behavior
540280	ES720, DriveRecorder: ES720Configurator.exe renamed to DriveRecorderConfigurator.exe
540594	[WBID230347742] UndefinedObject does not understand set:
541340	ES820 crash after running experiment with ES720 in HWC [using I/O INPUT triggers]
541837	Long waiting times when operating the recorder manager with FETK-T measurement configuration
543069	"Queue is full" when trying to send CAN message with VN1610
543293	KVL: typing errors in English version.
543296	Replace System for OHI devices does not respect max number of channels for OHI devices
543387	ETK-S22: BDF cannot halt all cores of RH850E1x-FCC12ndCut
544911	INCA doesn't accept /include command if spaces are in file name (even with quotation marks)
545350	CAN-FD AUTOSAR ARXML files are not imported to INCA as expected due to size. New limit: 400MB. If exceeded, the file cannot be read into INCA, like before.
545675	ETK-S22: Incorrect measurement data using Distab 13 Accumulated
546323	INCA reports IP address conflict for VX1131
546606	EE: Optimize Window size option does not function properly after adding a variable in the widget for the first time
546657	EE: Making labels of OSCI inactive can lead to [NetWBID1993981642] System.InvalidOperationException: Element Reference not found!
546712	INCA-EIP: Error Message from INCA not useful for the customer
546727	INCA-SIP: SIP64 bit with MATLAB 2016a is frozen after start recording. Issue on MATLAB 2016a side - solved with MATLAB 2016b.
547054	ASAP3 Freezes within the 2nd test run
547055	MCE inconsistent configuration if > 1000 signals are added via ASAP3 Fulli Flag
547402	[WBID2758254818] UndefinedObject does not understand clearAllCompareCaches
547418	MCE: Invalid measure config for MCE if raster switch within one Parameter for Value ... occurs
547467	Start of recording of simple CAN Monitoring System needs more than 11 seconds. Performance improved from from 11.35 Sec to 0.347 Sec
547498	EE:[NetWBID4001990376] System.ArgumentException: An item with the same key has already been added.: INCA crashes when trying to add all elements from VSD
547801	Two XCP ECUs on the same FlexRay do not work. Recommendation: Assign differnt node addresses to both ECUs
547851	Copy paste for map does not work if used in dec mode
548005	ASAP2 Container: When user de-selects parent node, then files below are not de-selecting automatically.
548033	Wrong raster name in MDF4 and MDF3 files for XETK projects
548916	Rastercheck: Info in VSD raster overview (bytes, number of variables) wrong
549110	Possible that movement from SplitBar in Measure Window does not work
549156	Tgtsvr crash when running INCA on test bench
549267	INCA 7.2.2 writes not index Display name [ ] of a Variable in .dat file
549447	Support Lab File V11: Unexpected Icon in VSD is shown after adding Lab File includes only Functions
549543	FLX measurment values are not completely stored with pretrigger
549736	ASAP2 Container: Error message appears when trying to uncheck a2l checkbox while importing .ECUZIP

549772	Setup Service Pack: Translation issue for command-line-parameters on help-screen
550021	Rate name not as expected for Calculated Signals using Fixed Rate
550166	BIT_MASK does not work for 64 Bit values
550174	[NetWBID2140785826] System.OutOfMemoryException: Eine Ausnahme vom Typ "System.OutOfMemoryException"
550937	FETK-T: ECU access errors during trace setup
551272	ES820: Experiment cannot be run after powerloss during recording
551436	FETK-T1 TgtSv Error Dropped sample of raster 8 because sample-timestamp xxx is older than NoDataTime yyy. Note: Solved with HSP V11.3.0
551811	Low import performance of export file containing FETK and Flexray configuration
551825	CDM_Conversion of Axis is described in AXIS_DESCR AND in AXIS_PTS differently_comparision_results_unplausible
552176	Measure and Calibration Window: After using Restore the Unit is not any longer visible.
552200	ASAPCONTAINER: If user deselects a file, all files below are automatically deselected --> does not work
552272	Big timestamp offset between different interfaces within long measurement
552280	INCA V7.2.3 and VN1610: Flashing with the VN1610 in Handshake mode is slower more than 15% as with INCA V7.1.7
552370	Bounds refreshing are not shown correctly via colors
552371	ASAPCONTAINER: damaged datafiles cannot be unchecked and so import in general does not work
552479	ASAPCONTAINER: First read only dataset is not overwritten with CDX file in container
552670	Import of J1939-DBC not possible in case a DBC contains multiple messages using the same network ID
552702	Read in of DCM-File with 210 caracters leads to INCA system-error with ID "[NetWBID2444609494] System.ArgumentException"
552709	Slew variables with BIT_MASK defined in a2l are not added to Measure Window. Note: A2L has to be read again into the DB. To start the parser a second time it is necessary to use “replace” instead of “add”.
552736	MCE with ETKS21+CCP results in wrong measure values on ILink
552747	VN7610: INCA does not show proper information when VN7610 device is not enable for INCA (enable bit)
552780	EE: calculated signals are not added to default recorder when adding calc signal to EE
552969	ServicePackInstaller: Returned error code is 0 despite package installation returns an error
552975	ServicePackInstaller does not interrupt/abort installation in case a package installation fails
552978	ServicePackInstaller could be closed by ALT+F4 during installation sequence
553346	CanMonitoring not displaying float values properly
553594	CDM_function_Save_As_in_DB shows no subfunctions
553722	Wrong popup from IP-Manager
553853	RECORD_LAYOUT items Fixed MAPS and CURVES crash INCA when added to experiment
554017	ETK Tools V4.1.4: XCT: Search for Hardware fails
554059	INCA-SIP: XML Generation Is Slow
554159	New Prof CNF parameters for overruling XCP PGM parameters - solves XCP Flash Problem mit INCA V7.2.2

554443	INCA-SIP: Problem with hard coded table values for 3D + dimentions when calibrating.
554460	XETK-S21 / MPC5746R EBF flashing issue
555003	INCA 7.2 SP 3.1 / INCA V7.2.3 performs an unexpected restart during installation
555302	Wrong multiple cells selection in Scalar Table Window
555667	XCP - Improvement error behavior by unsupported ADDRESS_GRANULARITY. Note: INCA supports ADDRESS_GRANULARITY = "ADDRESS_GRANULARITY_BYTE" only.
555873	BOA devices are slowly reintialized after error frames on the CAN bus.
555933	A2L: [WBID3968110675] UndefinedObject does not understand addChildWindow:
556227	CDM: Bool calibrations with data type SBYTE can not copyed to "true"
556238	INCA 7.2 SP 3.1 / INCA V7.2.3: Time Domain Handler gets an error 0x80002004 while trying to find dynamic domains via TDM API
556620	ES581.4 seems to stop during a block mode flashing session
556722	Trigger configuration does not take over FlexRay signals if name of interface was changed in HWC
556842	EE: "[WBID197774046] UndefinedObject does not understand zOrderedChildren" can occur when copy/paste a measure window in DBB
556889	CDM: When perform a calibration in CDM, the monitor pops everytime up with no new content
557063	ES582.2_CCP : CCP-Upload runs in a ASAP1b timeout
557110	CDM curve/FIX_AXIS/VTAB pre-view of compare does not show differences although instant compare does
557593	Automated INCA Installation fails - Could not access network location \ETAS\Autosar.Shared 7.2.
557623	[FETK-T1: Init] when opening EE INCA drops misleading Datafreeze error in INCA monitor
557647	INCA V7.2.3 and INCA Add-Ons does not install with system user.
557809	ES582: Missing ISO15765 TX notification menu in INCA
557810	Shortcut directions created by ETAS Generic Software Installer are different
558075	When removing layer from experiment in database browser, labels don't get removed but set to recording only
558315	ServicePackInstaller: Installer misses AddOns in case of downgrade of one product (e.g. ETK Tools)
558355	INCA crashes at Starting ASAM2 Subset Generator -> different WBIDs with "(ExCPMStackOverflow) A stack overflow has occurred" [WBID1144718797] & [WBID2243713979] & [WBID4096370072]
558501	EE: [NetWBID1144990839] System.InvalidOperationException: Collection was modified; enumeration operation may not execute. - after reactivation from Calc Signal
558835	HSP: ES891 Distab17 implementation corrupts uC RAM. Note: Solved with HSP V11.4.0
558845	INCA V7.2.4 Beta: XETK_ETK_FPRG_COMMAND(REMOTE_MACRO, PROT_USER, USER_CMD_MCU_REV,RC_VALUE_MASK_TCID) returns wrong value
558962	INCA V7.2.4 Beta: Datafreeze based features for Bernina do not work
559113	MDF 4.x events that arrive within the pre-trigger-time are discarded and not recorded
559696	INCA V7.2.4 Beta: Read register CHIPIP with flash driver (device5) returns wrong value
559753	DriveRecorder / INCA COM API - No Error message when 'too many signals in signal group' for MDF3

559797	GetOption / GetOptionInformation for TransportLayer does not work
560045	DCM output file is missing
560311	INCA freezes after changing software for XETK
560616	Distab17: changed ECU event list address is not written to FETK or XETK
561641	Flashing with ES892 via UDSonCAN failed
562310	INCA V7.2.4 Beta: Second and third trigger have no measurement data at pretrigger time

5.29 INCA V7.2.3 Build 115

See also section INCA V7.2.3, please.

Additionally the reported KIR issue and another important issue is solved.

5.29.1 Known issues solved with INCA V7.2.3 Build 115

- #555302 Wrong multiple cells selection in Scalar Table Window
(KIR-issue, see also ETAS Download Page)
IF
multiple calibrations are contained in one "Scalar Table Editor"
AND
the ECU is switched to WP
AND
a calibration (Cal_1) in the editor is selected
AND
you click on another calibration (Cal_2) to select it to calibrate (while unintentionally moving the mouse cursor(similar to drag and drop) so that you erroneously select multiple calibrations (as indicated by the mouse cursor changing to a STOP icon (a circle with a diagonal line)))
AND
a value is typed by keyboard
THEN
Cal_1, Cal_2 and all calibrations between them are highlighted and would be calibrated if the calibration action is confirmed.
This might result in unexpected behavior.

  Hint: Even if unwanted calibration variables are selected by above operations, the entered value is not written to any variables if you cancel the operation via the ESC key. However, you will still need to unselect 'unwanted' variables manually.

  Note: Bounds are respected (and not exceeded).

  Affected: INCA V7.1.8 and higher, including INCA V7.2.3
Note: Solved with INCA V7.2.3 Build 115 and INCA V7.2.4 beta 69 or higher.
Workaround: Avoid using drag and drop in a "Scalar Table Editor", which is not supported in this editor
or
use "Combined Scalar Editor".

- #557647 INCA V7.2.3 and INCA Add-Ons does not install with system user.
  Note: Solution required a rebuild of INCA V7.2.3 and all INCA Add-Ons without any other functional change.

5.30 INCA V7.2.3

5.30.1 Recommended Installation

It is recommended to update INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack installer.

Very important: After the installation a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.30.2 New Features

See What's News slides INCA V7.2:

- INCA-V7.2 SP3 -Whats-new.pdf: News of the current INCA Service Pack.

Important

Phase Out Information

- Maintenance stop for INCA under Windows Vista
  - Microsoft announced the end of the Extended Support for Windows Vista by 11th of April 2017 http://windows.microsoft.com/en-us/windows/lifecycle
  - ETAS will stop the INCA maintenance for Windows Vista by 11thof April 2017 too

5.30.3 Known issues of INCA V7.2.3 – Important Hints

- #484654 It is possible to add a stack device for ES891 in INCA HWC even though stack functionality is not supported
  Even though the workflow of adding stacked ES89x modules is already available in the INCA Hardware Configuration, this scenario is currently not yet supported.
- #544278 Recording doesn't start for CCP, when measure variables are added to EE.
  Work-around: Save, close and reopen EE, then recording works fine.
- #550426 ES720 Drive Recorder: Deactivated "Stop Trigger" from INCA V7.2.2 is not respected in INCA V7.1.x
  ES720 Driver Recorder with INCA V7.1.x software does not respect the stop trigger exported from INCA V7.2 and evaluate it wrongly.
  Workaround: Remove the "Stop Trigger" condition in INCA V7.2 before the export for the drive recorder.

5.30.4 Known issues solved with INCA V7.2.3

See also known issues solved with INCA V7.2.2HF1 and HF2 below, please.

- #544014 Combined Editor: [WBID975655862] UndefinedObject does not understand countBits - during copy paste.
  Issue only affects calibration variables with Bit Masks, and when they are displayed in Impl data representation. With this combination, the wrong information is written to the clipboard during a paste operation.
  Workaround: Changing the data representation to phys or hex for example eliminates the problem.
- #536836 ES891: Time offset between ES891 and other ETAS devices
  When using an ES89x device with other ES5xx or ES89x devices, then these devices are not synchronized.
  The issue is solved with HSP V11.3.0.
- #540264 VN7610 J1939: Data missing.
  With the newly supported Vector VN7610 hardware, measurement data losses can occur when using J1939 CAN Monitoring.
- #540530 VN7610 CAN-FD: It is not possible to use the VN7610 for UDS on CAN-FD flashing with 1000kBaud-5000kBaud configuration
- EHI #547448 INCA, INCA Hotfix, INCA Add-Ons, MDA, ETK Tool: "Re-Install mode" of the products of the INCA SP is not working correctly.
  It might happen, that it is not possible to install the corresponding product after the Re-Installation (repair) (e.g. the same product version or the next product version).
  To avoid this, the "Re-Install mode" (repair) function is disabled in the Setup_ServicePack GUI and in silent mode (via parameter) until issue is solved in the products shipped with the INCA Service Pack.
  Workaround: In case, installation is possible if installed from the same source/directory like the first installation.
- #549716 HSP V11.2.0 and HSP V11.2.1: Update or ES581.4 makes device unusable
  The USB Driver version 1.0.0.261 contained in HSP V11.2.0 and HSP V11.2.1 causes in some cases an erroneous update of the ES581.4. In worst case the device is unusable after this operation.
  To prevent this issue the USB driver version 1.0.0.257 shall be used. This is contained in HSP V11.1.0, HSP V11.1.1, HSP V11.2.2 and in HSP V11.3.0 and higher.
- #534258 It is not possible to load variables to different pattern when 100us is in use with FETK on ES891
  With INCA V7.2.2 HF2 and HSP V11.2.2 the fast raster support is improved for all FETK and ETK-S20/21 in FETK mode.
  Use of INCA 7.2.2. HF2 is recommended only with HSP V11.2.2 or higher for all FETK or ETK-S20/21 in FETK mode.
  Otherwise some measurement data might be missed in case of fast raster.

5.30.5 Bug Fixes and Improvements

- Notes:

- Some fixes are solved with the corresponding INCA – Add-Ons also part of the INCA Service Pack (SP)
- EHI calls are listed in increasing order

EHI #	Title
276068	ES512_FLX_MON: Misplaced Error Message on read Fibex file to DB
307912	CDM Output Path in CDM Options differs from given path in INI file
364411	EE: "[WBID1012518856] RBBoolean does not understand maxValue" when adding boolean calibration labels to EE
400688	[WBID2337547832] Exception is not resumable. Note: Already solved with INCA V7.2.2
407364	Setup Service Pack - No information during start of SP that it is running and working
427852	[WBID694482594] UndefinedObject does not understand includesAddress: Note: Solved with INCA V7.1.10 and higher.
451973	CDM: Cuboids are shown in listing file as CHARACTERISTIC and not as Value Cuboid
484953	[WBID668806957] Primitive failed in: String>>#at:put: due to Value out of range in argument 2
485574	Characteristic map is displayed incorrectly in the CDM
485978	Measured value in Meaure Table not displaied on VUI
490847	Multiple License Manager can be invoked
492128	EE: [WBID3725256366] MISSING 42 in krn: INCA crashes while setting default value for 'Display z-axis' option in Property dialog.
497205	-32768 is set to 16-bit Signed calibration variable if the user set 32768 to the calibration variable when "Data Representation" is "dec"
497860	Axis of grouped map is not calibrated above soft limits
510542	Wrong Inca XCP user message for XCP 1.1
512330	Wrong Lab File Format is written when using *.* Format
516392	Labfile : Not all slewing labels are written into Lab file from EE
517911	CDM:"[WBID2037440746] False does not understand collect:select:" when open cdm or asap 2 editor with special dataset
519233	When ACC Pattern is incorrect, ACC dialog occures twice and download error occures
519992	INCA-MIP: An example M file "tDummy.m" doesn't work with an example database "db_matlabtest".
520749	ES891: FlexRay Mon + dmETK (or FETK) connection might be interrupted after some time of operation
520831	[WBID2054020989] RBMeasureDataDisplayConfig does not understand do:
522930	INCA 7.2 Service Pack Installer - Incomplete guidance system for language selection
525919	Invalid Measurements do not work properly if media converter is disconnected from PC (BR_XETK S1)
526993	Distribution of default-user-settings is not possible with INCA V7.2.0 and INCA-AddOns like it was possible with INCA V7.1.x
527673	[WBID1598888007] (ExCPMStackOverflow) A stack overflow has occurred.
528265	[WBID1788627166] (ExCLDTIndexOutOfRange) Index out of range -> Change to INCA using ALT+TAB results in crash
528324	Too many labels in experiment - only resolved after re-init of hardware
529291	API Calibration Window does not respond during calibration
530528	ETK-S22_TX: Flashing fails in ETK-S22.0 RH850 QFP & in BGA 2nd Cut JTAG

530536	MCE_ASAP3:ES891-FETK:1 MCE Measurement via ASAP3 not possible : Command "Get online value" returns always "Invalid measurement"
530975	VSD : Lab files added in VSD from trigger editor is not reflected in VSD.
531135	ETK Compare upload download. Prof Manual updated.
531145	Inconsistence at documentation of software function - ProF Manual updated
531148	Return value of the function "get_device_identifacation_value" is not described correctly
531181	ETK Compare upload , download failed. ProF Manual updated.
531594	WBID2188995708] UndefinedObject does not understand toScreen:
531704	MCE: Ethercat Measure Configuration is not deleted. Note: Already solved with INCA V7.2.2
532065	CAN, KWP, M9U, Kline, CAN_UDS, M9U: looped back calibration value is incorrect, if option Automatic Firmware Check is set to “True”.
532273	Unexpected headline found while switching between Test devices present on Left hand panel of VSD
532616	A2L Subset generator writes a broken A2L if IF_DATA XCP is used at a measurement
532838	EE V3.7: Osci has problems with fast task times (100 us)
532868	VSD can open with no data sources in experiment
533146	BenchmarkingCustomerOperations - Opening the "Variable Selection Dialog (VSD)" takes longer compared to INCA 7.1.10 HF3
533387	Use of EE with Polling Rater together with ETK blocks recording
533444	[WBID33796178] WinError does not understand <
533701	ES820 - Experiment validation fails for experiments that can actually be run
534575	ETK: Distab13 Accumulated reports too much Distab byte usage
534614	[WBID1937633166] UndefinedObject does not understand x
534790	Service Pack Installer: INCA AddOns not reinstalled, if installed version equals package version (AddOn is missing after installation)
535125	LABCAR 5.3.1/4 and INCA 7.1: GUI content of the Experiment Environment not updated.
535415	[FETK-T1: Possible Out of memory problem in target server
535697	The separator line is missing in the combined editor
535746	XETK is not correctly initialized after software change
537058	ServicePack_Installer: MDA appears up-to-date in SP installer although MDA was not yet installed
537275	[WBID2711626092] (ExCLDTIndexOutOfRange) Index out of range
538926	GMLAN [7.2.1.117] indicates incorrect raster load. Note: Solved with INCA V7.2.2 Build 148 + Addon GMLAN V7.2.2
539002	Recording of Calibration not saved in the EE for slew variables
539080	XCP on Ethernet does not start recording
539108	[WBID2793125628] MCSInactiveMeasureElementObject does not understand getTicObjects: INCA crashes when user tries to open VSD window.
539115	CombinedEditor: Label name missing from Combined Editor - [WBID376689103] UndefinedObject does not understand setObject:
539298	Hot Key to open about variable dialog does not work in calibration window for boolean and enum variables.
539339	KVL: Write->A2L is unexpected Enabled when KVL is selected
539374	Calibration change indicator is not retained after checksum is performed
539512	INCA 7.2.1 MIP Addon does not work with MATLAB 32-Bit
539589	[WBID2345523487] True does not understand rounded
539605	XCPonCAN - Raster fill level is not available.

539824	[WBID1477195478] UndefinedObject does not understand getImplValue:
539984	Using reduce export results in an INCA Crash [WBID3171617899] (ExCPMStackOverflow) A stack overflow has occurred.
540027	ETK-S21.1_TX: Flashing fails in ETK-S21.1 LFAST interface
540148	INCAV721 crashed after starting EE
540264	VN7610 J1939: Data missing. With the newly supported Vector VN7610 hardware, measurement data losses can occur when using J1939 CAN Monitoring.
540430	API Flashing with UDS on FlexRay not working (with function "UDSB_INIT_COMMUNICATION"
540495	EE: displayed incorrect axis value in 3D map editor
540530	VN7610 CAN-FD: It is not possible to use the VN7610 for UDS on CAN-FD flashing with 1000kBaud-5000kBaud configuration
540536	[WBID3510731994] Float does not understand includes: (CDFX File is not editabe)
540568	[WBID3932738423] UndefinedObject does not understand device on replace systems
540576	EE: INCA V7.2.2 sets a lot of labels on inactive compared to INCA V7.2.1 (open same EE with same user options)
540580	INCA-EIP: Message "Assign simulation device to ECU" appears too often. It is confusing for the customer.
540583	INCA - EIP: If the ES891 is selected first in the HW configuration INCA doesn't find the ES910 automatically. Note: The issue is solved with INCA V7.2.3
540587	KVL: behavior default display in subfunctions is strange (one label gets a default value)
540765	[WBID1980906840] MCSMainExperimentController does not understand device. Note: WB fixed in DaimlerExtension V7.2.2.98
540801	KVL export writing in lab format 1.1 and 1.2 but result is the same
540883	KVL: loading labels via VSD into KVL has non linear performance. Performance improved.
540984	KVL: problem with measure array elements in lab format 1.1 KVL cannot read them. Could not add variable because it is not available in the source dataset. [nil]
541059	KVL: if an ordernumber is dublicated in lab file, it will be displayed in the KVL after reading it
541061	KVL: Cancel button in adding calibrations has no function
541230	ASAP3.exe appears to stop working for a while before continuing - user seeing delay in system
541286	KVL: existing record only labels in EE are not shown in default widget when KVL is loaded with Display setting
541549	KVL: "[WBID306560295] RLIndexModeColumnDir does not understand indexFrom:" can occur during KVL load
541835	Unusual long waits while loading an Experiment with connected FETK-T
541942	ES590 can not diaplay ETK raster information normally.
542728	XCP_ON_CAN with CAN-FD does not work with set flag for CAN FD
542789	XETK-V2: Samples are dropped while measurement after ECU reset cycle
542818	Layer for KVL variabel should have a unique name instaed of the default name for new layer
543079	Recorder: 'Store repeats in separate file' checkbox is enabled even when recording duration is set to 0.0 seconds for Trigger On.
543329	After removing polling labels from experiment, further labels are set to inactive when reopening
543673	KVL: Label is not adding to EE even after making it to 'Display Only' in KVL list.
543702	MultiRaster: Value check fails in the measurement, when multiple pause comments or pause for long duration (1 minute) is applied

543898	KVL: Experiment order is appearing for labels that are inside Functions and Groups; and labels are listed separately to KVL list wrongly.
544012	VN7610: Callstack error appears if you init VN7610 with XCP blockmode
544014	CombinedEditor: [WBID975655862] UndefinedObject does not understand countBits - during copy paste.
544260	[WBID3421345940] UndefinedObject does not understand isMaximized when using KVL
544269	Missed message in the monitor window during download from INCA-HWC and EE-modus for L-EMU-RAM in case of DISTAB
544315	ASAP3: Type mismatch error 60014 when using UDS or KWP2000 project without dataset
544352	KVL: Default setting for column display is not working correctly for functions
544607	MCE: measure data transfer on ILink gets interrupted by using working point visualisation
544634	KVL is automatically loaded when same a2l file is used for creating different project.
544739	MCE: DAQ(0) caused by invald MCE measure configuration
544767	'Layer_1' is disappearing from Experiment window when there are multiple layers.
544781	[WBID1657721752] Primitive failed in: String>>#at: due to Index out of range in argument 1
544788	KVL: When the experiment is saved manually by the user and the EE is closed the save dialogue window is still displayed
544790	KVL: Elements can not be deleted if Experiment Order is selected
544810	KVL: Possible that EE is not correct reopened after labels are added via KVL
544815	Performance of opening EE the first time decreased
544920	MCE: Array Measurement is not deleted on iLinkRT
545155	INCA crashes on import customer workspace on specific WIN8.1/WIN10 PCs with error 53: General protection fault - read from invalid memory
545331	Not possible to record correct data in MF4 format with CSM AddOn
545335	Setting the bounds range fails if a measure value has a conversion different from 1:1
545337	INCA crashes when deleting Expeirment Layer from Database: [WBID3842852888] (ExCLDTIndexOutOfRange) Index out of range.
545348	ETAS INCA AddOns have stopped working message when add CAN-FD AUTOSAR ARXML
545498	FLEXRAY AUTOSAR ARXML file support not as expected
545674	LCO V5.4.2, CCI_INCA V7.2.3: Tgtsvr is crashed. Therefore a download LABCAR is not possible. Note: Update with INCA V7.2.3 required.
545941	VN7610: It is poosible to initialize a device without the ETAS Licence Bit
546015	[WBID2777861142] when using optimized export for ES720 Driver Recorder
546092	2nd recording generates negative timestamps in case of CAN Monitoring and GPS-device (Data from buffer from a valid measurement before start recording)
546135	IPETRONIK-Modules not found with IPETRONIK_IPEaddon-INCA7.2_V05_05_02 using ES581.4 - Note: Solved with USB driver V1.0.0.261 of HSP V11.2.0
546292	Import workspace via api tool crashes INCA72x if Fibex in Export file is added
546361	INCA .dat file signal rate information has changed and is affecting automation scripts
546482	MCE/ASAP3: RCi2 Error with MCE using ASAP3 Recorder
546576	VSD does not use searched term if Ctrl F dialog is used
546625	[WBID3643318649] (ExCPMStackOverflow) A stack overflow has occurred.
546725	[WBID540414526] MCSOnlineExperimentFrameWindow does not understand createSomeHandles

547054	ASAP3 Freezes within the 2nd test run
547060	KVL: Not possible to enter order number with combination of 0. (such as- 10, 20, 101 etc)
547240	[WBID1628927360] Primitive failed in: String>>#at:put: due to Value out of range in argument 2
547274	Setup Service Pack: Nothing for installation selected but the update icon displayed
547333	Link to Service Pack readme not functional
547383	Setup Service Pack: No hint for user in case of downgrade / uninstall of current version
547401	Setup Service Pack: Version of SP Installer not updated with each new (beta) version.
547418	MCE: Invalid measure config for MCE if raster switch within one Parameter for Value ... occurs
547448	INCA, INCA Hotfix, INCA Add-Ons, MDA, ETK Tool: "Re-Install mode" of the products of the INCA SP is not working correctly.
547649	INCA reports error when reading in ARXML for CAN monitoring
547695	Open Layer in Experiment takes 20 sec
547723	When reading in ARXML 4.2.2 file, INCA does not offer to use CAN bus. Note: Supported with Autosar V4.2 (CAN-Monitoring) in INCA V7.2.3
547846	Raster Info can not be read from LabFile v.1.1 - solved with new feature in INCA 7.2.3
548033	Wrong raster name in MDF4 and MDF3 files for XETK projects
548035	Setup Service Pack uninstalls INCA wrongly during downgrade of another product of the Service Pack
548100	Flash error KWPonCAN: WriteMemoryByAddress does not increment sources address
548249	MCE-ASAP3:reconfiguration with a lot measurement labels crash ASAP3.exe = "ASAP3/ASAM MCD 3MC 4 INCA Module has stopped working"
548251	EE: "[NetWBID3564779264] System.NullReferenceException: Object reference not set to an instance of an object." can occur when open VSD (old experiment)
548431	Setup Service Pack: Package name in SP installer for Hotfix shows "INCA" only
548441	Setup Service Pack is too animated - in case of required reinstallation
548511	INCAV7.2 SP2: INCA MIP Repair Problem
548735	INCA 7.2.1 - MDF3 data files do not contain the expected raster name for multiple cores or synchronous rasters
549224	[WBID335877757] UndefinedObject does not understand keysAndValuesDo:
549247	EE: Ctrl-a does not work any longer in Calibration Window using Labels with VTab
549267	INCA 7.2.2 writes not index Display name [ ] of a Variable in .dat file
549400	Searched variable is not taken automatically into VSD search field.
549438	ECU_CALIBRATION_OFFSET is not ignored for "INCA"s calibration of measurment signals
549474	ETKS2 is not being flashed properly using INCA 7.2.1 and newer
549590	ASAP3 - EXTENDED SERVICE GetState "EPKfromECU" leads to WB
549759	XCT: Cannot automatically create a usable memory configuration for XETK/FETK devices other than default controller (TC27x). Note: Solved with ETK Tool V4.1.4 (part ot INCA V7.2 SP3)
550007	[WBID265585359] MCSDSMErrorGeneration does not understand getPhysValue - when selecting variables or scrolling down within CDM
550021	Rate name not as expected for Calculated Signals using Fixed Rate
550158	XETK-S20: TC27x PD handle assignment blocking customer project
550220	MCE via ASAP3 ASAP3:a1b_XETK.dll Critical Exception 0xC0000005 at reconfiguration MCE via ASAP3

550649	Request for KWPonCAN HW initalization with service $81. Recommendation: ETASData\INCA7.2\Devices\KWP2000\kwp2000.cnf has to be modified.
550663	Initializing XCP Hardware freezes INCA
551492	Trigger: change trigger conditions change automaticly the Recording Duration Time
551857	TargetServer crash after reconnect and reinitialise ES581.3 and CCP
552116	EE Display of bounds using marker: Bounds are not displayed correctly if marker is used
552146	EE_in Display Configuration window once a measure value is twice in a measure window the single measure value cannot be moved to another window
553339	CanTransmit sending incorrect values for float variables. Note: Solved with CanTransmit V7.2.3

5.31 INCA V7.2.2 HF2

See also section INCA V7.2.2HF1, please.

Additionally the reported KIR issue and a few other important issues solved.

5.31.1 Known issues of INCA V7.2.2 – Important Hints

#549716 HSP V11.2.0 and HSP V11.2.1: Update or ES581.4 makes device unusable

The USB Driver version 1.0.0.261 contained in HSP V11.2.0 and HSP V11.2.1 causes in some cases an erroneous update of the ES581.4. In worst case the device is unusable after this operation.

To prevent this issue the USB driver version 1.0.0.257 shall be used. This is contained in HSP V11.1.0, HSP V11.1.1 and in the HSP V11.2.2.

#534258 It is not possible to load variables to different pattern when 100us is in use with FETK on ES891

With INCA V7.2.2 HF2 and HSP V11.2.2 the fast raster support is improved for all FETK and ETK-S20/21 in FETK mode.
Use of INCA 7.2.2. HF2 is recommended only with HSP V11.2.2 and up for all FETK or ETK-S20/21 in FETK mode.
Otherwise some measurement data might be missed in case of fast raster.

EHI #547448 INCA, INCA Hotfix, INCA Add-Ons, MDA, ETK Tool: "Re-Install mode" of the products of the INCA SP is not working correctly.

It might happen, that it is not possible to install the corresponding product after the Re-Installation (repair) (e.g. the same product version or the next product version).

To avoid this, the "Re-Install mode" (repair) function is disabled in the Setup_ServicePack GUI and in silent mode (via parameter) until issue is solved in the products shipped with the INCA Service Pack.

Workaround: In case, installation is possible if installed from the same source/directory like the first installation.

The solution is planned for INCA V7.2 SP3.

#550426 ES720 Drive Recorder: Deactivated "Stop Trigger" from INCA V7.2.2 is not respected in INCA V7.1.x

ES720 Driver Recorder with INCA V7.1.x software does not respect the stop trigger exported from INCA V7.2 and evaluate it wrongly.
Workaround: Remove the "Stop Trigger" condition in INCA V7.2 before the export for the drive recorder.

5.31.2 Known issues solved with INCA V7.2.2 HF2

#548033 Wrong raster name in MDF4 and MDF3 files for XETK projects
(KIR-issue, see also ETAS Download Page)

IF
a device is using the IF_DATA ETK_XETK
AND
this device is in use for recording (MDF3- or MDF4-format)
THEN
instead of the raster name, the 'worst case raster time' from A2L is saved in the meta data of the measure file.

Example: raster name 'cylinder synchronous' will be incorrectly replaced by '1.25ms' in the meta data.

Not affected are all other devices, using e.g. IF_DATA ETK, IF_DATA XCP.

Hints and other issues related to the meta data of MDF3/4:

1. The actual recorded values are correct. Only the meta data of a Data Group in a measure file (MDF3 or MDF4) is incorrect.

2. For all other devices not using IF_DATA ETK_XETK (like XETK or FETK), the raster name is extended by a slash and the repetition rate of the raster definition, if this is different than 1. E.g. 100 ms time sync/10

3. Valid for all devices: The DISPLAY_IDENTIFIER for recorded array elements does not contain the index, e.g. _[0]. Only the software name includes the index.

Related Calls:

#546361 INCA .dat file signal rate information has changed and is affecting automation scripts

#548735 INCA 7.2.1 - MDF3 data files do not contain the expected raster name for multiple cores or synchronous rasters

#550021 Rate name not as expected for Calculated Signals using Fixed Rate

#549267 INCA 7.2.2 writes not index Display name [ ] of a Variable in .dat file

5.31.3 Bug Fixes and Improvements

#534258 It is not possible to load variables to different pattern when 100us is in use with FETK on ES891

With INCA V7.2.2 HF2 and HSP V11.2.1 the fast raster support is improved for all FETK and ETK-S20/21 in FETK mode.
Use of INCA 7.2.2. HF2 is recommended only with HSP V11.2.1 and up for all FETK or ETK-S20/21 in FETK mode.
Otherwise some measurement data might be missed in case of fast raster.

EHI #	Title
	MDF – KIR issue related
546361	INCA .dat file signal rate information has changed and is affecting automation scripts
548033	Wrong raster name in MDF4 and MDF3 files for XETK projects
548735	INCA 7.2.1 - MDF3 data files do not contain the expected raster name for multiple cores or synchronous rasters
549267	INCA 7.2.2 writes not index Display name [ ] of a Variable in .dat file
550021	Rate name not as expected for Calculated Signals using Fixed Rate
	ETK – 100µs raster support together with HSP V11.2.2
534258	Performance optimation of all ETK on ES891 and all FETK. 100µs raster beside other rasters now possible.
	Important solution for Test Bench
529291	529291 API Calibration Window does not respond during calibration
	INCA Add-On DriveRecorder V7.2.2 support with INCA V7.2 SP2.2
533701	INCA Add-On DriveRecorder: Experiment validation fails for experiments that can actually be run
	Setup Service Pack improvements
407364	Setup Service Pack: No information during start of SP that it is running and working
547383	Setup Service Pack: No hint for user in case of downgrade / uninstall of current version
547401	Setup Service Pack: Version of SP Installer not updated with each new (beta) version.
548035	Setup Service Pack uninstalls INCA wrongly during downgrade of another product of the Service Pack
548431	Setup Service Pack: Package name in SP installer for Hotfix shows "INCA" only
548441	Setup Service Pack is too animated - in case of required reinstallation

5.32 INCA V7.2.2 HF1

See section INCA V7.2.2, please.

Additionally the reported KIR issue and a few other important issues solved.

5.32.1 Known issues of INCA V7.2.2 – Important Hints

See section INCA V7.2.2, please.

Additionally the following issues with INCA 7.2.2 were reported:

Related Calls:
#546361 INCA .dat file signal rate information has changed and is affecting automation scripts

#548735 INCA 7.2.1 - MDF3 data files do not contain the expected raster name for multiple cores or synchronous rasters

#548033 Wrong raster name in MDF4 and MDF3 files for XETK projects

#549267 INCA 7.2.2 writes not index Display name [ ] of a Variable in .dat file

With INCA V7.2.1 the "Rate" information in the data recorder metadata changed meaning for MDF3 and MDF4 record files.

- With former INCA versions the Rate field is populated with name of raster that it is recorded in.
  Example: Throttle
- With INCA V7.2.1 the Rate field is populated with time period of raster it is recorded in.
  Example: 1.25ms
- Affected are Generic Devices integrated via the Open Hardware Interface (OHI), like XETK, XCP, EX4xx – measurement modules.
  They got the same names as the polling devices. But this is wrong for Generic Devices.
- Not affected are all standard devices, like ETK.

Consequences:

- In the experiment it is correctly displayed but in later post-processing with recorded measure files the problem shows up.
- Measurement files are not compatible to former definition. Further evaluation with existing tools might fail.
- In some cases it is no longer possible for the user to distinguish different signals by raster names in later post-processing. Example: Different Raster names with the same time period.

Currently the analysis is in progress. It is planned to solve the issue with an upcoming INCA V7.2.2 HF

5.32.2 Known issue solved with INCA V7.2.2 HF1

- #545335 Setting the bounds range fails if a measure value has a conversion different from 1:1
  (KIR-issue, see also ETAS Download Page)
  Detailed description:
  IF
  the experiment uses Bounds Monitoring for measurements
  AND
  the measurements use a computation method different to ident
  AND

the physical representation is used
AND
the monitoring bounds are modified in the properties dialog
THEN
INCA exchanges the physical bounds values by the implementation values.
THIS leads to wrong bounds values and wrong bounds monitoring results

5.32.3 Bug Fixes and Improvements

EHI #	Title
536107	INCA-EIP: ENUM bounds of Simulink Variable cannot be deleted.
544815	Performance of opening EE the first time decreased
545335	Setting the bounds range fails if a measure value has a conversion different from 1:1
546092	2nd recording generates negative timestamps in case of CAN Monitoring and GPS-device (Data from buffer from a valid measurement before start recording)

5.33 INCA V7.2.2

5.33.1 Recommended Installation

It is recommended to update INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack installer.

Very important: After the installation a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.33.2 New Features

See What's News slides INCA V7.2:

- INCA-V7.2 SP2 -Whats-new.pdf: News of the current INCA Service Pack.

Important

- New License Keys for INCA 7.2 and additional license types for INCA-FLEXRAY and INCA-LIN required.

For further and detailed information see also *What's New* slides.

Phase Out Information

- With INCA V7.2 the Add-on INCA-VLINK will be discontinued
- Maintenance stop for INCA under Windows Vista
  - Microsoft announced the end of the Extended Support for Windows Vista by 11th of April 2017 http://windows.microsoft.com/en-us/windows/lifecycle

  - ETAS will stop the INCA maintenance for Windows Vista by 11thof April 2017 too
- ETAS continues INCA V7.1 by INCA V7.2
  With the release of INCA V7.2
  - New features and bug fixes are delivered with Service Packs for INCA V7.2
  - For INCA V7.1 there will be no more updates
- INCA V7.2
  - Available for all users with Service Contract free of charge
  - Now with MSI Installer
  - Installable in parallel to INCA V7.1
  - New license keys that support INCA V7.2 down to INCA V6

5.33.3 Known issues of INCA V7.2.2 – Important Hints

- #540264 VN7610 J1939: Data missing.
  With the newly supported Vector VN7610 hardware, measurement data losses can occur when using J1939 CAN Monitoring.
- #540530 VN7610 CAN-FD: It is not possible to use the VN7610 for UDS on CAN-FD flashing with 1000kBaud-5000kBaud configuration
- #536836 ES891: Time offset between ES891 and other ETAS devices
  When using an ES89x device with other ES5xx or ES89x devices, then these devices are not synchronized.
  The solution for this is planned to be shipped with the December 2016 release of INCA and HSP.
- #484654 It is possible to add a stack device for ES891 in INCA HWC even though stack functionality is not supported
  Even though the workflow of adding stacked ES89x modules is already available in the INCA Hardware Configuration, this scenario is currently not yet supported.
- #544014 Combined Editor: [WBID975655862] UndefinedObject does not understand countBits - during copy paste.
  Issue only affects calibration variables with Bit Masks, and when they are displayed in Impl data representation. With this combination, the wrong information is written to the clipboard during a paste operation.
  Workaround: Changing the data representation to phys or hex for example elimainates the problem.
- #544278 Recording doesn't start for CCP, when measure variables are added to EE.
  Work-around: Save, close and reopen EE, then recording works fine.

5.33.4 Known issues solved with INCA V7.2.2

- #541784 MultiRaster: In case of "MultiRaster Measurement" one or more (few) measurement pairs (samples) after the first timestamp are not displayed/recorded, which will lead to a small gap (one or some samples) after the first time stamp.
- #533137 Signed Calibration BIT MASK variables cannot be added to Experiment and unexpected calibration changes.

Behavior with INCA Version lower than INCA V7.2.0:
When calibrating a Signed Calibration value with BIT MASK, it is expected that only the bit is calibration. But the complete Byte was changed, leading to unexpected calibration changes.
This was changed with INCA V7.2.0: The Signed Calibration BIT MASK variables cannot be added to Experiment any longer. This will be fixed with INCA V7.2.1.

- #530572 Polling mode of GMLAN shows different measurement compared to time-equidistant sampling rate slow/medium/fast
  Wrong measurements might be the result.
  This is not an INCA V7.2 issue, but a general issue with Polling Mode and GMLAN in case of "Multi Rasters" used.
  Investigation finalized: With "Enable Multi Rasters" turned on, the VSD won't let select a Polling Mode Raster together with a GMLAN Raster. It is possible to select multiple GMLAN rasters but if when a polling mode raster is picked, the VSD unchecks any GMLAN rasters. The workaround is to select a different variable for GMLAN and Polling. For example, create additional copies of a variable in the A2l, following to multiple variables with different names all pointing at the same address. It is possible then to assign one for GMLAN and one for Polling. One caveat - the data will not be time aligned.

5.33.5 Bug Fixes and Improvements

- Notes:
  - Some fixes are solved with the corresponding INCA – Add-Ons (also part of the INCA Service Pack (SP)
  - EHI calls are listed in increasing order

EHI #	Title
347846	VIRTUAL_MEASUREMENT: After removing VM possible that not all labels are not shown in the correct state
373461	EE: Possibly Left and Right Key does not work in the VSD Property Grid
376363	[WBID3658768179] UndefinedObject does not understand openEntry
391967	Page switch without confirmation (in case of XCP)
392388	Change of the German tooltip text of the button to disable the full initialization of HW on experiment open
416783	[WBID3701367055] CwTopLevelShell does not understand mwmInputMode:
417149	[WBID3362448268] UndefinedObject does not understand online
424703	SetProject for FIBEX file does not work
425801	Copy of the dataset failed
426656	[NetWBID3584697627] System.NullReferenceException: Object reference not set to an instance of an object.
430081	[WBID2292624317] UndefinedObject does not understand invoke:withArguments:returnType:
432368	[WBID3367473019] UndefinedObject does not understand online
434009	CNBLOCK, CCBLOCK: cn_precisison default is 48 and not 0
443638	[WBID643506881] UndefinedObject does not understand invoke:withArguments:returnType:

447552	[NetWBID2875227278] System.InvalidOperationException: Can not find raster '100ms time synchronous\XETK:1' for device 'XETK:1'
447737	[WBID27669390] UndefinedObject does not understand <
449160	API method "OpenViewForExperimentElement" returns always "True"
472596	[NetWBID3820016581] System.Collections.Generic.KeyNotFoundException: Der angegebene Schlüssel war nicht im Wörterbuch angegeben.
477118	[WBID2329633746] UndefinedObject does not understand isETargetDevice
479270	cn_precision field in MDF4.x files should not be filled with "48" but with 0xFF
482831	GetMeasureValueInDevice() and GetMeasureElementInDevice() Methods do not work with CAN-Monitoring Device
483425	No INCA monitor log entry is shown when a CAN-message is suppressed for XCPonCAN
483482	EE: Labels gets missing from widget from when labels are made inactive and active again
484957	EE: Inca hangs while trying to add 'iLccContr.LFwdTq.m_steuerung' from VSD window. [NetWBID1909863997] System.InvalidOperationException: Channel can not use the given axis.
488463	EE_TRIGGEREDITOR: "[NetWBID3365143671] System.NullReferenceException: Object reference not set to an instance of an object." when choose measure arrays in triggereditor
492586	Return value of API Method ExportToFile is always true, even if the Export is not possible
494346	[WBID1220544209] UndefinedObject does not understand remove
495367	[NetWBID1219614614] System.ArgumentNullException: Value cannot be null.
495411	[WBID1189550100] UndefinedObject does not understand dataElement:
496594	[NetWBID1532279336] System.ArgumentException: The signalValueAccess is null or disposed + [NetWBID1095877047] System.ArgumentException: The signalValueAccess is null or disposed. + [NetWBID3424573043]
497205	-32768 is set to 16-bit Signed calibration variable if the user set 32768 to the calibration variable when "Data Representation" is "dec"
497961	Dataset->Freeze working data does not invoke ProF for XETK V2.0B
502649	Flickering of table editor during operation via automation interface
503705	ES891 and ODX-LINK: Search for OBD ECUs function in HWC does not work with ES891 (ODX-LINK Add-on feature)
504844	INCA ES720 AddOn: The Export include CDM configuration with all used Projects / Datasets
505761	Opening empty Experiment using the XCPonUDP Reference System takes very long - Improved by factor 10.
510371	The dropdown options format appearing as hex in the Scalar Table Editor even though Data representation value set as bin/dez
510542	Wrong Inca XCP user message for XCP 1.1
513515	EE: Lab file created from Recorder event viewer is wrong
513912	All variables are not displayed on VSD with INCA7.1.10/1.
516234	Naming of calculated signals in MDF4
517302	CCI: During the CCI tests I observe CEE crash
517910	User selection window during INCA start is not kept in foreground
519992	INCA-MIP: An example M file "tDummy.m" doesn't work with an example database "db_matlabtest".
520641	Installation: EULA is English if installation language is German
520701	VSD: warning message box "lagre number of items selected" occurs 2 times

521097	MCD3 V1 Command SCMCLogicalLinks::GetItemByName Index = _Puma\Project_XETK:1_GENERIC returns ePAR_ITEM_NOT_FOUND. Note: Solved with INCA V7.2.2 and Test Client 7.2.0_1.0.1
523060	Confusing WP checksum displayed in INCA after power cycle of ES891. Solved with HSP V11.2.0
523189	Monitor windows keeps printing warnings
523504	[WBID2979052883] Primitive failed in: String>>#at: due to Index out of range in argument 1 . INCA crashes when trying to install ProF from different drive
523791	Win 8.1 and higher: INCA 7.2 creates new start menu group "ETAS INCA 7.2" and does not match registry path
523792	MDF4.1 - compression work doesn't correctly. See explanation:
525372	ocdj2534can.dll Critical Exception when initializing hardware with J2534 applications installed
525569	Download only possible after re-opening the memory page management
526079	CCP in RESUME Mode: Provide meaningful information to user in case that the "Resume Mode" is enabled, but FIRST_PID is not defined within a2l file.
526257	[WBID1992769826]UndefinedObject does not understand backgroundColor:
526339	MDF4: Measure File contains Errors after restauration
526379	iLinkRT does not work using ASAP3 Script two times in a row
526695	Improved Repair Dialog for MDF4 Files after INCA / TgtSvr/ PC crash
526985	EE : Window position changed after setting inactive labels active
527359	INCA does not write LAB-Files like defined in new LAB-File Documentation
527369	Targetserver crashes during hardware initializing
527484	FETK-T INCA-EE open/close takes a long time - Performance improved
527504	INCA freeze and stop while Flash-programing small address area.
527611	Recording with FETK-T only possible after second HW init
527672	Storing recorded data takes minutes for a FETK-T1 measurement
527786	DB: WBID2544108768 after pressing Move Layer Down Icon in Experiment Elements
527847	MCE: Invalid MCE Configuration (Problem does not occure if FULI Flag = off)
528140	[WBID326262971] receiver must be a boolean
528649	Samples of a XCP on FlexRay measurement are mixed on the timeline
528698	VSD: Inactive signals appear in EE
528700	Selecting Read Only Measure Cals results in a message inthe monior window.
528813	CDM: "[WBID2099843610] Invalid operation during callback" can occur during CDM copy action
528850	VSD : [NetWBID1263570576] System.InvalidOperationException: Sequence contains no elements --> While clicking on CalcDev/RAMCAL node in Variable Configuration
529241	Changing acquisition raster of inactive variables - [WBID2090513174] (ExCLDTObjectNotFound) Object not found
529263	Subsetgenerator does not work for XCPplus
529283	INCA/MDA custom wizard pages German translation missing
529288	New Label added to combined editor is not in focus
529293	ASAP2 Subset Generator generates wrong A2L Files for XCP 1.2 projects
529458	Variable contained in Oscilliscope changed to calibration, INCA crashes when VSD is launched
529560	[WBID3058592658] UndefinedObject does not understand moveWindow:nTop:nWidth:nHeight:fRepaint:
529776	[WBID1125147076] UndefinedObject does not understand do - Walkback when launch Experiment

530253	Online help for DPR (Dual Ported RAM) in the HEX editor is incorrectly described
530439	Upload via KWPonCAN is not possible
530523	Other licenses that not included in license file are displayed at license borrow condition
530844	EE: "[NetWBID4051459368] System.Runtime.InteropServices.InvalidComObjectException: COM object that has been separated from its underlying RCW cannot be used." can occur after multi recording ald closing EE
530966	[WBID3474526434] UndefinedObject does not understand do:
531105	[WBID1566334496](ExCLDTObjectNotFound) Object not found.
531114	MCE: Error occurs using ETKS21 Experiment with BR_XETK S1 and iLinkRT
531125	FETK-T: Overflow of Aurix-AGBT-FIFO not detected reliably
531443	INCA-SIP: It is not possible to use XCponEth on the testnbench
531494	Over all view of curve is not visible in EE and position of the curve table is shifted.
531540	MCE: No measure values anymore in the YT Osci if sgnals are added to MCE configuration with e.g. XCP on CAN
531611	EE: [WBID1757682164] UndefinedObject does not understand nearestPixelValue: INCA crashes when user toggles between different layer on EE window.
531617	MCE: No measure values anymore in the YT Osci if signals are added to MCE configuration with e.g. XCP on CAN (2nd crash) Master/Slave Project
531646	J1939 experiment without full HW access causes a target server crash.
531810	[WBID784739521] UndefinedObject does not understand startAddress
532013	[WBID843594870] when trying to add new DBC to existing in DBC editor
532049	[WBID306560295] String does not understand isCalculatedDevice
532066	[WBID3155275701] unsupported type
532297	CDM: "[WBID937018974] RLIndexModeColumnDir does not understand offsetFrom:" can occur when change a map in inline editor (special label)
532341	[WBID1761576346] (ExCLDTKeyNotFound) Key not found.
532398	Message box doesn't appear on right context click on label present in the VSD for the second time
532612	MCE - Polling rasters for MCE measurements are not disabled in VSD after loading experiment
532616	A2L Subset generator writes a broken A2L if IF_DATA XCP is used at a measurement
532838	EE V3.7: Osci has problems with fast task times (100 us)
532975	Device 2 TC26x PD und ED still not supported by XETK-S30 and BR_XETK-S1. Note: Solved with ETK Tools V4.1.3
532979	RP_Systems - New IP RP Adress handling: Assigning a IP Address which is already assigned a conflict occurs.
533083	API Method SetProject does not work correctly for EIP
533137	Signed Calibration BIT MASK variables cannot be added to Experiment
533236	INCA: Target server crash observed when PC is sent to sleep during ES891 CAN operation
533242	INCA V7.2.1 beta only: Empty error message opening EE
533249	[WBID2392579348]EtasMultiCombinedCalibrationWidget does not understand checkCanAddDataList:
533336	File type selection in HEX file writing has no effect on target file format
533385	INCA V7.2.1 beta only: Experiment Changing calilbation values of map or curve not possible when prosess Point activation is active
533387	Use of EE with Polling Rater together with ETK blocks recording
533519	[NetWBID2317325126] System.ArgumentException: An item with the same key has already been added.

533525	MCD3 v1: Error "Unable to find Item" when adding an XETK logical link. Note: Solved with INCA V7.2.2 and Test Client 7.2.0_1.0.1
533639	Timestemp of FLX Monitoring over ES891 changing sporadically in reference with FETK signal
533875	Distab Signals can be added on full experiment when filled with TDM
534202	IP RP Systems: Error after assign IP address using FETK in Operation mode "Dynamic emulation"
534329	Label from Autosar 4.x file can be selected only once in INCA
534458	[WBID344994599] - Walkback as soon as CSV file containing variables without values is loaded into CDM
534746	EE: "[WBID3488901860] DEDataCuboid does not understand mceXmlConfigurationCalibrationSignal" can occur when adding special calibration matrix via MCE-VSD
535141	ocdj2534.dll Critical Exception when recording J2534 with GMLAN
535299	[NetWBID547477226] System.InvalidOperationException: An error occurred while processing this value. See InnerException property for more information
535536	CDM does not detect all differences after calibration values changed in the EE in case of grouped ECUs
535650	"time stamped mode" (TIMESTAMP_SUPPORTED block) in XCPonCAN
535697	The separator line is missing in the combined editor
535840	Flashing FETK Device over CAN port is not possible
535841	XETK-S20: Not possible to calibrate in INCA due to errorneous CpuDescription.xml for IFX TC26x Production Device
536106	[NetWBID1185063379] System.NullReferenceException: Object reference not set to an instance of an object.
536107	INCA-EIP: ENUM bounds of Simulink Variable cannot be deleted
536690	LERT: If reconfiguration of dynamic emulation RAM fails, the value on RP changes in database
537460	EE : Trigger signals can be created with same names
537480	INCA Help still contains description about activated enviroment --> DBB
537653	EE : It is possible to create triggers using a calculated signal which contains slewing variable
537687	Wrong A2l file created by XCT Configuration tool. Note: Solved with ETK Tool V4.1.3 (part of the INCA V7.2 SP2)
537953	MCE_FETK : Cannot add measure labels to MCE Configuration
538130	Re-INIT in INCA works incorrect for KWPonCAN-ECU
538143	ASAP3 Client installation fails on PC with no previous INCA installation
538292	INCA Help Translation wrong in "Einstellung für Vergleich: Allgemein-Genauigkeit"
539080	XCP on Ethernet does not start recording
539605	XCPonCAN - Raster fill level is not available.
539801	MIP AddOn is not able to check out the Lizense from server.
540061	[NetWBID2317325126]System.ArgumentException: Ein Element mit dem gleichen Schlüssel wurde bereits hinzugefügt.
540170	INCA interface language is changed from Japanese to English if re-install mode of SP is chosen
540246	ETK-S22 RH850/C1H Core2 support. Note: Solved with ETK Tools V4.1.3; INCA V7.2.2 and HSP V11.2.0
540568	[WBID3932738423] UndefinedObject does not understand device on replace systems
541232	COM API converting address values greater than 0x7FFFFFF to negative values - causing UFE to fail
541417	UDS service 0x36 Transfer Data is sent without response from ECU

541784	MultiRaster: In case of "MultiRaster Measurement" one or more (few) measurement pairs (samples) after the first timestamp are not displayed/recorded, which will lead to a small gap (one or some samples) after the first time stamp
542140	[WBID3195057862] receiver must be a boolean. Note: Issue with INCA V7.2.2 beta 124-130 only.
542787	Key Variable List behaves strange in INCA V7.2.2 Beta
542826	If KVL with state measure recording only is added an empty layer is created
543192	Key Variable List: Does not work with default multi rates with INCA V7.2.2 Beta

5.34 INCA V7.2.1 HF1

See section INCA V7.2.1, please.

Additionally one important issue is solved.

5.34.1 Bug Fix and Improvement

- #541232 COM API converting address values greater than 0x7FFFFFF to negative values - causing UFE to fail.

5.35 INCA V7.2.1

5.35.1 Recommended Installation

It is recommended to update INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack installer.

Very important: After the installation a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.35.2 New Features

See What's News slides INCA V7.2:

- INCA-V7.2 SP1 -Whats-new.pdf: News of the current INCA Service Pack.

Important

- New License Keys for INCA 7.2 and additional license types for INCA-FLEXRAY and INCA-LIN required.

For further and detailed information see also *What's New* slides.

Phase Out Information

- With INCA V7.2 the Add-on INCA-VLINK will be discontinued
- Maintenance stop for INCA under Windows Vista

  - Microsoft announced the end of the Extended Support for Windows Vista by 11th of April 2017 http://windows.microsoft.com/en-us/windows/lifecycle
  - ETAS will stop the INCA maintenance for Windows Vista by 11thof April 2017 too
- ETAS continues INCA V7.1 by INCA V7.2
  With the release of INCA V7.2
  - New features and bug fixes are delivered with Service Packs for INCA V7.2
  - For INCA V7.1 there will be no more updates
- INCA V7.2
  - Available for all users with Service Contract free of charge
  - Now with MSI Installer
  - Installable in parallel to INCA V7.1
  - New license keys that support INCA V7.2 down to INCA V6

5.35.3 Known issues of INCA V7.2.1 – Important Hints

- #533137 Signed Calibration BIT MASK variables cannot be added to Experiment and unexpected calibration changes.
  Behavior with INCA Version lower than INCA V7.2.0:
  When calibrating a Signed Calibration value with BIT MASK, it is expected that only the bit is calibration. But the complete Byte was changed, leading to unexpected calibration changes.
  This was changed with INCA V7.2.0: The Signed Calibration BIT MASK variables cannot be added to Experiment any longer. This will be fixed with INCA V7.2.1.
- #530572 Polling mode of GMLAN shows different measurement compared to time-equidistant sampling rate slow/medium/fast
  Wrong measurements might be the result.
  This is not new with INCA V7.2.1 but a general issue with Polling Mode and GMLAN.
  Currently under investigation – Status: Faulty A2L in combination with the engineering add-on might cause the issue. No issue with INCA.
- #484654 It is possible to add a stack device for ES891 in INCA HWC even though stack functionality is not supported
  Even though the workflow of adding stacked ES89x modules is already available in the INCA Hardware Configuration, this scenario is currently not yet supported.

5.35.4 Known issues solved with INCA V7.2.1

- Two important ETK issues reported with INCA V7.2.0 and higher:
  Currently usage of ETKs with INCA V7.2.0 is not recommended.
  Solved with INCA V7.2.1 Beta 212 and higher.
  #531041 ETK: Distab13 with multiple used addresses leads to wrong behavior of INCA
  (KIR-issue, see also ETAS Download Page)
  Detailed description:
  IF
  an ETK (not FETK/XETK) is connected with an interface device,

e.g. ES910, ES59x or ES1000 System (but not ES89x)
AND
the ECU project uses DISTAB13 or DISTAB13 Accumulated or DISTAB16
(but not DISTAB17)
AND
multiple measurements use the same address (e.g. multiple logical measurements with different bitmask)
THEN
INCA will display and record wrong measurements.
Furthermore, also the engine may stall.

Note: This is not an issue with FETK or XETK.

#530955 Wrong Measure Values with ETK for Labels in external RAM
(KIR-issue, see also ETAS Download Page)
Detailed description:
IF
an ETK (not FETK/XETK) is connected with an interface device,
e.g. ES910, ES59x or ES1000 System (but not ES89x)
AND
the ECU project uses AML IF_DATA ETK (but not AML IF_DATA ETK_XETK)
AND
the ECU project uses DISTAB13 or DISTAB13 Accumulated or DISTAB16
(but not DISTAB17)
AND
measurements are located in external memory (example: Infineon OLDA mapped to parallel ETK)
THEN
INCA will display and record wrong measurements.
Furthermore, also the engine may stall.

Note: This is not an issue with FETK or XETK.

- Issues with ETK Raster Check reported with INCA 7.2.1 Beta are solved with INCA 7.2.1 Beta 221 and higher:
  - TFS #530722 ETK Rasters supported in INCA v7.2.0 are not supported in INCA v7.2.1 (Measurement variables are automatically removed from those raster by INCA)
  - TFS #529737 TX_ETK Raster Check: Less variables are added to experiment using INCA7.2.1 compared to INCA7.2.0
  - TFS #527899 [FETK-T1: Measurement / Rastercheck] Measurements are set to inactive when loading exisitng INCA Experiment
- #535536 CDM does not detect all differences after calibration values changed in the EE in case of grouped ECUs
  Detailed description:
  If
  INCA-CDM is used/opened in INCA-EE
  AND
  used project is of type grouped ECU

AND
in the EE Calibration values of the 2nd ECU (not direct coupled to CDM) are changed
THEN
CDM does not display all differences.
List action in CDM shows the not updated CDM result, not the real result (like in EE)

Workaround: This is an update issue. If the page is switched to the RP the difference gets detected.

- #531328 Side-by-side Installation of INCA 7.2.1 and INCA 7.1.10 HF3 doesn't work (Target server crash for INCA 7.1)
  The fix will ensure that INCA 7.2.1 (and all newer INCA versions) will not harm any INCA 7.1.x, i.e. side-by-side is possible again with J1939.
  BUT: If already a previous installed INCA 7.2.0 version damaged the J1939 monitoring in INCA 7.1.x, there is no "healing" of the damaged INCA 7.1.x by installing INCA 7.2.1 (or newer) possible.
  Hence, once INCA 7.1.x J1939 was damaged, it can only be solved by re-installation of INCA 7.1.x

5.35.5 Bug Fixes and Improvements

- Note:
  - Some fixes are solved with the corresponding INCA – Add-Ons (also part of the INCA Service Pack (SP)
  - EHI calls are listed in increasing order

EHI #	Title
257786	CDM does not output Japanese comment of QM Basic with CDF
276090	EE: Exception on recording when 4GB file size reached
347434	Juddering oscilloscope with unplugged CCP to ES593-D. Note: Already solved with INCA 7.1.10.
365932	CDM: Possible that Axis Values are not visible in the Inline Editor
370620	Error in creating hw access message in CDM
394889	[WBID559360980] UndefinedObject does not understand timeSignal
396134	10 x NetWBID2774630732] System.AggregateException: One or more errors occurred
398009	[WBID2631215306] UndefinedObject does not understand cellValueCallbackData
400910	Opening the experiment INCA jumps back to main window. Note: Already solved with INCA 7.2.0
403532	[WBID3584971977] receiver must be a boolean. Note: The issue was already solved with a former INCA Version.
407272	[WBID3714669044] Attachment widget is not in children tree of Form
407971	Open EE: [WBID302089311] IDispatch call returned an exception. ErrorCode: 0x80131600 Source: Etas.Base.Shared. ExceptionInDotNETCOMServer_KeyWord - NetWBID2170833997
408130	No measure values after set calc. signal to fixed rate 100ms. Note: Already solved with INCA 7.2.0
409407	[WBID2980831158] UndefinedObject does not understand metaObject
416323	[WBID1213444697] UndefinedObject does not understand setPreviousArrayCompareResult:
419106	INCA gives warning if BIT_MASK is used with MATRIX_DIM.

420947	[WBID871967868] MCSInactiveMeasureElementObject does not understand canRemoveFromDefaultRecorderUseAcquisitionDict:
424167	[WBID1979731506] UndefinedObject does not understand parent
427938	Fixed strings are used in "Channels" tab of ES630 in the HWC
428433	[WBID2099843610] Invalid operation during callback
440233	Slew values like 'Absolute' and 'Modify' cannot be changed with function keys F6/F7. Note: Solved with INCA V7.2.1 and Slewing Toolbox V7.2.1
443785	[WBID1554325446] EtasSingleWidgetUserInterfaceModel does not understand updateView
447552	[NetWBID2875227278] System.InvalidOperationException: Can not find raster '100ms time synchronous\XETK:1' for device 'XETK:1'
447697	Problems with CAN-Monitoring if the CAN Frame on the bus is shorter than the DLC in DBC file
450884	COM API/MIP Support of 32Bit and 64Bit clients
454159	[WBID3171140056] Array does not understand fontStruct.
456658	GetSupportedFlashPortNames does not work correctly for ETK devices with ETK_XETK aml
462233	Refresh function in Calibration Scenario Editor don't work correctly after value change. Note: Already solved with INCA 7.2.0
464300	MDF 4.1 wrong source information using CAN Monitoring
464448	K-LINE: Wrong Checksum '0xDEA5' is shown instead of 'unknown' Checksum
464692	Endless Error message if more than 1024&siganls/bytes are configured and a measurment was started
469508	EE : Inactive variables becomes active after reopening EE
478419	LABCAR V5.4.0: Experiment Download failed after 256 times of success
481151	Datafreeze on RP only possible, if checksum already matches
483482	EE: Labels gets missing from widget from when labels are made inactive and active again
486604	[WBID1058018630] EtasWorkbaseAccessDeviceCMDOpenInEE does not understand aramPage
487734	[WBID317219947]EtasDataItemWidget does not understand uiController
488570	LIN Monitoring does sporadically not reconnect on disconnecting the Ethernet cable
488876	[NetWBID4060493836] System.InvalidOperationException: Recorder collection is not initialized
489236	[WBID3535639066] Primitive failed in: RBLzssDLL32>>#ZipToMemory:srcBlockLen:zippedBlock:zippedBlockLen: due to Invalid class in argument 1
490152	CANTransmit: CanTransmit add-on is sending out incorrect data
490895	Within a VUI it is not possible to use limit controls in measure tables
492199	[WBID4020923821] UndefinedObject does not understand readOnly
492428	"[WBID2218725392] UndefinedObject does not understand argumentCount" occurs when changing measure tables to YT-Oscis in VSD
492661	If once a corrupt db is accessed, INCA cannot switch to a different db. Note: Already solve with INCA 7.2.0
493255	[WBID1325297604] ExtensionPointConcreteUIIntegration class does not understand logLine: - on importing QM data via eCDM adapter
495672	ETK-S22: ERAM of RH850 FCC1 2nd Cut could not be configured with 32kByte
497767	ASAP3 - EXTENDED GET PARAMETER FROM AP-S does not work for Labels with VTAB
497828	[WBID1573155242] UndefinedObject does not understand isMasterData
501838	HWC settings are reset when switching between ETK projects
502499	Signals from XCP over Ethernet device show time shift in recorded DAT file
504760	INCA (SP) installation doesn't always install HighResTimer correctly
505348	IPMServer.exe process does not close itself if not needed anymore or if ASCET is closed

505788	INCA Crash due to COM exception
506090	Opening an Experiment Created with Dual Mode ETK and ES891 takes over an hour to open with ES595 hardware .
506390	[WBID4294461600] MCSExperimentDummyWidget does not understand widgetTable. INCA crashes while opening VSD after switching between layers
506541	Crash in INCA when importing experiment with large FlexRay Fibex projectiunder COM API control
506542	VSD: panel record only is not updated when set labels in variable configuration and check in experiment\Record only in Display Configuration
506683	Visualization of active MCE Labels in EE
506892	[NetWBID4128021846]System.IO.DirectoryNotFoundException: Could not find a part of the path 'C:\ETASData\INCA7.1\Instruments\DGS.Snoopy\LambdaSondeData\SnoopySignalFile.txt'. Note: This wbk is caused by an exception in an customer widget:
506917	Targetserver crash during HiL test
507052	INCA crashes on switching from ECU to RP target in experiment environment
507997	Not able to delete the labelnames present in the dropdown of CombinedEditorVui using Hotkeys
508941	XCP: INCA does not verify if the address of the ODT Entry fits to the A2L information for predefined DAQs by using optional READ_DAQ command
509056	ExperimentEnvironment] using RAMCals (Calibration of Measurements) in EE slows down performance significantly
509132	EE_YT-Oscilloscope in Wrap Around Curtain-Mode: signals disappear when cursor is moved in legend or Y-axis field
509973	INCA hangs using too large experiments
510499	Inform user if TargetServer is running only on one core (EtasTime installation problem)
510671	[WBID971953003] UndefinedObject does not understand getASAP2:
510899	[WBID1429742129] UndefinedObject does not understand updateMdfConfigurationInfo
511041	EE: Possible during the usage of the mouse wheel the minimized widgets on the bottom are moving up and down
511328	[WBID1470286280] CfsError does not understand nextPutAll:
511333	[WBID1532841707]EsAtom does not understand getDataConfigFromDataOptionEntries:
511339	EE_VSD: mouse pointer disappears when move it to right blue area in raster selection in variable configuration
511772	[WBID2257810757] Primitive failed in: Object>>#at:put: due to Index out of range in argument 1
511851	Tgtsvr crash - EtasAcqBuffer.dll access violation
512103	Window positions in EE changed when saving
512223	EE: After removing components from the EE via VSD not all VSD Tabs are updated correctly
512271	[WBID2805338833] Primitive failed in: Object>>#at: due to Index out of range in argument 1
512277	ASAMMCD3v22:Create Logicallink with XCPonCAN -> Return Message "Object not found" but is available
512498	CDM: Variables selected by applying LAB file are not sorted in arphabetical order.
512592	[WBID3528519752]UndefinedObject does not understand <= Note: Already solved with INCA 7.2.0
512651	[WBID411879524] UndefinedObject does not understand <= - Note: Already solved with INCA 7.2.0
512667	CDM Outputpath: Possible that Path Name is changed after open CDM Settings
513504	INCA-loaded packages are loaded twice and without version.
513515	EE: Lab file created from Recorder event viewer is wrong

513566	ES520: Long reinitialization time after power reconnecting of ES520 and callstack error if HW-state window is opened
513673	Importing dataset with QM data and no QM addon installed takes minutes
514025	VSD : Replacing A2l file does not overwrite the rasters
514272	Online help - CDM Settings for Comparisons - General
514490	Calibration not possible with INCA 7.1.9 because customer ECU does not support XCP SHORT_DOWNLOAD
514897	[WBID2249994343]UndefinedObject does not understand swInstancePropsVariantList
514984	[WBID1323697492]Primitive failed in: Object>>#at: due to Index out of range in argument 1
514985	Experiment convert: measurements with multirate does not work
514987	HWC: [WBID2453370897] Primitive failed in: Object>>#at: due to Index out of range in argument 1: INCA crashes when trying to change formula type to 'Interpolating table'.
515163	J1939 monitoring: Exception thrown in the Configuration module on the delete action
515389	FETK-\w\d and dmETK-S\d: ECU detection does not work
515399	ES89x Flash-Port- ETK is not available
515492	Separation time (MIN_ST) is ignored. Note: Solved with INCA 7.2.0
515768	INCA 7.2.0: Baudrate cannot be switched by ProF if already initialized by INCA with XCP
515794	RESERVED_MEMORY is not being respected for the E01 controller
515879	[WBID3620563875] UndefinedObject does not understand selections:
515898	New button "Browse" in CDM - "Start Action" group field not traslated.
516230	When recording MDF4 files with CAN monitoring, the group path should state "Message" instead of "MESSAGE".
516231	MDF4: Naming CAN-Monitoring
516233	Naming of polling signals in MDF4
516234	Naming of calculated signals in MDF4
516354	BR_XETK MCE: Unknown MCE Error Code during use of iLinkRT
516476	Measure Table: Bound Range is wrong for data representation "hex"
516597	Copy Action in CDM via Ctrl+C and per Button is not consistent in case Dynamic EMU RAM is set
516708	[WBID1987177150]UndefinedObject does not understand <=
516880	[WBID2041800494]UndefinedObject does not understand lockedColumns - Note: Already solved with INCA 7.2.0
516896	CDM List action API throws a walkback: " [WBID3982125402] MessageNotUnderstood: ETASBinaryHexFile>>copyFrom:to: " when the API List action is performed
516935	ES415: sampling rates >10kHz do not work via XCP on Ethernet. Note: No longer reproducible with new computers.
516937	Arrays are not correctly replaced in the experiment.
516940	KWPonCAN-Checksum-calculation on ECU-pages doesn't work
517113	XCPonTCP: TargetServer crash with large experiment
517598	EE : Raster names of measurement of calibration written wrongly in the lab file
517815	[WBID2582601486]ASAP2Label class does not understand ErrorLog: -- when adding all labels to Experiment
517967	Bubble help for Inactive icons in the experiment layer tab not active
518038	"Use dataset path"/"Use project path" in QMD option does no add the path for the dataset
518391	Sporadic issue: 'IPM server has stopped working' issue is appearing while executing some of scripts.
518776	API: crash after bad association between HW protocol and project ->WBID4049722526 [WBID3379312075] (ExCPMStackOverflow) A stack overflow has occurred.
518870	[WBID3837677840] Primitive failed in: Object>>#at: due to Index out of range in argument 1

519087	[WBID3803771441]UndefinedObject does not understand do: - Note: Already solved with INCA 7.2.0
519478	CDM editor window does not open while double click on variable
519805	INCA-EIP SBB FETK: INCA reports no error on interrupt connection between RP Model and FETK
520064	Tgtsvr Crash exeption C0x00005 when starting measure via API with MDG1
520202	[WBID3150999529] - UndefinedObject does not understand isMeasurement - INCA crashes with "Experiment -> Save AS" during execution.
520530	Only "Browse" button is displayed in English on CDM with Japanese Language.
520698	EE, MCE:After Postdrive and restart of Igniton -> no measurements are shown if iLinkRT is used with XETKV2.0. Note: Solved with HSP V11.1.0
520740	INCA crashes after connection loss with ES523
520778	At Japanese Language INCA, Filed name of Output file properties shows in English Languagae after stop the recording.
521042	Problem in INCA: crashes of TargetServer while using INCA experiment
521114	[NetWBID2622521682] System.InvalidOperationException: Collection was modified; enumeration operation may not execute. Note: Issue with customer code.
521124	Crash initializing ETKS20.1 HW - pattern length of 0x24
521508	Installation INCA Addon MIP: There should be a check that INCA is installed before installing the AddOn
521637	[WBID649928435] Primitive failed in: ByteArray>>#uint8At: due to Object size is invalid in receiver
521912	Service pack installer crashes while creation of configuration
522111	Flashing with delphi ECU failed. Closed with recommendation (same like #356881)
522124	Support of more than 1024 bytes for ETK raster for MCE
522396	Memory access violation in fibex dlls
522542	Crash of INCA with ES891 during communication initialization
522732	NCA crash (WBID1278124152) when you press data selection. Note: Already solved with INCA 7.2.0
522749	CanTransmit - CanTransmit does not initialize with ES1222. Note: Solved with 7.2.0
522784	After changing Workspace twice HW can´t be found. Note: Already solved with INCA 7.2.0
522842	[NetWBID1868715699]System.ArgumentOutOfRangeException: Number was less than the array's lower bound in the first dimension. Note: Root cause is customer code.
522905	[WBID1048215998] UndefinedObject does not understand appendToHistory:
523147	LiMa window cannot be resized freely (only lower-right corner works for resizing)
523195	Subfunctions is not visible at VSD if the user types the name of function
523229	[WBID2207291532] UndefinedObject does not understand config
523230	Reading A2L file breaks because enum is given as number
523344	[WBID171587922] Primitive failed in: Object>>#at: due to Index out of range in argument 1
523490	HIL/Bench: EtasAcqBuffer.dll: Critical Exception 0xC000005
523517	Slewing AddOn: INCA Crash when switching from WP to RP [WBID442183101] (ExCLDTIndexOutOfRange) Index out of range.
523529	INCA-HWC-settings are changed during assigning of project. (ETK-proejct)
523687	CDM: "[WBID1590134510] (ExError) An error has occurred." occured during cdm copy action
523746	XETK-S20: Enable fixed/static overlay with INCA (likewise XETK-S21)
523861	INCA7.2.1 and INCA7.1.10 can be run concurrently
523925	Brain Dead Recovery inoperable with S96 controller in INCA 7.1 and INCA 7.2
523996	PaCo/CDM: [WBID257661807] UndefinedObject does not understand dataElement:
524020	ETK Prof Command "ETK_FPRG_COMMAND(CHECK_ETK_STATE, ETK_SGENA_ON)" does not work

524067	Default action is download instead of flashing
524183	XETK-S20.1: Prof Control Flows with Ignition-Off-Flashing specific functions based on DataFreeze cannot be executed
524216	CDM: Formats for actions are not reflected correctly when loaded from .ini file in case of "CDF"
524272	MCE: Error occurs using ETKS21 Experiment with BR_XETK S1 and iLinkRT
524522	Label from ARXML file can be selected only once in INCA
524566	Target server crashes after some minutes of measurement - callstack ucrtbase.dll
524575	INCA OpenEE API Assertion at startup when using calibration variables
524840	VSD : Unable to Add layers or widgets in EE after setting the variables inactive
525538	ASAP3/COM-API: CanSwitchMemoryPage returns false for ETKT
525542	ASAM CDF V2.1: INCA shall support the default values for Process Meta Data CALIBRATION_METHODOLOGY according specification
525551	ETAS XCP Starter Kit: Transport Layer Failure message in INCA monitor after XCP slave reconnects
525692	ES720 System Test: ODX action sometimes is not working
525703	[WBID3474634184] Primitive failed in: Object>>#at:put: due to Invalid class in argument 2 // Occured during ASAP3 test
525819	Measurement cannot be started on XCP device - Error during creating measure configuration
526060	Reduce the time to open an experiment created with more performant HW with less performant HW
526342	Missing Shortcuts in new Save Dialog for "No"
527055	ProF commands fail UDSX_VERIFY_MEMORY(_XXX) for certain checksum types
527056	eCDM: [WBID2912623341] Primitive failed in: Object>>#at: due to Index out of range in argument 1
527140	ETK Driver stopps working after multiple calibration accesses, LERAM V2 is in use
527357	EE:"[WBID3475996873] UndefinedObject does not understand allCalibrationLabels" or "[WBID2958447656] Dictionary does not understand isDefaultPort"can occur when switch dataset in HWC||EE
527506	Experiment Change in INCA takes a long time
527780	CAN_MON - OFC: ES590 is disconnected after HW Init + Online Firmware Check
527847	MCE: Invalid MCE Configuration (Problem does not occure if FULI Flag = off)
527887	API assign project to newly created workspace doesnt work anymore
527899	[FETK-T1: Measurement / Rastercheck] Measurements are set to inactive when loading exisitng INCA Experiment
527905	Gap occurs during measurement via XCP on Ethernet (Time jump). Note: Already solved with INCA 7.2.0
528358	Reduce the time form Pressing record start and the sent to recorder
528850	VSD : [NetWBID1263570576] System.InvalidOperationException: Sequence contains no elements --> While clicking on CalcDev/RAMCAL node in Variable Configuration
529206	Target server crashes in roller test benches
529211	Get Recorder Status returns Error Code 60838 using MDF4.1 Files
529261	a1b_XETK.dll Critical Exception when launch Experiment
529288	New Label added to combined editor is not in focus
529643	INCA-SIP V7.2.0 does not work on 32bit windows
529737	ETK Raster Check: Less variables are added to experiment using INCA7.2.1 compared to INCA7.2.0
530437	Exchange Flash-Bit via Handshake not configurable in the FETK-Mode (ETKS20.1)
530722	ETK-S22.0_TX: Rasters supported in INCA v7.2.0 are not supported in INCA v7.2.1 (Measurement variables are automatically removed from those raster by INCA)

530867	MCE: Alphabetic order of MCE signals in the MCE selection window is not possible
530955	Wrong Measure Values with ETK for Labels in external RAM
531038	False positive virus warning for INCA files convert.exe and Cfw.EtasConfigService2.exe (with some scanners) - checked.
531041	Distab13 or Distab 16 with multiple measurement using the same address leads to wrong behavior of INCA
531203	ECU Documentation does not open PDF docu file
531328	Side-by-side Installation of INCA 7.2.1 and INCA 7.1.10 HF3 doesn't work (Target server crash for INCA 7.1)
531442	Not possible to load variables in Experiment
531702	MCE: No measure values in the EE anymore if one signal is added to the MCE configuration
532387	No checksum calculation/Upload possible with XCP if dataset starts on address 0x0
532390	ETK Raster Check: Experiment is not completely loaded
532615	Wrong measure values via CAN-Monitoring after ECU-reset
532618	IPMServer: Auto configuration of the NIC does not work as expected from User defined IP to APIPA configuration
532851	ETK-Tools V4.1 installation fails while ETK Tools V4.0 is installed
532866	No restriction of signals in Distab13-Accumulation projects
533161	Target server crash observed when XETK S4.2 is reset during calibration
533242	INCA V7.2.1 Beta only: Empty error message opening EE
533385	INCA V7.2.1 Beta only: Experiment Changing calilbation values of map or curve not possible when prosess Point activation is active
533518	MCE_iLinkRT : Configuration fails via MCE when adding many labels for measurement\calibration on XCPonCAN
533522	WBID958300512] Primitive failed in: EtasPrimitiveError>>#primitive:withArgument:backUp: due to General protection fault - read from invalid memory location
533524	[WBID4195639978] DBLinDeLinError does not understand devices
533529	INCA 7.2.1 crash by opening EE for ES89X project without connected HW
533828	Flashing via UDSonCAN failed
533875	Distab Signals can be added on full experiment when filled with TDM
533924	[INCA-EIP] Output of function "asdWriteUserError" to INCA monitor doesn't work
533946	INCA V7.2.1 Beta: Targetserver Callstack while opening EE (EtasEth2PcEth.dll: Critical Exeption 0xC00000005)
535536	CDM does not detect all differences after calibration values changed in the EE
535732	INCA 7.2.1 Beta: Programming of ECU is not possible

5.36 INCA V7.2.0 Build 921

5.36.1 Recommended Installation

It is recommended to update INCA V7.2 (including INCA Add-Ons) only with help of the INCA Service Pack installer.

Very important: After the installation a reboot of the computer system is required.
With the MSI-installation technology it is more important not to change any files manually else uninstallation and new installation (update) will very likely fail.

5.36.2 New Features

See What's News slides INCA V7.2:

- INCA-V7.2-Whats-new.pdf: News of the current INCA Service Pack.

Important

For further and detailed information see also *What's New* slides.

- New License Keys for INCA 7.2 and additional license types for INCA-FLEXRAY and INCA-LIN

Phase Out Information

- With INCA V7.2 the Add-on INCA-VLINK will be discontinued
- Maintenance stop for INCA under Windows Vista
  - Microsoft announced the end of the Extended Support for Windows Vista by 11th of April 2017 http://windows.microsoft.com/en-us/windows/lifecycle
  - ETAS will stop the INCA maintenance for Windows Vista by 11thof April 2017 too
- ETAS continues INCA V7.1 by INCA V7.2
  With the release of INCA V7.2
  - New features and bug fixes are delivered with Service Packs for INCA V7.2
  - For INCA V7.1 there will be no more updates
- INCA V7.2
  - Available for all users with Service Contract free of charge
  - Now with MSI Installer
  - Installable in parallel to INCA V7.1
  - New license keys that support INCA V7.2 down to INCA V6

5.36.3 Known issues of INCA V7.2.0 – Important Hints

- INCA Add-Ons (or INCA engineering Add-Ons) which are not part of the INCA Service Pack has to be updated manually to avoid unexpected behavior. Not updated Add-Ons might lead to system errors or wrong results.
- #520749 ES891: FlexRay Mon + dmETK (or FETK) connection might be interrupted after some time of operation.
  Measurement might be interrupted when FLXMon and dmETK (or FETK) is being recorded in parallel. In such case, a new initialization with F3 will reconnect and it is possible to start measurement again.

5.36.4 Known issues solved with INCA V7.2.0

- #523933 ETK - Wrong measure value when 2 measure variable share the same address
  (KIR-issue, see also ETAS Download Page)

Detailed Description:
IF
an ETK (not FETK/XETK) is connected with an interface device,
e.g. ES910, ES59x or ES1000 System (but not ES89x)
AND
multiple measurements use the same address (e.g. multiple logical measurements with different bitmask)
AND
the measurements that use the same address are assigned to the same raster
THEN
only the first measurement of the address delivers correct values. The further measurements with this address deliver wrong values.

Note:
It is no issue with FETK or XETK, or if the ETK is connected with an ES89x.

The issue was introduced with an INCA V7.2.0 beta version and was still an issue with the first released INCA version 7.2.0 Build 899 (and was shipped via special download (ZIP-file). But it was not shipped via mass distribution with the INCA 7.2.0 DVD)

This issue is solved with INCA V7.2.0 Build 921.
To distinguish the INCA Versions the Build number is now also displayed in the INCA Title Bar, the About Dialogue and the Startup Splash Screen. It was already displayed in the INCA Service Pack Installer GUI.

- #523658 INCA AddOn MCE: Wrong measure values on iLinkRT with ETK-S21 (KIR-issue, see also ETAS Download Page)

  Detailed Description:
  If
  the INCA AddOn MCE is used
  AND
  ES910.3 + ETK is used
  AND
  iLinkRT or EtherCAT communication is used
  AND
  two or more measurement signals are used
  THEN
  wrong measure values are send. Value zero in case of two measurements, wrong random values in case of more signals.

  Note:
  It is no issue with FETK or XETK, or if the ETK is connected with an ES89x.

  The issue was introduced with an INCA V7.2.0 beta version and was still an issue with the first released INCA version 7.2.0 Build 899 (and was shipped via special download (ZIP-file). But it was not shipped via mass distribution with the INCA 7.2.0 DVD)

  This issue is solved with INCA V7.2.0 Build 921.
  To distinguish the INCA Versions the Build number is now also displayed in the INCA

Title Bar, the About Dialogue and the Startup Splash Screen. It was already displayed in the INCA Service Pack Installer GUI.

- #461259 After a crash, the automatic repair of the temporarily stored MDF4.x-file might not be possible.
  (KIR-issue, see also ETAS Download Page)

  Detailed Description:

  IF

  INCA V7.1.10 is used for recording

  AND

  the MDF 4.x format is used for the corresponding measure files

  AND

  INCA or the corresponding computer is crashing

  THEN

  after a restart of INCA, the MDF 4.x measured files might not be restored/repaired automatically.
  Note: The files are repaired as well as possible, but not in every case all data can be restored, especially in case of a sudden fail of the computer system (power cut/fail. Check of date files after a repair is necessary.
- #502100 Time-Offset in new Oscilloscope in case of high load INCA Experiment if measurement started the first time
  If an INCA project with a high load experiment is used,
  It might happen that at the first start of measurement, the values of two different signals are displayed with an offset (time shift), even if event happen at the exact same time.
  Note: The data are recorded correctly in the MDF - file.
  Workaround: Stop and start measurement again.
- Windows® 7 SP1 or higher has to be installed before installation of INCA 7.1/7.2
  Else some functionality is not available and INCA will not proper work.
  E.g. reported: # 504364 *Search For Hardware* - No Hardware found.
  The Windows version is now checked before installation.

5.36.5 Bug Fixes and Improvements

- Note:
  - Some fixes are solved with the corresponding INCA – Add-Ons (also part of the INCA Service Pack (SP)
  - EHI calls are listed in increasing order

EHI #	Title
278852	MDF: Calculated singal is not getting recorded in to INCA generated MF4 file

362957	Slew icon doesn't refresh in DBB when state changes in EE unless selected
390754	[WBID3581721586] UndefinedObject does not understand createKey:forKey:in:
394622	[WBID3755036997] IDispatch call returned an exception. ErrorCode: 0x80131600 Source: Etas.Base.Shared. ExceptionInDotNETCOMServer_KeyWord - NetWBID1469293380
394735	[WBID1250466526] Exception in UI process
395441	[NetWBID3051776007] System.NullReferenceException: Object reference not set to an instance of an object.
396424	[WBID1231924327] IDispatch call returned an exception. ErrorCode: 0x80131600 Source: Etas.Base.Shared. ExceptionInDotNETCOMServer_KeyWord - NetWBID3272684103
396549	[NetWBID2556036836] System.InvalidOperationException: Collection was modified; enumeration operation may not execute.
400722	[NetWBID642990540] WBs solved
402798	[WBID965162006] IDispatch call returned an exception. ErrorCode: 0x80131600 Source: Etas.Base.Shared. ExceptionInDotNETCOMServer_KeyWord - NetWBID2174850330
403240	[WBID400363340] UndefinedObject does not understand toolNamed:
403574	[NetWBID1195341196] System.InvalidOperationException: Die Auflistung wurde geändert. Der Enumerationsvorgang kann möglicherweise nicht ausgeführt werden.
403610	[WBID231968107] UndefinedObject does not understand <=
405354	[WBID4138671211] MCSInactiveSubwidgetObject class does not understand defaultDataConfigObjectClass
405618	[WBID1351596878] IDispatch call returned an exception. ErrorCode: 0x80131600 Source: Etas.Base.Shared. ExceptionInDotNETCOMServer_KeyWord - NetWBID3376827096 For details see: c:\eng_apps\ETAS\LogFiles\INCA\walkback\net000002.netwkb
409889	[WBID888291815] MCSDSMUIController does not understand notifyRemoveWindow:
412719	[WBID4271491158] Primitive failed in: Object>>#at: due to Index out of range in argument 1
413473	[WBID3422674492] UndefinedObject does not understand isVariableDocumentationPossible
413911	[WBID3223722161] UndefinedObject does not understand getPalette
414712	Shortkey (Alt+s)for storing a measurement missing.
414967	[WBID3660405463] UndefinedObject does not understand do:
416323	[WBID1213444697] UndefinedObject does not understand setPreviousArrayCompareResult:
418355	[WBID3593643090] Primitive failed in: String>>#at: due to Index out of range in argument 1
420855	[WBID1071705497] UndefinedObject does not understand errorValue
424126	[WBID3753871432] IDispatch call returned an exception. ErrorCode: 0x80131600 Source: Etas.Base.Shared. ExceptionInDotNETCOMServer_KeyWord - NetWBID2754188173
424167	[WBID1979731506] UndefinedObject does not understand parent
425697	[WBID4047091332] UndefinedObject does not understand fontStruct
427364	[WBID1768713564] Primitive failed in: Object>>#at: due to Index out of range in argument 1
429855	[NetWBID2832061043] System.InvalidOperationException: Element 'B_fbs4_frei\XCP:1' not found in variable configuration. Note: Solved with INCA 7.1 SP10

430126	Performance of INCA checksum calculation for XCP has slightly improved by reducing the number of SET_MTA commands to a minimum
430745	NetWB while initialazing the HW - [NetWBID3674325186] System.Runtime.InteropServices.COMException: <LOCALIZED>Legacy access is not possible</LOCALIZED><HRESULT>0x80004005</HRESULT>
431235	EE_VUI: drag and drop and move between 2 VUI->calibrations windows does not work anymore
432772	[WBID4242552668] Primitive failed in: Object>>#at: due to Index out of range in argument
434005	Wrong Display Name
434758	[WBID1201862911] IDispatch call returned an exception. ErrorCode: 0x80131600 Source: Etas.Base.Shared. ExceptionInDotNETCOMServer_KeyWord - NetWBID3157281261
435963	[NetWBID4241250787] System.InvalidOperationException: Collection was modified; enumeration operation may not execute.
436393	ETK Tool: XCT V4.0 Critical exception
436951	[NetWBID2660707935] System.InvalidOperationException: No support of simultaneous revokes.
437340	[WBID665088022] UndefinedObject does not understand includesSubstring:
437649	[WBID2209574696] UndefinedObject does not understand getRecordLayout
438093	[WBID2791182203] EtasL1AccessScalar does not understand memorySize - when search for string in ASAP2Editor
440585	EE: Possible that not polling rasters cannot set anymore in VSD after change device name in EE->HWC
441333	[WBID2672450412] (ExCLDTIndexOutOfRange) Index out of range.
442057	Eperiment "Error" Window not displayed correctly if changing the display resolution
446528	[WBID1117880624] UndefinedObject does not understand fileDevices
446715	[WBID1315803095] Primitive failed in: RBBcrtl32DLL>>#string:includes: due to Invalid class in argument 1
448673	CCP: INCA does not send 'Disconnect' via ES581.3, ES581.4 and VN8970 when receiving 'Command Processor Busy' from ECU
450186	[WBID1500823568] SmallInteger does not understand first
450207	ASAP3:The Commands SELECT_DES_AND_BIN and DEFINE_DES_AND_BIN didn't update the selected binary name
450240	[WBID3348038141] LargeCapacitySet does not understand closeWorkbase
450617	Problem for INCA installation to recognize amount of space in Hard Disk very big
450881	Support of more than 1024 bytes for ETK raster for MCE
450921	OpenEE :Incorrect values returned in Z Axis for a Complex label Instrument with variable Cuboid xcom_ycom_zcom_wS16.
451091	[NetWBID4135823099] - System.ArgumentNullException: Value cannot be null
451360	[WBID2576826563] (ExCLDTIndexOutOfRange) Index out of range.
451361	[WBID3800607791] (ExCLDTIndexOutOfRange) Index out of range.
452780	IC2 uses an empty Pointer Table in case the automatic firmware check is enabled
453724	Large number of inactive variables in experiment and unable to delete until assign to a raster
454597	[WBID1440714974] UndefinedObject does not understand setTextColor:
454798	[WBID2432646567] UndefinedObject does not understand selectObject:
455433	J1939 Monitoring does not work with the attached DBC file.

457424	[WBID1517244915] EtasEULayer does not understand windowsSurroundingRect:
458002	RTOSCI: "[NetWBID3707908581] System.NullReferenceException: Object reference not set to an instance of an object." when change measure rate in osci AND device name in HWC
458508	If new YT-scope is in use in the VUI-window then the adding of calibration signals is not possible during recording.
458768	[WBID2944780402] UndefinedObject does not understand <=
458909	[WBID3848436857] (ExCLDTIndexOutOfRange) Index out of range.
459334	[WBID887186863] LargeCapacitySet does not understand closeWorkbase
459799	[WBID1851436125] UndefinedObject does not understand deferRedraw:
460116	[WBID2802605311] Primitive failed in: Object>>#at:put: due to Index out of range in argument 1
461259	MDF 4 and MDF 4.1 Measure File flushing depends on data size not on time and INCA 7.1.10: After a crash the automatic repair of the temporarily stored MDF4.x-file is not possible.
462071	[WBID1139511006] UndefinedObject does not understand anyMask:
464292	MDF 4.1 wrong source information using CCP
464300	MDF 4.1 wrong source information using CAN Monitoring
464309	MDF 4.1 wrong source information using analog signals (e.g.ES4xx)
464317	MDF 4.1 Standard Indexing Reduction Factor is to small: Default value changed to 16
464605	New method of the automation interface (downloadDatasetV2) to avoid EIP issues when reading data from DCM. Note: Requires INCA Add-On EIP V7.2.0 (part of INCA 7.2.0 SP)
464692	Endless Error message if more than 1024&siganls/bytes are configured and a measurment was started
466368	IC2: Endless loop on switch to WP after cancel flashing
466665	[WBID587750954] UndefinedObject does not understand formatLastDigits
466902	IC2: Pointertable is different depending on intermediate EE close action
468282	[WBID2595328788] EtasAPIError does not understand select:
470958	ASAM-MCD3 V1.0.1: Fixed issue that no Logical Links Names for LIN-Monitoring have been returned
472217	[WBID4204759026] (ExCLDTIndexOutOfRange) Index out of range.
472519	ES720: Lost measure files when INCA crash during stop measurement - restoration failes
473473	Sporadic TgtSvrMeasureFileMergingServer crash
473482	[WBID4222635] UndefinedObject does not understand <=
474641	Test bench stops operation because after cooling phase data from synch raster is missing
474936	[WBID1267480796] Exception is not resumable
475092	FETK-S1/2 were not detected by XCT when INCA is active
475127	J2602 LIN Monitoring does not display values for variables of LIN slave
475666	[WBID3954253057] receiver must be a boolean
478321	API Method for flashing give no return value, if flashing fails for XCP device
478438	Slew: Slew range is not zeroed when hex file is read into existing project
478544	MCE: XETK can not transfer more than 1024 signals per raster via ILink
479270	cn_precision field in MDF4.x files should not be filled with "48" but with 0xFF
481088	INCA surface freezes with Oszi in Trigger mode and ES415 as input
481138	INCA online help of user option "Allow Adjustable Objects to be edited" improved. New: Calibration variables and record layouts can be adjusted.

483329	Error if set the alias name for ES590 / ES591 / ES690
484224	CCP Usibility After reconnect and restart measuremnt EE indicates "device off"
484692	[WBID2379529958] MCSExperimentDummyWidget does not understand attachmentsWithUnit
484878	[WBID3374760210]String does not understand deviceName
485536	XCP Raster Check: Inconsistent handling of duplicated signals.
486489	Simultaneous calibration of many variables takes long time
486604	[WBID1058018630] EtasWorkbaseAccessDeviceCMDOpenInEE does not understand aramPage
486663	J1939: Walkback when assigning customer DBC file to J1939 device in HWC
486718	Wrong message window in CDM while copying a function
486977	XCP Raster Check: Duplicated signals can not be selected if the raster is full, with dynamic DAQ lists
487154	[WBID1739548824] IDispatch call returned an exception. ErrorCode: 0x80070057 Source: Etas.EE.EmuRamSegmentCalculator. A passed address range is not contained in configured data segments.
487701	XETK-S21: Unable to set fixed overlay layout for Eiger. Note: Solved with INCA 7.1 SP10
488076	[WBID1860106364] UndefinedObject does not understand shell
488217	[WBID1188624608]UndefinedObject does not understand getOID
488526	XCP Raster Check: Signals with the same name will be mistakenly deleted with dynamic DAQ lists.
488803	Unexpected Cascading of Measure Dat files in ASAP3 Mode with Standrad INCA Recorder in case of space in path
488997	[WBID1711734514] (ExError) An error has occurred.
489615	LDF-File cannot be used in INCA in case of 24bit values
490679	INCA hangs when opening blank experiment with specific XCP project (a2l project with no memorySegments and a large number of dependent parameters)
490750	[WBID4052002637]UndefinedObject does not understand isValidCalibration
490822	XCP Flashing: seed&key dll in ProF command XCPX_UNLOCK is ignored
490866	KWP RasterCheck: Find out already existing signals (consistent to the way XCP recognizes equal signals, but no longer by comparing the signal names)
491022	[WBID623720846] EtasContainerMeasureWidgetModel does not understand getCEEType" can occur when drag and drop labels from (vui)osci to measure window
491266	[WBID3902073026] UndefinedObject does not understand <=
491329	The fibex file is missing after export in INCA.
491343	ES891 : Initialize HW not possible - A1B CAN FD Mon provides unknown fatal error
491352	[WBID2756377533] Primitive failed in: ByteArray>>#uint16At:put: due to Invalid class in argument 2 - When selecting a calibration label
491676	HWC: Remote access: After power switch: FETK-S1 show XETK Communication ECU-RESET Dialog. Remote-control of this button is not possible
491744	[WBID3897217565] UndefinedObject does not understand acquisitionList
492199	[WBID4020923821] UndefinedObject does not understand readOnly
492274	XCP - COPY_CAL_PAGE fails with ES590
492428	"[WBID2218725392] UndefinedObject does not understand argumentCount" occurs when changing measure tables to YT-Oscis in VSD
492529	ETK Tools: FETK-S1/2 were not detected by XCT when INCA is active
492647	In case of corrupt db INCA cannot be closed by API

492650	Timestamp jumps in the INCA measurement with XCPonUDP
492789	[WBID725834825] Primitive failed in: Object>>#at: due to Index out of range in argument 1
492896	XCP Raster Check - Invalid XCP raster fill level (number of ODTs and ODT entries) for 8 byte signals
492912	MDF41: recording with MDF41+compression+standard indexing is larger in INCA 7.1.10 compared to INCA 7.1.9
493166	[WBID362496602]Primitive failed in: Object>>#at: due to Index out of range in argument 1
493271	VSD: Raster preselection failed to retain the state to be checked while reopening after saving the experiment.
493621	[WBID1278124152] (ExCLDTIndexOutOfRange) Index out of range
493660	EE: Wrong Values displayed in Widgets
493678	INCA crashes running ASAP3 script on dyno [WBID1440714974] [WBID3916665634]
494008	install.ini borrow information not written to LicensingRegistryData.xml if multiple products defined
494165	'Init of Etas.DataAccess.PollingMode.16 fails' when opening EE
494599	Targetsever crashes while adding measurment variable to Experiment in "Experiment without full HW-access" mode
494618	[WBID3271075117] UndefinedObject does not understand notifyAllDependentsOfChangedDataset:
494637	IsCalibrationPossible returns wrong value if during first initialization the checksum of WP is not matching
494670	[WBID846878029] EtasRhombusDrawingString does not understand do:
494969	Write protected X-Axis of a table changed via automation interface
494997	CDM assigns "0" values to non-zero fields when reading in csv file
495311	Write protected X-Axis of a table changed via automation interface
496158	Alphabetical order after choosing the variables over VSD are unsorted in the CDM overview
496471	Strange dialog with cryptic messages when adding large number of variables and closing experiments with large number of variables in Recorders
496638	[WBID846878029] EtasRhombusDrawingString does not understand do: - when change the window size
496854	[WBID3646701447] SGExperimentEnvironment does not understand mceDeviceConfigurationClass - Note: Solved with INCA Add-On MCE (part of the INCA SP)
496884	[WBID1789553639] UndefinedObject does not understand selectCells
497555	[WBID1216636155] UndefinedObject does not understand lockedColumns
497694	ToolAPI: IsActive() returns FALSE for OBDonCAN:1#..#Diagnostics Device, though OBDonCAN:1 returns TRUE
497726	[WBID138369464] MCSExperimentDummyWidget does not understand endEdit
498144	[WBID1880099461] RBRenderableBitmapString does not understand do:
498200	VUI: "[WBID55948385] EtasTableMeasureWidgetModel does not understand container:" can occur when make labels active in vui
498308	Time offset in INCA oscilloscope <-> MDF4
498467	Disconnect XCP slave before reconnect
499059	[WBID487141572] EtasAbtShellView does not understand isActiveWindow - When clicking on interpolation button in ASAP2Editor
499062	[WBID3077490204] Primitive failed in: ArrayedCollection class>>#new: due to Invalid class in argument 1

499330	IsCalibrationPossible returns wrong result after CopyReferencePageToWorkingPage for a device
499523	MDF4-file: No formular saved in file, if Signals from the ES610 / ES650 use table formular.
500095	Flashing not working with ES581.3 when moving from INCA 7.1.3 to INCA 7.1.7 and above
500123	No data visualization from ETK-S3 after flash
500268	There is no Singal List in the WWH_OBDonCAN_ETAS.pdx file in ODX-LINK V1.6.1
500496	XCPonCAN: INCA does not read out EPROM ID if it is defined in CODE area.
500546	Calibration sent by "DOWNLOAD" for "not in ECU" calibrations if ECU connected
500552	[WBID1860272552](ExCLDTIndexOutOfRange) Index out of range.
500615	ES593 is not accessible after IP-Reconfiguration in case XCP is used
500656	Missing ETK Synchro Raster in Measure File when using pre start triggering
500671	[WBID1425905538] UndefinedObject does not understand background:
500865	VSD : KWPonCAN Raster Check is wrong
500986	[WBID3969902477] Exception is not resumable - Walkback when perform Copy in CDM
501204	Buslaod calculation for XCPonUDP works inconsistent
501209	EE: "[WBID2879328984] (ExCLDTKeyNotFound) Key not found."can occur when CSE is maximezed and EE->HWC->device name is changed
501491	[WBID3886789397] Primitive failed in: PlatformFunction>>#callWith:with:with:with:with:with: due to Value out of range in argument 2
501905	Problem with write .A2L and .DBC File out of INCA
501924	DBB: "[WBID3893298911] Invalid operation during callback" occurs during bound check with etarget project
502080	CDM: INI files generated from CDM are not saved with the proper data. When reloaded, CDM shows wrong data
502100	Time-Offset in new Oscilloscope in case of high load INCA Experiments if measurement started the first time
502295	EE: YT Oscilloscope V7.1 shows significant delay between synchronous signals from different devices
502317	Wrong size of arrays in VSD
502499	Signals from XCP over Ethernet device show time shift in recorded DAT file
502559	Information in Support Dialog updated
502713	Wrong name displayed in IP-manager window for ES600.2
502777	Exit due to error 53 while importing Workspaces from exp
503180	[WBID541708501]UndefinedObject does not understand osWidget
503268	XETK: Flashing error on the first flash attempt
503501	FETK: Measurement: Start of D17 measurement takes too long. Performance improved.
503506	[WBID2110408474] UndefinedObject does not understand delete
503563	Calibration is not recorded during COM-API-action
503565	[WBID3258470] Exception is not resumable
503577	ES891 CAN: UDS and KWP flash performance slower then ES595 for STmin > 0. Note: Requires update to HSP 11.0.0
503807	[WBID2273692218] UndefinedObject does not understand lockedColumns
504760	INCA (SP) installation doesn't always install HighResTimer correctly
505635	XETK-Tool --> It is not possible to connect ETKs20 via ES891

505948	[WBID665088022]UndefinedObject does not understand includesSubstring:
506044	[WBID27996955] UndefinedObject does not understand drawIcon:x:y:icon:
506090	Opening an Experiment Created with Dual Mode ETK and ES891 takes over an hour to open with ES595 hardware .
506639	A picture on VUI window is movable after drag out a variable on the VUI window.
506792	A2L file causes an INCA crash [WBID1658017603] UndefinedObject does not understand
506938	Open EE without HW connected then initialize HW. Performance initialisation time improved.
507052	INCA crashes on switching from ECU to RP target in experiment environment
507073	[WBID2059076056] Vector does not understand doAll: / [WBID3191362141] Vector does not understand sign
508222	[WBID2639573367] String does not understand sign : INCA crashes when user enters bound range values and clicks on Ok of property dialog
508858	[WBID4054141795]UndefinedObject does not understand getOID
508859	Measure File Comment is not correct if set via ToolAPI SetRecordingHeader() Command
508939	Ethernet System Configuration Dialog displays IP Address backwards with multiple IPM Masters in same Subnet
509165	Integer division inside INCA with wrong result WHEN a division of exactly -1073741824 / 1073741824 is performed. The result is 0 instead of -1.
509227	[WBID2495919304] MCSDSMErrorGeneration does not understand getFast
509326	[WBID1739548824] IDispatch call returned an exception. ErrorCode: 0x80070057 Source: Etas.EE.EmuRamSegmentCalculator.
509367	CDM compare results are different when using CSV file that does not contain axis
509510	Combined Editor Display Mode property not functioning as expected when on RP
510236	[WBID3943421155] UndefinedObject does not understand selectCells
510284	ProF through CCP cannot be performed due to critical exception.
510304	ETK A2L Parser makes error if new line (\r\n) is included into the A2L, but not for XCP A2L.
510471	It is not possible to use XCP on Flexray with V7.1.10 (INCAV7.1.9 - no issue). Important: A2L has to be read again into INCA DB, to assign the project to the device.
510499	Inform user if TargetServer is running only on one core (EtasTime installation problem)
510545	Setup_ServicePack -> It is now possible to define which AddOns should be installed via SP for silent installation
510964	XCPonCAN: No measurement with static (A2L) and dynamic (ECU, in use) DAQ configurations
511018	Autoborrow (Single Shot Borrow) doesn't work.
511123	CDM:[WBID913897056] MCSDSMErrorGeneration does not understand canCalibrate can occur when open an experiment in CDM
511194	XETK - Ignition Off Flashing for MDG1 IFX Device 4 not functional
511200	EE: Possibly getting unexpected Message Box "Overwrite existing item ....." when using Experiment -> Save As
511230	INCA EIP 7.1.11 and ES1000 ES1130/ES1135 data set exchange or initialization does not work
511237	CDM: Unexpected Menu entry found: Actions -> Change Actions -> List to ECDM
511328	[WBID1470286280] CfsError does not understand nextPutAll:

511680	EE: It is possible to remove Measure Signals from an ongoing Recording
512145	Invalid/Incorrect search happens when a junk string is searched in ASAP2Editor
512161	EE : [WBID306560295] UndefinedObject does not understand getDataElementInst
512287	No match calibration signals not added to recoder event viewer - Removed Calibration variable should be present in the recorder event viewer
513264	MDF4.1 requires more disk space for recording
513483	For XETK and FETK/dmETK for IFX Dev4 Controllers Flashing with Ignition Off does not require EcuWatchdog to be disabled by appropriate A2L-config-entry
513654	Flashing without Hardware Access causes TgtSvr crash
513673	Importing dataset with QM data and no QM addon installed takes minutes
513788	Inca crashes when opening VSD
514104	Error while initializing GNSS Device. Recommendation use driver version: 1.2.0.8
514272	Online help - CDM Settings for Comparisons - General
514313	In Case the J1939 dbc file defines signals that only differ in the 3 most significant bits of the 29-bit CAN-ID (i.e. the J1939 priority bits), INCA did not distinguish the corresponding frames, i.e. the priority bits were ignored.
514490	Calibration not possible with INCA 7.1.9 because customer ECU does not support XCP SHORT_DOWNLOAD
514641	INCA 7.2.0 Beta: MIP installation does not run silently
514693	CUBOID refresh problem
514721	Flashen KPW2000 with K-Line does not work
514755	Computer might freeze during recording in case of outdated network card driver. In case update to the latest version.
514985	Experiment convert: measurements with multirate does not work
514990	Flash MDG1 ECU via ES891 and ETK ist not possible (solved with recommendatio)
515768	INCA 7.2.0 beta: Baudrate cannot be switched by ProF if already initialized by INCA with XCP
516228	Error in the Enumeration for si_type (I/O and BUS are exchanged to correspond to the MDF4.x standard)
516230	When recording MDF4 files with CAN monitoring, the group path should state "Message" instead of "MESSAGE".
516476	Measure Table: Bound Range is wrong for data representation "hex"
516708	[WBID1987177150]UndefinedObject does not understand <=
516885	Invalid HW-Configuration using MCE and ASAP3 with Fuli-Flag
516896	CDM List action API throws a walkback: " [WBID3982125402] MessageNotUnderstood: ETASBinaryHexFile>>copyFrom:to: " when the API List action is performed
516937	Arrays are not correctly replaced in the experiment.
516940	KWPonCAN-Checksum-calculation on ECU-pages doesn't work
517006	INCA 7.2.0 beta: New Feature for MCE: Add all Calibrations of Experiment to MCE does not work for Calibrations.
517304	In case of using ProF Flashing without A2L mailbox definition with XETK/FETK before entering the Control Flow the Working Page will be invalidated.
517499	INCA 7.2.0 Beta SP: MDA is not installed with SP installer in silent mode
518199	XCP V1.2 parameters MAX_ODT_TOTAL and MAX_ODT_DAQ_TOTAL are being ignored by INCA
518985	ASAP3: INCA crashes at INIT of ASAP3 API with customer experiment - [WBID4039730748] RBLayoutConfiguration does not understand isDestroyed

519618	[WBID1739548824] IDispatch call returned an exception. ErrorCode: 0x80070057 Source: Etas.EE.EmuRamSegmentCalculator. A passed address range is not contained in configured data segments.

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
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