

IEEE 802 July 2022

**IEEE 802.3 Ethernet WG
Opening Plenary
10 July 2022**

**IEEE P802.3df
200 Gb/s, 400 Gb/s, 800 Gb/s,
and 1.6 Tb/s Force
Opening Report**



IEEE P802.3df Task Force Project information

■ Organization

- John D'Ambrosia, Chair, IEEE P802.3df Task Force
- Mark Nowell, Vice-Chair, IEEE P802.3df Task Force, Optics Track Chair
- Matt Brown, Chief Editor
- Mark Gustlin, Architecture & Logic Track Chair
- Kent Lusted, Electrical Track Chair

▪ Task force web and reflector information:

- Home page: <https://www.ieee802.org/3/df/index.html>
- Reflector Info - <https://www.ieee802.org/3/df/reflector.html>
 - TF Reflector: stds-802-3-b400g@listserv.ieee.org
 - Logic Reflector: stds-802-3-b400g-logic@listserv.ieee.org
 - Optical Reflector: stds-802-3-b400g-optx@listserv.ieee.org
 - Electrical Reflector: stds-802-3-b400g-elec@listserv.ieee.org

▪ Project Documentation –

- PAR : https://www.ieee802.org/3/df/proj_doc/IEEE_P802.3df_PAR_11122021.pdf
- CSD: <https://mentor.ieee.org/802-ec/dcn/21/ec-21-0306-00-ACSD-p802-3df.pdf>
- Objectives: https://www.ieee802.org/3/df/proj_doc/objectives_P802d3df_220317.pdf

▪ P802.3df TF meeting information may be found on:

- Public page: <https://www.ieee802.org/3/df/public/index.html>
- 802.3 Calendar: <https://www.ieee802.org/3/calendar.html>
- Ad hoc Page: <https://www.ieee802.org/3/df/public/adhoc/index.html>

Activities Since Mar 2021 Plenary

■ March 2022 Session

- Additional Task Force meetings held 22 Mar and 29 Mar
- 7 Technical Presentations

■ April 2022 Ad Hoc Meetings

- Architecture & Logic – 11 Apr, 25 Apr
- Electrical – 18 Apr, 02 May
- Optical – 14 Apr, 28 Apr

– May 2022 Session

- Four Meetings – 17 May, 18 May, 24 May, 02 Jun – 24 Technical Presentations in total
- Key Decisions –
 - Adopted architecture (unanimous)
 - Adopted baseline for 400GBASE-DR4-2
 - Adopted AN Baseline for 800GBASE-CR8 and 800GBASE-KR8 (unanimous)
 - Adopted 800GBASE-CR8 MDIs (unanimous)
 - Adopted additional nomenclature
- Status Summary – Next Page
- Emerging baseline status indicates that 100 Gbps/lane , 200 Gbps/lane, and LR / ER objectives are on different timelines
- “Splitting P802.3df PAR” discussed

– June 2022

- 09 Jun – 4 Technical Presentations Requested for May Session
- Ad Hoc Meetings
 - Architecture & Logic – 23 Jun, 30 Jun
 - Electrical – 21 Jun

– July 2022

- 08 Jul - D0.1 Posted to private area

IEEE P802.3df Baseline Status

Ethernet Rate	Assumed Signaling Rate	AUI	BP	Cu Cable	MMF 50m	MMF 100m	SMF 500m	SMF 2km	SMF 10km	SMF 40km
200 Gb/s	200 Gb/s	Over 1 lane 200GAUI-1		Over 1 pair 200GBASE-CR1			Over 1 Pair 200GBASE-DR1	Over 1 Pair 200GBASE-FR1		
400 Gb/s	100 Gb/s							Over 4 Pair 400GBASE-DR4-2		
	200 Gb/s	Over 2 lanes 400GAUI-2		Over 2 pairs 400GBASE-CR2			Over 2 Pair 200GBASE-DR2			
800 Gb/s	100 Gb/s	Over 8 lanes 800GAUI-8	Over 8 lanes 800GBASE-KR8	Over 8 pairs 800GBASE-CR8	Over 8 pairs 800GBASE-VR8	Over 8 pairs 800GBASE-SR8	Over 8 pairs 800GBASE-DR8	Over 8 pairs 800GBASE-DR8-2		
	200 Gb/s	Over 4 lanes 800GAUI-4		Over 4 pairs 800GBASE-CR4			Over 4 pairs 800GBASE-DR4	1) Over 4 pairs 800GBASE-DR4-2 2) Over 4 λ's 800GBASE-FR4		
	TBD								Over single SMF in each direction TBD	Over single SMF in each direction TBD
1.6 Tb/s	100 Gb/s	Over 16 lanes 1.6TAUI-16								
	200 Gb/s	Over 8 lanes 1.6TAUI-8		Over 8 pairs 1.6TBASE-CR8			Over 8 pairs 1.6TBASE-DR8	Over 8 pairs 1.6TBASE-DR8-2		

Adopted baselines

802.3df July Plenary Plans

- **Meetings:**
 - **Tues 10:30 am to 6:00 pm**
 - **Wed 10:30 am to 6:00 pm**
 - **Thur 8:00 am to 12:00 pm**
- **Will hear 26 Technical presentations, introduce proposed project documentation packages for P802.3df (modified) and P802.3dj**
- **Consider proposed response to OIF liaison**
- **Overview of D0.1**

THANK YOU!

