

**ISO/IEC SC25/WG3 Meeting**  
**Seattle, WA: 18-21 October 2010**  
**- Customer Premises Cabling -**

## **Highlights:**

1. **ISO/IEC 11801 Ed.2 Am.2 published 2010**
2. **ISO/IEC 24764 Data Centre Cabling issued 2010**
3. **ISO/IEC 29125 PoE Cabling published 2010**
4. **ISO/IEC 14763-2 Planning & Installation 2<sup>nd</sup> FCD**
5. **ISO/IEC 15018 Home Cabling media changes**
6. **ISO/IEC cabling standards to be re-structured**
7. **ISO/IEC 11801 Ed.3 planned – change list live**
8. **No RL requirements for optical links/channels**
9. **Healthcare Facility Cabling project proposed**
10. **EMC testing to be considered for cabling**



**67 Participants**

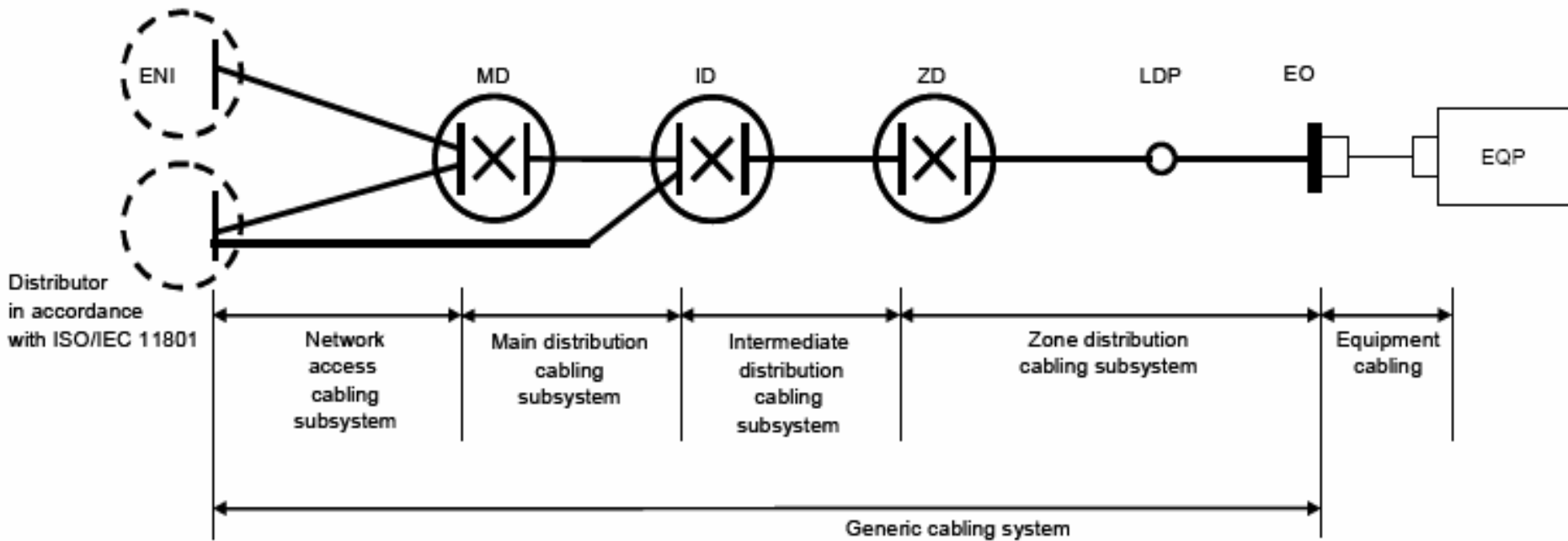
**23 Nations**

# ISO/IEC 24764

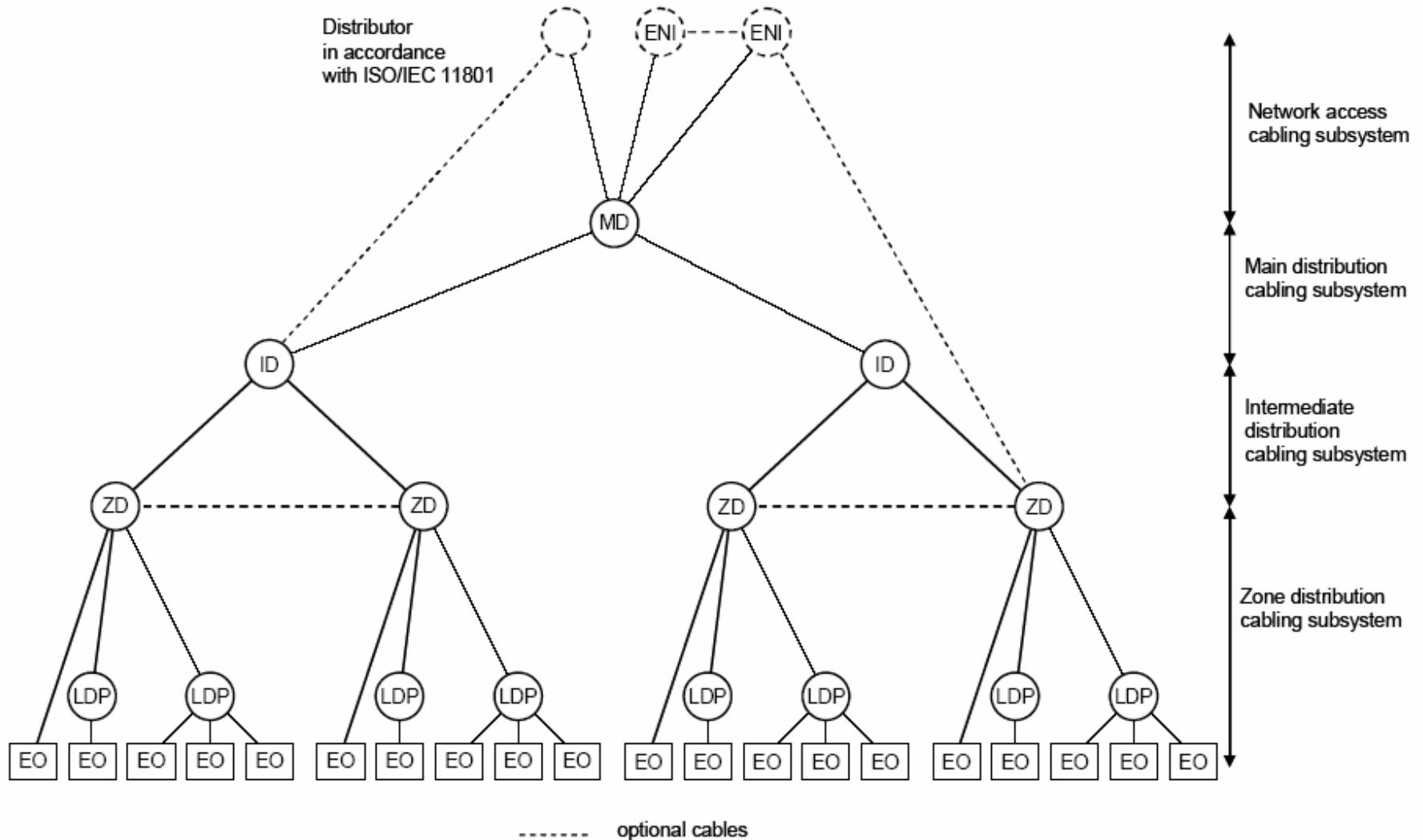
## Data Centre Cabling

- additional cabling tier being introduced as Am.1
- *intermediate distribution cabling* to provide more flexibility in data centre configurations
- new material extracted from TIA-942-A D2.0
- PDAM to be circulated in parallel with a NWIP

# ISO/IEC 24764 3-tier Cabling Architecture



# ISO/IEC 24764 3-tier Cabling Architecture



# **ISO/IEC 14763-2**

## **Cabling Planning & Installation**

- **1<sup>st</sup> FCD failed; 16 nations in favour, 8 against**
- **394 national comments including 169 technical**
  - **many comments relate to segregation & sampling**
- **only two-thirds comments resolved at meeting**
- **2<sup>nd</sup> FCD to be circulated for vote < May 2011**
- **hoped to circulate an FDIS for vote < Oct 2011**
- **expected to become a compliance requirement within many tenders and contracts**

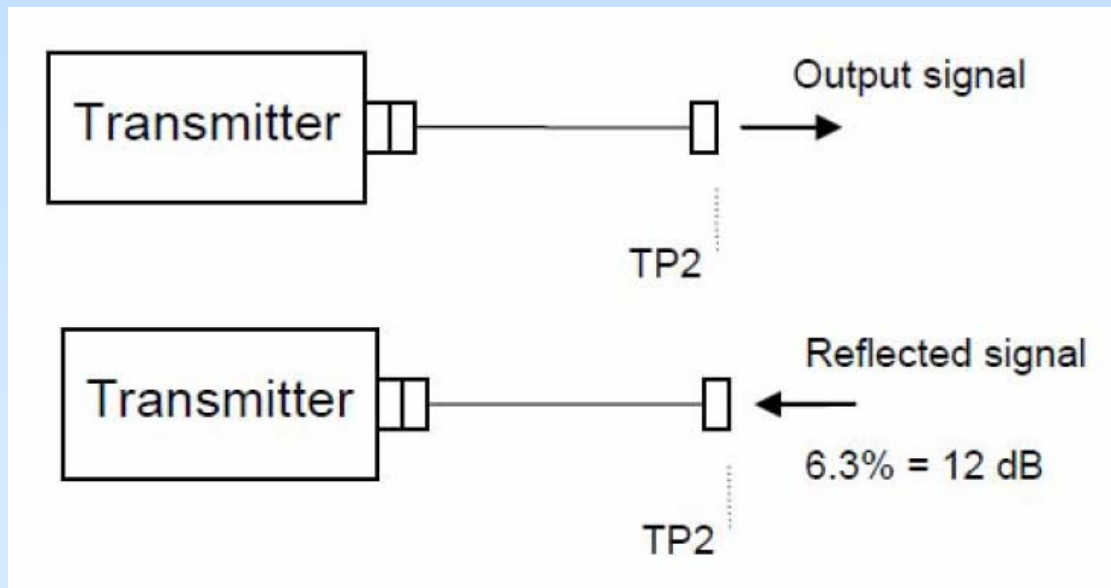
# ISO/IEC 15018

## Home Cabling

- **3<sup>rd</sup> PDAM got substantial support, now FPDAM**
  - introduces optical fibre aspects
  - US proposal to include OM4 accommodated with “OM3 minimum for OF-300”
- **substantial review planned for BCT coax cabling**
  - questionnaire to be sent to relevant groups
  - coax obsolete due to demise of analogue services?
  - UK will terminate analogue services in 2010
  - France plans to terminate analogue services in 2011

# Optical Return Loss Requirements

- SC25 WG3 requested clarification on optical RL requirements for 1G/10G/40G/100G MMF Ethernet
- ISO/IEC 11801 has no optical RL for links/channels
- MMF Ethernet specs require Tx to *tolerate* 12dB RL
- IEEE 802.3 stated that 12dB optical RL requirement measured at 1<sup>st</sup> connector & is from remote Rx only

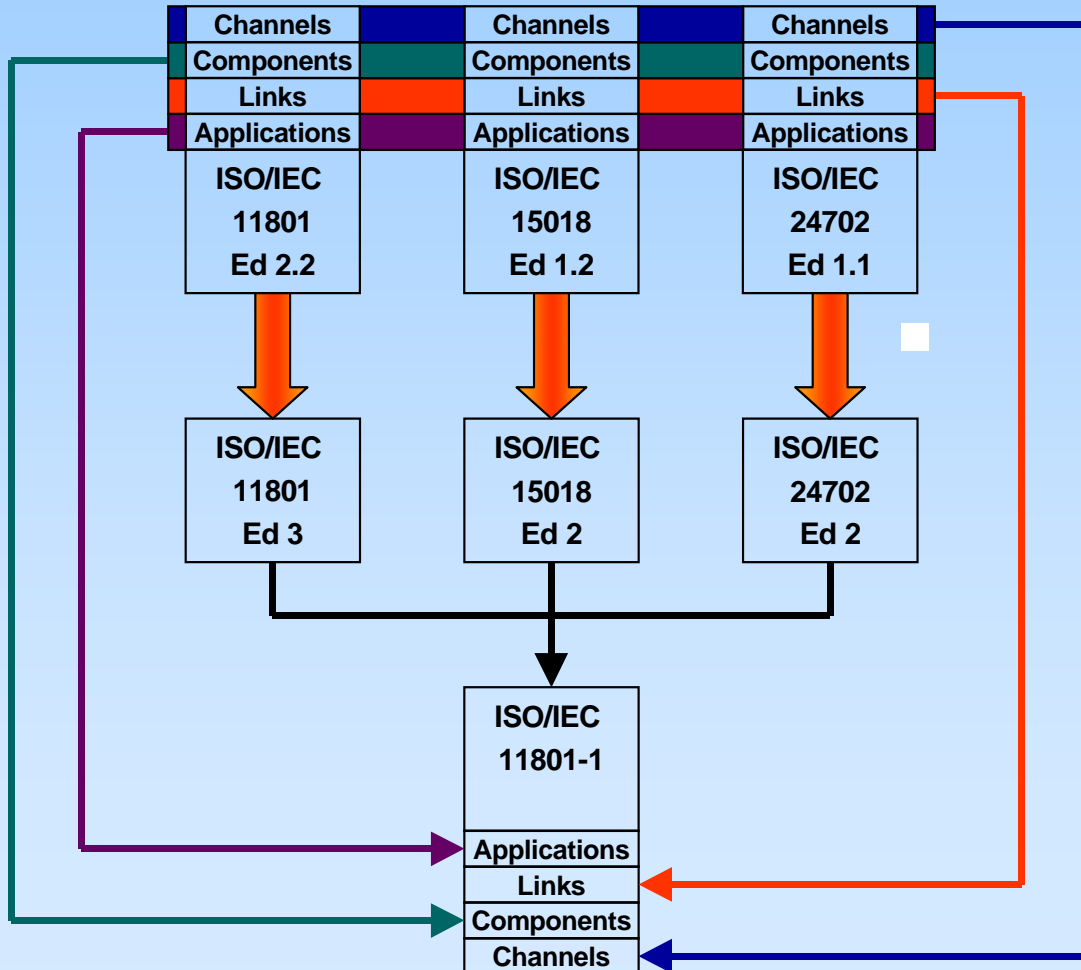


# Optical Fibre Decisions & Issues

- **OM1 fibre type to be dropped from cabling standards**
- **agreed to delete optical fibre classification scheme**
  - **removal of OF-xxx will have no impact to standard**
  - **will rely on application specific data (fibre type + length)**
- **no RL requirements planned for optical links/channels**
- **bend-tolerant MMF & SMF fibre types require analysis**



# Re-structuring of ISO/IEC Cabling Design Standards



- **NWIP approved to re-structure to ease change management & simplify future additions**
- **ISO 24764 to be included**
- **no technical changes!**
- **could take at least 1 year**
- **US Editor appointed**

## Future Meetings

<b>ISO/IEC SC25 WG3</b>	<b>02-06 May 2011</b>	<b>Berlin</b>
<b>ISO/IEC SC25 WG3</b>	<b>24-27 Oct 2011</b>	<b>Melbourne</b>
<b>ISO/IEC SC25</b>	<b>28 Oct 2011</b>	<b>Melbourne</b>