

# The Why, Where and How of 100Gbps Networking

Francesco Caggioni  
AMCC, Andover, MA, 01810

IEEE NH Section Communications and Signal Processing Chapter &  
the Microwave Theory and Techniques Chapter

Thursday, May 29, 2008 at 6:00pm  
BAE Systems Headquarters Building Auditorium

**Abstract:** While it seems like just yesterday that PCs started to ship 1Gbps LAN on laptops and desktops, datacenters have grown the installed base of 10Gbps servers and switches tremendously over the past couple of years. 100Gbps and 40Gbps Ethernet standards are being pushed hard to become the standard interconnect in datacenters as soon as possible. Power consumption, monitoring requirements and interconnect complexity are at the top of the list of problems to be solved to streamline the architectures of next-generation datacenters. Networking speeds above 10Gbps Ethernet are slated to be where the crossover of optical and copper interconnects will take place; this will have interesting effects on technology development and new business opportunities. This presentation will explore the business drivers, technical challenges and motivations, the major players and the development and deployment timeline for 100Gbps networking.

**Biography:** Francesco Caggioni is a Systems Engineer at AMCC, where he is working on next-generation Ethernet technologies. He has been architecting sub-systems for the Telecommunication and Networking industry for 8 years. He is an active member of the IEEE, ITU and OIF standards forums. Francesco holds B.Sc. and M.Sc. degrees in Telecommunications Engineering from Politecnico di Milano (Italy) and was a Research Assistant at Colorado University in Boulder.

**BAE SYSTEMS: Headquarters Building Auditorium, 65 Spit Brook Road, Nashua, N.H. 0.25 mile east of Everett Turnpike, Exit 1. For more information contact: Ravi Subrahmanyan, [ravi\\_subrahmanyan@ieee.org](mailto:ravi_subrahmanyan@ieee.org) (603-560-6586) or Kenric Nelson, [kenric.nelson@ieee.org](mailto:kenric.nelson@ieee.org), (603-589-4850).**