IEEE P802.3ba

Chief Editor's Report

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P802.3ba Task Force

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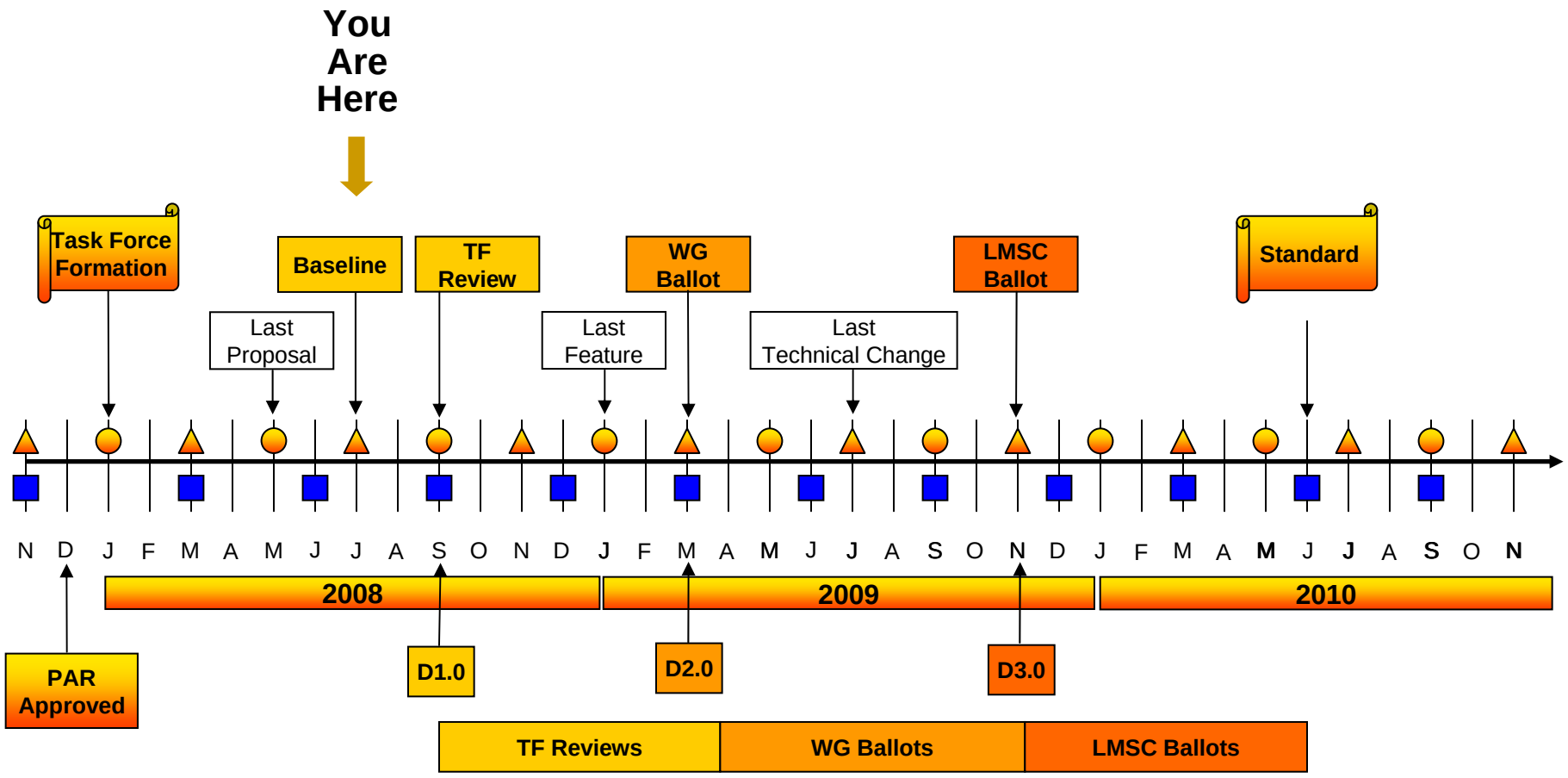
IEEE P802.3ba Task Force Timeline



* Adopted by IEEE P802.3ba TF at March 08 Plenary

Organization of Project Work

Logic Functions	Copper PMD functions	Short Reach Optical PMDs	Long Reach Optical PMDs
▪ Amendments to MAC, RS, MAC PHY interface, or baseband layer(s) ▪ RS and XLGMII / CGMII ▪ XLAUI / CAUI) ▪ PCS functions ▪ PMA functions ▪ Interfaces ▪ OTN Compatibility	▪ 40GBASE-KR4 (including changes to Clause 73, AN, and Clause 74, FEC) ▪ 40G Cu PMD ▪ 100G Cu PMD ▪ Media characteristics	▪ 40GBASE-SR4 ▪ 100GBASE-SR10 ▪ Media characteristics	▪ 40GBASE-xxx (10km) ▪ 100GBASE-LR4 (10km) ▪ 100GBASE-ER4 (40km) ▪ Media characteristics
▪ Management related to Logic functions (Clauses 30, 45, etc.)	▪ Management related to copper functions (Clauses 30, 45, etc.)	▪ Management related to PMD functions (Clauses 30, 45, etc.)	▪ Management related to PMD functions (Clauses 30, 45, etc.)

Progress so far..

Functional area	Status (as of May '08)	Next Steps
40/100G Architecture/Interfaces	▪ Baseline Adopted	▪ Editor preparing proposed text
RS/XLGMII/CGMII	▪ Baseline Adopted	▪ Editor preparing proposed text
XLAUI/CAUI electrical interface	▪ Adopted as part of architecture ▪ Proposal made to TF ▪ Need to adopt a baseline	▪ Decide on channel characteristics ▪ Select baseline proposal
PCS	▪ Baseline Adopted	▪ Editor preparing proposed text
PMA	▪ Proposal made to TF ▪ Need to adopt a baseline	▪ Select baseline proposal
Optional PMD service interface	▪ Adopted as part of architecture ▪ Proposal made to TF ▪ Need to adopt a baseline	▪ Decide on channel characteristics ▪ Select baseline proposal
Backplane (40GBASE-KR4)	▪ Baseline Adopted	▪ Editor preparing proposed text

Progress so far..(2)

Functional area	Status (as of May '08)	Next Steps
Copper cable (40GBASE-CRx)	▪ Baseline proposal made to TF ▪ Need to adopt a baseline	▪ Adopt a baseline ▪ Decision on connector
Copper cable (100GBASE-CRx)	▪ Baseline proposal made to TF ▪ Need to adopt a baseline	▪ Adopt a baseline ▪ Decision on connector
40G MMF PMD (40GBASE-SR4)	▪ Baseline adopted	▪ Editor preparing proposed text
100G MMF PMD (100GBASE-SR10)	▪ Baseline adopted	▪ Editor preparing proposed text
40G 10Km SMF PMD (40GBASE-LRx)	▪ Multiple proposals presented to TF	▪ Need to adopt a baseline
100G 10Km SMF PMD (100GBASE-LR4)	▪ Baseline adopted	▪ Editor preparing proposed text
100G 40Km SMF PMD (100GBASE-ER4)	▪ Baseline adopted	▪ Editor preparing proposed text
Appropriate OTN support (part of the PCS)	▪ Baseline adopted	▪ Editor preparing proposed text

Overview of Clauses

New Clause*	Description	Name
150	40/100G Baseband Network	Ilango Ganga
151, 152	RS-XLGMII/CGMII, PCS	Mark Gustlin
153	PMA	Steve Trowbridge
Annex 153A	XLAUI/CAUI	TBD
154	40GBASE-KR4	Arthur Marris
155	40GBASE-CR4 and 100GBASE-CR10	Chris Di Minico
156	40GBASE-SR4 and 100GBASE-SR10	Piers Dawe
157	40GBASE-LRx	Jonathan King
158	100GBASE-ER4 and 100GBASE-LR4	Peter Anslow
	Management	Hugh Barrass

* Clause numbers are place holders

Next Steps and Dates

- Adopt remaining baseline proposals
  - This will improve chances of maintaining our schedule
- Refine baseline proposals as needed
- Compile proposed text for adopted baselines for consideration as baseline draft

- Plenary week of July 14th – Adopt remaining baselines
- August 25th – Goal for preview version of the proposed text released to the TF
- Interim week of September 15th – Review and Approve D1.0

Thank You!