

IEEE 802.3 400 Gb/s Ethernet Study Group  
Informal Communication

To: Mr. Bruce Kraemer, Chair, IEEE 802.11 Working Group <bkraemer@ieee.org>  
CC: Mr Paul Nikolich, Chair, IEEE 802 LMSC <[p.nikolich@ieee.org](mailto:p.nikolich@ieee.org)>  
Mr. David Law, Chair, IEEE 802.3 Working Group  
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From: IEEE 802.3 400 Gb/s Ethernet Study Group  
Subject: Request for Information – Impact of Future IEEE 802.11 Wireless Activities  
Date: July 17, 2013  
Approval: IEEE 802.3 400 Gb/s Study Group, 17 July, 2013, @ IEEE 802 July 2013 Plenary

Dear Bruce,

The IEEE 802.3 400 Gb/s Ethernet Study Group is exploring the need for 400 Gb/s Ethernet. As the IEEE 802.11 High Efficiency WLAN Study Group (HEW SG) is considering the improvement of spectrum efficiency to enhance the system throughput/area in high density scenarios of wireless access points and stations, we would like to understand the potential use cases to determine the impact on the supporting wireline network. This information would be useful in determining potential reach requirements of 400 Gb/s Ethernet links, as well as assessing broad market potential.

We would also appreciate any other data or trends that you feel would be beneficial to us as we define 400 Gb/s Ethernet for wireline applications.

As companion specifications in the IEEE 802 family of standards, both of our respective groups are faced with growing bandwidth requirements. Given the inherent symbiotic relationship of the wired and wireless networks, we look forward to future interaction that will enable the mutual success of our standards.

Sincerely,

John D'Ambrosia  
Chair, IEEE 802.3 400 Gb/s Ethernet Study Group  
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