
ETHERNET ALLIANCE TECHNOLOGY EXPLORATION FORUM “THE ROAD TO ETHERNET 2026”

Ethernet Flexes its Ports

September 29, 2016

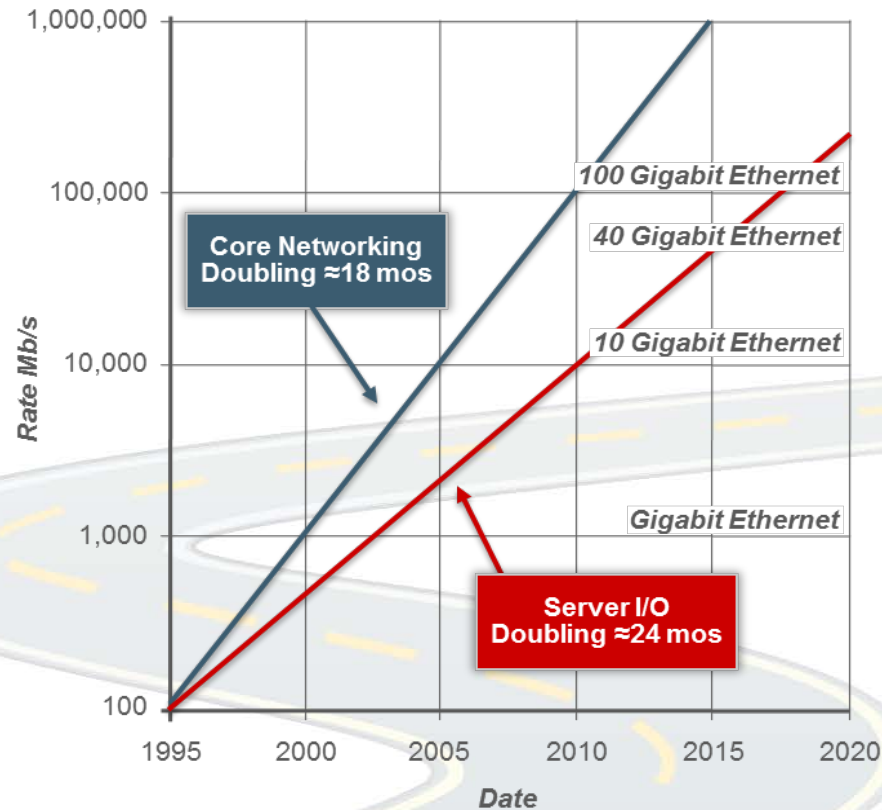


ethernet alliance

This presentation is intended to educate and promote the exchange of information. Opinions expressed during this presentation are the views of the presenters, and should not be considered the views or positions of the Ethernet Alliance

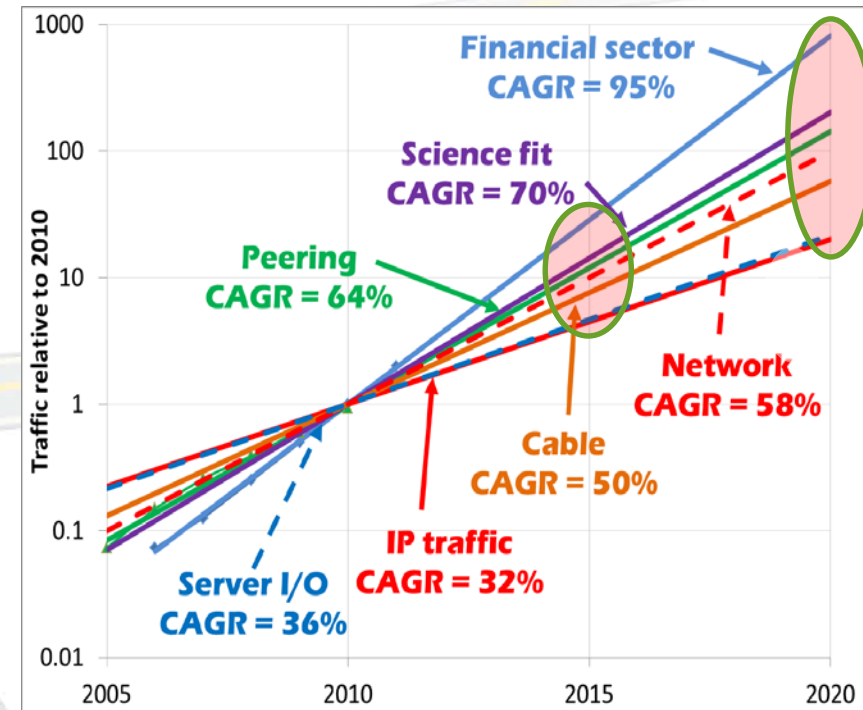
Bandwidth Growth of the Past

IEEE 802.3 HSSG - 2007



Source: http://www.ieee802.org/3/hssg/public/nov07/HSSG_Tutorial_1107.zip

IEEE 802.3 BWA - 2012

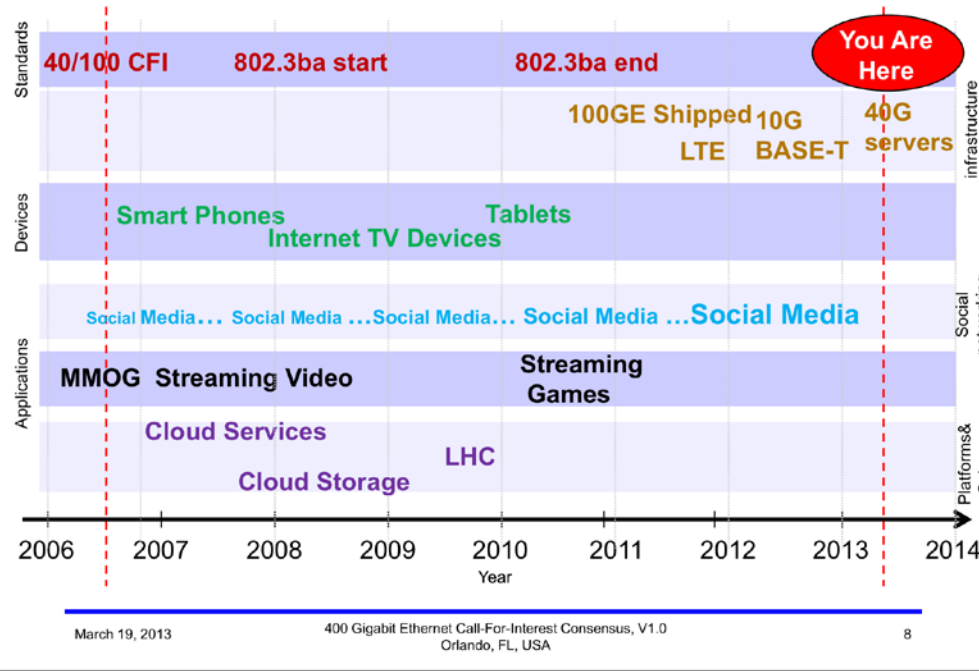


Source: http://www.ieee802.org/3/ad_hoc/bwa/BWA_Report.pdf

Applications Growth

IEEE 400GbE CFI - 2013

Highlights since IEEE P802.3ba



Since the 400GbE CFI

- 4k/8k video
- Automotive applications
- 5G wireless
- 802.11 wireless
- VR
- Industrial applications
- IoT
- 5 new rates of Ethernet
- DCI
- Etc...

Source: http://www.ieee802.org/3/400GSG/public/mar13/CFI_01_0313.pdf



How is Ethernet Flexible?

- Ethernet supports many rates:
 - 10M, 100M, 1G, 2.5G, 5G, 10G, 25G, 40G, 50G, 100G, 200G, 400G
- Ethernet supports many types of media
 - Backplane, Twinax, Single pair, Cat-N, Coax, MMF, SMF, ...
- Ethernet supports many types of form factors
 - Embedded, QSFP*, SFP*, CFP/*, COBO, ...
- Ethernet supports many reaches
 - 1m ... 80km
- Ethernet supports many features
 - Channelization, timing, power delivery, ...

PANELISTS

- Panel Moderator – Dave Ofelt, Juniper
- Panelists
 - John D'Ambrosia, Huawei
 - Tad Hofmeister, Google
 - Yoshiaki Sone, NTT
 - Tom Issenhuth, OIF (Microsoft)

If you have any questions or comments, please email
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