

INCA Functionality Overview

Change History



General hints for use

This document maps the main INCA features to the INCA versions supporting that feature.

This way you can see at a glance which major changes have been introduced with a new INCA version.

The columns **Feature** and **Sub-Feature** indicate the functionality.

The version columns show in which version the corresponding function is supported:

+ means that the (sub-) feature is supported in the corresponding version.

- means that the (sub-) feature is not supported in the corresponding version.

Component	Feature	Sub-Feature	INCA Version							Note
			V5.3	V5.4	V6.1	V6.2	V6.2.1	V7.0	V7.1	
	General									
General	Electronic Licensing		-	-	+	+	+	+	+	
General	Windows OS	WIN2000	+	+	+	+	+	-	-	
General	Windows OS	XP	+	+	+	+	+	+	+	
General	Windows OS	Vista	-	-	-	-	+	+	+	
General	Windows OS	Windows 7	-	-	-	-	+	+	+	V6.2.1 no silent installation
General	Addressable Memory	Windows 7-64bit Large Address Aware	-	-	-	-	-	-	+	
General	Windows OS	Windows 8	-	-	-	-	-	-	+	with V7.1.2 (SP2)
General	Import/Export User Settings	INCA / CDM configuration	-	-	-	-	-	+	+	
General	Icons	Unified icons in ETAS SW applications	-	-	-	-	-	+	+	
General	Icons	Size customizable	-	-	-	-	-	-	+	
	Database Manager									
DBM	Database	Huge databases > 4GB	-	-	-	-	-	+	+	
DBM	Experiment Management	Exchange layers / windows	+	+	+	+	+	+	+	
DBM	Experiment Management	Mapping dialog when changing HW	-	+	+	+	+	+	+	
DBM	Grouped ECU	Enable ECU grouping in workspace	-	-	-	-	-	+	+	
DBM	Workspace	Easy device assignment to project	-	-	-	-	-	+	+	
DBM	Import	Detailed Configuration of Import	-	-	-	-	-	-	+	with V7.1.3 (SP3)
DBM	Bounds Check	Warns the user when adding dataset that exceeds A2L bounds	-	-	-	-	-	-	+	with V7.1.4 (SP4)

Component	Feature	Sub-Feature	INCA Version							Note
			V5.3	V5.4	V6.1	V6.2	V6.2.1	V7.0	V7.1	
	Experiment Environment									
EE - Variables	Variable Selection	Raster fill level	-	-	+	+	+	+	+	
EE - Variables	Variable Selection	Raster matrix display	-	-	+	+	+	+	+	
EE - Variables	Variable Selection	Extended search	-	-	+	+	+	+	+	
EE - Variables	Variable Selection	Grouped ECU	-	-	-	-	-	+	+	
EE - Variables	Variable Selection	Display configuration	-	-	+	+	+	+	+	
EE - Variables	Variable Selection	Layer Management	-	-	-	+	+	+	+	
EE - Variables	Variable Selection	Setting for number of variables per instrument	-	-	-	+ 1)	+ 1)	+ 1)	+ 2)	1) Maps and Curves 2) Maps, Curves, Oscilloscope
EE - Variables	Variable Selection	Variable Configuration	-	-	-	-	(+)	+	+	V6.2.1 partly
EE - Variables	Variables	Measure Calibrations	+	+	+	+	+	+	+	
EE - Variables	Variables	Write to RAM Variables	-	-	+	+	+	+	+	
EE - Variables	Variables	Inactive variables remember settings	-	-	-	-	-	+	+	
EE - Instruments	Instrument configuration	Optimized window size		(+)	(+)	+	+	+	+	V5.4 and V6.1 manually
EE - Instruments	Context menu	Unified entries	-	-	+	+	+	+	+	
EE - Instruments	Context menu	Extended settings dialog	-	-	+	+	+	+	+	
EE - Instruments	Calibration Window & Table	Customizable colors	-	-	-	-	-	-	+	
EE - Instruments	Combined Editor	Graphical and table editor	+	+	+	+	+	+	+	
EE - Instruments	Combined Editor	Support of Cuboids	-	-	+	+	+	+	+	
EE - Instruments	Combined Editor	Support of 4-dim Cuboid	-	-	+	+	+	+	+	
EE - Instruments	Combined Editor	Overlay of curves	-	-	-	-	-	+	+	
EE - Instruments	CSE	Calibration Scenario Editor	-	-	+	+	+	+	+	
EE - Instruments	CSE	Exchange file based scenarios	-	-	+	+	+	+	+	
EE - Instruments	CSE	Dataset based scenarios	-	-	-	+	+	+	+	
EE - Instruments	CSE	Scenario name in MDF file	-	-	-	-	-	+	+	
EE - Instruments	Oscilloscope	Platform Oscilloscope	-	-	-	-	-	-	+	V7.1 FOS mode unsupported
EE - Instruments	Oscilloscope	Distribution of variables to strips	-	-	-	-	-	-	+	
EE - Instruments	Oscilloscope	Scroll back during data acquisition	-	-	-	-	-	-	(+)	V7.1 limited to 2 minutes
EE - Instruments	Oscilloscope	Dynamic Axis Adaptation	-	-	-	-	-	-	+	V7.1 automatic increasing
EE - Instruments	Oscilloscope	Assignment to analog or digital area	-	-	-	-	-	-	+	
EE - Instruments	Editors	Improved representation in Binary Format	-	-	-	-	-	-	+	with V7.1.5 (SP5)
EE - Recording	Recorder	Triggered recording	+	+	+	+	+	+	+	
EE - Recording	Recorder	Trigger load indication	-	+	+	+	+	+	+	
EE - Recording	Recorder	Triggers on hold	-	-	+	+	+	+	+	
EE - Recording	Recorder	Export / Import of triggers	-	-	+	+	+	+	+	
EE - Recording	Recorder	Multiple recorders in parallel	-	-	-	+	+	+	+	
EE - Recording	Recorder	Measure Date&Time in file name	-	-	-	-	-	+	+	
EE - Recording	Recorder	Snapshot Recording	-	-	-	-	-	+	+	
EE - Calibration	serial ETK	Experiment Preparation	+	+	+	+	+	+	+	
EE - Calibration	serial ETK	Dynamic Emulation	-	+	+	+	+	+	+	
EE - Calibration	Grouped ECU	Copy data exchange files on grouped	-	-	-	-	-	+	+	
EE - Calibration	Open CDM in parallel to EE		-	-	-	-	-	-	+	
EE - Calibration	Coarse & Fine steps for calibration		-	-	-	-	-	-	+	

Component	Feature	Sub-Feature	INCA Version							Note
			V5.3	V5.4	V6.1	V6.2	V6.2.1	V7.0	V7.1	
	Calibration Data Manager (CDM)									
CDM	Functional view		-	-	+	+	+	+	+	
CDM	Flexible comparison of arrays		-	-	+	+	+	+	+	
CDM	Interface for print engine	PDF	-	-	-	+	+	+	+	
CDM	Interface for print engine	User specific converter	-	-	-	-	-	+	+	
CDM	Data Viewer	Inline Editor in CDM	-	-	-	-	-	-	+	
CDM	About Dialog	Integrated 'About Variable' in CDM	-	-	-	-	-	-	+	
CDM	Compare	Compare option: Format (ASAM2-MC) using the maximum of decimal places	-	-	-	-	-	-	+	with V7.1.2 (SP2)
CDM	Process meta data	Support of process meta data	-	-	-	-	-	-	+	with V7.1.3 (SP3)
CDM	Variables Info	View of variable-related info (About, Maturity Level, Process Meta Data)	-	-	-	-	-	-	+	with V7.1.3 (SP3)
CDM	CDF Special Data		-	-	-	-	-	-	+	with V7.1.3 (SP3)
	Flashing									
PROF	CAN	Functional Request	-	-	-	-	-	-	+	with V7.1.2 (SP2)
PROF	Functions	Bit operations	-	-	-	-	-	-	+	with V7.1.2 (SP2)
PROF	UDS on Flexray		-	-	-	-	-	-	+	with V7.1.3 (SP3)
PROF	S19 Files	S6 record type	-	-	-	-	-	-	+	with V7.1.5 (SP5)

Component	Feature	Sub-Feature	INCA Version							Note	
			V5.3	V5.4	V6.1	V6.2	V6.2.1	V7.0	V7.1		
	Interfaces & Standards										
General	eCDM	Enterprise CDM Interface	-	-	-	-	-	-	+	+	
General	MCD-2 MC (ASAP2)	V1.6	-	-	-	-	-	(+)	+	+	V6.2.1 partly
General	MCD-2 MC (ASAP2)	Special BYTE:ORDER 'Middle Endian'	-	-	-	-	-	-	+	+	
General	MCD-2 MC (ASAP2)	ECUs without Memory Segmentation	-	-	-	-	-	-	-	+	
General	MCD-2 MC (ASAP2)	Virtual Measurements	-	-	-	-	-	-	-	+	
General	Testbench interface	MCD-3 MC V1.0.1 & ASAP3	+	+	+	+	+	+	+	+	
General	Testbench interface	MCD-3 MC V2.2	-	-	-	-	-	+	+	+	
General	Testbench interface	MCD-3 MC V2.2 Multi Client	-	-	-	-	-	-	+	+	
General	Testbench interface	Activity Logging	-	-	-	-	-	-	-	+	
General	Testbench interface	ASAP3: EXTENDED_GET_PARAMETER	-	-	-	-	-	-	-	+	with V7.1.2 (SP2)
General	Testbench interface	Automatic GUI update	-	-	-	-	-	-	-	+	with V7.1.4 (SP4)
General	Exchange file formats	DCM, CVX	+	+	+	+	+	+	+	+	
General	Exchange file formats	PaCo	+	+	+	+	+	+	+	+	till V6.0 as separate add-on
General	Exchange file formats	CDF V2.0	-	-	+	+	+	+	+	+	
General	ECU docu link	chm format	-	+	+	+	+	+	+	+	
General	ECU docu link	PDF	-	-	-	+	+	+	+	+	
General	ECU docu link	General interface	-	-	-	+	+	+	+	+	
Experiment Environment	Open EE / INCA-INS.DK	Interface / DK for customer instruments	-	-	-	-	-	-	+	+	
HW&Protocols	OHI	Interface for HW integration	-	-	+	+	+	+	+	+	
HW&Protocols	OHI	Measure Catalogue support	-	-	-	-	-	-	+	+	
HW&Protocols	SDK HWI.DK	Development Kit for HW integration	-	-	-	-	-	-	-	+	
General	SDK MDF.IP	MDF Integration Package	-	-	-	-	-	-	+	+	
General	Autosar V3.x	Autosar System Template	-	-	-	-	-	-	-	+	only CAN Bus description
General	Autosar V4.1	Autosar System Template	-	-	-	-	-	-	-	+	only CAN Bus description with V7.1.5 (SP5)
General	XCP V1.1		-	-	-	-	-	-	-	+	
General	XCP V1.2		-	-	-	-	-	-	-	+	Dynamic DAQ
General	MDF V3.2, 4.1	Standard Indexing	-	-	-	-	-	-	-	+	with V7.1.5 (SP5)
General	MDF V4.1		-	-	-	-	-	-	-	+	
General	MDF V4.1	Compressed data	-	-	-	-	-	-	-	+	with V7.1.5 (SP5)
General	MDA Interface	Open specified MDA version from INCA	-	-	-	+	+	+	+	+	

Component	Feature	Sub-Feature	INCA Version							Note
			V5.3	V5.4	V6.1	V6.2	V6.2.1	V7.0	V7.1	
	Hardware									
HW&Protocols	HW Configuration	Sensor software calibration	-	+	+	+	+	+	+	
HW&Protocols	HW Configuration	Firmware Check in INCA	-	-	-	-	+	+	+	V6.2.1 manually triggered
HW&Protocols	ETK	Data Freeze with ETK Flashing	-	-	-	-	-	-	+	
HW&Protocols	ES3xx modules		-	-	+	+	+	+	-	
HW&Protocols	ES4xx modules		-	+	+	+	+	+	+	V5.4.1 as separate add-on
HW&Protocols	ES415	A/D Measurement	-	-	-	-	-	-	+	
HW&Protocols	ES910	ETK support & CAN Monitoring	-	-	+	+	+	+	+	
HW&Protocols	ES910	CCP support	-	-	-	-	+	+	+	
HW&Protocols	ES910	LIN, Flexray support	-	-	-	-	-	+	+	
HW&Protocols	ES910	support of multiple ES910	-	-	-	-	-	+	+	for INCA MCE
HW&Protocols	ES921	CAN monitoring	-	-	-	+	+	+	+	
HW&Protocols	ES930	Multi IO	-	-	-	-	-	-	+	
HW&Protocols	ES1000.1		+	+	+	+	+	+	-	
HW&Protocols	MAC 2		+	+	+	+	+	+	-	
	Protocols and Busses									
HW&Protocols	KWP2000		+	+	+	+	+	+	+	
HW&Protocols	McMess		+	+	+	+	+	+	+	
HW&Protocols	KWPonCAN		+	+	+	+	+	+	+	
HW&Protocols	CCP		+	+	+	+	+	+	+	
HW&Protocols	UDS		+	+	+	+	+	+	+	
HW&Protocols	XCP	Overruling common parameters within transport layer	-	-	-	-	-	-	+	with V7.1.5 (SP5)
HW&Protocols	XCPonCAN		+	+	+	+	+	+	+	
HW&Protocols	XCPonEthernet		-	+	+	+	+	+	+	just MC, not Flashing
HW&Protocols	XCPonEthernet	XCP on Ethernet Flashing	-	-	-	-	-	-	+	with V7.1.1 (SP1)
HW&Protocols	XCPonUSB		+	+	+	+	+	+	+	till V6.2.1 as separate add-on
HW&Protocols	CAN		+	+	+	+	+	+	+	
HW&Protocols	CAN FD		-	-	-	-	-	-	+	with V7.1.5 (SP5)
HW&Protocols	FlexRay	XCP	-	-	-	-	+	+	+	Add-on: INCA-FLEXRAY
HW&Protocols	FlexRay	Monitoring	-	+	+	+	+	+	+	Add-on: INCA-FLEXRAY
HW&Protocols	LIN	Monitoring	-	-	+	+	+	+	+	Add-on: INCA-LIN
HW&Protocols	J2534	CAN support	-	-	+	+	+	+	+	till V6.2.1 as separate add-on
HW&Protocols	ODX	Link	+	+	+	+	+	+	+	Add-on: ODX-LINK
HW&Protocols	ODX	Flash	-	-	+	+	+	+	+	Add-on: ODX-FLASH
HW&Protocols	ODX	VWH-OBd on CAN diagnostics	-	-	-	-	-	-	+	with V7.1.1 (SP1)
HW&Protocols	Fibex+		-	-	-	-	-	+	+	
HW&Protocols	Fibex 3.x		-	-	-	-	-	-	+	

Component	Feature	Sub-Feature	INCA Version							Note
			V5.3	V5.4	V6.1	V6.2	V6.2.1	V7.0	V7.1	
	Add-Ons									
Add-ons	PaCo	Quality Data Management	+	+	-	-	-	-	-	Replaced by QM Basic
Add-ons	QM-BASIC	Quality Data Management	-	-	+	+	+	+	+	Replacement for PaCo
Add-ons	QM-BASIC	QMD extended by Special Data	-	-	-	-	-	-	+	Started with 7.1SP3
Add-ons	QM-BASIC	Process Meta Data	-	-	-	-	-	-	+	Started with 7.1SP3
Add-ons	INCA-MIP	Matlab Integration Package	-	+	+	+	+	+	+	
Add-ons	INCA-MIP	Support of the new Mathworks model format *.slx	-	-	-	-	-	-	+	with V7.1.5 (SP5)
Add-ons	INCA-SCX		-	-	+	+	+	+	+	till V6.2.1 as separate add-on
Add-ons	INCA-EIP	E-Target Integration Package	+	+	+	+	+	+	+	
Add-ons	INCA-EIP	Reference & Working Page concept	-	-	-	-	-	+	+	
Add-ons	INCA-EIP	Multiple Experimental Targets	-	-	-	-	-	-	+	
Add-ons	INCA-EIP	Support RTProPC	-	-	-	-	-	-	+	
Add-ons	INCA-EIP	COM API: checksum verification during E-Target hardware initialization	-	-	-	-	-	-	+	
Add-ons	INCA-EIP	COM API method for downloading code & data from working page & reference page to working page & reference page	-	-	-	-	-	-	+	
Add-ons	INCA-EIP	COM-API: Flashing E-Targets with working & reference page	-	-	-	-	-	-	+	
Add-ons	INCA-MCE	High-performance test bench access	-	-	-	-	-	+	+	
Add-ons	INCA-MCE	iLinkRT Upload Axis Points	-	-	-	-	-	-	+	
Add-ons	INCA-MCE	Automatic selection of MCE variables	-	-	-	-	-	-	+	
Add-ons	INCA-MCE	XETK Support	-	-	-	-	-	-	+	
Add-ons	SIP									
Add-ons	VLINK									
Add-ons	RLINK									
Add-ons	INCA-MCE	ETK/XETK with dynamic EMU RAM mode	-	-	-	-	-	-	+	with V7.1.4 (SP4)

Component	Feature	Sub-Feature	INCA Version							Note
			V5.3	V5.4	V6.1	V6.2	V6.2.1	V7.0	V7.1	
	MDA									
MDA	Device Information		-	-	-	-	-	-	-	+
MDA	Visualization of GPS data		-	-	-	-	-	-	-	+
MDA	Indexing of mdf V4 files		-	-	-	-	-	-	-	+
MDA	Indication of invalid samples		-	-	-	-	-	-	-	+