PowerDebug X50/X51 TCP port number

2026-08-14 - Comments (0) - Setup / update

When you connect to a PowerDebug X50/X51 device via Ethernet, the communication is initiated like this:

1. TRACE32 PowerView on the PC sends a UDP packet to port 20000 on the PowerDebug X50/X51 device.
2. The PowerDebug X50/X51device responds with a UDP packet to tell TRACE32 running on the PC to switch to TCP.
3. TRACE32 PowerView connects via TCP to port 9187 on the PowerDebug X50/X51.
4. The PowerDebug X50/X51 accepts the TCP connection request on port 9187.

All further communication via Ethernet is then sent via TCP.

It’s possible to skip the initial UDP handshake, by using the line

```
NETTCP
```

instead of NET in the PBI= section of the configuration file, example:

```
PBI=
NETTCP
NODE=<node_name>
```

Please refer to the TRACE32 Installation Guide for more information about the TRACE32 configuration file.

Notes:

- NETTCP will **only** work for PowerDebug X50/X51devices; older devices do not support TCP.
- The PowerDebug X50 requires TRACE32 software version R.2022.09 SP2 (R.2022.09.000157066) or newer.
- The PowerDebug X51 requires TRACE32 software release R.2024.09 or newer