

# IEEE 802.3 25 Gb/s Ethernet PMD(s) for Single Mode Fiber Study Group Opening Report

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# IEEE 802.3 25 Gb/s Ethernet PMD(s) for Single Mode Fiber Study Group information

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## Study Group Organization

David Lewis, Lumentum, SG Chair

Kohichi Tamura, SG Recording Secretary

## Study Group charter

Develop a PAR and CSD for: “25 Gigabit/s Ethernet PMD(s) for single mode fiber”

## Study Group web and reflector information

Reflector information:

<http://www.ieee802.org/3/25GSMF/reflector.html>

Home page: <http://ieee802.org/3/25GSMF/index.html>

# Activities since November 2015 plenary

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One interim and six adhoc calls

Atlanta interim:

[http://www.ieee802.org/3/25GSMF/public/1601\\_Atlanta/index.html](http://www.ieee802.org/3/25GSMF/public/1601_Atlanta/index.html)

Ad-hocs: <http://www.ieee802.org/3/25GSMF/public/Adhocs/index.html>

Jan 2016 Interim in Atlanta:

9 presentations

11 motions and 1 straw poll

Adopted objectives:

[http://www.ieee802.org/3/25GSMF/lewis\\_25gsmf\\_01a\\_0116.pdf](http://www.ieee802.org/3/25GSMF/lewis_25gsmf_01a_0116.pdf)

Adopted CSD responses:

[http://www.ieee802.org/3/25GSMF/lewis\\_25gsmf\\_02b\\_0116.pdf](http://www.ieee802.org/3/25GSMF/lewis_25gsmf_02b_0116.pdf)

Adopted PAR:

[http://www.ieee802.org/3/25GSMF/law\\_25gsmf\\_01\\_0116.pdf](http://www.ieee802.org/3/25GSMF/law_25gsmf_01_0116.pdf)

# Adopted Objectives

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Support a MAC data rate of 25 Gb/s

- Support full-duplex operation only
- Preserve the Ethernet frame format utilizing the Ethernet MAC
- Preserve minimum and maximum Frame Size of current IEEE 802.3 standard
- Support a BER of better than or equal to  $10^{-12}$  at the MAC/PLS service interface (or the frame loss ratio equivalent)
- Support optional Energy-Efficient Ethernet operation

Provide physical layer specification which support 25 Gb/s operation over at least 10 km on SMF.

- Provide physical layer specification which support 25 Gb/s operation over at least 40 km on SMF.
- Provide appropriate support for OTN

# IEEE 802.3 25GSMF Study Group

## Meeting week plan

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Meeting on Monday afternoon plus 2 hours on Wednesday afternoon

Monday 13:00-17:00 Florence 2201 AB, L1

Wednesday 13:00-15:00 Milan 2003, L1

### Goals for the meeting

Prepare for request to move to task force at 802.3 WG closing plenary

Review any comments and make adjustments to adopted objectives, CSD responses and PAR

Questions?

Thank you!