# TECH NOTE :: WTX120_PROFINET-connection (TIA-Portal)

Version: 17.09.22
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Status: HBM: public

## Brief description

This application example demonstrates how a connection via PROFINET can be established between Siemens PLC and WTX120. The WTX120 has two fieldbus connections and one Ethernet connection. The WTX is parameterized via the Ethernet connection using the Panel-X software. It is important that a sensor is connected to the WTX, otherwise no connection to the PLC can be established. From WTX-FW V2.1.0 this bug is fixed.

## Hardware configuration

## GSMDL-file

First, a GSMDL file must be downloaded from the HBM website:

www.hbm.com/de/6304/wtx120-industrielles-eichfaehiges-waegeterminal/

| | |
|---|---|
| **WTX120 PROFINET GSDML**<br>Device Description for Profinet version<br>**Datum**: 03/2017 \| **Version**: 2.32 \| **Dateigröße**: 5 KB | sprachunabhängig |



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## Add device

After the GSDML file is downloaded, it must be added to the device repository.

Press **Options -> Manage general station description files**

Select the previously downloaded file and install it.

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## Attach device

Now the WTX120 is in our library and we can insert the WTX into our programming environment.

The WTX can be inserted into the development environment using drag and drop. Likewise, the green connection between the devices can be created with drag and drop, it must only be dragged with the mouse from green point to green point. Now the IP address of the WTX , as well as the device name, must be adapted to the local network. To do this, click on the RJ45 symbol.

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## Settings on the WTX 120

The WTX120 must be set to ProfiNet under config Fieldbus in order to receive packets via ProfiNet. The following picture shows how to reach config Fieldbus there.

Follow the purple arrow!

The **Ethernet Device Configuration** tool can be used to change the device name and the IP address. This tool can be downloaded from the following link:

[https://www.hbm.com/de/8162/dse-ethernetfaehige-signalverarbeitung-fuer-die-waegetechnik/?product_type_no=DSE%20Ethernetf%C3%A4hige%20Signalverarbeitung%20f%C3%BCr%20die%20W%C3%A4getechnik](https://www.hbm.com/de/8162/dse-ethernetfaehige-signalverarbeitung-fuer-die-waegetechnik/?product_type_no=DSE%20Ethernetf%C3%A4hige%20Signalverarbeitung%20f%C3%BCr%20die%20W%C3%A4getechnik)

Important: WTX120 = ProfiNet connection / Next C... = EtherNet connection to the WTX
These must have different IP addresses. The Next C... IP address is the same as the one found under Networks in WTX.

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## Establish connection

If all devices are in the same network, the connection can be established. First, the program must be loaded into the PLC with the WTX120.

Note: The operator PC must also be in the network of the WTX as well as the PLC!!!

- Load the program into the controller (controller must be selected)

- Search for the control in the dialog

- Select "Load“

- Select "Start assembly“



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- Confirm with "Finish“

- Connect to the controller online

## Result

In the following picture you can see that the communication between PLC and WTX is working. The green dots in the picture show that the devices are reachable and exchange data.

## Legal notes

These examples are for illustrative purposes only. They are not subject to any warranty or liability claims.



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