ISO/IEC SC25/WG3 Meeting

Belgium: 11-14 September 2017

- Customer Premises Cabling -
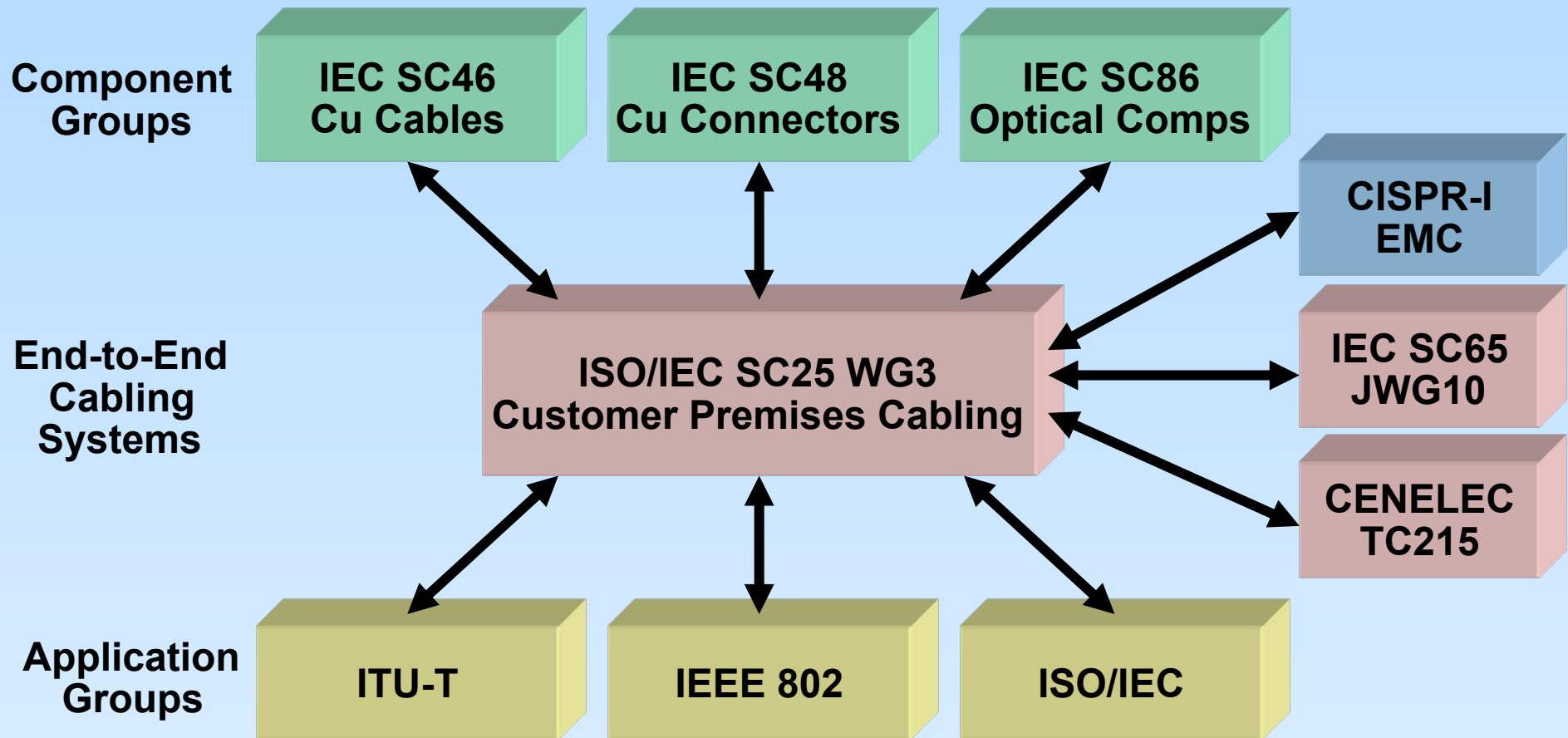
Key Items:

1. **ISO/IEC 11801 Ed.3 major revision - FDIS ballot positive, now being prepared for publication (contains Class I/II cabling to support 802.3bq)**

2. **ISO/IEC 11801-9904 Installed Cabling to Support 802.3bz now approved and published as a TR**

3. **ISO/IEC 11801-9905 Installed Cabling to Support 802.3bq 25GBASE-T being published as a TR**

4. **ISO/IEC 29125 Ed.2 to support 802.3bt now approved and published as a TS**

5. **application specific TR being developed to support 802.3 single-pair applications**

6. **generic single-pair cabling infrastructure to be defined as part of ISO/IEC 11801 series**

49 Participants   17 Nations

Process Model

ISO/IEC 11801 Edition 3: Generic Cabling

- ➢ **voting results from FDIS ballot:**

  - ➢ **ISO/IEC 11801-1 General Requirements (structure, dimensioning, channel)**
    - ➢ **21 nations approved; 0 nations disapproved**

  - ➢ **ISO/IEC 11801-2 Commercial Office Environment (unique aspects)**
    - ➢ **21 nations approved; 0 nations disapproved**

  - ➢ **ISO/IEC 11801-3 Industrial Environment (unique aspects)**
    - ➢ **21 nations approved; 0 nations disapproved**

  - ➢ **ISO/IEC 11801-4 Residential Environment (unique aspects)**
    - ➢ **21 nations approved; 0 nations disapproved**

  - ➢ **ISO/IEC 11801-5 Data Centre (unique aspects)**
    - ➢ **21 nations approved; 0 nations disapproved**

  - ➢ **ISO/IEC 11801-6 Distributed Building Services (unique aspects)**
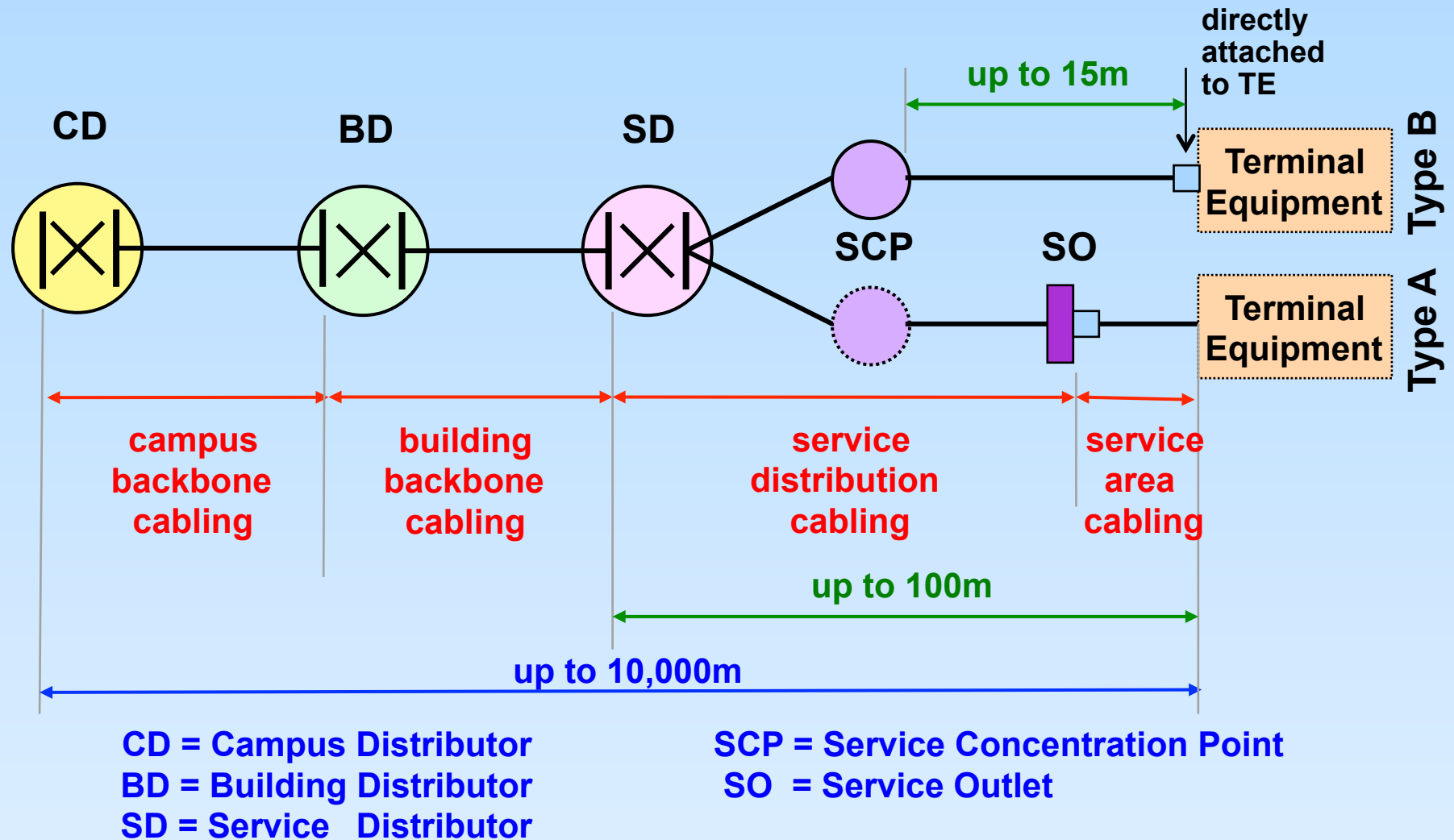   - ➢ **21 nations approved; 0 nations disapproved**

ISO/IEC TR 11801-9905: Guidelines for Installed Cabling to Support 25GBASE-T

- ➤ **TR to provide guidelines for use of installed cabling to support 802.3bq 25GBASE-T**
- ➤ **30m channel comprising Cat 7_A components supported**
- ➤ **12m channel comprising Cat 6_A or Cat 7 components**
- ➤ **defines use cases and guidance on existing cabling**
  - ➤ **certification, measurement + mitigation procedures**
- ➤ **Class I/II or better recommended for new installations**
- ➤ **ISO/IEC 11801-9905 DTR received substantial support**
  - ➤ **15 nations voted to approve**
  - ➤ **2 nations voted disapprove (JP, US)**
- ➤ **58 comments received from national review**
  - ➤ **8 technical + 50 editorial**
- ➤ **all comments resolved at meeting, a TR being prepared**

Cabling to Support Single Pair Applications

➢ **ISO/IEC 11801 to define generic structured 1-pair cabling infrastructure to support existing + emerging single-pair applications in enterprise and industrial environments**

➢ **new TR to define 1-pair cabling channel to support:**

  ✦ **802.3bp 1000BASE-T1**
  ✦ **802.3bw 100BASE-T1**
  ✦ **802.3cg 10BASE-T1L**

➢ **ISO/IEC 11801-6 to be amended to support single-pair applications in buildings, including:**

  ➢ **building/access controls/security**
  ➢ **audio-visual**
  ➢ **Internet of Things**

➢ **15m links from a Service Concentration Point (SCP)**

➢ **25N2753 liaison contains status of 1-pair cabling projects plus request relating to 802.3cg link segment freq. range**

ISO/IEC 11801-6 Distributed Building Services Cabling Model

directly attached to TE

up to 15m

Type B

up to 100m

up to 10,000m

CD   BD   SD

SCP   SO

Terminal Equipment

Terminal Equipment

Type A

campus backbone cabling

building backbone cabling

service distribution cabling

service area cabling

CD = Campus Distributor
BD = Building Distributor
SD = Service   Distributor

SCP = Service Concentration Point
SO = Service Outlet

Future Meetings

ISO/IEC SC25 WG3   26 Feb - 02 Mar 2018   Paris

ISO/IEC SC25 WG3   24-27 Sep 2018   USA (venue TBA)

ISO/IEC SC25 Plenary   28 Sep 2018   USA (venue TBA)