

HSP Hardware Service Pack Getting Started



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Contents

| 1 | | | | |
|---|-------|------------|--|---|
| | 1.1 | | new | |
| | 1.2 | Product | Overview | 5 |
| | | 1.2.1 | Product Structure | 5 |
| | | 1.2.2 | Product Versioning | 7 |
| | | 1.2.3 | Product Feature | 7 |
| | 1.3 | User Info | ormation | 8 |
| | | 1.3.1 | User Profile | 8 |
| | | 1.3.2 | Structure of the Documentation | 8 |
| | | 1.3.3 | HSP Online Help - Quick Guide | 8 |
| | | 1.3.4 | Working with the Manual | |
| 2 | Progr | am Instal | llation | 1 |
| 2 | 2.1 | | v 1 | |
| | 2.1 | 2.1.1 | Program Files and Windows User Rights | |
| | | 2.1.1 | с | |
| | | | Documentation | |
| | | 2.1.3 | System Requirements 1 | |
| | | 2.1.4 | Restrictions | |
| | | 2.1.5 | Supported ETAS Products 1 | |
| | 2.2 | Installati | on Procedure | 3 |
| | | 2.2.1 | Installing HSP 1 | 3 |
| | | 2.2.2 | Installing HSP Service Packages (HSP-SP) 1 | 3 |
| | 2.3 | LAN han | ndling Support | 4 |
| | 2.4 | Uninstall | l Procedure | 5 |
| | | 2.4.1 | Uninstalling HSP 1 | 5 |
| | | 2.4.2 | Uninstalling HSP Service Packages (HSP-SP) | |
| | 2.5 | Lambda | Meter Configuration Tool 1 | |
| | | | | |

| 3 | Using | g the HSP | Update Tool | . 17 |
|---|-------|-----------|--|------|
| | 3.1 | Starting | the HSP Update Tool (HSP-UT) | . 17 |
| | 3.2 | "HSP Up | odate Tool" Window | . 17 |
| | 3.3 | Update | Procedure | . 18 |
| | 3.4 | Docume | ent the Firmware State | . 18 |
| | | 3.4.1 | Firmware State Log File | . 18 |
| | | 3.4.2 | Firmware State History Log File | |
| | 3.5 | Driver In | Istallation | |
| | | 3.5.1 | ES520 Driver Installation | |
| | | 3.5.2 | ES580 or CAN-Link II Card Driver Installation | |
| | | 3.5.3 | ES581 and ES581.4 Driver Installation | |
| | | 3.5.4 | ES583.1 Driver Installation | |
| | | 3.5.5 | ES5xx/ ES8xx/ ES9xx Driver Installation | |
| | 3.6 | | PISP Update Tool | |
| | | | | |
| 4 | | | Manager | |
| | 4.1 | | Ν | |
| | 4.2 | | ardware Addressing | |
| | 4.3 | | Adapter Addressing | |
| | | 4.3.1 | Type of Network Adapter Addressing | |
| | | 4.3.2 | Addressing the Network Adapter Manually | |
| | | 4.3.3 | Addressing the Network Adapter via DHCP | |
| | 4.4 | | erface | 22 |
| | | 4.4.1 | Configuration Dialog Window 1 — Selection of Network Adapter | ~~ |
| | | | ("Network settings for ETAS hardware (page 1)") | 22 |
| | | 4.4.2 | Configuration Dialog Window 2 — Defining the Address Pool | ~ 4 |
| | | | ("Network settings for ETAS hardware (page 2)") | 24 |
| | | 4.4.3 | Configuration Dialog Window 4 — Displaying Warning | ~ - |
| | 4 5 | c (| ("Network settings for ETAS hardware (Page 4)") | |
| | 4.5 | 0 | ring Network Addresses for ETAS Hardware | |
| | | 4.5.1 | Manually configuring the Network Adapter | |
| | | 4.5.2 | Auto-Configuring Network Adapter for ETAS Hardware | |
| | | 4.5.3 | Enabling APIPA in the Registry | |
| | 4.6 | Iroubles | shooting Ethernet Hardware Access | 31 |
| 5 | Trou | bleshoot | ing General Problems | . 32 |
| | 5.1 | Problem | s and Solutions | 32 |
| | | 5.1.1 | Network Adapter cannot be selected via Network Manager | . 32 |
| | | 5.1.2 | Search for Ethernet Hardware fails. | . 33 |
| | | 5.1.3 | Personal Firewall blocks Communication | 35 |
| 6 | FTAS | Contact | Addresses | 40 |
| 5 | | | | |
| | index | | | . 41 |

1 Introduction

The Hardware Service Pack (HSP) is an ETAS product for firmware management of ETAS hardware. It is an easy to use tool for adding new functionality to the hardware.

With HSP, users can

- Check the current firmware state,
- Check the current firmware compatibility state,
- Update/ downdate the firmware and
- Get the update activities logged

of the connected ETAS hardware by an intuitive process.

1.1 What's new

For new features of this HSP version, support of new products, and for information about firmware support use in the HSP program the menu options $Help \rightarrow Release Notes Service Package...$ and $Help \rightarrow Release Notes HSP-UT...$

1.2 Product Overview

1.2.1 Product Structure

The **H**ardware **S**ervice **P**ack is a tool for the firmware management of ETAS hardware. HSP consists of two main parts:

- HSP Update Tool (HSP-UT) and
- HSP Service Packages (HSP-SP and LABCAR-FWP).

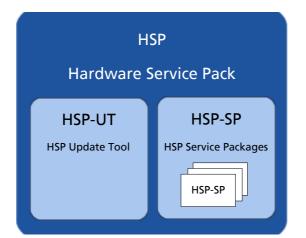


Fig. 1-1 Hardware Service Pack product structure

The **HSP U**pdate **T**ool (**HSP-UT**) is the user interface for the firmware update process. This tool allows users to view the state of firmware in a given ETAS hardware component. Based on this information, users update the firmware. Please refer to the release note for the current HSP-UT version for information about supported ETAS hardware modules.

The **HSP S**ervice **P**ackages (**HSP-SP**) contains the actual firmware, i. e. the files that will be downloaded to the hardware.

Additional the following drivers and supplements are contained in HSP:

- The **ES520 Driver** (**UCI**) contains the PC drivers needed by the ES520 for correct function with INCA and HSP-UT.
- The ES580 (CAN and J2534) contains the PC drivers needed by the ES580 (CAN-LINK II) for correct function with INCA.
- The ES581.3 (CAN and J2534) contains the PC drivers needed by the ES581.3 for correct function with a SW application, e.g. INCA, HSP-UT, etc.
- The ES581.4 (USB and J2534) contains the PC drivers needed by the ES581.4 for correct function with a SW application, e.g. INCA, HSP-UT, etc.
- The ES582 (USB) contains the PC drivers needed by the ES582 for correct function with a SW application, e.g. INCA, HSP-UT, etc.
- The ES583 (USB) contains the PC drivers needed by the ES583 for correct function with a SW application, e.g. INCA, HSP-UT, etc.
- The ES584 (USB) contains the PC drivers needed by the ES584 for correct function with a SW application, e.g. INCA, HSP-UT, etc.
- The ES63x component contains new sensor lines for the ES63x Lambda Module supporting new Lambda sensors.
- The ES5xx/ES8xx/ES9xx driver installation: Since INCA V7.1 INCA service packs automatically install the most recent version of ETAS ECU and Bus Interfaces Distribution Package (ED-EBI and EBI-IP). You may need to execute the ETAS ECU and Bus Interfaces installations manually only if you use Non-ETAS software that supports ETAS hardware.
- The LambdaConfigTool component contains the configuration tool "LambdaConfigTool" for the LA3/LA4 Lambda Meter. This tool is independent from the HSP-UT.

1.2.2 Product Versioning

The version of the Hardware Service Pack (HSP) is changed if either HSP Update Tool (HSP-UT) or if any of the HSP Service Packages (HSP-SP) was changed.

1.2.3 Product Feature

The main features of HSP Update Tool are:

- Detailed information about firmware status for several systems available
- Detailed information about software application and firmware compatibility
- After selection of product group firmware update in three steps only
- Free selection of the systems for firmware update among the displayed hardware
- User information by icons for easy readability of firmware status
 - for the complete system
 - for each updateable component in the system
- Icons are changing during the update process their status
- Up to 64 systems can be updated within the same update process
- Log files documents the updates
- Program window layout is configurable
- Integrated online help

1.3 User Information

1.3.1 User Profile

This manual is intended for qualified personnel working in the fields of automotive control unit development and calibration.

HSP users should be familiar with the operating system Microsoft Windows. All users should be capable of executing menu functions, activating buttons etc. Users should also be acquainted with the Windows file storage system, particularly the relations between files and directories. The user must know about and have mastered the basic functions of the Windows File and Program Manager and Windows Explorer. The user should also be familiar with "Drag & Drop".

All users who are not familiar with the basic techniques of Microsoft Windows should familiarize themselves with them before using HSP. Details of working with Windows are contained in the relevant manuals by Microsoft Corporation.

1.3.2 Structure of the Documentation

The HSP documentation consists of an online help which describes the operation, and a Getting Started manual. This manual describes installation, contains an overview of the most important features of operation, and background information.

The HSP Getting Started consists of the following chapters:

- "Introduction" (this chapter),
- "Program Installation" on page 11,
- "Using the HSP Update Tool" on page 17,
- "ETAS Network Manager" on page 20,
- "ETAS Contact Addresses" on page 40 and
- "Index" on page 41.

1.3.3 HSP Online Help - Quick Guide

Use the **Help** \rightarrow **Help** menu option to invoke the general help function. Press the <F1> function key to call context-sensitive help.

The **Help** \rightarrow **Quick Start** menu option and the **Help** \rightarrow **Symbols** menu option gives an direct access to online help topics.

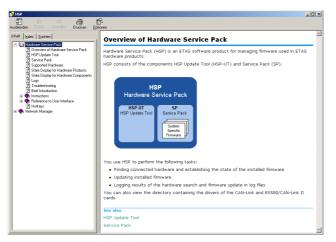
The **Help** \rightarrow **Technical Support** menu option opens an info box about HSP support (hotline contact).

The **Help** \rightarrow **Supported Hardware** menu option gives an direct access to an overview of supported hardware.

The Help \rightarrow Release Notes HSP menu option, the Help \rightarrow Release Notes HSP-UT menu option gives an direct access to the HSP Releases Notes or to the HSP-UT Release Notes.

The Help \rightarrow User's Guide ES580 menu option opens the ES580 User's Guide.

The **Help** \rightarrow **Info** ... menu option gives information about the HSP Update Tool version and additional tool installed components.



The three tabs of the help window provide you with the following options:

- The "Contents" tab allows you to browse the help topics by categories.
- The "Index" tab lists all index entries. Browse the entire list, or enter a search term to limit the scope of listing.
- The "Search" tab allows you to search for individual words or terms included in a help topic. Type a search string and let the help function list the entries it has found related to this term.

1.3.4 Working with the Manual

Getting Started is available electronically and can be viewed on the screen at any time. Using the index, full-text search, and hypertext links, you can find references fast and conveniently (see HSP GettingStarted-En.pdf).

Presentation of Information

All actions to be performed by the user are presented in a so-called "Use-Case" format. This means that the objective to be reached is first briefly defined in the title, and the steps required to reach the objective are then provided in a list. This presentation appears as follows:

Definition of Objective:

Any preliminary information...

- Step 1 Any explanation for Step 1...
 Step 2 Any explanation for Step 2...
 - Step 3
 - Any explanation for Step 3...

Any concluding remarks...

Specific example:

To create a new file:

When creating a new file, no other file may be open.

• Choose File \rightarrow New.

The "Create file" dialog box is displayed.

- Type the name of the new file in the "File name" field.
 - The file name must not exceed 8 characters.
- Click OK.

The new file will be created and saved under the name you specified. You can now work with the file.

Typographical Conventions

The following typographical conventions are used in this document:

| Menu commands are shown in boldface. |
|--|
| Buttons are shown in boldface. |
| Keyboard commands are shown in angled brackets, in block capitals. |
| Names of program windows, dialog boxes, fields, etc. are shown in quotation marks. |
| Text in drop-down lists on the screen, program code, as well as path and file names are shown in the Courier font. |
| |

Important notes for the user are shown as follows:

Note

Important note for the user.

2 Program Installation

2.1 Overview

2.1.1 Program Files and Windows User Rights

Main Installation File (HSP)

The HSP main installation file installs the Hardware Service Pack including the HSP-UT and HSP-SP.

Note

You need Windows administrator rights for installing the Hardware Service Pack HSP.

You can install HSP in localized versions of the Graphical User Interface (GUI).

Service Package Files (HSP-SP)

If a compatible HSP version is installed on your PC there is the possibility to install additional HSP Service Packages (HSP-SP) with Windows standard user rights.

Note

For installing the HSP Service Packages you need only Windows standard user rights.

2.1.2 Documentation

A printed version of the HSP documentation is not available. All HSP documentation is available in Adobe PDF file format. To read and print the manuals use the Adobe Acrobat Reader.

| File | Description |
|----------------------------|--|
| HSP-UT ReleaseNotes-En.pdf | HSP Update Tool release notes (only english language) |
| HSP-UT ReleaseNotes-Jp.pdf | HSP Update Tool release notes (only japanese language) |
| HSP GettingStarted-En.pdf | HSP Getting Started (this document) |
| HSP GettingStarted-Jp.pdf | HSP Getting Started (this document in japanese lan- guage) |

2.1.3 System Requirements

| Item | Description |
|---------------------------------------|---|
| Required PC hardware (IBM-compatible) | 2 GHz Dual-Core PC, 2 GByte RAM, Network adapter, Graphics (1280 x 1024), 128 MB RAM |
| Required operating system | Windows 10, Windows 8.x, Win- dows 7 (32-bit version or 64-bit version in 32-bit compatibility mode) |
| Free disk space | 2 GByte |

Note

The CPU as well as the main memory requests must satisfy the minimum requirements of the used operating system.

2.1.4 Restrictions

Operating system

Product release tests were performed under Windows 7 and Windows 8.x. No tests were performed on multi-processor machines.

Using multiple masters

When updating the ETAS hardware with HSP no access by other ETAS applications may be carried out on this hardware.

Windows User Rights

For restrictions because of Windows user rights refer to chapter 2.1.1 on page 11.

Using some hardware components

HSP-UT does not support the CAN-Link II or ES580 card. HSP-UT cannot detect the presence of the card and consequently cannot update its firmware.

Note

For complete description of restrictions by using some hardware components refer to the HSP Update Tool Release Notes.

2.1.5 Supported ETAS Products

Read the list of supported hardware or the HSP Update Tool release notes for detailed informations.

2.2 Installation Procedure

2.2.1 Installing HSP

Note

You need Windows administrator rights for installing the Hardware Service Pack HSP.

There is no difference in procedure between HSP installation from a CD and from a network drive.

To start the HSP installation:

- Double click on the setup.exe file in the HSP installation package.
- Follow the instructions displayed by the installation wizard.

Note

The language selection made in the HSP installation is a global setting for all ETAS applications

2.2.2 Installing HSP Service Packages (HSP-SP)

If a compatible HSP version is installed on your PC it is possible to install additional Service Packages (HSP-SP) with Windows standard user rights.

Note

For installing the HSP Service Packages you need only Windows standard user rights.

The HSP Service Packages are available for all users of a PC, i.e. all installed packages are available for selection in the HSP-UT regardless of user.

The file format of all HSP Service Package files is "*.spi".

There are three ways to select, import and install the HSP Service Packages:

- select and click an HSP-SP file "*.spi" in Windows Explorer or
- select in HSP program "File → Import Service Package" or
- select in HSP program "Tools \rightarrow Service Package Manager".

Note

The complete handling to install HSP Service Packages is described in the Online Help of HSP.

2.3 LAN handling Support

The Hardware Service Pack supports the improved LAN handling of INCA with different configurations for hardware access by Ethernet:

- Usage of different network adapters:
 - one network adapter for the company LAN and
 - one network adapter for the ETAS-Hardware or
- Usage of one network adapter:
 - automatic switch between company LAN and usage in automotive.

For working with HSP it is necessary to configure the network environment of your PC for the ETAS hardware. The ETAS Network Manager supports your configuration.

To start ETAS Network Manager:

 Select in the HSP Main Window start menu Tools → ETAS Network settings.

The ETAS Network Manager is started.

To select a network adapter:

| 🗆 Auto IP address range 👘 / | Auto Configure E | TAS Network | | | | | |
|--|-------------------|-------------------|-------------------------------|------------------|--|--|--|
| | | nao nota on | T Auto Configure ETAS Network | | | | |
| vailable network adapters | | | | | | | |
| | 1.1 54 | | | | | | |
| elect the network adapter for the ETAS net | work (or press F1 | tor more detailed | instructions a | ind information) | | | |
| Name IP | -Address | Subnet Mask | DHCP | Alternate IP | | | |
| Check Point Virtual Network Adapter F 0. | | | Enabled | Disabled | | | |
| FE574B-3Com 10/100 LAN PCCard-Fast 19 | 92.168.40.250 | 255.255.255.0 | Disabled | | | | |
| Intel(R) PRO/Wireless 3945ABG Netwo 0. | .0.0.0 | 0.0.0.0 | Enabled | APIPA | | | |
| Intel(R) PRO/1000 PL Network Connec 10 | 0.103.8.210 | 255.255.252.0 | Enabled | APIPA | | | |
| No Adapter | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

- Select a network adapter from the "Available Network Adapters" field.
- Make the necessary settings in the "Network Settings for ETAS hardware" window.
- Click Finish.

Details for using ETAS Network Manager are described in chapter 4 on page 20.

2.4 Uninstall Procedure

2.4.1 Uninstalling HSP

Note

Windows administrator rights are required for uninstalling the HSP (HSP-UT with all HSP-SP files).

This procedure describes how to uninstall the HSP Update Tool and all installed Service Packs.

To uninstall HSP:

- Select in the Windows start menu Start → System Control → Programs and Functions.
- Select **HSP Update Tool**.
- Click **Uninstall**. The Windows Installer window is displayed:
- Click **Yes** to start the HSP uninstallation. The uninstall process is started.

2.4.2 Uninstalling HSP Service Packages (HSP-SP)

Note

For uninstalling of selected HSP Service Packages you need only Windows standard user rights.

Using the HSP Service Package Manager as a part of HSP all users can uninstall a selected HSP Service Package version (e.g. previous/older released service package) without uninstalling the HSP-UT.

Note

The complete handling to uninstall HSP Service Packages is described in the Online Help of HSP.

2.5 Lambda Meter Configuration Tool

The Hardware Service Pack contains also the ETAS "Lambda Meter Configuration Tool". The "Lambda Meter Configuration Tool" enables the firmware update of the LA3 / LA4 modules, allows convenient setting of modules' parameters and offers the opportunity to download customer specific characteristic curves. The HSP installation procedure automatically installs the "Lambda Meter Configuration Tool" into the HSP directory on the PC.

To start Lambda Config Tool:

 Select in the Windows start menu Start → Programs → ETAS → HSP → Supplements → Lambda Meter Configuration Tool.

The "Lambda Config Tool" is started.

3 Using the HSP Update Tool

This section describes how to update the firmware on ETAS hardware.

In this manual, the word 'update' is used to describe the process of downloading a binary file, the actual firmware, from the PC to dedicated memory in ETAS hardware. The downloaded firmware does not necessarily have to be a newer version than the firmware originally located on the hardware.

3.1 Starting the HSP Update Tool (HSP-UT)

The HSP-UT can be started either by double-clicking the HSP-UT icon on the desktop or from the **Start** menu under **Programs** \rightarrow **ETAS** \rightarrow **HSP** \rightarrow **HSP Update Tool**. The "HSP Update Tool" window of the HSP-UT opens. In the following description this window is named "Main" window.

When you select a particular version of the Hardware Service Pack, you are automatically selecting the matching version of the Service Package, i. e. the actual firmware used by the HSP-UT.

Please refer to the HSP online help for details on menu options and button functionality.

Note

Before starting the HSP-UT please make sure that no ETAS Target Server is active, i. e., that no Target Server icon is visible in the Windows task bar.

3.2 "HSP Update Tool" Window

The "HSP Update Tool" window is also named "Main" window.

| | TAS Firmware Update Tool - Details | | | | | |
|---|---|---|--|--|---|--|
| Menu Bar — | Elle Functions View Icols Window He | lo . | | | | |
| Toolbar — | 🛃 👪 🗊 🚰 📼 🗟 🗐 📆 HSP V5.1.0 🛛 🔹 👶 📩 🐁 🖕 | | | | | |
| | Hardware # | Details | | 4 Þ | Properties | # × |
| | BO Ethernet Interface | Component | Installed Version | Service F | 24 | |
| Hardware Window Details Window | Constant (Auto Net) Constant Constant (Auto Net) Constant (Auto Net) Constant (Au | FEC-Firmware ES1120-Firmware ME-Master-FLD MME-Master-FLD MME-Master-FLD MPC750 FPGA | V10.1.0 V10.1.1 V2.2.0 V2.1.0 V2.0.0 V2.2.0 | V10.2.1 V10.2.2 V2.2.3 V2.1.3 V2.0.0 V2.2.0 | Identification Name Hardware Serial Number Production Date Last Check Manufacturer Code Unit ID | E51120 010036543 12.01.2004 21.02.2004 2 0x1b00 |
| Properties Window | | | | | Update State Number of Component Source Configurat | |
| WINGOW | < N 1 | | | | | HSP V5.1.0 |
| | Compatibility 4 × | | | | Compatible Applic | ations RTA-TRACE V2.1.0 |
| Compatibility Window | ES1000 System (Auto Pilot) ES1000 System (Auto Pilot) G Source configurations of installed fin O No matching HSP configuration O No compatible applications four O No compatible Applications four | < | | > | | RTA-TRACE V2.1.0 INTECRIO V2.1.0 INCA-EIP V5.4.1 INCA V5.4.1 ASCET-RP V5.5.0 |
| | B - S Compatible applications after firmwa E - E 51000 System (5N 010036543) | Output | | | | 4 × |
| Output Window | Sorre configuration of installed fr Sorre configuration of installed fr Sorre configurations of installed Bore conpatible opplications with installed Bore Compatible opplications after firming | fm +Starting search for hardware PSP Server ES1000 Systems: Hardware found: ES1000 System (Auto Pilot) MSP Server ES1000 Systems: Hardware found: ES1120 (SR 0105543443) | | | | |
| Status Bar — | × | | | | | |

3.3 Update Procedure

The sequence for updating the firmware is dependent on number of ETAS systems connected on the PC:

1. Connect the hardware to the PC and to power supply

Note

Neither the power supply nor the Ethernet connection may be interrupted during a firmware update!

- 2. Select the HSP version¹ or the LABCAR-FWP version²
- 3. Click "Search for hardware"
- 4. Checking the firmware state and select hardware systems whose firmware you want to update
- 5. Start firmware update
- 6. Additionally you can check the current firmware state of one of the connected hardware systems after a hardware search operation was done.
- 7. Quit the HSP Update Tool after firmware check or update is completed.

3.4 Document the Firmware State

The HSP Update Tool automatically creates two types of log files, the "Firmware State Log File" and the "Firmware History Log File", offering the possibility to document the firmware state and the firmware update activities.

Contents of the log files can be viewed within HSP-UT window. As the files are in plain text format, they can simply be printed using text editors like Notepad.

3.4.1 Firmware State Log File

This feature makes it possible to document the current firmware state or a specific update sequence, i. e. the firmware state before and after the firmware update.

The Firmware State Log File will automatically be created the first time a search for hardware will be performed after installation of HSP. Afterwards this file will be overwritten with every search for hardware performed. If a successful update follows on a search for hardware the content will be appended with this information.

The content of the latest successfully executed update will remain when restarting HSP.

3.4.2 Firmware State History Log File

This feature makes it possible to "browse" the history on successfully executed firmware updates.

The Firmware State History Log File will also be automatically created the first time an update has been done after installation of HSP and contains all previous versions of the firmware state log file. If a new firmware state log file is created, the content of this file is appended at the beginning of the history file.

- ^{1.} only HSP version V6.1 and higher
- ^{2.} only HSP version V7.0 and higher

When required it is possible to delete the content of this file. There is a maximum allowed size for this file. When the size reaches 500 kB the oldest update information will be truncated.

- 3.5 Driver Installation
- 3.5.1 ES520 Driver Installation

If there is no ES520 driver (UCI) installed on your PC or an installed driver is not up to date you can install the required driver which is delivered with HSP. The installed driver allows to perform a firmware update on your ES520 hardware and to use it with ETAS software on this PC.

3.5.2 ES580 or CAN-Link II Card Driver Installation

If there is no ES580 or CAN-Link II card driver installed on your PC or an installed driver is not up to date you can install the required driver which is delivered with HSP. The installed driver allows to perform a firmware update on your ES580 or CAN-Link II card hardware and to use it with ETAS software on this PC.

The driver is available in a 32-bit- and 64-bit version.

3.5.3 ES581 and ES581.4 Driver Installation

If there is no ES581 driver (USB) installed on your PC or an installed driver is not up to date you can install the required driver which is delivered with HSP.

The installed driver allows to perform a firmware update on your ES581 hardware and to use it with ETAS software on this PC.

Users of the ES581 with third party applications have additionally to install an J2534 conform driver (Pass Thru Interface) which is also delivered with HSP.

3.5.4 ES583.1 Driver Installation

If there is no ES583.1 driver (USB) installed on your PC or an installed driver is not up to date you can install the required driver which is delivered with HSP.

The installed driver allows to perform a firmware update on your ES583.1 hard-ware and to use it with ETAS software on this PC.

3.5.5 ES5xx/ ES8xx/ ES9xx Driver Installation

Since INCA V7.1 INCA service packs automatically install the most recent version of ETAS ECU and Bus Interfaces (ED-EBI and EBI-IP). You may need to execute the ETAS ECU and Bus Interfaces installations manually only if you use Non-ETAS software that supports ETAS hardware.

3.6 Quit the HSP Update Tool

Quit the HSP Update Tool after firmware check or update is completed.

Note

Leaving the tool running may interfere with other ETAS applications.

4 ETAS Network Manager

The ETAS Network Manager is used for creating a configuration that will be used by the ETAS IP Manager. The IP Manager is responsible for dynamic IP addressing of the ETAS hardware used in your network.

4.1 Overview

ETAS software supports different configurations for hardware access via Ethernet:

- Using multiple network adapters:
 - one network adapter for the company network,
 - one or more network adapters for the ETAS hardware.
- Using one network adapter
 - automatic toggling between the company network and the ETAS hardware.

Note

You do not require a separate network adapter to connect the ETAS hardware to your PC. You can use the same network adapter both for the company network and the ETAS network.

The ETAS Network Manager supports you in selecting the network adapter for the ETAS hardware.

The ETAS Network Manager gives you an overview of the network adapters available for your PC and the type of IP address assignment. If more than one network adapter is available in the system, you can select the network adapter to use for connecting the ETAS hardware to your PC. You can also specify the address range for the IP assignment for the ETAS hardware.

You do not need administrator rights to select the network adapter and the network environment configuration for the ETAS hardware. You can toggle between the ETAS network and the company network without rebooting your PC.

Note

With Network Manager, you cannot create or modify the configuration for the network adapter. Instead modify the network settings of your PC via the Control Panel (see the documentation for your operating system). Please note that this requires administrator rights.

4.2 ETAS Hardware Addressing

The ETAS network allows you to connect several devices (including those that are the same type) to your PC. The connected devices are identified in the local ETAS network by their unique IP address.

An IP Manager integrated in the ETAS software looks up which IP addresses are available in a pre-configured address pool and assigns available IP addresses to the connected ETAS hardware.

The address range for the address pool is specified using the ETAS Network Manager.

4.3 Network Adapter Addressing

4.3.1 Type of Network Adapter Addressing

The type of network adapter addressing done within the company network depends on the operating system being used and the network adapter configuration:

| Operating System | Type of Network Adapter Addressing | | | | | |
|---------------------|------------------------------------|------|------------|---------------------------------|--|--|
| | Manual | DHCP | DHCP+APIPA | DHCP+ alternative IP address | | |
| Windows XP | yes | yes | yes | yes | | |
| Windows Vista | yes | yes | yes | yes | | |
| Windows 7 | yes | yes | yes | yes | | |

The ETAS network supports the following types of network adapter addressing:

| Operating System | Type of Network Adapter Addressing | | | | |
|---------------------|------------------------------------|------|------------|---------------------------------|--|
| | Manual | DHCP | DHCP+APIPA | DHCP+ alternative IP address | |
| Windows XP | yes | no | yes | yes | |
| Windows Vista | yes | no | yes | yes | |
| Windows 7 | yes | no | yes | yes | |

If you wish to use the network adapters both for the company network and the ETAS network, you cannot use the network adapters that exclusively support DHCP addressing for this dual operation.

Note

DHCP can be used only in combination with APIPA or an alternative IP address!

4.3.2 Addressing the Network Adapter Manually

Addressing a network adapter depends on the operating system.

For instructions on addressing your PC's network adapter, see the documentation for your operating system.

To address the network adapter manually, you need administrator rights. Please contact your system administrator, if necessary.

If the network adapter is addressed manually, i.e., it has a static IP address, it may happen that you accidentally end up searching for or initialize ETAS hardware, although the PC is connected to the company network. The Network Manager allows you to stipulate that if this happens, you are to receive a warning before an IP address is assigned to an ETAS hardware.

4.3.3 Addressing the Network Adapter via DHCP

Addressing via DHCP requires that the DHCP server be available. Should the DHCP server not be available, or if there is no DHCP server (as in the ETAS network), the network adapter has not been configured.

In this instance, each operating system has a feature that automatically assigns the network adapter an IP address:

Windows XP / Windows Vista / Windows 7

Windows XP, Windows Vista and Windows 7 automatically check whether there is a connection to the DHCP server. If there is none, it either assigns the IP address automatically via APIPA, or it uses the user-specified alternative IP address. The ETAS network always uses either the APIPA address or the alternative IP address.

When toggling between the DHCP network and ETAS hardware, make sure that the operating system is able to detect a connection failure because only then will reconfiguration be initiated. This may take up to 10 seconds. It takes the operating system 60 seconds to entirely reconfigure from a DHCP address to an APIPA address or to the alternative address. If the network adapter is once again connected to the DHCP network, configuring to a DHCP address takes place right after the connection has been detected.

Addressing a network adapter via DHCP without alternative addressing is not supported.

- 4.4 User Interface
- 4.4.1 Configuration Dialog Window 1 Selection of Network Adapter ("Network settings for ETAS hardware (page 1)")

| Auto configuration | | | | | | |
|---|--|-------------------------------|---------------|-------------------|--------------------------|--|
| 🔽 Auto IP address range | | 🔽 Auto Configure ETAS Network | | | | |
| Available network adapters Select the network adapter for the ETAS network (or press F1 for more detailed instructions and i | | | | and information). | | |
| A 11 6 | | | | | | |
| Active for | . Name | IP-Address | Subnet Mask | DHCP | Alternate IP | |
| | Broadcom NetXtrem | 10.103.12.216 | 255.255.252.0 | Enabled | Alternate IP Disabled | |
| V | Broadcom NetXtrem 3Com EtherLink XL 1 | , | , | | | |
| | Broadcom NetXtrem | 10.103.12.216 | 255.255.252.0 | Enabled | | |
| V | Broadcom NetXtrem 3Com EtherLink XL 1 | 10.103.12.216 | 255.255.252.0 | Enabled | | |

The following information on the available network adapters is displayed:

• Auto IP Address Range checkbox

If you tick this checkbox, the next configuration step is skipped, and the ETAS Network Manager automatically assigns default IP address ranges that will be used by the selected network adapter for addressing the ETAS hardware. If the IP address range is automatically changed by the IP Manager, a message is displayed in the system tray.

Auto Configure ETAS Network checkbox

If you tick this checkbox, you can enable or disable several network adapters at once for auto-configuration through the IP Manager.

When you tick the checkbox, the "Auto IP Address Range" checkbox is activated. In the list of available network adapters, the "Active for ETAS Network" column is inserted, where you can determine which network adapters shall be available for auto-configuration through the ETAS Network Manager.

The ETAS Network Manager will go through the list (top-down) and use the first adapter which has a valid IP configuration for ETAS¹ and configure the IP address range automatically. If a configured network adapter fails, e.g. because the network adapter is being disabled or physically not available, the IP Manager will configure the next available network adapter automatically, and a message is displayed in the system tray, indicating the new configuration.

• Active for ETAS Network column

This column is only visible if the "Auto Configure ETAS network" checkbox is ticked. In the checkbox in this column you can determine which network adapters shall be enabled for autoconfiguration by the ETAS Network Manager (see "Auto-Configuring Network Adapter for ETAS Hardware" on page28).

• Name column

Name of the network adapter. This entry cannot be edited in this window.

This column also contains an entry with the name "No Adapter". If you want to disable the IP Manager, e.g. because there is no Ethernet hard-ware connected to the PC, you can tick this entry in the "Active for ETAS Network" column.

• IP Address column

IP address of the network adapter. This entry cannot be edited in this window.

• Subnet Mask column

Setting for the subnet mask. This entry cannot be edited in this window.

• DHCP column

Shows whether the network adapter is configured for DHCP:

Enabled

The network adapter is configured for DHCP.

Disabled

The network adapter is configured with a fixed IP address.

Alternate IP Configuration column

Shows the alternative IP address of the network adapter if it is configured for DHCP. This indication depends on the operating system being used.

^{1.} An IP configuration is valid if the network adapter either uses a fix IP address, or if DHCP and APIPA are enabled.

- APIPA

Automatic Private IP Addressing: method for automating the IP configuration for network connections

- ---

An alternative IP address does not exist.

- User defined
 - The user can define a user-specific alternative IP address.
- 4.4.2 Configuration Dialog Window 2 Defining the Address Pool ("Network settings for ETAS hardware (page 2)")

| 🕫 Network settings for | TAS hardware (Page 2) | | | | | | |
|------------------------|---|--|--|--|--|--|--|
| Define address pool | | | | | | | |
| Enter a valid IP-addre | Enter a valid IP-address range for IP-address 192.168.40.240, Subnet Mask 255.255.255.0 | | | | | | |
| Press Default to selec | Press Default to select address range automatically. | | | | | | |
| | | | | | | | |
| Start Address: | 192 . 168 . 40 . 10 | | | | | | |
| End Address: | 192 . 168 . 40 . 227 | | | | | | |
| Subnet Mask: | 255 . 255 . 255 . 0 | | | | | | |
| | Default | | | | | | |
| | | | | | | | |
| | Cancel < Back Continue > Finish | | | | | | |

In general, all values can be modified by directly typing them in the corresponding field, or by selecting the default setting from a list box.

The following network parameters can be set:

• Start Address

The first IP address in the IP address range for the ETAS hardware

• End Address

The last IP address in the IP address range for the ETAS hardware

Subnet Mask

Associated Subnet Mask

Reserved IP Addresses

The following IP addresses are reserved for certain ETAS hardware in the IP address range that the ETAS hardware (192.168.40.1 - 192.168.40.254 with Subnet Mask 255.255.255.0) is currently using:

| IP_Address | ETAS Hardware | |
|---------------|---------------|--|
| 192.168.40.10 | ES1120 | |
| 192.168.40.11 | ES1130 | |
| 192.168.40.12 | ES780 | |

| IP_Address | ETAS Hardware | |
|---------------|---------------|--|
| 192.168.40.13 | Reserved | |
| 192.168.40.14 | LABCAR-RTPC | |
| 192.168.40.15 | ES1135 | |

These addresses are assigned exclusively to these devices and thus may not be used for other ETAS hardware. This has to be taken into consideration when defining the address pool.

4.4.3 Configuration Dialog Window 4 — Displaying Warning ("Network settings for ETAS hardware (Page 4)")

This dialog window appears only if the selected network adapter is addressed manually.

| Network settings for ETAS hardware (Page 4) | |
|--|-----|
| Setting for user defined IP-Address | |
| | |
| Display warning before IP address assignment is executed | |
| Activation only makes sense if you use the Ethernet network adapter for Company-LAN and ETAS-LAN in parallel | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| Cancel < Back Continue > Fin | ish |

The following parameters can be set:

• Display warning before IP address assignment is executed

Use this checkbox to specify that a warning be displayed before an IP address is assigned to an ETAS hardware device.

Note

Enabling this warning is useful only if you want to run the PC both in the company network or on an ETAS measurement module in the ETAS network using this network adapter.

4.5 Configuring Network Addresses for ETAS Hardware

4.5.1 Manually configuring the Network Adapter

To configure the network adapter for ETAS hardware:

 In the Windows Start menu, go into the program folder of your ETAS software (below Start → Programs → ETAS), and select ETAS Network Settings.

The "Network settings for ETAS hardware (Page 1)" dialog window is opened.

| 🕫 Network settings for ETAS hardware (Page 1) | | | | | | |
|---|---|-------------------------------|---------------------|----------------|-------------------|--|
| Г | Auto configuration | | | | | |
| | 🗖 Auto IP address range | T Auto Configure ETAS Network | | | | |
| Γ | Available network adapters | | | | | |
| | Select the network adapter for the ETAS | network (or press F: | L for more detailed | instructions a | and information). | |
| | Name | IP-Address | Subnet Mask | DHCP | Alternate IP | |
| | Broadcom NetXtrem | 10.103.12.216 | 255.255.252.0 | Enabled | Disabled | |
| | 3Com EtherLink XL 1 | 192.168.40.240 | 255.255.255.0 | Disabled | | |
| | No Adapter | | | | | |
| | | | | | | |
| | | | | | | |
| |] | | | | | |
| | | | | | | |
| | | Cancel | < Back C | iontinue > | Finish | |

2. In the "Available Network Adapters" area, select the network adapter you want to use for the corporate network and the ETAS network. If no network adapter is installed on the PC, the dialog window contains no entries.

Note

The type of addressing of the network adapter must be supported by the ETAS network. Otherwise, you cannot select the network adapter.

3. Click Continue.

The "Network settings for ETAS hardware (Page 2)" dialog window opens.

| Å | Network settings for I | ETAS hardware (Page 2) | × | | | | |
|---|---|---------------------------------|---|--|--|--|--|
| | Define address pool | | | | | | |
| | Enter a valid IP-address range for IP-address 192.168.40.240, Subnet Mask 255.255.255.0 | | | | | | |
| | Press Default to selec | t address range automatically. | | | | | |
| | | | | | | | |
| | Start Address: | 192 . 168 . 40 . 10 | | | | | |
| | End Address: | 192 . 168 . 40 . 227 | | | | | |
| | Subnet Mask: | 255 . 255 . 255 . 0 | | | | | |
| | | Default | | | | | |
| | | Cancel < Back Continue > Finish | | | | | |

4. Enter the IP address range for the ETAS hardware and the subnet mask, or click **Default** to have the Network Manager automatically complete the IP address range and the subnet mask.

You may accept these settings or overwrite them.

5. Click Continue.

The "Network settings for ETAS Hardware (Page 4)" dialog window opens.

| 🕫 Network settings for ETAS hardware (Page 4) |
|--|
| Setting for user defined IP-Address |
| ☐ Display warning before IP address assignment is executed |
| Activation only makes sense if you use the Ethernet network adapter for Company-LAN and ETAS-LAN in parallel |
| |
| |
| |
| |
| |
| Cancel < Back Continue > Finish |

6. If you want to define that a warning is displayed before the ETAS hardware is assigned an IP address, enable "Display warning before IP address assignment is executed".

Note

Enabling this warning is useful only if you want to run the PC both in the company network or on an ETAS measurement module in the ETAS network using this network adapter.

- 7. Click Finish.
- 8. Restart the ETAS software to make the changes become effective. If the Network Manager was started automatically during a hardware search or initialization, you do not have to restart the ETAS software to apply the changes.
- 4.5.2 Auto-Configuring Network Adapter for ETAS Hardware

The ETAS Network Manager offers the automatic assignment of IP address ranges in the ETAS network through the IP Manager. You can either use auto-configuration of a selected network adapter, or, if more than one network adapter is available, let the IP Manager auto-configure the ETAS network, including the selection of the adapter to be used.

How to auto-configure a selected network adapter for ETAS hardware

 In the Windows Start menu, go into the program folder of your ETAS software (below Start → Programs → ETAS), and select ETAS Network Settings.

The "Network settings for ETAS hardware (Page 1)" dialog window is opened.

| 周 | 🕫 Network settings for ETAS hardware (Page 1) | | | | | | | | |
|---|---|-----------------------------------|---------------|---------------|------------|--------------|--|--|--|
| Г | Auto configuration | | | | | | | | |
| | Auto IP address range | | | | | | | | |
| | Available network adapters Select the network adapter for the ETAS network (or press F1 for more detailed instructions and information). | | | | | | | | |
| | Active for | Name | IP-Address | Subnet Mask | DHCP | Alternate IP | | | |
| | | Broadcom NetXtrem | 10.103.12.216 | 255.255.252.0 | Enabled | Disabled | | | |
| | | 3Com EtherLink XL 1 No Adapter | | 255.255.255.0 | Disabled | | | | |
| | | по дарен | | | | | | | |
| | | | | | | | | | |
| | | | Cancel | < Back C | iontinue > | Finish | | | |

2. In the "Available Network Adapters" area of the "Network settings for ETAS hardware (Page 1)" dialog window, select the network adapter you want to use for the corporate network and the ETAS network. If no network adapter is installed on the PC, the dialog window contains no entries.

Note

The type of addressing of the network adapter must be supported by the ETAS network. Otherwise, you cannot select the network adapter.

- 3. Tick the "Auto IP Address Range" checkbox.
- 4. Click **Finish**.

The ETAS Network Manager automatically assigns default IP address ranges that will be used by the selected network adapter for addressing the ETAS hardware.

If later on, the IP address range is automatically changed by the IP Manager, a message is displayed in the system tray.

How to auto-configure a network adapter, with multiple network adapters being available

 In the Windows Start menu, go into the program folder of your ETAS software (below Start → Programs → ETAS), and select ETAS Network Settings.

The "Network settings for ETAS hardware (Page 1)" dialog window is opened.

| 🕫 Network settings for ETAS hardware (Page 1) | | | | | | |
|---|--|---|---|---------------------------------|------------------------------|--|
| Auto configuration Auto IP address range Image: Auto Configure ETAS Network | | | | | | |
| Available network adapters Select the network adapter for the ETAS network (or press F1 for more detailed instructions and information). | | | | | | |
| Active for | . Name Broadcom NetXtrem 3Com EtherLink XL 1 No Adapter | IP-Address 10.103.12.216 192.168.40.240 | Subnet Mask 255.255.252.0 255.255.255.0 | DHCP Enabled Disabled | Alternate IP Disabled | |
| | | Cancel | < Back | Continue > | Finish | |

2. In the "Network settings for ETAS hardware (Page 1)" dialog window, tick the "Auto Configure ETAS Network" checkbox.

The "Auto IP Address Range" checkbox is activated, and in the list of available network adapters, the "Active for ETAS Network" column is inserted.

- 3. Enable all network adapters that shall be available for auto-configuration through the IP Manager by ticking the corresponding checkbox in the "Active for ETAS Network" column.
- 4. Click Finish.

Starting with the network adapter that is currently selected in the dialog window, the ETAS Network Manager will go through the list (top-down), and use the first adapter which has a valid¹ IP configuration for ETAS and configure the IP address range automatically. If a configured network adapter fails, e.g. because the network adapter is being disabled or physically not available, the IP Manager will configure the next available network adapter automatically, and a message is displayed in the system tray, indicating the new configuration.

4.5.3 Enabling APIPA in the Registry

Note

You need administrator rights to make changes in the Registry.

To enable APIPA in the Registry:

- 1. Click **Start**, and then click **Run**.
- 2. Enter regedit, and click **OK**. The Registry editor opens.
- 3. Click the entry for a network adapter in the Registry key:

Global key (refers to all network adapters)

HKEY_LOCAL_MACHINE\SYSTEM\
CurrentControlSet\
Services\Tcpip\Parameters

Interface or card-specific key

HKEY_LOCAL_MACHINE\SYSTEM\ CurrentControlSet\ Services\Tcpip\Parameters\ Interfaces\adapter name

Note

If neither of these keys exists, the APIPA mechanism is enabled. If the global key exists but is not enabled, the setting of the global key is decisive. If the global key does not exist or is set to enabled, the card-specific key is decisive.

 Set the value for IPAutoconfigurationEnabled to 1. The APIPA mechanism is enabled.

^{1.} An IP configuration is valid if the network adapter either uses a fix IP address, or if DHCP and APIPA are enabled.

4.6 Troubleshooting Ethernet Hardware Access

In certain cases you might have problems accessing ETAS hardware via the Ethernet interface. For instance, if APIPA, a mechanism for IP addressing, has not been enabled on your system, you cannot select a network adapter in the Network Manager. You can find descriptions of potential problems and their solutions in "Troubleshooting General Problems" on page 32.

5 Troubleshooting General Problems

This chapter gives some information of what you can do when problems arise that are not specific to an individual software or hardware product.

- 5.1 Problems and Solutions
- 5.1.1 Network Adapter cannot be selected via Network Manager

Cause: APIPA is disabled

The alternative mechanism for IP addressing (APIPA) is usually enabled on all Windows XP and Vista systems. Network security policies, however, may request the APIPA mechanism to be disabled. In this case, you cannot use a network adapter which is configured for DHCP to access ETAS hardware. The ETAS Network Manager displays a warning message.

The APIPA mechanism can be enabled by editing the Windows registry. This is permitted only to users who have administrator privileges. It should be done only in coordination with your network administrator.

To enable the APIPA mechanism:

- Open the Registry Editor:
 - Windows XP: Click Start and then click Run. Enter regedit and click OK.
 - Windows Vista:
 Click Start, enter regedit in the entry field, and push <ENTER>.

The registry editor is displayed.

- Open the folder HKEY_LOCAL_MACHINE\SYS-TEM\ CurrentControlSet\Services\ Tcpic\Parameters\
- Click Edit → Find to search for the key IPAutoconfigurationEnabled.

If you cannot find any instances of the registry key mentioned, the APIPA mechanism has not been disabled on your system, i.e. there is no need to enable it. Otherwise proceed with the following steps.

> • Set the value of the key IPAutoconfigurationEnabled to 1 to enable the APIPA mechanism.

You may find several instances of this key in the Windows registry which either apply to the TCP/IP service in general or to a specific network adapter. You only need to change the value for the corresponding network adapter.

- Close the registry editor.
- Restart your workstation in order to make your changes take effect.

ETAS

5.1.2 Search for Ethernet Hardware fails

Cause: The versions of the Hardware and the ETAS MC Software are not compatible

If you are using ETAS hardware with ETAS MC software, you can use the ETAS HSP Update Tool to check the firmware version of your hardware:

- Make sure you use the ETAS HSP Update Tool with the latest HSP (Hardware Service Pack) version.
- Also use the HSP Update Tool to check whether the hardware is compatible with the MC software used.
- Make sure any additional drivers for that hardware are installed correctly.

You can get the required HSP from the ETAS internet pages under www.etas.com.

If you still cannot find the hardware using the HSP Update Tool, check whether the hardware offers a Web interface and whether you can find using this interface. Otherwise check whether one of the following causes and solutions might apply.

Cause: Personal Firewall blocks Communication

For a detailed description on problems caused by personal firewalls and possible solutions see "Personal Firewall blocks Communication" on page 35.

Cause: Client Software for Remote Access blocks Communication

PCs or notebooks which are used outside the ETAS hardware network sometimes use a client software for remote access which might block communication to the ETAS hardware. This can have the following causes:

- A firewall which is blocking Ethernet messages is being used (see "Cause: Personal Firewall blocks Communication" on page33)
- By mistake, the VPN client software used for tunneling filters messages. As an example, Cisco VPN clients with versions before V4.0.x in some cases erroneously filtered certain UDP broadcasts.

If this might be the case, please update the software of your VPN client.

Cause: ETAS Hardware hangs

Occasionally the ETAS hardware might hang. In this case switch the hardware off, then switch it on again to re-initialize it.

Cause: ETAS Hardware went into Sleep Mode

In order to save power, some ETAS devices will go to sleep mode if they do not see that they are connected to another device/computer.

To solve that, connect your Ethernet cable from your computer to the "HOST"/ "Sync In" port on the device. After the device turns on, connect to the device using the web interface and change the settings so that the device stays always on. Consult the device's manual for details on how to do that.

Cause: Network Adapter temporarily has no IP Address

Whenever you switch from a DHCP company LAN to the ETAS hardware network, it takes at least 60 seconds until ETAS hardware can be found. This is caused by the operating system's switching from the DHCP protocol to APIPA, which is being used by the ETAS hardware.

Cause: ETAS Hardware had been connected to another Logical Network

If you use more than one PC or notebook for accessing the same ETAS hardware, the network adapters used must be configured to use the same logical network. If this is not possible, it is necessary to switch the ETAS hardware off and on again between different sessions (repowering).

Cause: Device driver for network card not in operation

It is possible that the device driver of a network card is not running. In this case you will have to deactivate and then reactivate the network card.

To deactivate and reactivate the network card:

- To deactivate the network card first select in the Windows start menu the following item:
 - Windows XP:
 Control Panel → Network Connections
 - Windows Vista:
 Control Panel → Network and Internet
 Network and Sharing Center
- Right click on the used network adapter and select **Disable** in the context menu.
- In order to reactivate the network adapter right click on it again and select **Enable**.

Cause: Laptop power management deactivates the network card

The power management of a laptop computer can deactivate the network card. Therefore you should turn off power monitoring on the laptop.

To switch off power monitoring on the laptop:

- From the Windows Start Menu, select
 - Windows XP: Control Panel \rightarrow System.

Then select the **Hardware** tab and click on **Device Manager**.

- Windows Vista:
 Control Panel → System and
 Maintenance → Device Manager.
- In the Device Manager open the tree structure of the entry **Network Adapters**.
- Right click on the used network adapter and select **Properties** in the context menu.
- Select the **Power Management** tab and deactivate the **Allow the computer to turn off this device to save power** option.

- Select the **Advanced** tab. If the property **Autosense** is included, deactivate it also.
- Click **OK** to apply the settings.

Cause: Automatic disruption of network connection

It is possible after a certain period of time without data traffic that the network card automatically interrupts the Ethernet connection. This can be prevented by setting the registry key autodisconnect.

To set the registry key autodisconnect:

- Open the Registry Editor.
- Select under HKEY_LOCAL_MACHINE\SYSTEM\ ControlSet001\Services\lanmanserver\ parameters the Registry Key autodisconnect and change its value to 0xffffffff.
- 5.1.3 Personal Firewall blocks Communication

Cause: Permissions given through the firewall block ETAS hardware

Personal firewalls may interfere with access to ETAS Ethernet hardware. The automatic search for hardware typically cannot find any Ethernet hardware at all, although the configuration parameters are correct.

Certain actions in ETAS products may lead to some trouble if the firewall is not properly parameterized, e.g. upon opening an experiment in ASCET or searching for hardware from within INCA or HSP.

If a firewall is blocking communication to ETAS hardware, you must either disable the firewall software while working with ETAS software, or the firewall must be configured to give the following permissions:

- Outgoing limited IP broadcasts via UDP (destination address 255.255.255) for destination ports 17099 or 18001
- Incoming limited IP broadcasts via UDP (destination IP 255.255.255, originating from source IP 0.0.0.0) for destination port 18001
- Directed IP broadcasts via UDP to the network configured for the ETAS application, destination ports 17099 or 18001
- Outgoing IP unicasts via UDP to any IP in network configured for the ETAS application, destination ports 17099 through 18020
- Incoming IP unicasts via UDP originating from any IP in the network configured for the ETAS application, source ports 17099 through 18020, destination ports 17099 through 18020
- Outgoing TCP/IP connections to the network configured for the ETAS application, destination ports 18001 through 18020

Note

The ports that have to be used in concrete use cases depend on the hardware used. For more precise information on the port numbers that can be used please refer to your hardware documentation. The Windows operating systems come with a built-in personal firewall. On many other systems it is very common to have personal firewall software from third party vendors, such as Symantec, McAffee or BlackIce installed. The proceedings in configuring the ports might differ for each personal firewall software used. Therefore please refer to the user documentation of your personal firewall software for further details.

As an example for a firewall configuration, you will find below a description on how to configure the widely used Windows XP firewall if the hardware access is prohibited under Windows XP with Service Pack 2.

Solution for Windows XP Firewall, Users with Administrator Privileges

If you have administrator privileges on your PC, the following dialog window opens if the firewall blocks an ETAS product.

| 🝃 Wind | ows Secu | rity Alert | | × |
|----------|------------------------------------|--|----------------------|-------------------|
| ۲ | | protect your compute atures of this program | | ewall has blocked |
| Do you | ı w ant to | keep blocking this pro | ogram? | |
| 2 | <u>N</u> ame: <u>P</u> ublisher | INCA ETAS GmbH | | |
| | | Keep Blocking | <u>U</u> nblock | Ask Me Later |
| Internet | or a netwo | as blocked this program fr k. If you recognize the pro hould I unblock a program | ogram or trust the p | |

To unblock a product:

• In the "Windows Security Alert" dialog window, click on **Unblock**.

The firewall no longer blocks the ETAS product in question (in the example: ASCET). This decision survives a restart of the program, or even the PC.

Instead of waiting for the "Windows Security Alert" dialog window, you can unblock ETAS products in advance.

To unblock ETAS products in the firewall control:

 From the Windows Start Menu, select Settings → Control Panel. In the control panel, double-click the Windows
 Firewall icon to open the "Windows Firewall" dialog window.



• In the "Windows Firewall" dialog window, open the "Exceptions" tab.

| 🐱 Windows Firewall 🛛 🛛 🔀 | | | | | | |
|--|--|--|--|--|--|--|
| General Exceptions Advanced | | | | | | |
| Windows Firewall is blocking incoming network connections, except for the programs and services selected below. Adding exceptions allows some programs to work better but might increase your security risk. | | | | | | |
| Programs and Services: | | | | | | |
| Name ▼ASCET | | | | | | |
| File and Printer Sharing | | | | | | |
| ☑ IPMServer Module | | | | | | |
| ☑ IPMServer Module | | | | | | |
| Remote Assistance | | | | | | |
| Remote Desktop | | | | | | |
| UPnP Framework | | | | | | |
| Add Program Add Port Edit Delete | | | | | | |
| ☑ Display a notification when Windows Firewall blocks a program | | | | | | |
| What are the risks of allowing exceptions? | | | | | | |
| OK Cancel | | | | | | |

This tab lists the exceptions not blocked by the firewall. Use **Add Program** or **Edit** to add new programs, or edit existing ones.

• Make sure that the ETAS products and services you want to use are properly configured exceptions.

| - 0 | pen the "Change Setup" window. | | | |
|--|--|--|--|--|
| Change ! | Scope 🛛 🔀 | | | |
| To specify option bel | , the set of computers for which this port or program is unblocked, click an ow. | | | |
| To specify commas. | a custom list, type a list of IP addresses, subnets, or both, separated by | | | |
| Any computer (including those on the Internet) | | | | |
| 01 | My network (subnet) only | | | |
|) 📀 | Custom list: | | | |
| | 192.168.40.0/255.255.255.0 | | | |
| | Example: 192.168.114.201,192.168.114.201/255.255.25 | | | |
| | OK Cancel | | | |

- To ensure proper ETAS hardware access, make sure that at least the IP addresses 192.168.40.xxx are unblocked.
- Close the "Change Setup" window with **OK**.
- Close the "Windows Firewall" dialog window with **OK**.

The firewall no longer blocks the ETAS product in question. This decision survives a restart of the PC.

Solution for Windows XP Firewall, Users without Administrator Privileges

This section addresses users with restricted privileges, e.g., no system changes, write restrictions, local login.

Working with an ETAS software product requires "Write" and "Modify" privileges within the ETAS, ETASData, and ETAS temporary directories. Otherwise, an error message opens if the product is started, and a database is opened. In that case, no correct operation of the ETAS product is possible because the database file and some *.ini files are modified during operation.

The ETAS software has to be installed by an administrator anyway. It is recommended that the administrator assures that the ETAS program/processes are added to the list of the Windows XP firewall exceptions, and selected in that list, after the installation. If this is omitted, the following will happen:

• The "Window Security Alert" window opens when one of the actions conflicting with a restrictive firewall configuration is executed.

| | To help protect your computer, 'Windows Firewall has block some features of this program. | e |
|---------|---|---|
| our c | computer administrator can unblock this program for you. | |
| -53 | Name: ASCET | |
| 2 | Publisher: ETAS GmbH | |
| | For this program, don't show this message again | |
| | ОК | _ |
| nternel | vs Firewall has blocked this program from accepting connections from the t or a network. If you recognize the program or trust the publisher, you can vit. When should 1 unblock a program? | |

To unblock a program (no Admin privileges):

- In the "Windows Security Alert" dialog window, activate the option For this program, don't show this message again.
- Click **OK** to close the window.

An administrator has to select the respective ETAS software in the "Exceptions" tab of the "Windows Firewall" dialog window to avoid further problems regarding hardware access with that ETAS product.

6 ETAS Contact Addresses

| ETAS HQ | | |
|-----------------|--------|-------------------|
| ETAS GmbH | | |
| Borsigstraße 24 | Phone: | +49 711 3423-0 |
| 70469 Stuttgart | Fax: | +49 711 3423-2106 |
| Germany | WWW: | www.etas.com |

ETAS Subsidiaries and Technical Support

For details of your local sales office as well as your local technical support team and product hotlines, take a look at the ETAS website:

| ETAS subsidiaries | WWW: | www.etas.com/en/contact.php |
|------------------------|------|------------------------------|
| ETAS technical support | WWW: | www.etas.com/en/hotlines.php |

Index

С

CAN-Link II 12 Contents Documentation 11

D

Documentation 11 Structure 8

Ε

ETAS Contact Addresses 40 ETAS Network 20 Addressing 21 Configure network adapter 26 DHCP 22 Network Manager 22 Reserved addresses 24 Search error 31

F

Feature Product 7 Firmware Update Tool Starting 17

Н

HSP Online Help Quick Guide 8 HSP Service Package 6 HSP Update Tool 17

ļ

Installation 11 Installation Procedure 13 Introduction 5

L

Lambda Meter Configuration Tool 16 Log File Firmware State 18 History State 18

Μ

Manual, Working with 9

Ν

Network configuration s. ETAS network

0

Operation Use-Case Format 9 Overview Product 5

Ρ

Procedure, Update 18 Product Feature 7 Overview 5 Structure 5 Index

Q

Quick Guide HSP Online Help 8

R

Release Notes 11, 12 Restrictions 12

S

Service Package Components 6 Structure Documentation 8 Product 5 Supported ETAS Products 12 System Requirements 12

Т

Typographical Conventions 10

U

Uninstall Procedure 15 Update 17 Update Procedure 18 User Profile 8

w

What's new 5 Window Main 17