

ISO/IEC SC25/WG3 Meeting

Paris, France: 26 Feb - 02 Mar 2018

- Customer Premises Cabling -

Key Items:

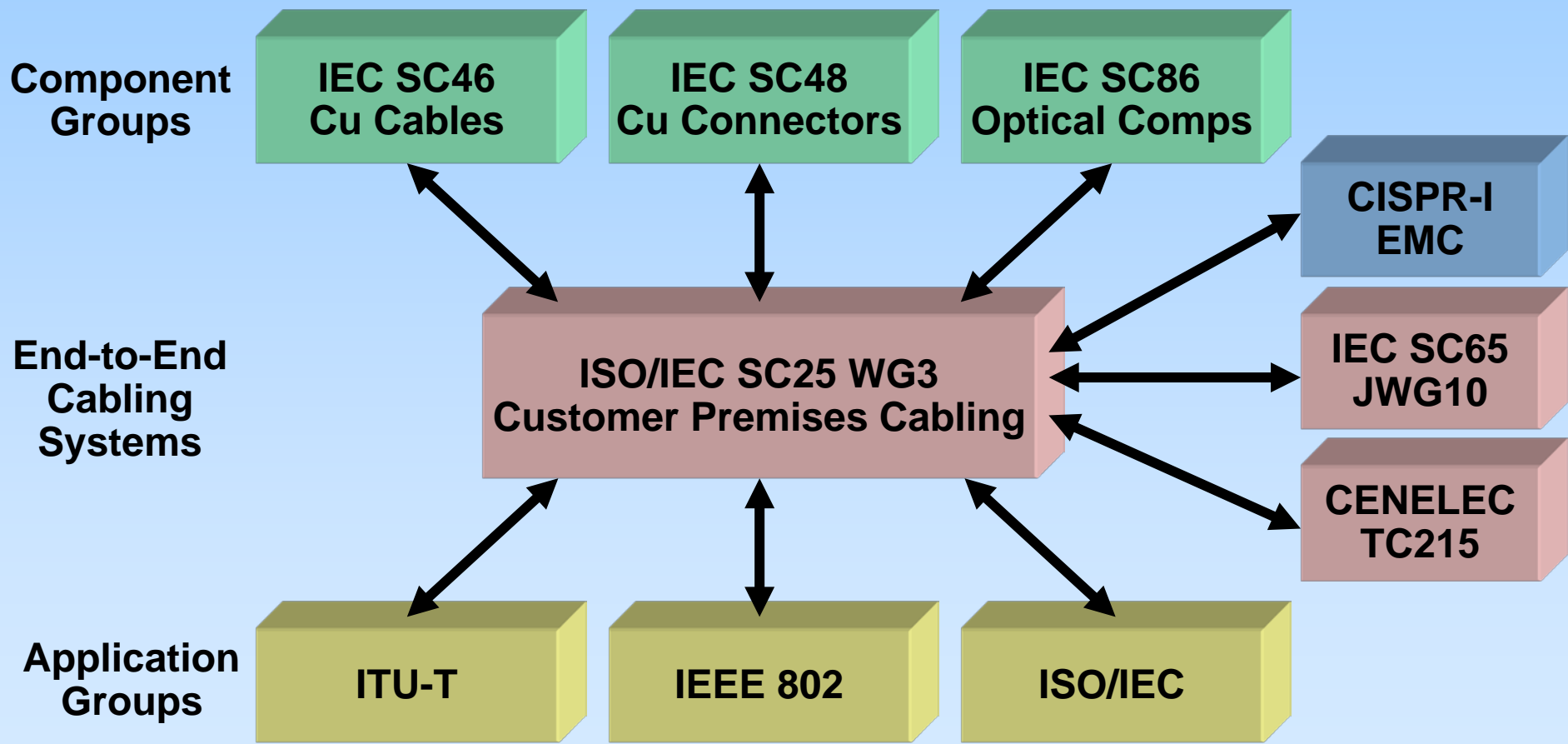
1. ISO/IEC 11801 Ed.3 all parts published (in Nov 2017)
2. ISO/IEC 14763-3 Am.1 Visual Inspection, was approved to be published
3. ISO/IEC TR 11801-9906 Application specific 1-pair Cabling
4. Generic cabling to support 1-pair applications is in development
5. Single-pair connectors/selection process was implemented
6. ISO/IEC 29125 amendment; Adding cable heating for 1-pair cabling is being developed
7. ISO/IEC 14763-2 Ed.2 Planning/Installation; Adding remote powering moves to a CD
8. ISO/IEC 18598 AIM is being extended for PoE considerations
9. NWIP ISO/IEC TR 11801-99xy High Speed Apps for MMF
10. NWIP Physical Network Security
11. Cabling to extend reach and capacity being studied



54 Participants

16 Nations

Process Model



ISO/IEC TR 11801-9906: Application specific Single-pair Cabling

- **TR to define single-pair cabling to 600MHz to support:**
 - **802.3bp (1000BASE-T1)**
 - **802.3bw (100BASE-T1)**
 - **802.3cg (10BASE-T1)**
- **WD1 received 58 comments of which 43 were technical**
- **all comments resolved, WD2 to be prepared & circulated**

Generic Cabling to Support Single-pair Applications

- detailed review of single-pair use cases indicated that a broad set of applications were common to office, industrial, home, data centre + distributed services environments:
 - IoT, BAS, Wi-Fi APs, LED lighting, surveillance, fire/alarm
- These broad set of common applications supported the development of *generic*, single-pair cabling to apply to all parts of ISO/IEC 11801
- Initial drafts were reviewed, and next working draft(s) will be circulated

Single-pair Connector Proposals

- **Detailed presentations received on single-pair connectors**
 1. Industrial single-pair connector: To be specified by IEC 61076-3-125.
 2. Industrial single-pair connector: NP going to SC48B.
 3. LC style single-pair electrical connector: Being standardised as IEC 63171-1.
 4. Single-pair connector (RJ45 jack for 4 single-pair plugs): NP in SC48B.
 5. Single-pair connector IEC 61076-3-104 for 4 single-pair plugs

- **A two stage national committee ballot selection process was determined to choose from these options.**
 - **Due to complete by September 1st**

ISO/IEC 29125: Remote Powering

- **Ed.2 was published as a TS in March 2017**
- **Am.1 is now being developed and will expand the scope to include 1 pair cabling of 1-pair cabling**
- **thermal evaluation of single-pair cables & cable bundles is now underway**

ISO/IEC 14763-2 Planning/Installation & ISO/IEC 18598 AIM

- **The 14763-2 Ed.2 Planning and Installation standard moves to a CD, and will mandate cabling that supports PoE in new buildings and refurbishments**
- **The 18958 AIM standard is being amended to include bundle, resistance, and other considerations relevant to PoE**

ISO/IEC TR 11801-99xy: High-speed MMF Applications

- **NWIP being circulated**
- **TR will provide guidance for MMF cabling to support a wide range of applications from 10G to 400G, as well as migration/upgrade considerations.**
- **supported channel lengths are listed for OM3, OM4 and OM5 fibre types**

NWIP Physical Network Security

- **NWIP being circulated**
- **Standard will develop physical network security requirements and guidelines for customer premises including:**
 - **Security planning**
 - **Security systems**
 - **Intelligent building systems**
 - **Administration systems**

Studies on Reach and Capacity

- **SC25 WG3 reviewed contributions exploring possibilities to extend cabling reach and increase capacity for both four pair and single pair cabling.**
 - **Work continues to evaluate use cases and opportunities**

Future Meetings

ISO/IEC SC25 WG3/Plenary	24-28 Sep 2018	Washington DC
ISO/IEC SC25 WG3	25 Feb-1 Mar 2019	TBD
ISO/IEC SC25 WG3/Plenary	23-27 Sep 2019	Nagasaki
ISO/IEC SC25 WG3	24-28 Feb 2020	TBD