Joint ITU-T/IEEE Workshop on Carrier-class Ethernet

31 May - 1 June, 2007
ITU Headquarters, Geneva, Switzerland

Workshop Key objectives;

- Focus on the standardization aspects of Ethernet based network services, requirements and technologies
- Cover above subjects for core, metro and access networks
- Opportunities for collaboration between ITU-T and IEEE

Tentative Session Structure and examples of key session topics:

DAY 1 **14:00 – 17:30**	
Opening session - Welcome address - Keynote speeches - Standards overviews of ITU-T (thernet based networks) - Standards overviews of IEEE 802 (IEEE Local and Metropolitan Area Network)	
Session 1 – Ethernet network services and architecture - Ethernet services (G.8011; Ethernet over Transport - Ethernet services framework, G.8011.1; EPL (Ethernet private line service), G.8011.2; EVPL (Ethernet virtual private line service), Ethernet architecture and equipment (G.8010, G.8021) - LAN/MAN Bridging & Management (IEEE 802.1) - Scalable provider networks (IEEE 802.1ad; Virtual Bridged Local Area Networks, 802.1ah; Provider Backbone Bridges) - MEF-6 (Metro Ethernet Services Definitions Phase I), - MEF-10 (Ethernet Services Attributes Phase I)	
18:00-	**Welcome reception**
DAY 2 **9:00 – 18:00**	
Session 2 – Ethernet Core/Metro network transport - HSSG (IEEE 802.3; Higher Speed Study Group) - Higher speed Ethernet over OTN (Optical Transport Network); larger than 40Gb/s serial rates - Future Ethernet transport mechanisms	
Session 3 – Ethernet based access networks - 1G E-PON (802.3ah; Ethernet in the First Mile Task Force) and 10G E-PON (IEEE 802.3av; 10Gb/s PHY for EPON Task Force) - G-PON (G.984; Gigabit-capable Passive Optical Networks) and B-PON (G.983; Broadband Passive Optical Networks) - Ethernet based access network management (IEEE 802.1aj; Two-port MAC Relay) - Point-to-Point Ethernet access - Home networks	
Session 4 – Ethernet OAM and management -Ethernet OAM requirements, OAM functions and mechanisms (Y.1730, Y.1731), Ethernet protection switching and ring protection (G.8031) - ASON (G.8080; Architecture for the automatically switched optical network, G.7718: ASON management) - Ethernet restoration (xSTP, IEEE 802.1aq; Shortest Path Bridging) - NGNM-FG (Next-Generation Networks Management - Focus Group) - NMS-EMS Management Interface of Ethernet over Transport and Metro Ethernet Network (Q.840.1), Management interface of EPON (Q.838.1) - MEF-7; EMS-NMS Information Model - TMF mTOP Ethernet management aspects in MTNM and MTOSI	
Session 5 -Ethernet QoS, timing and synchronization - Audio Video bridging task group (IEEE 802.1AS; Timing and Synchronization, IEEE 802.1Qat; Stream Reservation Protocol) - IEEE 802.1Qau; Congestion Notification - Timing and synchronization aspects of packet networks (G.8261) - IETF PWE3 (Pseudowire Emulation Edge to Edge) - MEF-9 (Ethernet Services at the UNI) on synchronization	
Closing session - Reports by all session chairs - Wrap-up discussion	

13 November 2006