

SNMP Communication Driver

This document has the specific information related to the driver configuration. For a generic explanation on Devices, Channels, Nodes and Points configuration, please refer to reference guide.

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Section 1 – 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)

Section 2 – Node Configuration

Station Configuration

<IP address>: IP address of the equipment in the network

<Port>: Port of the equipment in the network

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

<Version>: Version of the SNMP

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

<Passphrase>: Passphrase when Authentication is enabled.

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

<Passphrase>: Passphrase when Privacy is enabled.

<UserName>: UserName for version 3.

Section 3 – Point Configuration

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

Where:

[Community name] can be:

Public (default)
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

Section 4 – Troubleshoot

The status of the driver execution can be observed through the Factory Studio diagnostic tools, that are:

- Trace window
- Property Watch
- Module Information

The above tools indicate if the operations have succeeded or have failed where the status 0 (zero) means success. Negative values are internal error codes and positive values are protocol error codes.

Revision History

Revision	Description	Date
A	Initial Revision	May, 2013
B	Added SNMP v3	Jun, 2016