Guidelines for Successful Siemens Connection

For a successful connection with the Siemens PLC, please follow the following steps:

Step 1: Check Reachability of the PLC

The PLC's IP address should belong to the same subnet as the host computer and via ping reachable.

```
C:\Users\kus>ping 10.20.239.87

Ping wird ausgeführt für 10.20.239.87 mit 32 Bytes Daten:
Antwort von 10.20.239.87: Bytes=32 Zeit=2ms TTL=254
Antwort von 10.20.239.87: Bytes=32 Zeit=2ms TTL=254
Antwort von 10.20.239.87: Bytes=32 Zeit=1ms TTL=254
Antwort von 10.20.239.87: Bytes=32 Zeit=2ms TTL=254

Ping-Statistik für 10.20.239.87:
    Pakete: Gesendet = 4, Empfangen = 4, Verloren = 0
    (0% Verlust),
Ca. Zeitangaben in Millisek.:
    Minimum = 1ms, Maximum = 2ms, Mittelwert = 1ms
```

Step 2: Verify TSAP Settings

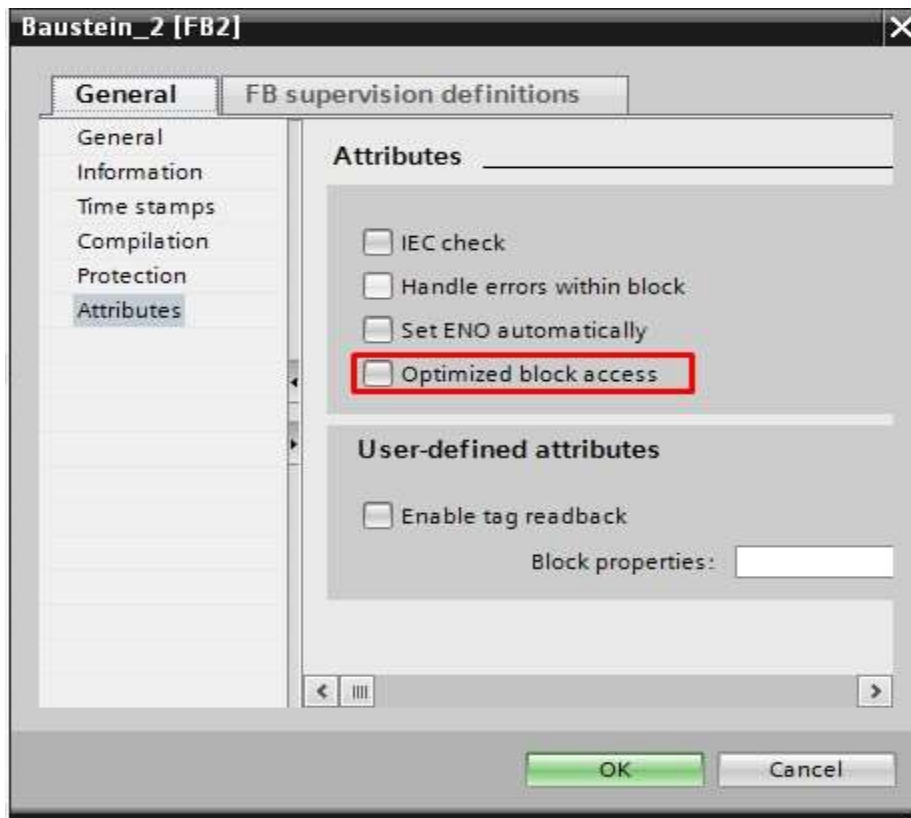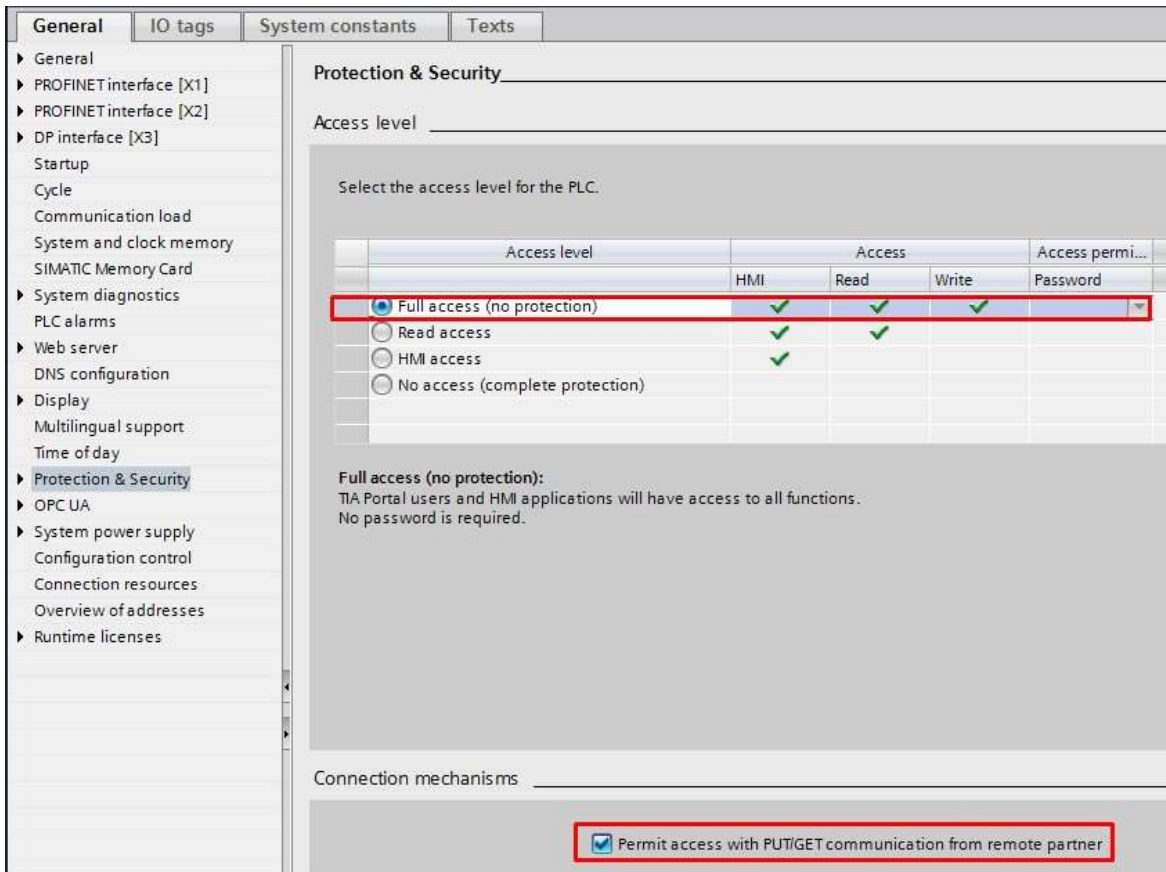Ensure correct TSAP settings. For detailed information, contact your SPS programmer.

In general:
- S7-300 usually uses TSAP 03 02 (binary)
- S7-400 usually uses TSAP 03 03 (binary)
- S7-1200 usually uses TSAP 03 01 (binary)
- S7-1500 usually uses TSAP 03 01 (binary)

Step 3: Configure Settings in Step7 or TIA Project

Navigate to the TIA project under Device Configuration -> General to configure these settings:

For S7 Protocol:
1. Disable password protection and enable full access.
2. Activate PUT/GET communication.
3. Deactivate Optimized Data Blocks (supported only in S7-2 protocol).
4. Recompile software/hardware after changes.

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For S7-2 Protocol:

1. Disable password protection and enable full access.
2. Activate PUT/GET communication.
3. Deactivate the Option "Only allow secure PG/PC and HMI connection".

Note: This option can be activated in newer versions facilitating TLS communication (e.g., V5.30 of dataFEED OPC Suite or V3.70 of edgeConnector Siemens or V1.75 of uaGate Series).

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