Key Items:

1. ISO/IEC 11801 Ed.3 major revision - initial WD has had a thorough review and 2nd WD being prepared
2. Class I/II, Cat 8.1/8.2 “ffs” 1.6-2.0GHz is withdrawn
3. ISO/IEC 11801-99-1 40GBASE-T Cabling published
4. ISO/IEC 11801-99-2 E2E Link Model 2nd WD prepared
5. ISO/IEC 11801-99-3 Matrix Model 2nd PDTR prepared
6. ISO/IEC 30129 Bonding Networks DIS approved
7. ISO/IEC 29125 WD prepared to support 802.3bt
Process Model

Component Groups
- IEC SC46 Cu Cables
- IEC SC48 Cu Connectors
- IEC SC86 Optical Comps

End-to-End Cabling Systems
- ISO/IEC SC25 WG3 Customer Premises Cabling

Application Groups
- ITU-T
- IEEE 802
- ISO/IEC

CISPR-I EMC
CENELEC TC215 WG1
ISO/IEC 11801 Edition 3: Generic Cabling

- existing design standards re-structured into single family:
  - ISO/IEC 11801-1 General Requirements (structure, dimensioning, channel)
  - ISO/IEC 11801-2 Commercial Office Environment (unique aspects)
  - ISO/IEC 11801-3 Industrial Environment (unique aspects)
  - ISO/IEC 11801-4 Residential Environment (unique aspects)
  - ISO/IEC 11801-5 Data Centre (unique aspects)
  - ISO/IEC 11801-6 Distributed Building Services (unique aspects)

- 524 comments received from an initial 508-page WD review
  - 430 technical + 96 editorial
- all comments resolved at meeting & 2\textsuperscript{nd} WD being prepared
- CD then planned as output from next meeting in Mar 2015
- DIS planned as output from following meeting in Sep 2015
ISO/IEC 11801 Edition 3: Resolutions of Note

1. “ffe” for Class I/II & Cat 8.1/8.2 specs 1.6-2.0GHz removed
2. proposal to adopt TIA Cat 8 IL requirement accommodated:
   0.0856/√f + 0.6371√f + 0.0023*f + 1.0285*10^{-7}*f^2
3. dc resistance per metre introduced for all cabling Classes
4. channel DCRU between pairs of 7%, 100mΩ for all Classes
5. Class I, II to be included in current capacity requirements
6. OM1, OM2 & OS1 to be grandfathered (moved to an Annex)
7. connector backwards-compatibility table to be extended, although it will be restricted to RJ-45 & GG-45 connectors
8. 802.3bq 40GBASE-T & 802.3bt 4-pair PoE to be introduced to the table of supported applications
Power over Ethernet

- ISO/IEC TR 29125 being extended to support higher currents for IEEE 802.3bt 4-pair PoE:
  1. temp rises for Cat 5 to Cat 7 solid conductor cables plus 0.4mm stranded cords
  2. bundle sizes up to 100 cables
  3. up to 600mA per conductor
  4. range of installation environments
  5. existing model used to estimate temp rise, with values based on the implicit DCR derived from IL of each cable Category

- 1st draft forwarded as WD for expert review
Cable Bundle Heating Analysis

100 Cables (calculated from 91-bundle & 37-bundle test results)

- **Cat 5 U/UTP**
- **CAT7A S/FTP**
  - 110Ω/km
- **CAT6A U/FTP**
  - 150Ω/km

Source: Prysmian
## Future Meetings

| ISO/IEC SC25 WG3 | 02 - 06 Mar 2015 | San Juan, Puerto Rico |
| ISO/IEC SC25 WG3 | 07 - 10 Sep 2015 | Milan, Italy |
| ISO/IEC SC25 | 11 Sep 2015 | Milan, Italy |