TTplugin Ethernet

Ethernet is standardized as IEEE 802.3. being a family of frame-based computer networking technologies for local area networks. It is the most widespread wired LAN technology.

Above the physical layer, Ethernet stations communicate by sending each other data packets, blocks of data that are individually sent and delivered. As with other IEEE 802 LANs, each Ethernet station is given a single 48-bit MAC address, which is used to both specify the destination and the source of each data packet.

The Ethernet port plugin uses existing interface devices, thus making the Ethernet network interfaces directly accessible in TTworkbench for communication with the system under test. Users can concentrate on writing test cases with full access to the system under test via Ethernet.

Features & Highlights

- Ethernet test system interface port forwards the payload of MAC frames to a mapped test component port
- Support of multiple physical interface devices
- Each mapped port has an own profile defining default MAC sender and destination address, payload type and physical interface used
- Profiles can be changed during test case execution
- Filters on sender, destination and payload type
- Multiple components can be mapped on one Ethernet port
- No Java coding efforts
- Standards-based testing with TTCN-3
- Freely combinable with additional test access (TTplugins)