

1802.3 Reaffirmation

- “If you enter an affirmative vote, you will be implying that this standard continues to reflect the state-of-the-art and contains no obsolete or erroneous information.”
- Can we say this about 1802.3?

Is this standard useful for testing current devices?

- From 1802.3 Scope statement: The Clause 14 options excluded from this conformance test suite are support for Auto-Negotiation and full-duplex operation. The test suite should demonstrate conformance to Clause 14 of the ISO/IEC 8802-3 standard [IEEE Std 802.3]."
- From 6.1.1: "Many of these tests do not apply to embedded MAUs where the physical AUI does not exist. In those cases, other standards may apply."
- Almost all current implementations have no AUI, have AN and are full-duplex.
- Only 6.2.1.10 and 6.2.1.11 contain tests that can be applied to current implementations but even these need adaptation for lack of AUI

Example test procedure

Test Group ID : 1411.01

Test Group Name : Transmit functions.

Test Group Purpose : To verify the characteristics of the Transmit function.

Test Case ID : 1411.01.01

Test Case Name : Transmit signal polarity.

Status : MANDATORY

Standard Reference : 14.2.1.1

PICS Reference : 14.10.4.5.2/1, 14.10.4.5.2/2

History :

Test Purpose : To verify the polarity of the TD circuit signals in relation to the DO circuit signals.

Note :

Test Setup : Test setup B.

Test Procedure : Apply test signal 1 to the DO circuit of the MAU. Monitor the DO circuit and the TD circuit for correct logical sense after the initial bit-loss time and before the start of idle of a packet transmission.

Conformance : The MAU shall receive the signals on the DO circuit and send them to the TD circuit of the MDI. A positive signal on the A lead relative to the B lead of the DO circuit shall result in a positive signal on the TD+ (Transmit Data +) lead of the MDI with respect to the TD- lead.

Other out of date areas

- 6.2.1.9 – is out of step with current 10BASE-T isolation specs due to evolution of the safety standards.
 - The test refers to IEC 60950 which according to the references section is IEC 60950-1991. The corresponding clause in 802.3, 14.3.1.1, has been updated to reference IEC 60950-1-2001.
 - The reference to IEC 60060 was updated to 60950-1-2001 Annex N in IEEE 802.3.