ISO/IEC SC25/WG3 Meeting

Kyoto, Japan: 25 Feb - 01 Mar 2014

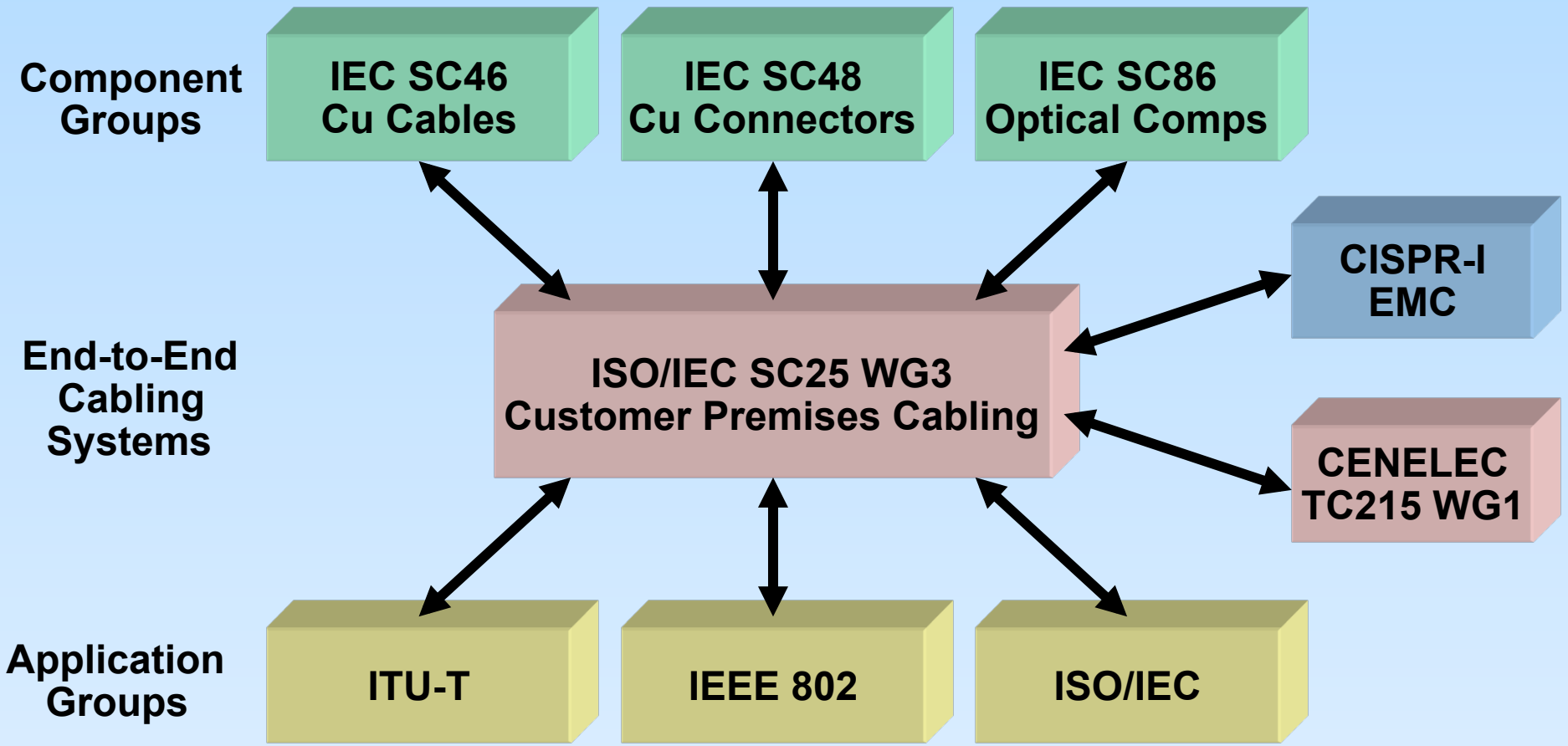
- Customer Premises Cabling -

45 Participants 17 Nations

Key Items:

1. ISO/IEC 11801 Ed.3 NWIP approved, changes listed
2. ISO/IEC 11801-99-1 40GBASE-T Cabling now a DTR
3. ISO/IEC 11801-5 Data Centre Cabling to be updated
4. ISO/IEC 14763-3 Ed.2 OF Testing FDIS approved
5. ISO/IEC 29125 being extended to support 802.3bt
6. ISO/IEC 17979-1-1 Twinax Assemblies cancelled
7. SC25 WG3 investigating relevance of *mega-trends*

Process Model



JTC1 Matters

- NWIPs no longer required to revise existing ISO/IEC stds
- study groups established to investigate *mega-trends*:
    1. The Internet of Things
    2. Smart Cities
    3. Energy Efficiency
- SC25 WG3 evaluating impact on cabling infrastructure

ISO/IEC 11801 Edition 3: Generic Cabling

- NWIP to develop Ed.3 approved unanimously by 20 nations
- existing document already 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)
- CD planned as output from next meeting in Sep 2014
- DIS planned as output from following meeting in Mar 2015

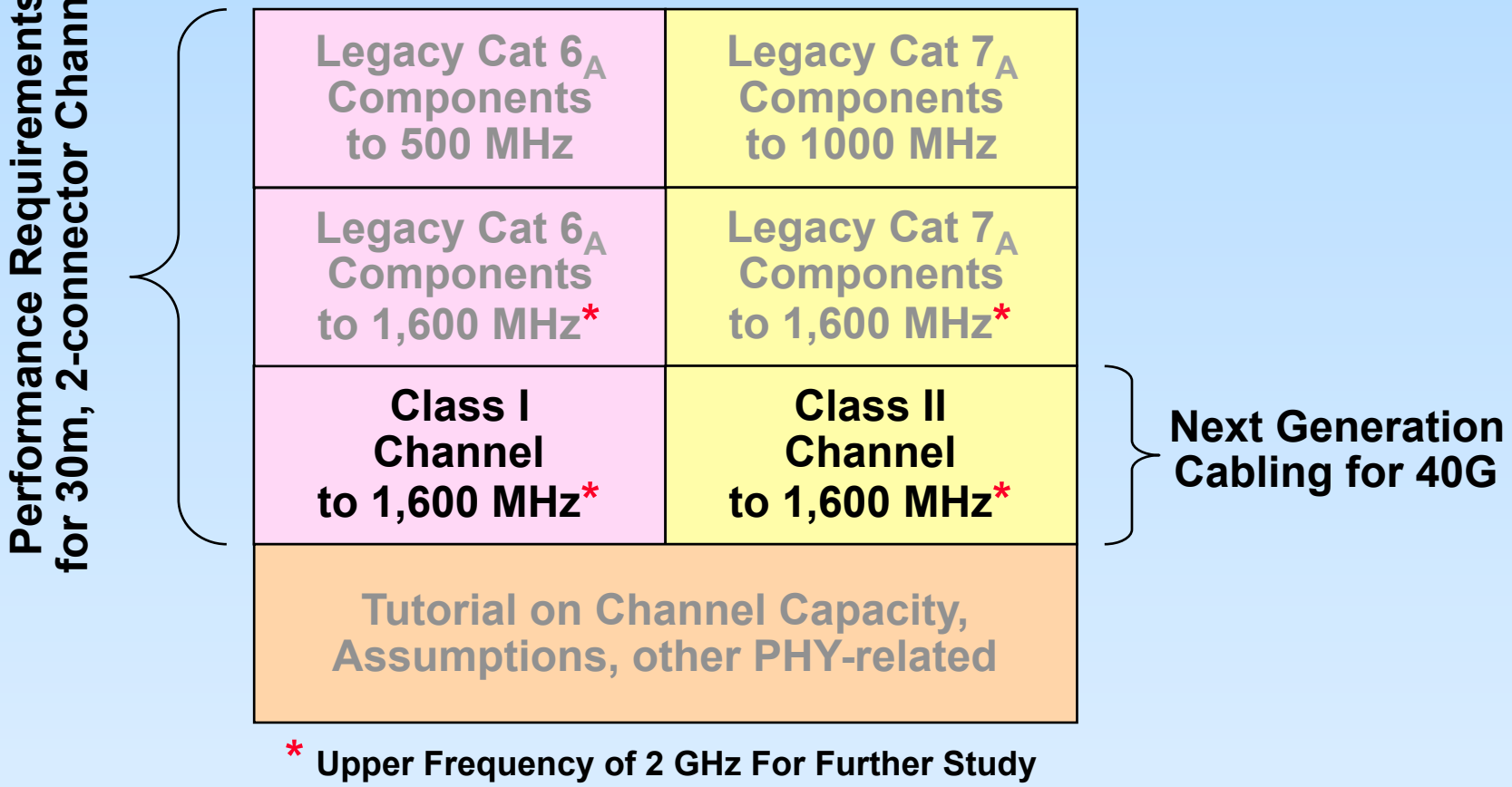
ISO/IEC 11801 Edition 3: Change Proposals

1. withdraw generic OF classification scheme (unless a workable alternative proposed made by March 2015)
2. OM1 & OM2 fibre types moved to informative annex (Grandfathered)
3. SMF specs require amendment (high water peak B1.1 fibre type withdrawn as not used in practice)
4. Class I & Class II channels will be introduced & Cat 8.1 & Cat 8.2 components referenced
5. Channels with “less than 2 connectors” to be introduced
6. DCR unbalance between pairs (currently *ffs*) introduced
7. use of cables that do not comply with IEC 61156 specs (e.g. copper-coated aluminium) should be disallowed

ISO/IEC TR 11801-99-1: 40GBASE-T Cabling

- draft elevated to DTR in Dec 2013 based on national expert acceptance of 2nd PDTR comment resolutions
- DTR circulated for national vote (closes 17 Mar 2013)
- no technical changes are allowed in this final draft
- Class I definition almost identical to TIA Cat 8 D0.9d
- Class II NEXT, ACR-F limits superior to Class I limits

ISO/IEC 11801-99-1 Deliverables



* Upper Frequency of 2 GHz For Further Study

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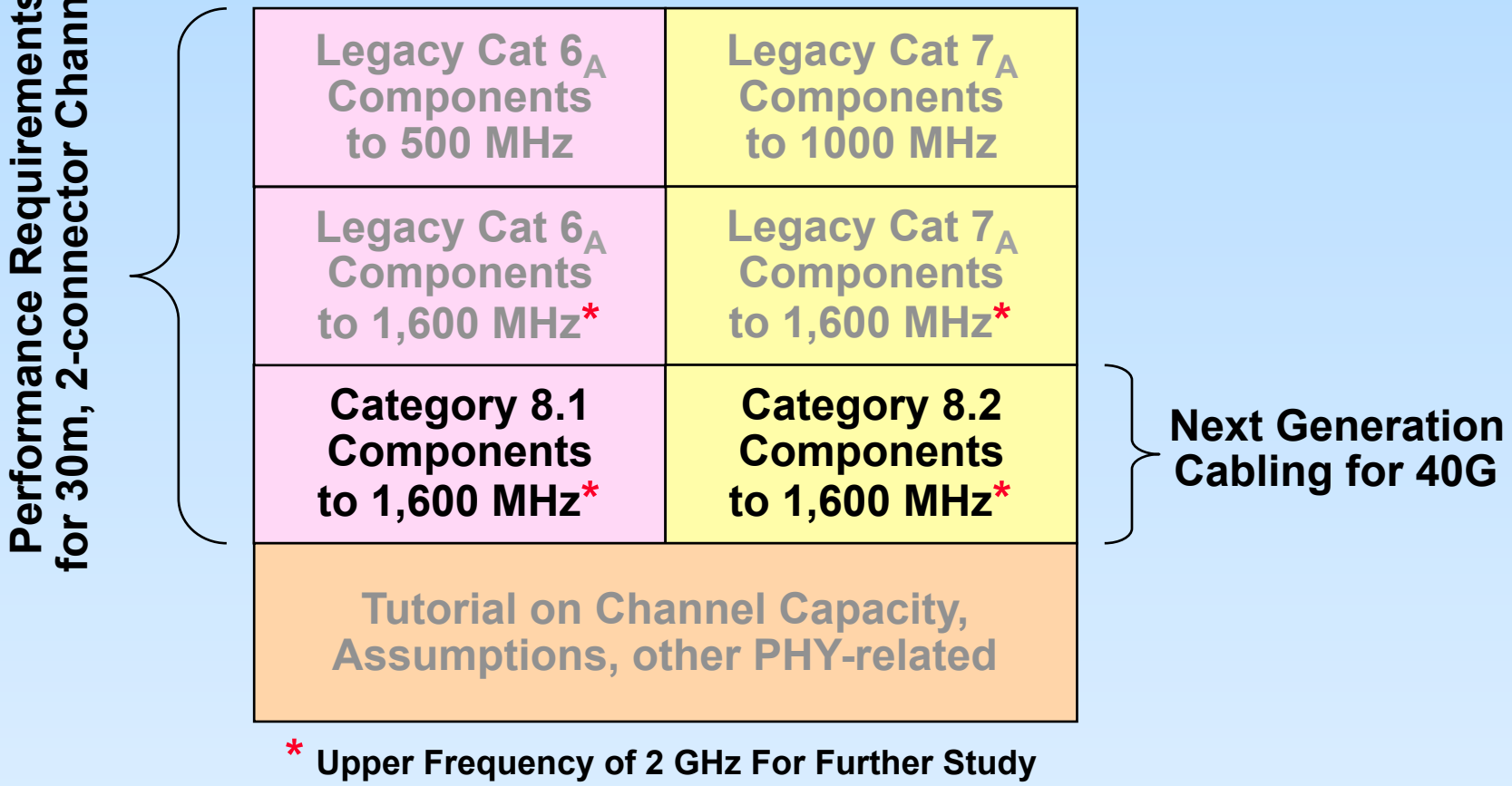

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Data Centre Cabling

- data centre fabrics to be added to ISO/IEC 11801-5
- temp/humidity specs to be added to ISO/IEC 11801-5
- DC implementations to be added to ISO/IEC 11801-5
  - including resilience/tiers
- *modular* DC aspects to be added to ISO/IEC 11801-5

Power over Ethernet

- ISO/IEC TR 29125 to be extended to support higher currents being considered by 802.3bt
- also agreed to extend installation conditions & heating of cords with thinner conductors
- request made for IEC SC46C to introduce DCR unbalance between pairs
- request made for IEC SC48B to extend IEC 60512-99-001 connector unmating under load
- CENELEC test procedure being considered as the basis for cable heating measurements

ISO/IEC TR 17979-1-1 Twinax Cable Assemblies

- intended to support IEEE 802.3 “CR” twinax links
- IEC SC46 initiated NP to specify twinax cables
- IEC SC48B lack of interest to specify connectors
- ISO/IEC TR 17979-1-1 will now be cancelled
- relevant parties notified of intent & no response

Future Meetings

ISO/IEC SC25 WG3	15 - 18 Sep 2014	Beijing, China
ISO/IEC SC25	19 Sep 2014	Beijing, China
ISO/IEC SC25 WG3	02 - 06 Mar 2015	San Juan, Puerto Rico