

SNMP – Simple Network Management Protocol

Summary Information

Communication Driver Name: SNMP

Implementation DLL: T.ProtocolDriver.SNMP.dll

Protocol: SNMP

Interface: TCP/IP or UDP

Addition Assemblies: SharpSnmpLib.dll and SharpSnmpLib.Mib.dll

Supported Operands:

Get Command

- OctetString (FS Device Datatype ASCII)
- ObjectIdentifier (FS Device Datatype ASCII)
- TimeTicks (FS Device Datatype ASCII)
- Integer32 (FS Device Datatype Long)
- Gauge32 (FS Device Datatype DWord)
- Counter32 (FS Device Datatype DWord)

Set Command

- OctetString (FS Device Datatype ASCII)
- Integer32 (FS Device Datatype Long)
- Counter32 (FS Device Datatype DWord)

Node Configuration

Station Configuration

<IP address> = The IP address of the equipment in the network

<Port> = The Port of the equipment in the network

<MIB> = TheMIB file of the equipment. If the MIB file is not specified, the SNMPv2-MIB file will be used

<Version> = The Version of the SNMP

<Authentication> = Authentication MD5 or SHA-1. Only for Version 3

<Passphrase> = The passphrase when Authentication is enabled

<Privacy> = Privacy DES or AES. Only for Version 3 and Authentication is enabled

<Passphrase> = The passphrase when Privacy is enabled

<UserName> = The username for version 3

Point Configuration

The syntax for the SNMP communication points is: [Community name];<OID>

Where:

- **[Community name]** = Public (default) or Private
- **<OID>** indicates the Object Identifier (OID) in the verbose notation. You can use the TreeView to select the OID from MIB

E.g.: .iso.org.dod.internet.mgmt.mib-2.transmission

Troubleshoot

The status of the driver's execution can be observed through the diagnostic tools, which are:

- Trace window
- Property Watch
- Module Information

The above tools indicate if the operations have succeeded or have failed. A status of 0 (zero) means communication is successful. Negative values indicate internal driver errors, and positive values indicate protocol error codes.