



# TTplugin TCP

## Transmission Control Protocol

The Transmission Control Protocol (TCP) is one of the core protocols of the Internet protocol suite providing reliable, in-order delivery of a stream of bytes. TCP is typically used by applications that require guaranteed delivery. It is a sliding window protocol that provides handling for both timeouts and retransmissions.

TCP establishes a full duplex virtual connection between two endpoints. Each endpoint is defined by an IP address and a TCP port number and is implemented as a finite state machine. The byte stream is transferred in segments. The window size determines the number of bytes of data that can be sent before an acknowledgement from the receiver is necessary.

### Features & Highlights

- Send and receive messages over TCP
- Multiple test components and multiple-port mapping
- Support of port arrays
- Runs as a TCP Client, Server or as both
- Standards-based testing with TTCN-3
- No coding efforts
- Pre-installed in TTworkbench (free of charge)
- Freely combinable with additional test access (TTplugins)

# TTplugin TLS

## Transport Layer Security

The Transport Layer Security (TLS) is a protocol that guarantees privacy and data integrity between client/server applications communicating over the Internet.

TLS is application protocol-independent. Higher-level protocols can layer on top of the TLS protocol transparently. The TLS port plugin enables the TLS communication in TTCN-3.

### Features & Highlights

- Send and receive messages over TLS
- Multiple test components and multiple-port mapping
- Support of port arrays
- No implementation efforts
- Runs as a TLS Client or as TLS Server
- Freely combinable with additional test access (TTplugins)