

# Nomenclature Update

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# Nomenclature

- Goal: Agree on the nomenclature to enable effective communication

# Adopted in May 2016

- Definitions:
  - 50GBASE, 50GBASE-R
  - 50GBASE-KR, 100GBASE-KR2, 200GBASE-KR4
  - 50GBASE-CR, 100GBASE-CR2, 200GBASE-CR4
  - 50GBASE-SR, 100GBASE-SR2, 200GBASE-SR4
  - 50GAUI, 50GMII
- Abbreviations:
  - 50GAUI
  - 50GMII

# More for consideration

- Need a definition for the:
  - 50GBASE-FR
    - “IEEE 802.3 Physical Layer specification for 50 Gb/s using 50GBASE-R encoding and 4-level pulse amplitude modulation over one lane on single-mode fiber, with reach up to at least 2 km. (See IEEE Std 802.3, Clause TBD.)”
  - 50GBASE-LR
    - “IEEE 802.3 Physical Layer specification for 50 Gb/s using 50GBASE-R encoding and 4-level pulse amplitude modulation over one lane on single-mode fiber, with reach up to at least 10 km. (See IEEE Std 802.3, Clause TBD.)”
  - 100GBASE-DR2
    - “IEEE 802.3 Physical Layer specification for 50 Gb/s using 50GBASE-R encoding and 4-level pulse amplitude modulation over two lanes of single-mode fiber, with reach up to at least 500 m. (See IEEE Std 802.3, Clause TBD.)”

# Future Looking

- Tracking the developments on
  - 100 Gb/s 2km SMF
  - 100 Gb/s PSMF
  - 2 lane 100 Gb/s AUI
  - 2 lane 50 Gb/s AUI
- Adjust 100 Gb/s over MMF definition to reflect the adopted proposal.

THANKS!

# IEEE-SA Standards Style Manual Guidance

- Guidance from IEEE-SA is as follows
- 10.6.3:
  - “Each definition should be a brief, self-contained description of the term in question and shall not contain any other information, such as requirements or elaborative text. The term should not be used in its own definition.”
- 10.7
  - “Acronyms and abbreviations can be used to save time and space in the document.”
- B.1
  - “a) New terms and definitions included in IEEE standards should be written in plain English using clear and concise descriptions. Terms themselves should not be used in their own definitions.”
  - “b) Needless customization should be avoided so that definitions have as broad an application as appropriate. Definitions that are too specific should be avoided.”
  - “c) New definitions that serve to add a new definition to an existing term(s) of the same name should be different enough from the other term(s) so as to justify the addition. Having more than two or three acceptable definitions for any term is discouraged.”