

Release Notes

TACC

Version 3.21

October 2018

1 Components of Current Product Version

Component	Files	Version
TACC	setup.exe	3.21.0
HART Over PROFIBUS HSIF	AMSTHInterface.dll	4.30.0
TH AMS Link Server	TALS.exe	4.30.0
	ProfibusDll.dll	2.00.0
	HardwareConfigurationTool.exe	4.30.0

2 Product Documentation

Title	Version
Installation Manual TACC	October 2018
User Manual HART Over PROFIBUS	October 2018

3 Scope of Release

With this release the following components and documents are made available for download from the product page at <https://industrial.softing.com/en/downloads.html>.

4 New and Changed functions

New functions

- Support of Siemens ET 200M module IM153-2(6ES7 153-2BA10-0XB0) E-Stand: 4

Changed functions

- None.

5 Bug fixes

- HART Over PROFIBUS in AMS for Windows 10 versions failed.

6 Notes and known bugs

6.1 HART Over PROFIBUS

- When the ET 200M/ET 200iSP is not in Data Exchange (exchange of I/O data with the master), it switches to “NOT CONFIGURED” status.
- When the cyclic master switches to “STOP” operating status, a substitute value for the HART channels is created at the AO module of the ET 200M/ET 200iSP and communication with ValveLink is interrupted.
- Very rarely, “Communication error” or interruptions of ValveLink communication occur at eight-channel AI and AO version 1.0 modules of the ET 200M. This is caused by a malfunction in Siemens parts which sets parts of communication telegram to Zero. The problem is solved in version 1.0.1 of the AI and AO modules.
- BL20, ET 200M and ET 200iSP do not handle the HART communication accurately with DVC 5000. DVC 5000 is therefore not supported.
- If the PROFIBUS connection at class 1 master is reconnected after disconnection while process variables of HART device connected to ET 200M analog output card (SM 332 AO 8x HART (6ES7 332-8TF01-0AB0)) are displayed, error messages appear and the values are marked black. This is no AMS Device Manager or TACC issue. It is caused by the hardware.

7 History

Modifications in Release 3.21.0.0 (12-Oct-2018)

New functions

- Support of Siemens module IM 153-2 (6ES7 153-2BA10-0XB0)

Changed functions

- None

Bug fixes

- Now working under Windows 10

Modifications in Release 3.20.0.0 (03-Aug-2017)

New functions

- Support of Siemens module 6ES7 138-7FA00-0AB0 (4 F-AI I 2 Wire HART)
- Support for Windows 10

Changed functions

- None

Bug fixes

- None

Modifications in Release 3.11.0.0 (07-Jun-2016)

New functions

- Support of Pepperl+Fuchs modules LB 8109, LB 3106, LB 3107, LB 4106, LB 4107

Changed functions

- The TTR value is no longer taken into account for bus parameter testing.

Bug fixes

- None

Modifications in Release 3.10.0 (10-Dec-2015)

New functions

- Support of Wago couplers 750-333 and 750-833
- Support of Wago modules 750-482/484 and 753-482

Changed functions

- None

Bug fixes

- None

Modifications in Release 3.00.0 (2-Nov-2014)

New functions

- Support of Softing Gateway
- Support of TURCK BL20 E-GW-EN
- In Hardware Configuration is a “Bus parameter test” button added that checks the set bus parameter for errors.

Changed functions

- Changed Corporate Identity
- Renaming of “Set Bus Parameter” tool to “Hardware Configuration”
- Siemens CP5611 and CP5512 are no longer supported

Bug fixes

- None

Modifications in Release 2.41.0 (19-Feb-2014)

New and Changed Functions

HART Over PROFIBUS

- Support of Windows Server 2012 (64-bit version) and Windows 8 operating systems.
- Support of STAHL I.S.1 modules AIM HART 08 9461/12-08-21 and AUM HART 08 9468/32-08-11

Bug fixes

- None

8 Frequently Asked Questions

6.1 HART Over PROFIBUS

Q: Why does AMS Device Manager show an empty network after a **Rebuild Hierarchy**?

A: Ensure that your master has been parameterized and activated correctly depending on the cyclic master. If not, it will not be registered in the PROFIBUS network, or PROFIBUS failures might occur.

Q: Why does AMS Device Manager show a gateway without segments?

A: In the Hardware Configuration tool there is a gateway configured, but all assigned masters are deactivated or invalid.

Q: Why does the start-up of AMS Device Manager take so long?

A: HART Over PROFIBUS is designed with a 17-second time-out to build up the connection to TH LINK/xEPI 2 devices. If one of these units cannot be reached via TCP/IP, this time-out situation occurs. Please ensure that all inaccessible units are deactivated in the Hardware Configuration tool.

Q: Why does the hierarchy in AMS Device Manager not show a special Remote I/O?

A: This can happen if there is no class 1 master in the PROFIBUS network of the missing Remote I/O. In this case, it is possible to increase the time before HART Over PROFIBUS begins to communicate with the devices. During this additional time, the Remote I/O has the chance to connect to the PROFIBUS network. In the AMSTHInterface folder of the installation directory, you can access the AMSTHInterface.ini file. Open this file and search for WaitAfterMasterStart and assign the time in seconds that should elapse before communication (default value = 0), e.g., "WaitAfterMasterStart = 5" the wait time is five seconds.

Q: Why are process values highlighted in black in the AMS Device Manager process windows?

A1: The HART device is not accessible. Please check physical connections to HART device.

A2: Some devices are not capable of responding to several HART requests concurrently. HART requests are processed consecutively which requires more time. Increase the **Communication Timeout** in AMS Device Manager Network Configuration. A time-out period of 30000 milliseconds per open process window is recommended.

Q: I had to perform a **Rebuild Hierarchy** because my network structure has changed. Why does the HART communication not work any longer although it worked fine before rebuilding hierarchy?

A: Internal communication processes have to be terminated. Wait two minutes and try again.

Q: I made a **Rebuild Hierarchy** after the master failed. Now the communication with the Remote I/O Pepperl + Fuchs FB is not possible. What can I do?

A1: Reboot the Remote I/O Pepperl + Fuchs FB after the master is in running state.

A2: Avoid a **Rebuild Hierarchy** after the master failed.

Q: Why are no devices detected when a redundant Delta V series 2 Plus cards is used?

A: Please check the firmware version of the Delta V series 2 Plus cards. The firmware version must be 1.28 or higher.

7.1 Hardware Configuration

Q: Why is the **Configured Hardware** window empty after starting the Hardware Configuration tool? All bus parameter fields are grey.

A: No hardware has been configured. Click Hardware and add the new hardware. Bus parameters are only displayed when a master has been selected.

Q: Why are no masters listed in the **Unconfigured Hardware** area?

A1: No TH LINK/xEPI 2 units are available in the network, or they cannot be identified automatically. TH LINK/xEPI 2 units can only be located automatically if the search process is not blocked by firewall settings or similar security settings. If the TH LINK/xEPI 2 units cannot be searched automatically, they have to be inserted by manual addition and IP address entry.

A2: Only configured masters are saved when terminating the program. Unconfigured hardware is no longer displayed after program restart. It has to be added again.

Q: How many TH LINK/xEPI 2 units can I assign to one PROFIBUS gateway?

A: Up to 12 TH LINK/xEPI 2 units can be assigned to one PROFIBUS gateway.

Q: Why is a master listed as **Invalid** after manually adding the TH LINK/xEPI 2 unit via host name?

A: The **Invalid** status is assigned to a master if it has been added manually by entering its host name, but the IP address cannot be identified by the host name. This could be caused by the fact that there is no active DNS server, or if the TH LINK/xEPI 2 with statically set IP address has not been logged on at the DNS server. In this case you need to add your TH LINK/xEPI 2 via IP address.