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| **Telecommunication Standardization Bureau** |  |
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Geneva, 10 May 2013

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| Ref:  Tel:  Fax: | **TSB Circular 27**  TSB Workshops/ A.N.  +41 22 730 5515 +41 22 730 5853 | - To Administrations of Member States of the Union;  - To ITU-T Sector Members;  - To ITU-T Associates;  - To ITU-T Academia; |
| E-mail: | [tsbworkshops@itu.int](mailto:tsbworkshops@itu.int) | **Copy:**  - To the Chairmen and Vice-Chairmen of ITU-T Study Groups;  - To the Director of the Telecommunication Development Bureau;  - To the Director of the Radiocommunication Bureau |

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| Subject: | **Joint IEEE-SA and ITU Workshop on Ethernet -  (Geneva, Switzerland, 13 July 2013)** |

Dear Sir/Madam,

1 I would like to inform you that a one-day **Joint IEEE-SA and ITU Workshop on Ethernet** will take place at ITU headquarters, Geneva, on 13 July 2013.

The workshop will open at 0900 hours. Detailed information concerning the meeting rooms will be displayed on screens at the entrances to ITU headquarters. **Registration will begin at 0800 hours.**

2 Discussions will be held in English only.

3 Participation is open to ITU Member States, Sector Members, Associates and Academic Institutions and to any individual from a country which is a member of ITU who wishes to contribute to the work. This includes individuals who are also members of international, regional and national organizations. The workshop is free of charge and no fellowships will be granted.

4 The key objectives of this workshop will be:

* [IEEE.802](http://www.ieee802.org/) and;
* [ITU-T SG15](http://www.itu.int/en/ITU-T/studygroups/2013-2016/15/Pages/default.aspx) Resolution of the "One stop clock"

5 A draft programme of the workshop is set out in **Annex 1.** The programme including speakers’ presentations will be made available on the ITU-T website at the following address: <http://www.itu.int/en/ITU-T/Workshops-and-Seminars/ethernet/201307/> . This website will be updated as new or modified information becomes available.

6 Wireless LAN facilities are available for use by delegates in the ITU main conference room areas. Wired network access continues to be available in the ITU Montbrillant building. Detailed information is available on the ITU-T website (<http://www.itu.int/ITU-T/edh/faqs-support.html>).

7 For your convenience, a hotel confirmation form is enclosed as **Annex 2** (see [http://www.itu.int/travel/](http://www.itu.int/travel) for the list of hotels). Detailed information on hotel accommodation, transportation and visa requirements can be found at the ITU-T website: <http://www.itu.int/en/ITU-T/Workshops-and-Seminars/ethernet/201307/> .

8 To enable TSB to make the necessary arrangements concerning the organization of the workshop, I should be grateful if you would register via the on-line form at: <http://www.itu.int/en/ITU-T/Workshops-and-Seminars/ethernet/201307/> as soon as possible, **but not later than 5 July 2013**. **Please note that pre-registration of participants to workshops is carried out exclusively *online***.

9 I would remind you that citizens of some countries are required to obtain a visa in order to enter and spend any time in Switzerland. **The visa must be requested at least four (4) weeks before the date of beginning of the workshop** and obtained from the office (embassy or consulate) representing Switzerland in your country or, if there is no such office in your country, from the one that is closest to the country of departure.

If problems are encountered by **ITU Member States, Sector Members, Associates or Academic Institutions**, and at the official request made by them to TSB, the Union can approach the competent Swiss authorities in order to facilitate delivery of the visa but only within the period mentioned of four weeks. Any such request should be made by official letter from the administration or entity you represent. This letter must specify the name and functions, date of birth, number, dates of issue and expiry of passport of the individual(s) for whom the visa(s) is/are requested and be accompanied by a copy of the notification of confirmation of registration approved for the ITU-T workshop in question, and must be sent to TSB by fax (+41 22 730 5853) or e-mail ([tsbreg@itu.int](mailto:tsbreg@itu.int)), bearing the words **“visa request”**. **Please also note that ITU can assist only representatives of ITU Member States, ITU Sector Members, ITU Associates and ITU Academia.**

Yours faithfully,  
  
  
  
  
Malcolm Johnson  
Director of the Telecommunication  
Standardization Bureau

**Annexes: 2**

ANNEX 1

(to TSB Circular 27)

Draft Programme

Joint IEEE-SA and ITU Workshop on Ethernet  
Geneva, 13 July 2013

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| --- | --- | --- |
| 09:00 - 09:15 | Opening |  |
|  | Welcome Speech |  |
| 09:15 - 10:55 | Ethernet Protection |  |
|  | This session will review the protection mechanisms under study within  ITU-T and IEEE.802 for Ethernet bridging standards. The session will commence with an overview of the IEEE 802.1AX LAG revision that includes DRNI. It will then review the new work on seamless redundancy. The session will continue with ITU-T overviewing its effort on protection interworking for Ethernet and OTN. IT will conclude by reviewing MECP. |  |
| 09:15 - 09:40 | 802.1AX LAG/DRNI | IEEE |
| 09:40 - 10:05 | 802.1CB Seamless Redundancy | IEEE |
| 10:05 - 10:25 | G.803x - Ethernet linear & ring protection | ITU |
| 10:25 - 10:40 | Protection Interworking | ITU |
| 10:40 - 10:55 | MECP | ITU |
| 10:55 - 11:05 | Discussion |  |
| 11:05: 11:20 | Coffee break |  |
| 11:20 - 12:30 | Packet Synchronization - introduction |  |
|  | Deployment of Ethernet facilities and services in carrier-class access, metro, and core networks will require enhancement of existing packet-based Ethernet technologies to support synchronization and low latency requirements. This session will describe these new requirements, and the resource management, time synchronization mechanisms and protocols being standardized to achieve them. Standardized Ethernet QoS, time synchronization mechanisms and protocols will be described, e.g., precision time synchronization (IEEE 1588, IEEE 802.1AS), packet network time synchronization (ITU-T G.827x) and low latency traffic (IEEE 802.3). Ongoing standardization efforts and unfulfilled standardization needs will be explored. |  |
| 11:20 - 11:40 | IEEE 1588 revision | IEEE |
| 11:40 - 12:00 | G.8275.x - Telecom Time Profile | ITU |
| 12:00 - 12:20 | 802.1AS revision | IEEE |
| 12:20 - 12:30 | Discussion |  |
| 12:30 - 14:00 | Lunch |  |

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| 14:00 16:00 | Packet Synchronization - issues |  |
|  | Deployment of Ethernet facilities and services in carrier-class access, metro, and core networks will require enhancement of existing packet-based Ethernet technologies to support synchronization and low latency requirements. This session will describe these new requirements, and the resource management, time synchronization mechanisms and protocols being standardized to achieve them. Standardized Ethernet QoS, time synchronization mechanisms and protocols will be described, e.g., precision time synchronization (IEEE 1588, IEEE 802.1AS), packet network time synchronization (ITU-T G.827x) and low latency traffic (IEEE 802.3). Ongoing standardization efforts and unfulfilled standardization needs will be explored. |  |
| 14:00 - 14:20 | ITU-T issue - network limits, asymmetry, etc.? | ITU |
| 14:20 - 14:40 | IEEE 802 issue - one-step clock? | IEEE |
| 14:40 - 15:00 | IEEE 1588 issue - metrics? | IEEE / ITU |
| 15:00-15:20 | 802.1Qbv Cut through | IEEE |
| 15:20: 15:40 | 802.3 Distinguished Minimum Latency Traffic | IEEE |
| 15:40 - 16:00 | Discussion |  |
| 16:00 - 16:15 | Coffee break |  |
| 16:15 - 17:00 | Conclusion |  |
| 16:15 - 16:30 | Moderator summaries of sessions |  |
| 16:30 - 16:40 | Discussion |  |
| 16:40 - 17:00 | Closing remarks |  |

ANNEX 2

(to TSB Circular 27)

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| *This confirmation form should* ***be sent direct to the hotel*** *of your choice* |

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|  | **INTERNATIONAL TELECOMMUNICATION UNION** |  |

**TELECOMMUNICATION STANDARDIZATION SECTOR**

# *Joint IEEE-SA and ITU Workshop on Ethernet,* on 13 July 2013 *in Geneva*

*Confirmation of the reservation made on (date) -------------------------- with (hotel) --------------------------------*

***at the ITU preferential tariff***

*------------ single/double room(s)*

*arriving on (date)----------------------------- at (time) ------------- departing on (date)--------------------------------*

***GENEVA TRANSPORT CARD:*** *Hotels and residences in the canton of Geneva now provide a free "Geneva Transport Card" valid for the duration of the stay. This card will give you free access to Geneva public transport, including buses, trams, boats and trains as far as Versoix and the airport.*

*Family name* -------------------------------------------------------------------------------------------------------------------

*First name*  ------------------------------------------------------------------------------------------------------------------

*Address*  ------------------------------------------------------------------------ *Tel: -------------------------------*

*----------------------------------------------------------------------------------------- Fax: -------------------------------*

*----------------------------------------------------------------------------------------- E-mail:* ------------------------------

*Credit card to guarantee this reservation*: AX/VISA/DINERS/EC (*or* *other) -----------------------------------*

*No.* -------------------------------------------------------- *valid until* ------------------------------------------------

*Date* ------------------------------------------------------ *Signature*  ---------------------------------------------------