



TA 2110-0010

Technical Instruction

Function test for the DIA.NE WIN OPC interface



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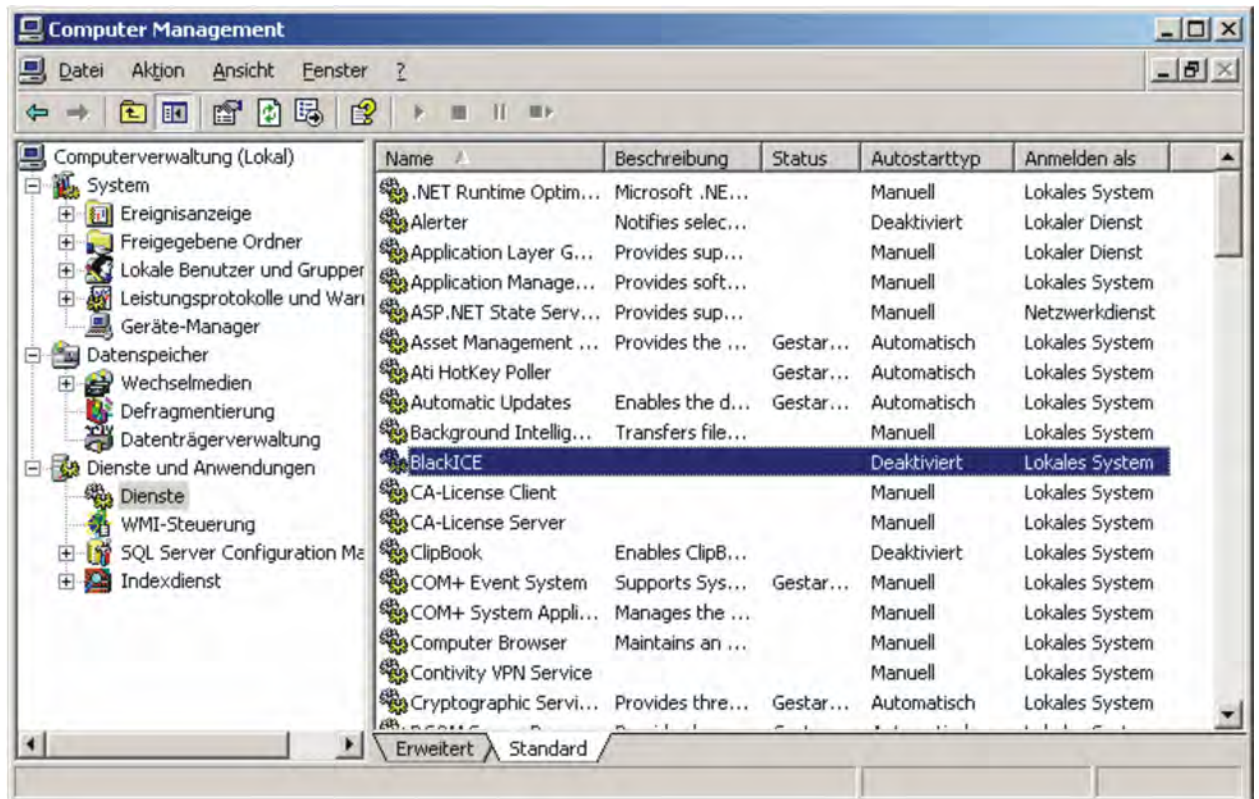
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1 Initial state, requirements

- WIN server with standard application or customer-specific application.
- "Softing OPC Toolbox Demo Client" must be installed on the laptop.
If not, please call the Competence Center.
You can download the programme at **Product Demos - OPC Client Controls**.
- Folder \ Softing V1.0.x move from USB stick (in folder \auf_D\...) to D:\ on laptop).
- Ethernet cables required: Patch cable for PLC NET, crossover cable for PLANT NET.
- The Blackice program (firewall) on the laptop must be disabled. Programs/Management/Computer Management/Services and Applications/Services/Blackice: right click Stop
Set the "Start-up type" under "Properties" to "Disabled".

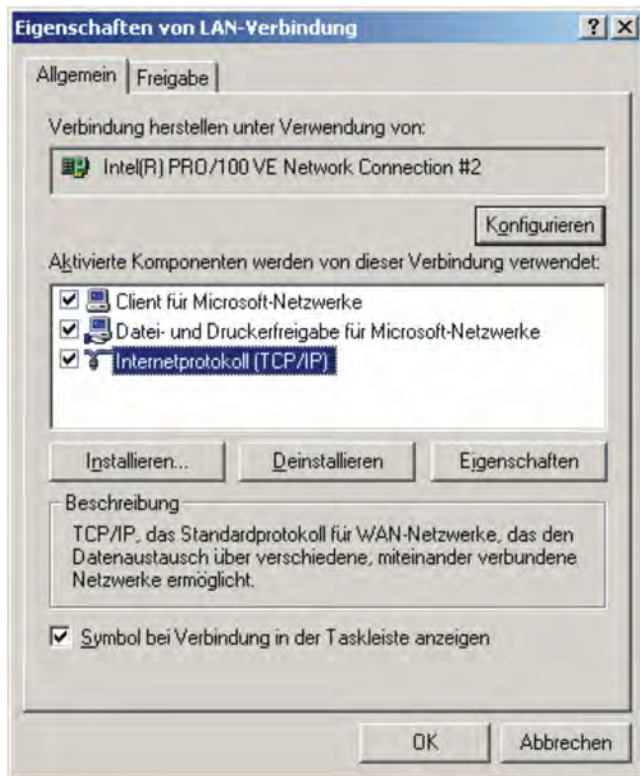


If another firewall is active, it must also be deactivated.

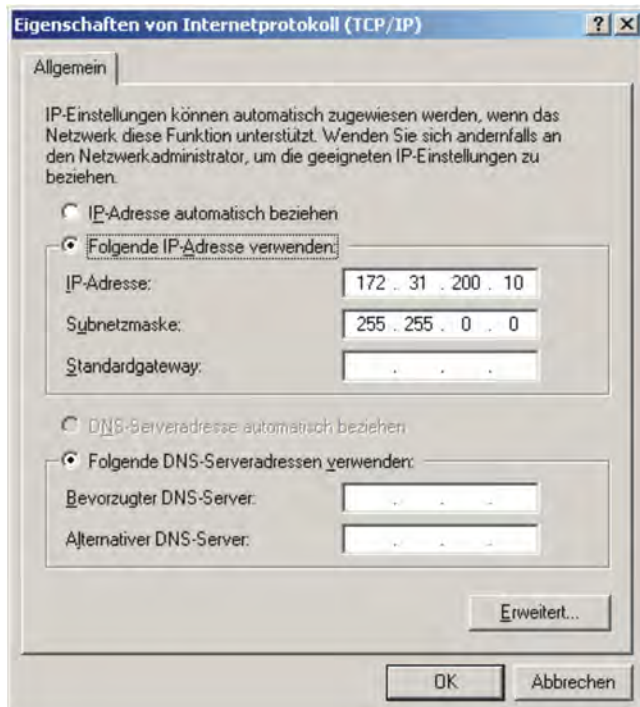
2 Disconnect the customer's Plant - Net from the WIN server and connect the laptop directly to the WIN server using a crossover cable.

3 Reconfiguring the laptop to the PLANT NET

- "My Network Places" icon | right click | Properties
LAN connection | right click | Properties.



- Internet Protocol (TCP/IP) | Properties



- IP address: 172.31.200.10 (If the server IP address has already been changed, the new address must be used).
- Subnet mask: 255.255.0.0
- OK | OK | Restart laptop.

4 Function test for the connection

- Start | Run... | cmd | OK.

```

C:\WINNT\system32\cmd.exe
C:\>ping 172.31.200.100
Ping wird ausgeführt für 172.31.200.100 mit 32 Bytes Daten:
Antwort von 172.31.200.100: Bytes=32 Zeit<10ms TTL=128
Antwort von 172.31.200.100: Bytes=32 Zeit<10ms TTL=128
Antwort von 172.31.200.100: Bytes=32 Zeit<10ms TTL=128
Antwort von 172.31.200.100: Bytes=32 Zeit<10ms TTL=128
Ping-Statistik für 172.31.200.100:
    Pakete: Gesendet = 4, Empfangen = 4, Verloren = 0 (0% Verlust),
    Ca. Zeitangaben in Millisek.:
        Minimum = 0ms, Maximum = 0ms, Mittelwert = 0ms
C:\>
  
```

- "ping" 172.31.200.100 (or 172.31.200.101 for Server 2) must work!

5 Start "Softing OPC Toolbox Demo Client".

6 Test data points

The data points can be checked using the predefined "*.soc – files". In these files it is assumed that the DIA.NE WIN Server's TCP/IP address is 172.31.200.100. If you have already set another IP address on the server, you must change the address in the Softing Client (B&R PVI OPC DA Server properties) or change the server address accordingly.

File | Open... | D:\Softing V1.0.x\

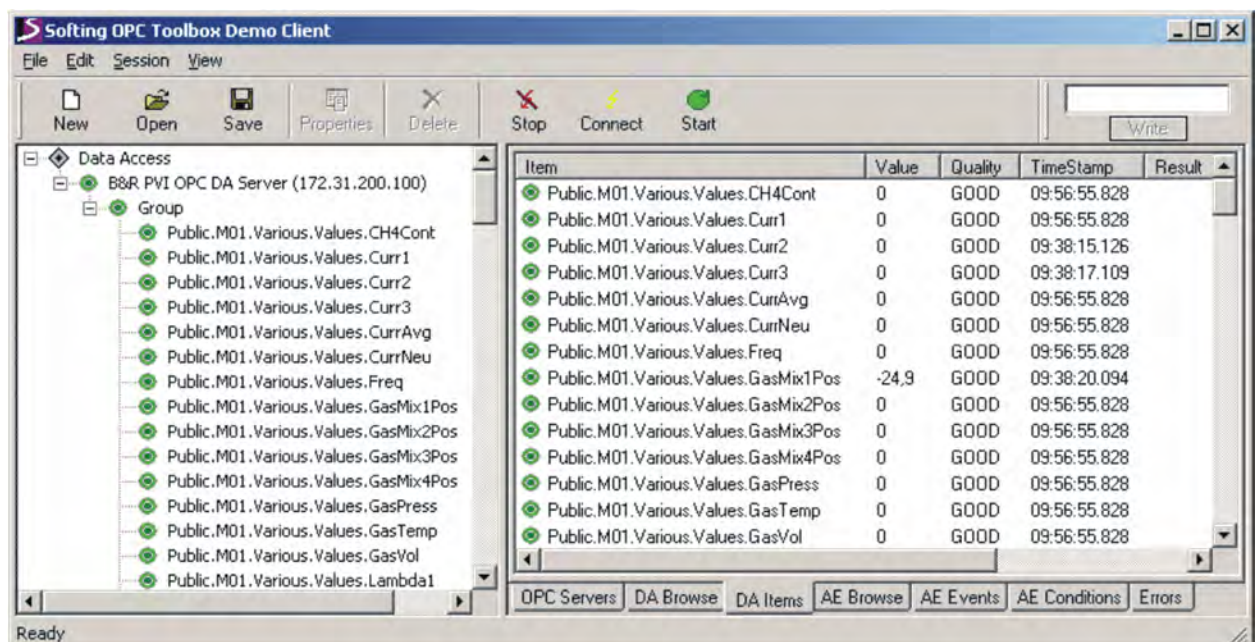
Alarms.soc for failures

Bits.soc for bit messages

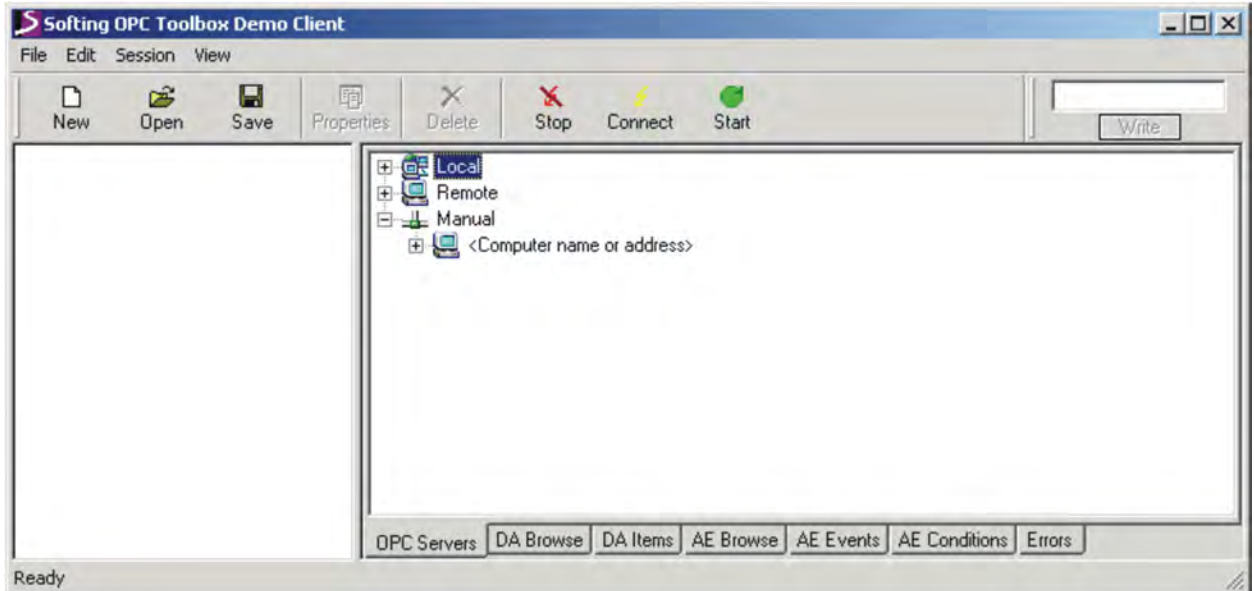
Counters.soc for counting values

Values.soc for measuring values

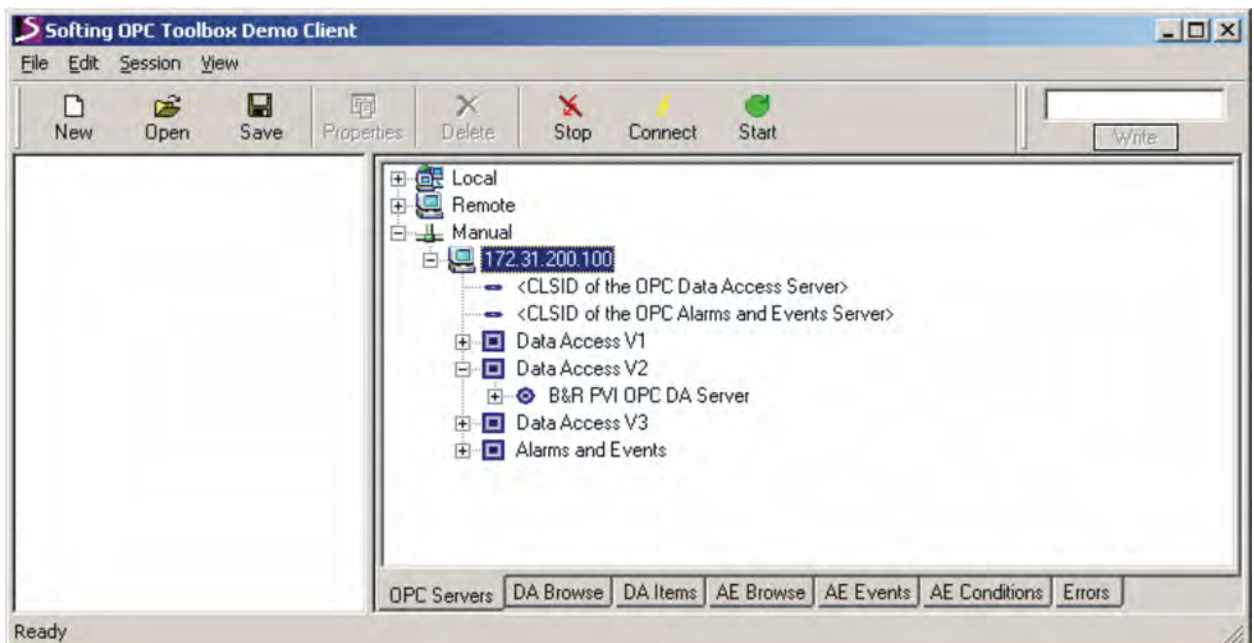
Tab "DA Items": Quality must be "GOOD", values under "Value".



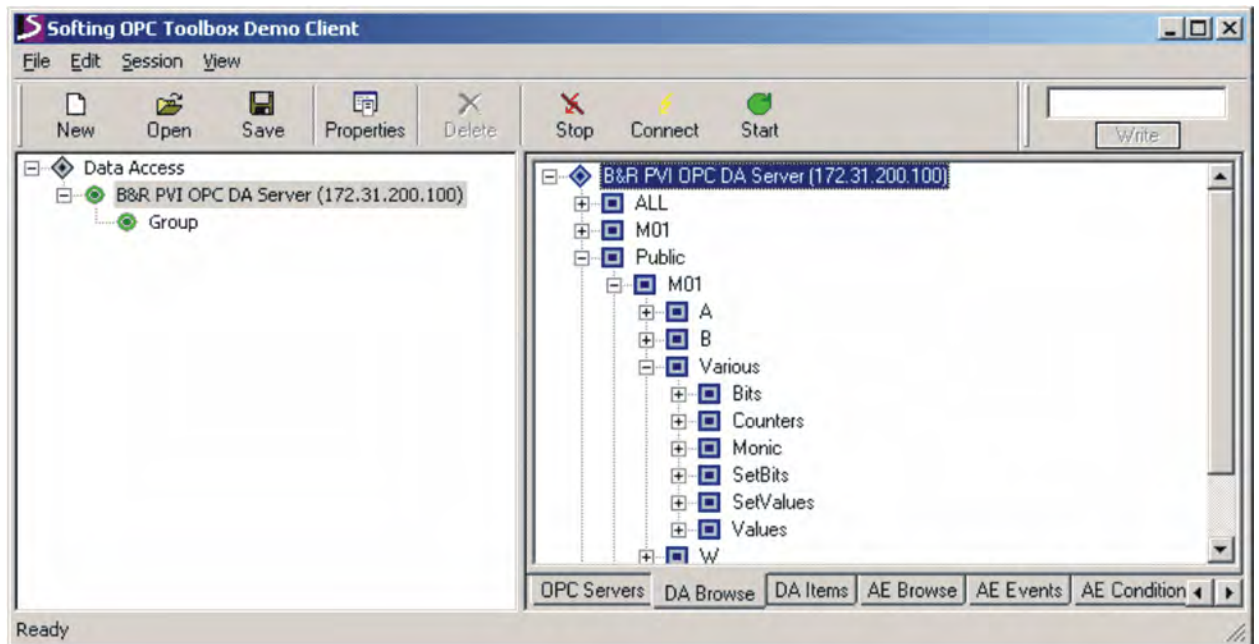
You can also check the data points manually (without "*.soc – file") by clicking on the plus sign in front of the "Manual" entry. Replace the "<Computer name or address>" entry by the DIA.NE WIN Server's TCP/IP address (e.g. 172.31.200.100).



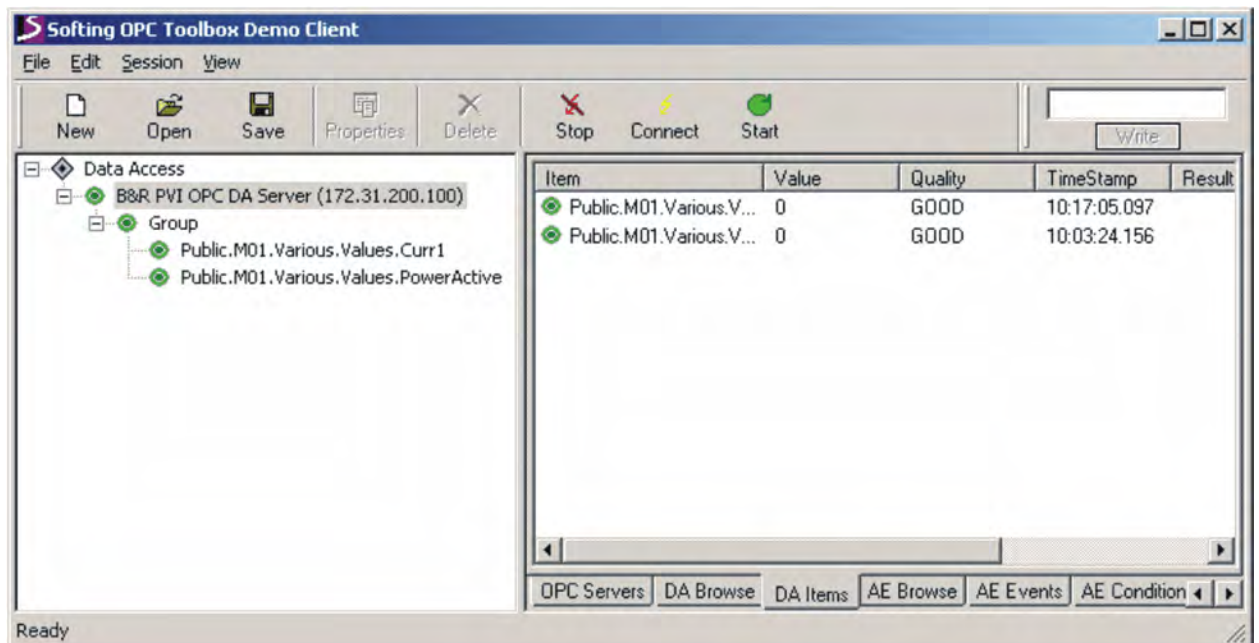
By double-clicking on "B&R PVI OPC DA Server", it is selected and appears in the left screen. Now go to the "DA Browse" tab.



The values under the "Public" entry are released and can be selected by double-clicking.

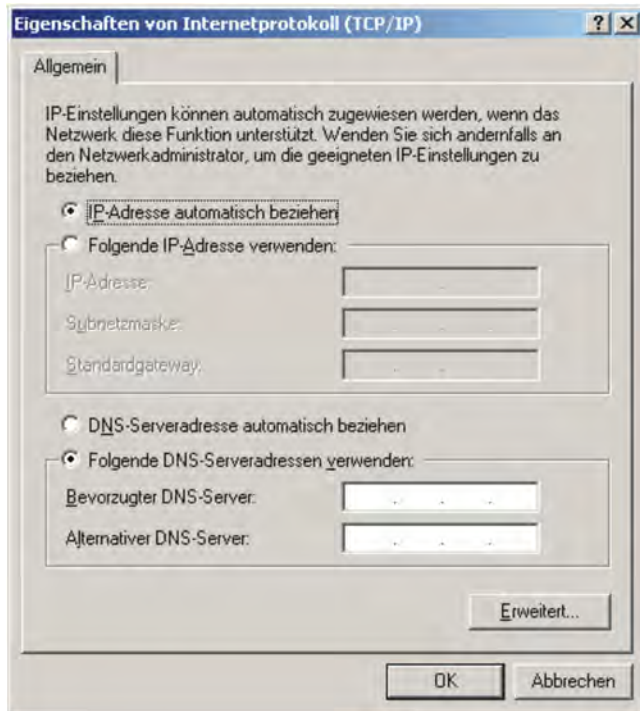


To view the values and quality, go to the "DA Items" tab.



7 After the test, disconnect the laptop from the PLANT NET.

8 Reconfiguring the laptop to the PLC NET



- For the various stages, see point 3.
- Obtain an IP address automatically.
- OK | OK | Restart laptop.
- The Blackice program (firewall) on the laptop must be restarted. Programs/Management/Computer Management/Services and Applications/Services/Blackice: right click → Start. Set the "Start-up type" under "Properties" to "Automatic" again.

9 Using the patch cable, connect the laptop to the HUB of the PLC NET.

10 Connect the customer's Plant-Net.

11 Reconfiguring the IP address of the PLANT NET (WIN Server) to the configuration desired by the customer

- Start DIA.NE WIN (http://192.168.123.10/ for Server 1 and http://192.168.123.40 for Server 2).
- Picture system | System settings.
- **Please note:** An address is only shown if a network is connected to the PLANT NET (external network card).

12 Test the OPC interface via the customer.**13 Revision code**

Revision history			
Index	Date	Description / Revision summary	Expert Auditor
2	30.04.2019	GE durch INNIO ersetzt / GE replaced by INNIO	Stojiljkovic T. <i>Pichler R.</i>
1	26.05.2010	Umstellung auf CMS / Change to C ontent M anagement S ystem ersetzt / replaced Index: -	Schartner <i>Pichler</i>