ISO/IEC SC25/WG3 Meeting

Buenos Aires: 6-10 February 2006

- Structured Cabling Systems -

report for IEEE 802.3 by Alan Flatman

46 Participants 18 Nations

Key Items:

- TR-24750 Installed Cabling to Support 10GBASE-T forwarded as a 2nd PDTR
- ISO/IEC 11801 Ed. 2.1 incl. Class E_A + F_A cabling forwarded as a 2nd FPDAM
- ISO/IEC 24764 Data Centre Cabling being forwarded as a CD
- expert group working on cable thermal issues in support of 802.3at PoEP
- liaison to request to 802.3an on 3 items:

1. replacement terms to reconcile differences with 802.3an
2. 802.3an verification of latest TR-24750 text
3. availability of TR-24750, ISO/IEC 11801 Ed.2.1 drafts

ISO/IEC TR-24750
Installed Class E/F to Support 10GBASE-T

- 1st PDTR failed; 16 nations in favour, 8 against
- replacement terms introduced to reconcile some differences with 802.3an (need to discuss)
- planned to become a TR after Sep 2006 meeting
- mirrors technical requirements of 802.3an D3.1
- may differ from TIA/EIA TSB-155 on terminology

ISO/IEC 11801 Edition 2.1 (introducing Class E_A & Class F_A Cabling)

- 1st FPDAM failed; 11 nations in favour, 9 against
- will specify channel, links, cords, components
- replacement terms introduced to reconcile some differences with 802.3an (need to discuss)
- 10GBASE-T added to supported applications
- requests for tighter connector DCR unbalance
- planned to go to FDAM after Sep 2007 meeting
- captures technical requirements of 802.3an D3.1
- technically different to TIA “Cat 6 Augmented”

ISO/IEC 11801 Edition 2.1
Balanced Cabling EM Performance

- comprehensive EM specifications being introduced
- coupling attenuation values increased by 10dB for all environmental classifications
- TCL values modified slightly to fit measurements
- proposals to apply coupling attenuation + balance to both screened and unscreened cabling
  - cannot accurately measure balance above 100 MHz
  - CA measurements up to 1GHz is useful EMC data
  - need to compare UTP+STP as “apples with apples”
  - specification of coupling attenuation for UTP is “ffs” and balance for screened cabling is “ffs” to leave the *door open*

Cable Temperature Issues

- IEC SC46C cable group endorses new procedure for assessing current capacity vs. temperature (conductor temp, rather than outside cable temp)
  - developed by Jo Walling, Canadian expert
  - recommended to SC25 WG3 for evaluation
- IEC SC48B connector group evaluating test procedure for contact mating/unmating under load
- SC25 WG3 hopes to have guidance for 802.3at after its next meeting in Sep 2006

Future Meetings

ISO/IEC SC25 WG3	**18-21 Sep 2006**	**Berlin**
ISO/IEC SC25 WG3	**26 Feb–2 Mar 2007**	**TBA**
ISO/IEC SC25 WG3	**??? Sep 2007**	**Korea**