

Liaison report to IEEE 802.3 from IEC TC65 SC65

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July 8, 2026

IEC TC65/SC65 Liaison Status

IEC TC65 Opening Plenary held 29 June 2026 in Tokyo Japan (1400-1800 JST)

SC65C reported during the plenary, attendance was virtual

Liaisons to SC65C and subgroups were asked to provide reports a few weeks in advance

IEEE 802.3 now has Category C liaison with IEC TC65/SC65C WG9 & JWG10, as well as liaison with MT63444.

As the liaison with WG9 & JWG10 was only approved immediately prior to the meeting, the report was given as liaison to MT63444 at the request of TC65 leadership.

Liaison report to TC65/SC65C was discussed at the PDCC meeting 29 April 2026 and contained a list of IEEE 802.3 projects and standards produced since IEC TC65 had had a prior report in September 2024.

(https://www.ieee802.org/3/ad_hoc/PDCC/public/minutes_260429.pdf)

No verbal liaison reports were given due to time – only written submissions

TC65 meeting report

Meeting held 29 June 2026 1400 – 1800 JST

TC65 activities of interest to 802.3 are summarized here

WG9: Industrial Wired Communications Systems

Completed APL/SPE document in MT63444, and referenced 10BASE-T1S

WG9: Industrial Wired Communications Systems

Completed standards integrating APL/SPE (10BASE-T1L & SPoE) in MT63444,

Incorporating references to 10BASE-T1S as well, but unclear as to where

Fast-tracking integration of Ethernet standards, including 802.3dg (100BASE-T1L) as higher speed APL/SPE.

Target dates: CD 30 Sept 2026, CDV 31 Oct 2027, FDIS 30 Sep 2028, Pub 31 Dec 2028

WG9 Standards based on IEEE 802.3:

IEC 61784-2-0:2023: Industrial networks - Profiles - Part 2-0: Additional real-time fieldbus profiles based on ISO/IEC/IEEE 8802-3 - General concepts and terminology Edition 1.0

IEC 61784-2-x:2023: Industrial networks - Profiles - Part 2-x: Additional real-time fieldbus profiles based on ISO/IEC/IEEE 8802-3 - CPF x Edition 1.0 (x = 2, 3, 4, 6, 8, 10, 11, 12, 13, 14, 15, 16, 17)

MT63444: Ethernet APL & SPE

Published Ed2 of 63444, Liaison to IEEE 802.3 - **MT63444 is disbanded** and work is assigned to SC65C/WG9

Summary of other WG Reports to TC65/SC65C

JWG10: Industrial Cabling (IEEE 802.3 Liaison)

Reported establishing Cat C liaison w/802.3 – no other actions

Works with ISO/IEC SC25 WG3 & TIA TR42.9

WG12: Functional Safety for industrial comm systems (No IEEE 802 interaction)

Functional Safety – based on IEC 61131-9

C-liaisons with Fieldcomm Gp, ODVA, PROFIBUS & PROFINET Int.'l, EtherCAT Tech Gp, CC-Link, OPC-Foundation

WG15: High Availability Networks (IEC 62439-x) (No IEEE 802.3 interaction)

Reported liaison with IEEE 802 – no name given *or which 802 group...*

WG16: Wireless (5G, WirelessHART, specialized industrial wireless) (No IEEE 802 interaction)

WG17: Wireless Coexistence, industrial networking (No IEEE 802 Interaction)

(Active and planned spectrum management), IEC 62657

WG 18: TSN for industrial automation (IEEE 802.1 interaction, possible future 802.3)

IEC/IEEE 60802 ED1 – approved, expecting to convert work from joint project into a liaison request from IEEE 802.1, Resolution to start maintenance of 60802 as a joint project with IEEE 802

Mentions PLCA/Diff Services project (**802.3**) as potential point for future interaction

ahG19: Cybersecurity for industrial comm systems (No IEEE 802 interaction)

newly formed ad hoc –Oct 2025 – will be working on IEC 61784-6-x

JWG20: Comm Technologies and Architectures (No IEEE 802 interaction)

A new standard relating to where to use what communications technologies, **Possible interest to IEEE 802/802.3**

Questions?

Thank you!