Release Note

xEPI 2

Release 6.0

1. Components of the current product version

Component	HW Release	FW Release
xEPI 2	2.0	6.0.2.2

2. Manuals of product version

Description	Language	Release
Installationsanleitung	German	6.0
Installation Guide	English	6.0

3. System requirements

For configuration of xEPI 2 and use of TH SCOPE easy the following system requirements have to be fulfilled:

3.1. Network

The following is required for xEPI 2 connection and operation in the network:

- 1 free IP address
- enablement of ports 80 and IP 224.0.5.128 port 2364 UDP

3.2. Software

The following software is required:

- Web browser with Adobe Flash player 10.0 or higher
- Adobe Reader 8 or higher to read documentation
- Application software for PROFIBUS configuration (i.e. PACTware or FieldCare)

4. Scope of delivery

The scope of delivery includes:

- xEPI 2
- Installation Guide

5. Compatibility

The xEPI 2 is compatible with:

- PROFIBUS Scope software release 4.2
- TH OPC Server DP release 2.0
- CommDTM PROFIBUS DP-V1 release 3.0 or higher
- TACC release 2.2 or higher

and supports baud rates up to 12 MBit/s.
The TH SCOPE supports Baudrates up to 1,5 MBit/s.

6. Installation instruction

Please read the installation guide before installing the xEPI 2.

7. New and enhanced functions

Changed functions

- Time stamp: When the measurement is started without a valid time server or taken over computer system time, all diagnostics will be displayed with a time stamp of 1970. Even if these settings will be changed later, the date for the previously occurred diagnostics remains unchanged.

8. Bug fixes

- The buttons “Test” and “Synchronize” were not disabled when changes in the time server settings have been made.
- The type of measurement could not be change to “Stop if buffer full”.
- The navigation from TH LINK (Ethernet-PROFIBUS 10003006) to TH LINK (Ethernet-PROFINET/Industrial Ethernet 10003007) was not possible.
- If more than one master has been identified, in the bus statistics the legend under the chart was not displayed completely.
- When you load the web page, the error message 2032 was displayed.

9. Notes and known problems

- Data that cannot be queried from the device because the device does not provide them are displayed with “n.a.” for "not available".
- Data that cannot be determined are not incorporated in the calculation of sums.
- Redundant master is displayed incorrect in the Live List.
- The assumed computer system time varies about 3 minutes after 1 week.

10. History

Changes in Release 6.0.1.1 (15-Apr-2011)

New and changed functions

- Performance improvements for trend analysis

Changes in Release 6.0.0.0 (22-Mrz-2011)

New function

- Inventory of all PROFIBUS stations
- Network type is displayed in the Network overview

Changed function

- New layout of the graphical user interface
- PROFIBUS Diagnosis is now called TH SCOPE
- Navigation is done by navigation tree and tabs
- Arrangement and allocation of the settings have been changed
- Login as administrator is no longer done on the settings pages. The login is done on every page via click on **Login**.
- Tags and descriptions can be entered by the administrator in the inventory.

Bug fixes

- The saving of unauthorized IP adresses was not prevented.
- All clear messages in the diagnostics list, although no slave has failed.
- The time stamp in the diagnostics list varies about 3 minutes within a few days.

Changes in Release 5.2.2.6 (08-Feb-2010)

New and enhanced functions

General

- Slave failures will be detected faster.

PROFIBUS Diagnosis

- There is a new „failure statistics“ view in the network overview.
  Here the PROFIBUS networks are displayed that have master failures, slave failures or repeats in their network.
- xEPI 2, that are more than 5 minutes unreachable, can be deleted from the network overview by an administrator.

Settings

- Operation modes:
  - The operation modes are change to „Passive PROFIBUS station“ and „Active/Passive PROFIBUS station“.
  - The operation mode „Passive PROFIBUS station“
    - supports the passive PROFIBUS Diagnosis of the xEPI 2 via web and the passive PROFIBUS diagnosis with the PROFIBUS Scope (also at the same time)
    - Start and stop of the diagnosis measurement even though when the PROFIBUS Scope is running.
  - The operation mode „Active/Passive PROFIBUS station“
    - provides all the possibilities of the passive operation mode and the following additional functions.
    - PROFIBUS Diagnosis and master applications (e. g. FDT, AMS or TH OPC Server DP) can be used at the same time. (Restrictions: using of PROFIBUS Scope and master application at the same time is not possible)
    - Start and stop of PROFIBUS diagnosis measurement is possible, even though the master application is running.
    - There are restrictions for the active diagnosis. Some values can not be established and will be displayed grayed out
- Parameter distribution
  - Enable a faster startup with the installation of several xEPI 2 devices
  - There will be one xEPI 2 defined as ”Parameter provider”. All other xEPI 2 can assume and save the parameters from the “Parameter provider”.

- Time Server
    - If no time server can be used, you can assume the computer system time.

Bug fixes

- Sorting of the columns does not remain the same after refreshing the page, but the default sorting is displayed.
- Diagnosis list in German language: The column station is displayed restricted.

Changes in Release 5.1.0.6 (09-Mar-2009):

New and enhanced functions

PROFIBUS Diagnosis

- Network overview:
  In the network overview the columns tags and host name are displayed in swapped order. Also the firmware version of the xEPI 2 is displayed.
- Input ability for tags and descriptions of the stations:
  Tags and descriptions can be entered and saved via web interface.
- In addition to the Siemens devices Diagnostic Repeater and DP/PA Link the Pepperl+Fuchs SK3 is also available in the failure statistics.

Settings

- User administration of the settings:
  Only the administrator can change the settings of the xEPI 2. Therefor a login on the settings page is required.
- Only changes of the network settings and the time server cause a restart of the xEPI 2.
- Changes on the baud rate or type of measurement need a restart of the measurement.
- Future firmware updates can be process via xEPI 2 web interface by the administrator.

Bug fixes

- When you tried to change the operation mode to PROFIBUS diagnosis, while the xEPI 2 is configured as PROFIBUS network access and in communication, the device had to be restarted. This error was corrected.
- Error correction of the graphical user interface (Formatting, spelling errors, language switching German/English)

- Language switching and changing of the operation mode caused a restart of the xEPI 2. This error was corrected.
- Live List: A non existing DPV1 master was displayed.
- Diagnosis list: The column ID is enhanced to display six-figure numbers.
- The refresh icon turns only when updating the web page by clicking on the icons.
- If a measurement was in progress, was stopped and restarted again, the ID in the diagnosis list was continued. Now it starts again with number 1.
- Telegrams from station address 127 caused a system crash of the xEPI 2 (known behaviour in networks with SK2 from Pepperl + Fuchs).
- When entering some special characters for tag, the entry was displayed incorrect.

Notes and known problems

- Sorting of the columns does not remain the same after refreshing the page, but the default sorting is displayed.
- Redundant master is displayed incorrect in the Live List.
- Diagnosis list in German language: The column station is displayed restricted.

Changes in Release 5.0.0.4 (21-Nov-2008):

The Ethernet-PROFIBUS-Interface xEPI was previously only applicable as an access to PROFIBUS via Ethernet for external applications such as:

- PROFIBUS diagnosis with the PROFIBUS Scope software
- PROFIBUS diagnosis with the TH OPC Server DP
- Field device configuration with FDT using the CommDTM PROFIBUS DP-V1
- Field device configuration with EDD (Emerson's AMS suite) using AMS HART Over PROFIBUS

This use as a PROFIBUS network access for configuration and diagnosis remains completely functional.

With the new firmware and new xEPI 2 release additional comprehensive web-based PROFIBUS diagnosis functions are available. Already existing xEPI units with release lower than 5.0 can be updated with the "Firmware Update xEPI 2" program. To do so, contact our technical support: support@t-h.de.

New functions:

- PROFIBUS diagnosis via web browser

Modified functions:

- To use the xEPI 2 as a PROFIBUS network access you need to stop the PROFIBUS diagnosis measurement and then switch to PROFIBUS network access operation mode. (Please read the Installation Guide for detailed information).

The previous products:

xEPI AMS incl. client software (order number: 10002319) and
xEPI FDT incl. CommDTM PROFIBUS DP-V1 software (order number: 10002317)

will be replaced by the new product

xEPI 2 Diagnostic Unit and Configuration Interface (Art.nr. 10002416).

11. Frequently asked questions

Access

Q: How many people can access the xEPI 2 via web at the same time?

A: Up to six people can access on the xEPI 2 simultaneously. Once a person logs onto the xEPI 2 as an administrator, no one else can access it.

Time display

Q: I selected **Yes** in **Use time server**, but I always get a time stamp of the year 1970. Why is that so?

A: It may be that the time server you set is not available from your network. Below the time server setting there is a possibility to test the set time server by clicking on the respective button. If no current date is displayed, please check your settings. If there is no time server available from your network, you have the possibility to take over the computer system time by selecting **No** for **Use time server**. Then click on the button to take over the computer system time.

DPV1 and MPI master

Q: The adjusted baud rate is detected correctly, but there is no master displayed. Why is that so?

A: The master is not shown because there has not been reference data exchange with the other stations.

Slave

Q: Why are my slaves displayed as failed although they are working properly?

A: Check if you have changed the station addresses of the slaves. If you change addresses (station addresses as well as xEPI 2 IP addresses) you have to restart the TH SCOPE measurement so that the new network structure is detected.

Q: What does failure of a slave mean in the failure statistics?

A: In the failure statistics a slave is counted as failed if the slave cannot provide I/O data for the master.

12. Approval

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Manuela Sievers	Trebing + Himstedt Product manager	Author		
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