



Overview

The TEConcept SMI Communication Client “SCC” provides access and control to any V1.1.4 compatible IO-Link Master via the SMI Test Communication Server (STCS) as specified in the IO-Link V1.1.4 test specification. Runs on any system which supports Python 3 (Windows, Linux, etc.).

Description

SCC can be used for easy interaction with IO-Link Masters via SMI and is useful for debugging and test automation. It provides a Command Line Interface for interactive operation. Commands are executed serially in request – response style. SMI libraries are also available for scripted operations, thus custom control logic can be easily implemented.

Features

- Interactive Command Line Interface
- Simple, text-based commands
- Command history
- Automatic reconnection
- Detailed SMI Service Arguments interpretation
- Octet string based custom SMI Service execution
- Plug-in system for vendor specific SMI Services
- Connection manager which handles the asynchronicity of the communication with the IO-Link

Advantages

- Useable from remote location (over TCP/IP socket)
- Hides communication complexities
- Suitable for analysing the SMI Service Arguments and ArgBlocks
- Simultaneous interaction with multiple Masters from script
- Support for out of specification values for testing purposes
- An STCS server that connects to TEConcept IO-Link Masters via USB, SPI, UART etc. is provided together with the SCC

Additional Services

- Safety extension
- Wireless extension
- BLOB transfer & Device FW update extension

Deliverables

- Manual with detailed examples
- STCS binary (Windows or Linux)
- Python SCC package