

ISO/IEC SC25/WG3 Liaison Report

- Customer Premises Cabling –

March 2026

James Withey – WG3 Liaison Officer

James.withey@fluke.com

ISO/IEC SC25/WG3 Meeting

16-27th March 2026

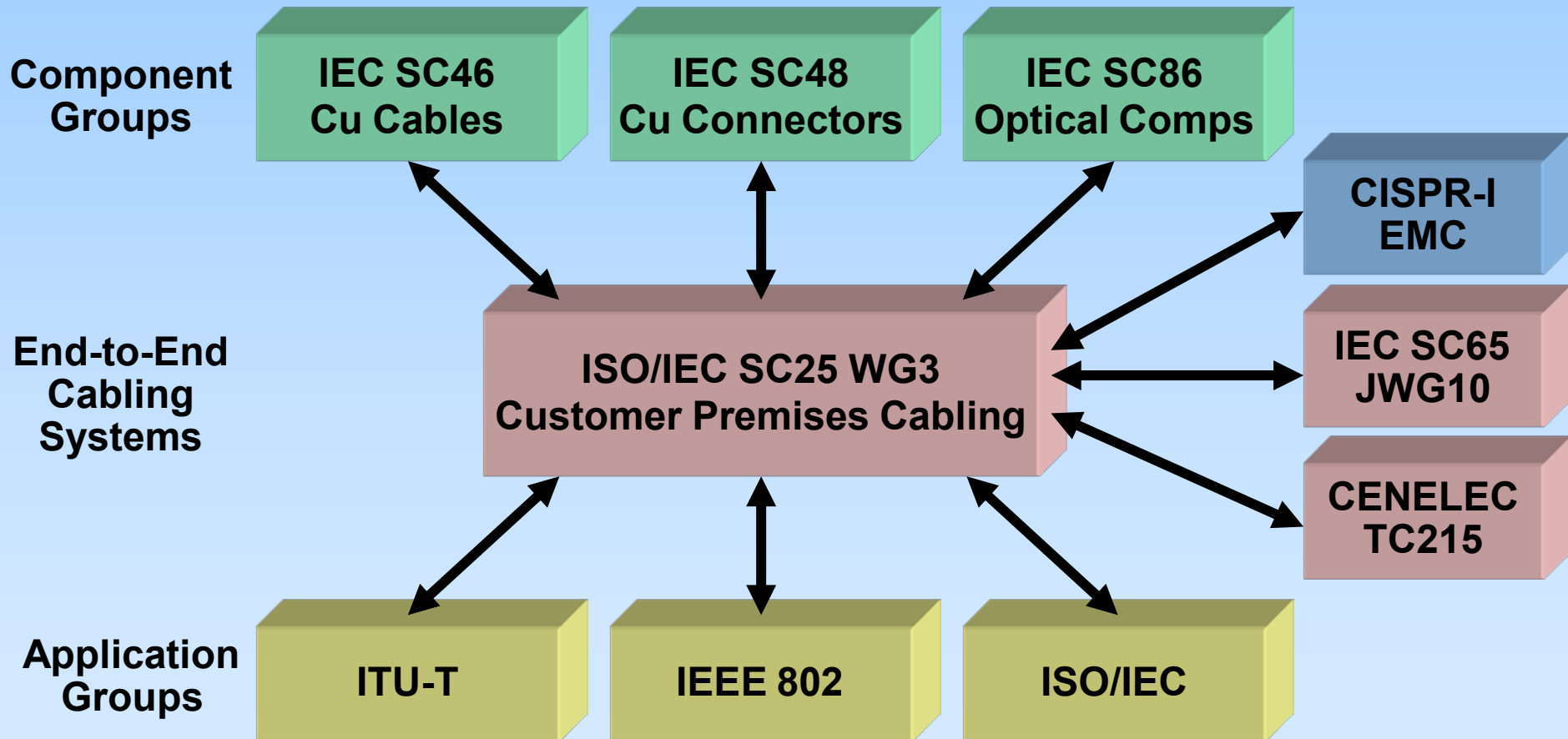
- Customer Premises Cabling -

Key Items:

1. ISO/IEC 11801-1 Amd1, for Generic single-pair cabling was published in November 2025.
 1. A small corrigendum has also been published.
2. Work has begun on the 2nd amendment to ISO 11801-1, including further efforts on creation of a plug 'n play set SPE classes and use of 0.25dB connectors in fiber optic channels
3. Work continues to an update to the ISO/IEC 11801-5 Structured cabling for data centers standard, focusing on AI data center topics
4. SC25 WG3 sent a Liaison to TC64 supporting direct reference to SC25 WG3 standards.
5. It will be required that cabling with current carrying capacity below 2A is assessed, labelled and identified according to the administration requirements of 14763-2, and a 6th WD will be handled at the next meeting.
6. The 11801-6 standard for Distributed Cablings Systems was approved for publication in April 2026.
7. ISO/IEC 14763-3 optical fiber testing standard is being amended, and the 1st WD was circulated April 2026
8. The Physical Network Security 24383 draft gives requirements for multiple levels of security will be circulated as a FDIS
9. The ISO 14763-6 Standard defining skillsets for installers is being prepare as a 2nd CD.



Process Model



Publications

ISO/IEC 11801-1:2017/AMD1:2025 - November 2025

Information technology - Generic cabling for customer premises – Part 1: General Requirements.

- Standard adding the three new single pair classes to the main ISO/IEC structured cabling standard

ISO/IEC TS 29125:2017/AMD1:2020/COR1:2025 - December 2025

Information technology - Telecommunications cabling requirements for remote powering of terminal equipment

- Corrigendum correction one of the tables covering temperature rise of cables carrying 2000mA.

Generic Cabling for Single-pair Applications

- **ISO/IEC 11801-1 Amd1 was published in November 2025, adding three classes of single pair cabling**
 - **T1-A, 20 MHz, 1000m (Generic cabling including support of 802.3cg)**
 - **Split into 1000m, 400m, 250m & 100m Sub classes**
 - **T1-B 600MHz 100m (Generic cabling including support of other IEEE SPE)**
 - **T1-C Additionally 1250MHz, 100m to present additional generic opportunities**
- **A small corrigendum was also published to remove reference length footnotes for PS AACR-F.**
- **Following conclusion of the ISO/IEC 11801-1 Amd.1 work, comments have been resolved to ISO/IEC 11801-6 Amd1 standard (Distributed Building Systems) which was approved for publication (AFDIS) in April 2026.**

ISO 11801-1 Amd 2

- **SC25 WG3 is conducting preparing a first draft for the next amendment for ISO/IEC 11801-1.**
- **Topics include:-**
 - 100Mb – SPE specified to at least 60 MHz.
 - Potential restructuring and renaming of single pair classes to simplify the document and accommodate 100BASE-T1L.
 - Attempting a plug 'n play approach to 2A SPE classes based on decoupling the class names from implied length
 - Work is very early on this topic and subject to change.
 - Adding Grade B fibre optic connectors with improves IL (0.25dB connectors).
 - Adding APC Multimode connectors.
 - Harmonisation of distances for 4pr cabling – alignment between cabling in our 11801 series and 14763-2.
 - Link Length Equations for SPE .
 - Update current vs reach tables to include 2A.
- **Work will continue in a series of ad-hoc virtual meetings before the next full meeting of SC25 WG3.**

ISO/IEC11801-5 Data Centre Updates for AI

- **SC25/WG3 is updating its ISO/IEC 11801-5 Generic Cabling for Data Centre standard to better support modern AI and hyperscale data centres, as these types of data centres can use different densities, topologies, cabling and cooling than other types of data centre.**
- **An updated WD will be prepared prior to an Ad-hoc in July, and a 3rd WD before the next SC25 WG3 meeting.**

ISO/IEC 14763-2

- **SC25 WG3 continues to address the changes that will be needed for single pair cabling within the planning and installation standard ISO 14763-2.**
 - **This will include:-**
 - **Consideration of cable heating in bundles for 2A powering (See ISO/IEC 29125).**
 - **There will be significant length derating as result considering thermal rise.**
 - **2A may also greatly reduce the number of cable in a bundle.**
 - **Changes to the RP levels of remote powering class to reflect single pair currents and applications**
 - **3 new RP classes for 1Pr cabling.**
 - **Inclusion of requirements for the treatment of missed 4Pr and 1Pr channels .**
 - **Updated guidance on MPO Polarity/Pinning/Angles.**
- **Work will continue in an ad-hoc to produce a next WD prior to the next full meeting of SC25 WG3.**

ISO 14763-3 Optical testing

- **Following publication of the 2024 edition of the ISO 14763-3 standard for testing of optical fibre cabling, SC25 WG3 is continuing to develop content for the next update to this document.**
- **Topics that will be included:-**
 - PON testing (Power Meter, OTDR)
 - PON Optical return Loss requirements and testing
 - Visual Inspection
 - Testing of MPO Breakout Links
 - Test methods and guidance on test equipment and MPO connectors
 - Addition of Reference MPO16 connectors
 - 3 Jumper test method for industrial optical connectors
- **A first working draft was circulated in April 2026 and will be reviewed at the next SC25 WG3 meeting.**

ISO/IEC 24383 Physical Network Security

- **Comment resolution was completed on the CDV IEC 24383 for physical network security including guidelines for customer premises in these areas:**
 - **Security planning**
 - **Security systems**
 - **Intelligent building systems**
 - **Administration systems**
- **The draft specifies requirements for 4 levels of security:**
 - **Open (to be based on 14763-2)**
 - **Restricted**
 - **Secure**
 - **Highly Secure**
- **The document is being circulated as an FDIS by July 2026.**

Other items

- **SC25 WG3 discussed the current TC64 developing standard IEC 60352-52 for selection and erection of wiring systems, and agreed with the IEEE 802.3 position that should TC64 should reference existing SC25 WG3 documents rather than duplicating or adding new requirements.**
 - **SC25 WG2 sent a liaison to TC64, reviewing its responsibility for ICT cabling standards, and encouraging both direct referencing SC25 WG3 standards, and cooperation on development of any new requirements.**
- **A standard defining the skillsets needed for ICT installers is being developed as ISO/IEC 14763-6, and is being preparing as a 2nd CD for national committee comment.**

Upcoming Meetings

- **November 9th-12th or 16-19th 2026, Hamburg**
- **March 8th to 12th & April 6th to 9th 2027, Virtual**
- **September 20th to 24th or October 11th to 15th 2027, (TBC)**

Document Access for 802.3

The main documents will be placed on a password protected area of 802.3 website

- Other documents available on request from your liaison officer.

[https://www.ieee802.org/3/private/liaison_docs/ISO IEC SC25/](https://www.ieee802.org/3/private/liaison_docs/ISO_IEC_SC25/)

The ISO/IEC SC25 WG3 documents provided to IEEE 802.3 are for the purposes of promoting awareness and coordination of the work of SC25 WG3 and avoiding overlaps and gaps in standardization.

The documents are covered by the circulation and distribution restrictions according to the ISO/IEC Category C Liaison relationship with 802.3. SC25 WG3 would like to encourage input from the IEEE to help make our standards better and welcomes feedback through the liaison channels.

If you have any questions about the documents provided, any other SC25 WG3 documents, or the terms under which they are provided please feel free to contact your liaison officer (james.withey.ieee@gmail.com).

Questions?

James Withey
Liaison Officer, IEEE 802.3 - ISO/IEC
SC25 WG3

james.withey.ieee@gmail.com