

Nomenclature

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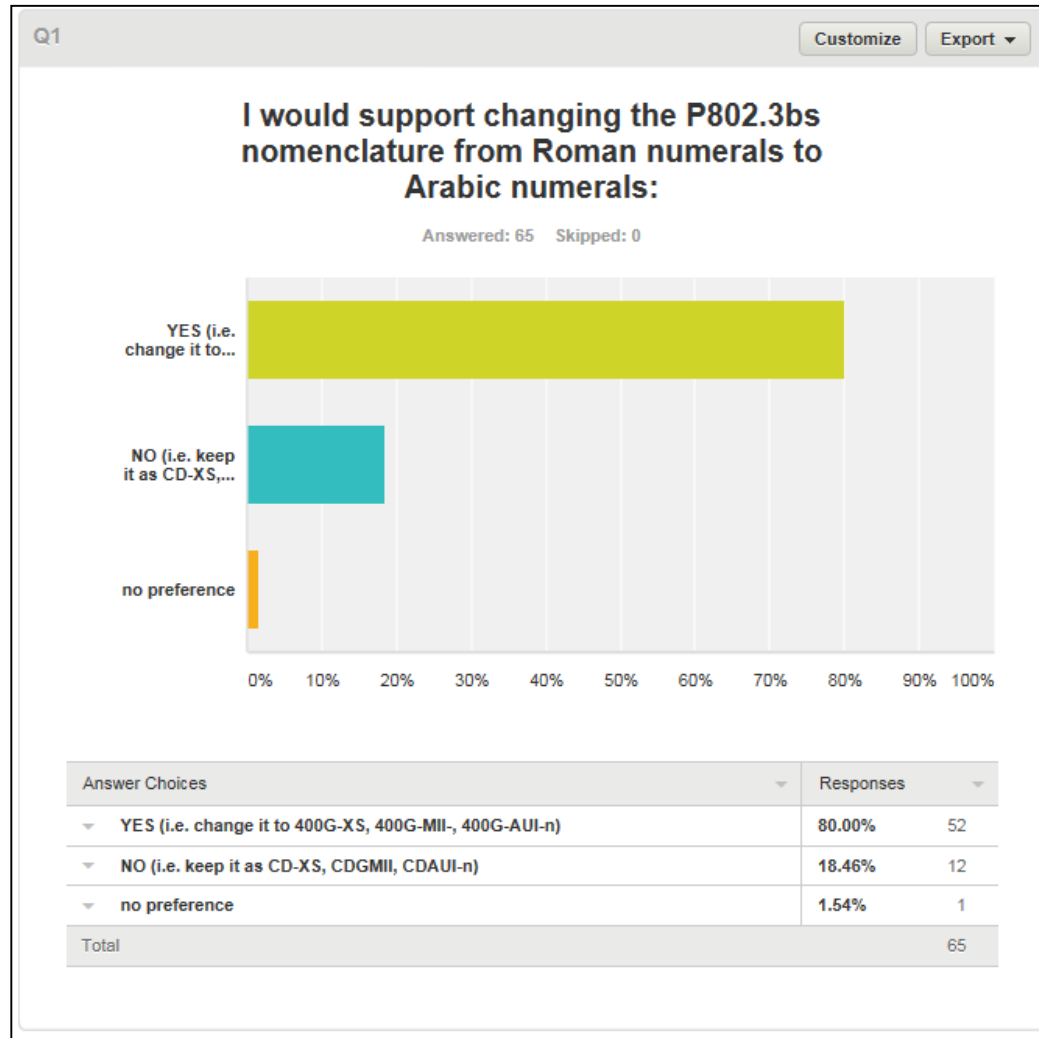
Nomenclature Background

- The use of roman numerals to identify the MAC rates associated with various interfaces worked well when the roman numerals were simple and the number of such identified interfaces were few.
- Since then, the number of interfaces and MAC rates has expanded, and many more are coming as Ethernet becomes ubiquitous
 - 2.5 Gb/s
 - 5 Gb/s
 - 50 Gb/s
 - 200 Gb/s

A Look Into the Future

- the presentation http://www.ieee802.org/3/bs/public/15_03/lusted_3bs_01_0315.pdf shows that an online poll had consensus in March 2015 to make a change in P802.3bs
- P802.3by adopted Arabic numeral nomenclature for the MII and AUI (i.e. 25GMII and 25GAUI) in January 2015 for enhanced clarity in communication
- Looking into the future, roman numerals become a bigger problem:
 - 800G = DCCC AUI
 - 1T = MAUI - already taken, so is it DDAUI?
- What about fractional rates as PHYs fill niches in the channel capacity?
 - 2.5G = ??

P802.3bs Survey Results from March 2015



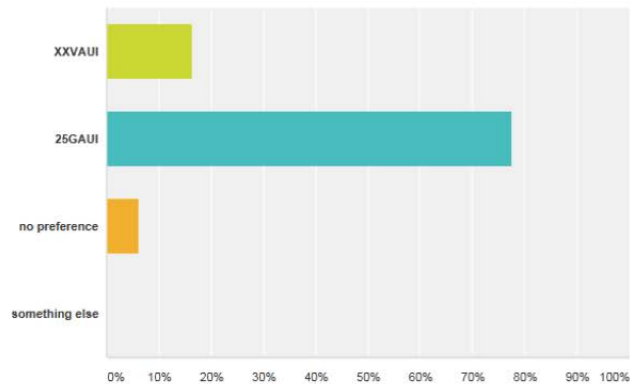
P802.3by Survey Results from January 2015

**NEW
SLIDE**

AUI & MII Survey Results

For the AUI term in P802.3by, I prefer to write in the specification

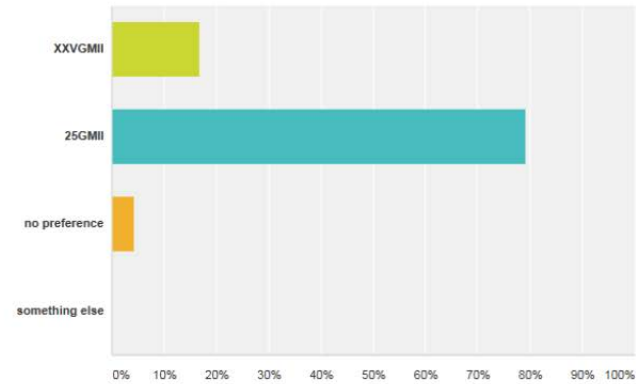
Answered: 49 Skipped: 0



Answer Choices	Responses
XXVAUI	16.33% 8
25GAUI	77.55% 38
no preference	6.12% 3
something else	0.00% 0
Total	49

For the MII term in P802.3by, I prefer to write in the specification

Answered: 48 Skipped: 1



Answer Choices	Responses
XXVGMII	16.67% 8
25GMII	79.17% 38
no preference	4.17% 2
something else	0.00% 0
Total	48

Proposal

- In the P802.3bs specification, the necessary changes would include:
 - CDAUI-n becomes 400GAUI-n (~378 instances in D1.2)
 - CDMII becomes 400GMII (~172 instances in D1.2)
 - CDXS becomes 400GXS (~35 instances in D1.2)

THANKS!