Meeting Notes
IEEE 802.3 BWA ad hoc
June 29, 2011
Teleconference
Prepared by: John D'Ambrosia (with input from Dave Chalupsky)

The meeting was called to order at approximately 11:00am (Eastern), Wed June 29, 2011 by John D'Ambrosia, BWA ad hoc chair.

Documentation for the meeting can be found at:
http://www.ieee802.org/3/ad_hoc/bwa/public/jun11/index.html

Agenda and General Information
By – John D'Ambrosia, Force10 Networks
See – agenda_01_0611.pdf

The guidelines for IEEE-SA meetings were displayed.

Presentation from John Mudrick, Dow Jones, will be rescheduled for later date.

Presentation #1
Title –   Bandwidth Demand in the Financial Industry- The Growth Continues
By –   Andrew Bach
See –   bach_01_0511.pdf

Discussion
Update to presentation will be provided as restrictive notice was inadvertently left on cover page.

- Next generation network employs a flat 2 layer approach.
- Needed reaches will be approximately 1000 feet. 500m solutions would be good.
- On Slide #14 the term "entitlements" refers to "provided services"
- On Slide #14, the stated footprint includes network redundancy.
- Currently more 1G ports deployed than 10G, but that is changing.
- 10G servers now. Deploying 40G in servers next year. Will take 100G in servers as soon as the PCIe can handle it
- Use off-the shelf x86 servers from major OEM.
- x8 PCIe slots
- Typical server today has 6x 10G ports and/or 8x 1G ports.
- When going to 40G in servers will still have multiple connections. Looking forward to the reduced latency of going to higher speeds, still needs multiple ports due to the traffic patterns.
- So concerned about latency that prop delay in glass fiber is too slow... wants hollow core fiber.
- Mostly 2U & 4U rack servers… some blades for "slower areas." Need lots of RAM, blades not optimized for that.

- Server access switch is ToR: Two switches for every three racks. Use active-active redundancy. Employing L2 / L3 multicast.
- Use MMF fiber for short reach to TOR switch. Comfortable with parallel MMF approach for 40G/100G server / switch connection. Comfortable with an environment that utilizes MMF and SMF.
- Need Terabit for the core network & external links as soon as possible!

Next meeting will be at July 802 Plenary.

The ad hoc meeting adjourned approximately 12:30pm.

IEEE 802.3 BWA Ad Hoc Attendees Sheet - Teleconference 6/29			6/29/2011
Last Name	**First Name**	**Affiliation**	**Wed**
Anslow	Pete	Ciena Corporation	x
Barrass	Hugh	Cisco	x
Bhatt	Vepul	Lightwire	x
Brown	Kimball	Lightreading	x
Chalupsky	David	Intel	x
Coenen	Robert	Reflex Photonics	x
Coleman	Doug	Corning	x
Cotter	Steve	EsNet	x
Cui	Kai	Huawei	x
D'Ambrosia	John	Force10 Networks	x
Diab	Wael	Broadcom	x
Ganga	Ilango	Intel	x
Harff	Nathan	Mayo Clinic	x
Hess	Dave	Nexans	x
Jones	Doug	Comcast	x
Kipp	Scott	Brocade	x
Law	David	HP	x
Lenkisch	Andreas	Schroff Gmbh Germany	x
Maguire	Valerie	Seimon, TIA	x
Maki	Jeffery	Juniper Networks	x
McClay	Phil	Zarlink Semiconductor	x
Nicholl	Gary	Cisco	x
Perrie	Randy	OneChip Photonics	x
Petrilla	John	Avago Technologies	x
Rabinovich	Rick	Alcatel-Lucent	x
Rannow	Randy	TE Connectivity	x
Sambasivan	Sam	AT&T	x
Sela	Oren	Mellanox	x
Silburt	Allan		x
Sprague	Ted	Infinera	x
Trowbridge	Steve	Alcatel-Lucent	x

Umnov	Alexander	Fujitsu	x
Xi	Huang	Huawei	x
Zabinski	Patrick	Mayo Clinc	x