PROFINET TEST TOOL | Installation

PROFINET TEST TOOL PRO (PNT-Pro) is the program for the analysis and monitoring of PROFINET networks. All functionality needed for troubleshooting and commissioning is placed in one single tool.

The tool has a simple and intuitive interface and uses the network card of your PC.

A report is provided to assess the conformity of your network according to the **guidelines of the PROFIBUS & PROFINET International consortium (PI).**

More information: https://www.helmholz-benelux.eu/product/profinet-tool-pro/

Installation

Note: The latest software is required for the installation of the software. You will find this on the supplied USB key. You can also always request the latest version via info@helmholz-benelux.eu

Run the „setup.exe" program from the USB key. With some USB keys, the PROFINET TEST TOOL software is bundled in a separate folder.

First steps

- Assign a free IP address and the correct subnet mask to the PC, using the network settings of your operating system.
- Connect your PC to a free port of a switch (or PROFINET device) with an ethernet cable.
- Insert the USB license key.
- Start the program **PNT – PN Tool (classic).**
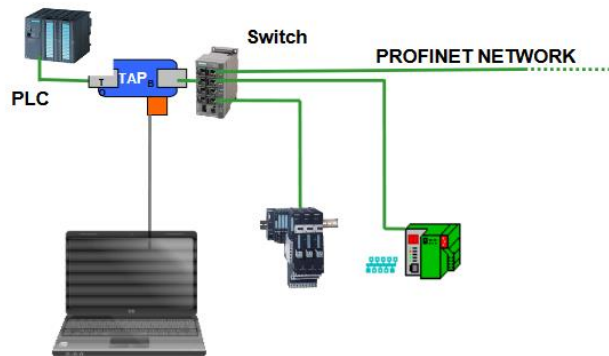- Create a new project using the „New" button.

Analysis with a free port

- Select „**Analysis via free port**".
- Select the correct PC interface and press „Analysis wizard" to start the easy analysis.
- When the analysis is completed you'll get an direct overview.
- A button states the result of each test. (OK, WARNING and ERROR)
- By pressing the button a brief report will be shown.

- On „**Errors and traffic**" you can check for errors in frames and the amount of traffic of each port.
- On „**Topology**" you can check if the topology is according to plan and schematics
- On „**HW-SW Info**" you can check the firmware of your devices and stations with diagnostic
- On „**Network stations**" you can find all ethernet stations with IP-address.

Analysis with a TAP

- Select „Analysis via TAP/Mirror port".
- Connect a TAP in series between the CPU and first device

Note: downtime is required to connect a TAP

- Select „Live list". Select the TAP interface.
- Press „Update TAP/Mirror analysis"
- Select „Start Network Validation, Commissioning"

- On „**Live list**" you can check missing stations, station with problems or in stop and number of stations lost
- On „**Traffic recording**" you can verify traffic load
- On „**Cycle time/load(offline)**" you can verify a traffic record and check loads, jitter, min PROFINET cycle times, max PROFINET cycle times, missing traffic

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Printing a report

- You can print the results of the single analysis by pressing the print button
- **For the full report press „print" from the buttons list on the left**