Product :	ETKP9.0			
Title :	Change Information			
File :	ETKP9.0_Change_Information_Rev02.doc			
TTNR :	ETKP9.0-K F-00K-103-914 ETKP9.0-B F-00K-103-919			

Comments :	Currently shipped: **23B010**
	  FPGA version: V2.3
	  Hardware-state: B010			

Created:	Name Müller	Department PMC-EPM-22	Signature Müller	Date 2005-04-19
Released:	Name Mai/Sprenger	Department PMC-EPM-22	Signature Mai/Sprenger	Date 2005-04-19

C h a n g e s

Revision	Description	Date	Name	Signature
01	23B010 - initial Version	2005-04-04	Müller	Müller
02	Added ETKP9.0-B	2005-04-19	Sprenger	Sprenger

Table of Contents

1 General remarks to this document

This document consists of three main parts.

Chapter 2 contains general information about the required tool-chain to use this ETK. Two different items are described.
- Explanation of the version-system of the ETKP9.0
- The required versions of software (INCA / ASCET) , HSP (calibration hardware firmware of e.g. ES690, ES1232, ..) and ETK - hardware.
  Additionally other requirements for running the ETK.

Chapter 3 contains information about PLD-Code changes concerning this ETK

Chapter 4 contains information about hardware changes concerning this ETK

2 Tool-Chain Information

2.1 Version-Syntax of the ETKP9.0

The ETKP9.0 version information is located on the sticker of the ETK or can be read out of the ETK using the ETK-Configuration Tool.

The version information has the following syntax: **aacddd/ee**

PLD-Code Information:
   aa: FPGA-Code version (10, 11, 12,...)   see chapter 3
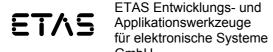
Hardware-Information:
   c : PCB version (A, B, C, ...)
   ddd: Hardware state of the PCB (010, 011, 012, ...)   see chapter 4
   ee: Assembly variant of the PCB (00, 01, 02, ...)

The first delivered hardware state of the ETKP9.0 was **23B010**.

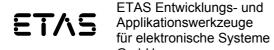## 2.2 Version information of the Tool-Chain components

To get this ETK running with the other components of the Tool-Chain please make sure that the version mentioned below or a newer one is used. If your software-, firmware- or hardware version is older, please update it.

If you have any problems to get this ETK running please contact our local customer support or sales representative.

Name	Needed version	Remarks
HSP	V 4.0	Includes ES690, ES59x and ES1000.2/3 system files
ES690	V 9.0.4	Supported
ES1000.2/3 - system	V 9.0.5	ES1232 supported with ES1120
ES1000.1	Not supported	
MAC2	Not supported	
Software		
ETK Configuration Tool	V 9.0.1	
INCA	V 5.2.0	
ASCET	V 5.0.1	INCA in parallel
ASCET-RP	V 5.1.0	
INTECRIO	V 1.0	INTECRIO standalone or in parallel to INCA

The registered user will automatically receive the newest INCA-version (CD-ROM)
Updates or refreshes can be downloaded from the ETAS homepage:
http://de.etasgroup.com
http://en.etasgroup.com

3 PLD-Code Changes

3.1 General remarks to this chapter

The programmable logic code within the ETKP9.0 is stored onto programmable logic devices (FPGA). The FPGA-code starts with version 2.3. For the version syntax please refer to chapter 2.1.

3.2 FPGA-Code version 2.3 was the first delivered version

3.2.1 Details of change

Version : none
Cause:
Remedy:

Attention: For updating the ETK - HDC with a later version by using the ETK - configuration tool, all ETK - FPGA - packages will be updated one after another and will last a few minutes.

3.2.2 Delivery condition

The FPGA version **2.3** will be programmed into all shipments.

4 Hardware Changes

4.1 General remarks to this chapter

Hardware problems or obsolete parts can make it necessary to change the manufacturing of this ETK. Information about the changes are listed underneath. The hardware-state starts with version B010. For the version syntax please refer to chapter 2.1.

4.2 No changes at hardware-state B010

4.2.1 Delivery condition

The hardware-state **B010** will be delivered with all shipments.

5 Abbreviations

ETK	Emulator test probe
ES1000	VME - system, successor of INCA-VME
INCA-VME	Old VME - system for MC and RP
ES690	MC hardware, successor of MAC2
MAC2	Old MC hardware
INCA	MC software, successor of VS100
ETK Configuration Tool	Configuration Software, in order to configure an ETK, successor of the old DOS tool
HSP	**H**ardware **S**ervice **P**ack; ETAS product which includes the firmware for the complete ETAS hardware, shipped together with INCA but also available as standalone product, download at ETAS homepage possible
Firmware	Software for MC hardware; necessary for implementation of new features or bugfixes
Hotfix	Software bugfix for a refresh version
Tool-chain	MC hardware (e.g. ES690) and software (e.g. INCA)
MC	**M**easurement & **C**alibration
RP	**R**apid **P**rototyping
PLD	**P**rogrammable **L**ogic **D**evice
FPGA	**F**ield **P**rogrammable **G**ate **A**rray; interface component to the application hardware
PCB	**P**rinted **C**ircuit **B**oard
DPR	Dual Ported RAM; special RAM onto the ETK which allows an access from ECU and application hardware at the same time
/CS	Chip select