

To: T10 Technical Committee
From: Rob Elliott, HP (elliott@hp.com)
Date: 17 May 2005
Subject: 05-196r0 SAS-2 Physical WG agenda May 24-25

SAS-2 Physical WG meeting May 25-26, 2005 on 6 Gbps

Hilton Garden Inn

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Group Name: HP T10 Ad Hoc 6G

Room: \$99.00

Reservation Cut off Date: May 18, 2005

Extra Person Charge: \$10.00

All reservations must be guaranteed to a credit card or to company (if approved for billing). Those reservations not canceled by 6:00PM (24 hours prior to arrival) will be billed accordingly.

Driving Directions

Exit Bush IAH Airport on JFK Blvd (3.4 miles)

Turn right on Beltway 8/Sam Houston Parkway (westbound, toward I-45). (4.5 miles)

Sam Houston Parkway becomes Sam Houston Tollway (\$1.25 for toll, or use the feeder/frontage road) (5.7 miles)

Take Highway 249 North (4.7 miles)

Exit F.M. 1960

Proceed north on Highway 249 feeder/frontage road

Hilton Garden Inn is on the right (East) behind Sam's Club across the street from Methodist Hospital

Table 1 — Agenda for SAS physical WG May 24-25

Time	Topic
Wednesday 24 May 2005	
Background on other high-speed serial technologies	
9:00 am	Survey of high-speed serial technologies [Yuriy Greshishev, PMC Sierra]
9:45 am	IEEE 802.3ab (Gigabit Ethernet: 1000BASE-T) and IEEE 802.3an (10 Gigabit Ethernet: 10GBASE-T) [TBD, Vitesse]
10:30 am	IEEE 802.3aq (10 Gigabit Ethernet on FDDI-grade MMF cable: 10GBASE-LRM) [TBD, Vitesse]
11:00 am	IEEE 802.3ap (Backplane Ethernet) 1 Gbps/10 Gbps [Ali Ghiasi, Broadcom]
11:45 am	Lunch
12:45 pm	INCITS T11 Fibre Channel 8 Gbps [Bill Ham, HP]
1:45 pm	OIF CEI-6G-LR and CEI-11G-LR [Yuriy Greshishev, PMC Sierra]
3:45 pm	Rapid I/O Trade Association Next Gen Phy Efforts [Mike Lerer, Rapid Prototypes]
Tutorials	
4:30 pm	StatEye tutorial [Harvey Newman, Infineon]
6:00 pm	Adjourn
Thursday 25 May 2005	
6 Gbps test chip results	
8:00 am	6G Backplane material (presented at ISSCC) [TBD, Vitesse]
8:45 am	PMC QuadPHY 6G device [Yuriy Greshishev, PMC Sierra]
9:30 am	6G Data over Legacy Backplanes [Mike Jenkins, LSI Logic]
10:15 am	OIF backplane at 6 Gbps and 11 Gbps [Galen Fromm, Molex]
Proposals	
11:00 am	SAS 6 Gbps proposal based on OIF CEI 6G-LR [Mike Jenkins, LSI Logic]
12:00 pm	Lunch
Considerations	
1:00 pm	Mini SAS 4i/4x connector performance at 6 Gbps [Galen Fromm, Molex]
2:00 pm	Problems with PAM4, linear equalization, PR2, PR4, etc. [Mike Jenkins, LSI Logic]
3:00 pm	OOB challenges at 6Gb/s: scale or not to scale OOB signaling rate [Yuriy Greshishev, PMC-Sierra]
4:00 pm	System design considerations [Barry Olawsky, HP]
5:00 pm	Adjourn

References

<http://www.ieee802.org/3> - Ethernet

<http://www.ieee802.org/3/ab> - Gigabit Ethernet over Cat-5 (1000BASE-T)

<http://www.ieee802.org/3/ae> - 10 Gigabit Ethernet

<http://www.ieee802.org/3/ak> - Gigabit Ethernet over InfiniBand cables (10GBASE-CX4)

<http://www.ieee802.org/3/an> - 10 Gigabit Ethernet over Cat-6 (10GBASE-T)

<http://www.ieee802.org/3/ap> - Backplane Ethernet

<http://www.ieee802.org/3/aq> - 10 Gigabit Ethernet over long reach multimode fiber (10GBASE-LRM)

<http://www.oiforum.com/public/link-layer.html> - Optical Interconnect Forum (OIF) Common Electrical I/O (CEI) Physical and Link Layer (PLL) Working Group

<http://www.t11.org> - INCITS T11 Fibre Channel

<http://www.rapidio.org> - Rapid I/O Trade Association

<http://www.stateye.org> - StatEye

<http://www.sata-io.org> - Serial ATA International Organization