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| **Telecommunication Standardization Bureau** |  |
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Geneva, 13 March 2013

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| Ref: | **TSB Collective letter 1/TSAG** |  |
| Tel: Fax:  E-mail: | +41 22 730 5860 +41 22 730 5853 [tsbtsag@itu.int](mailto:tsbtsag@itu.int) | * To the Administrations of Member States of the Union, to ITU-T Sector Members participating in the work of TSAG; * To the Secretary-General of the ITU; * To the Director of the Radiocommunication Bureau; * To the Director of the Telecommunication Development Bureau; * To the ITU-T Study Group Chairmen; * To the Chairman of the Review Committee * To the Chairman of the ITU-T Standardization Committee for Vocabulary |

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| **Subject:** | **Meeting of the Telecommunication Standardization Advisory Group (TSAG),  4‑7 June 2013 and SDN Workshop 4 June 2013, 17:45-19:30, Geneva** |

Dear Sir/Madam,

It is my pleasure to invite you to attend the Telecommunication Standardization Advisory Group (TSAG) which is to meet at ITU headquarters, Geneva, from 4 to 7 June 2013 inclusive.

The meeting will open at 0930 hours on the first day. Participant registration will begin at 0830 hours at the Montbrillant entrance. Detailed information concerning the meeting rooms will be displayed on screens at the entrances to ITU headquarters. Additional information about the meeting is set forth in **Annex A**.

The draft **Agenda** of the meeting, as prepared by agreement with the Chairman of TSAG (Mr Bruce Gracie), is set out in **Annex B**.

On Tuesday 4 June, 17:45 – 19:30, a workshop on SDN (Software Defined Networking) will be held to consider the latest developments of this technology, in accordance with WTSA-12 Resolution 77 (see **Annex C**). Details of the programme of the workshop will be provided at <http://itu.int/ITU-T/worksem/index.html>.

Please also note that the Review Committee will meet on Monday 3 June 2013. A separate Collective letter will be issued for this meeting.

I wish you a productive and enjoyable meeting.

Yours faithfully,

Malcolm Johnson  
Director of the Telecommunication  
Standardization Bureau

**Annexes: 3**

**ANNEX A**

**MAKING CONTRIBUTIONS**

**DEADLINES FOR CONTRIBUTIONS:** The deadline for contributions is 12 (twelve) calendar days before the before the meeting. Such contributions will be published on the TSAG website and must therefore be received by TSB **not later than 22 May 2013.** Contributions received at least **two** months before the start of the meeting may be translated, if requested.

**DIRECT POSTING/DOCUMENT SUBMISSION:** A direct posting system for contributions is available on-line. The direct posting system allows ITU-T members to reserve contribution numbers and to upload/revise contributions directly to the ITU-T web server. Further information and guidelines for the direct posting system are available at the following address: <http://itu.int/net/ITU-T/ddp/>.

**TEMPLATES:** Please use the provided set of templates to prepare your contribution.  The templates are accessible from each ITU-T study group web page, under “Delegate resources” (<http://itu.int/ITU-T/studygroups/templates>).  The name, fax and telephone numbers and e-mail address of the person to be contacted about the contribution should be indicated on the cover page of all documents.

**WORK METHODS AND FACILITIES**

**INTERPRETATION** will be available on 4, 5 and 7 June 2013. On 6 June, ad hoc groups will meet without interpretation.

**CAPTIONING**: Real time captioning of the English audio channel is provided on screen.

**REMOTE PARTICIPATION IN THE SIX UN LANGUAGES:** Allows you to raise your hand remotely and make an oral intervention in one of the six UN languages. Your intervention will be interpreted and heard by all participants. You are also provided with a video feed of the conference room. All documents and presentations are visible. You can use chat to communicate with other participants and meeting host.

**WEBCASTING:** Allows you to listen to any of the interpreted audio feeds in real-time or later (webcasting is archived). No documents and presentations are shown, and no interventions are possible.

**PAPERLESS MEETINGS:** In agreement with its Chairman, Mr Bruce Gracie, the meeting will be run paperless.

**WIRELESS LAN** facilities are available for use by delegates in all ITU meeting rooms and in the CICG (Geneva International Conference Centre) building. Detailed information is available on the ITU-T website (<http://itu.int/ITU-T/edh/faqs-support.html>).

**E-LOCKERS** are available on the ground floor of the Montbrillant building. Your ITU RFID badge opens and closes the e-locker. Your e-locker is available only for the period of the meeting you are attending, so please ensure that you empty the locker before 23:59 on the last day of the meeting.

**LOAN LAPTOPS:** The ITU Service Desk ([servicedesk@itu.int](mailto:servicedesk@itu.int)) has available a limited number of laptops on a first-come, first-serve basis, for those who do not have one.

**PRINTERS:** Printers are available in the cyber café on the second basement level of the Tower building, on the ground floor of the Montbrillant building and near the major meeting rooms, for delegates who wish to print documents.

**E-PRINTING:** In addition to the "traditional" print method using printer queues that need to be installed on the user's computer or device, printing documents via e-mail ("e-print") is now possible. The procedure is simply to attach the documents to be printed to an email, that is sent to the desired printer email address (in the form [printername@eprint.itu.int](mailto:printername@eprint.itu.int)). No driver installation is required. For more details, please see <http://itu.int/ITU-T/go/e-print>.

**REGISTRATION, NEW DELEGATES and FELLOWSHIPS**

**REGISTRATION** To enable TSB to make the necessary arrangements, please send by letter, fax (+41 22 730 5853) or e-mail ([tsbreg@itu.int](mailto:tsbreg@itu.int)) **not later than 3 May 2013**, the list of people who will be representing your Administration, Sector Member, Associate, Academic Institution, regional and/or international organization or other entity. Administrations are requested also to indicate the name of their head of delegation (and deputy head, if applicable).

**Please note that pre-registration of participants to ITU-T meetings is carried out *online* at the ITU-T website (**<http://www.itu.int/ITU-T/tsag/index.asp>**).**

**NEW DELEGATES** are invited to attend a **MENTORING PROGRAMME**, including a welcome briefing upon registration, guided visit of ITU headquarters and orientation session on ITU-T. Please check the corresponding box on the registration form if you would like to participate.

**FELLOWSHIPS:** We are pleased to inform you that one full or two partial fellowships per administration will be awarded, subject to available funding, to facilitate participation from Least Developed or Low Income Developing Countries (<http://itu.int/en/ITU-T/info/Pages/resources.aspx>). An application for a fellowship must be authorized by the relevant Administration of the ITU Member State. Fellowship requests (please use enclosed **Form 1)**, must be returned to ITU not later than **19 April 2013.**

**KEY DEADLINES (before meeting)**

**4 April*,* 2013**: -submit contributions for which translation is requested

**19 April, 2013**: -fellowship requests

**3 May, 2013**: -requests for visas

**22 May, 2013**: -deadline for contributions

**VISITING GENEVA: HOTELS AND VISAS**

**HOTELS:** For your convenience, a hotel reservation form is enclosed (Form 2). A list of hotels can be found at <http://itu.int/travel/>

**VISAS:** Please remember that citizens of some countries are required to obtain a visa in order to enter and spend time in Switzerland. **The visa must be requested at least four (4) weeks before the date of beginning of the meeting** 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, the Union can, at the official request of the administration or entity you represent, 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 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 meeting 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”**.

**FORM 1 - FELLOWSHIP REQUEST**

(to TSB Collective letter 1/TSAG)

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|  | **ITU-T TSAG meeting**  **Geneva, Switzerland, 4-7 June 2013** | | | | | |  |
| **Please return to:** | | | **ITU**  **Geneva (Switzerland)** | | **E-mail :** [**bdtfellowships@itu.int**](mailto:bdtfellowships@itu.int)  **Tel: +41 22 730 5227**  **Fax: +41 22 730 5778** | | | |
| **Request for one full fellowship or two partial fellowships to be submitted  before 19 April 2013** | | | | | | | |
| Submission of contributions is encouraged | | | | Participation of women is encouraged | | |  | |
| Registration Confirmation I.D. No: …………………………………………………………………………… (Note: It is imperative for fellowship holders to pre-register via the online registration form at: <http://www.itu.int/ITU-T/tsag/index.asp>)  **Country: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Name of the Administration or Organization: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Mr. / Ms. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(family name) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(given name)**  **Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | | | | | | | |
| **Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Tel.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Fax: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ E-Mail:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **PASSPORT INFORMATION :**  **Date of birth: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Nationality: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Passport number: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Date of issue: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ In (place) : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Valid until (date): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | | | | | | | |
| **Please select your preference** | | | | | | | | |
| 1. **□** One full fellowship     or **□** two partial fellowships (per eligible country). | | | | | | | | |
| 1. In case of two partial fellowships, choose one of the following: | | | | | | | | |
| **□ Economy class air ticket (duty station / Geneva / duty station).**  **□ Daily subsistence allowance intended to cover accommodation, meals & misc. expenses.** | | | | | | | | |
|  | | | | | | | | |
| **Signature of fellowship candidate:** | | | | | | **Date:** | | |
| **TO VALIDATE FELLOWSHIP REQUEST, NAME, TITLE AND SIGNATURE OF CERTIFYING OFFICIAL DESIGNATING PARTICIPANT MUST BE COMPLETED BELOW WITH OFFICIAL STAMP.**  **N.B. IT IS IMPERATIVE THAT FELLOWS BE PRESENT FROM THE FIRST DAY TO THE END OF THE MEETING.** | | | | | | | | |
| **Signature** | | | | | | **Date** | | |

**FORM 2 - HOTELS**

(to TSB Collective letter 1/TSAG)

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

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|  | **INTERNATIONAL TELECOMMUNICATION UNION** |  |

**TELECOMMUNICATION STANDARDIZATION SECTOR**

*SG/WP meeting ------------------------------------- from ------------------------- to ----------------------- 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*  ---------------------------------------------------

**ANNEX B**

(to TSB Collective letter 1/TSAG)

**DRAFT AGENDA FOR THE MEETING OF THE TELECOMMUNICATION STANDARDIZATION ADVISORY GROUP**

(Geneva, 4-7 June 2013)

1. Opening of the meeting
2. Opening remarks by the Secretary-General
3. Opening remarks by the Director, TSB
4. Chairman’s comments and observations
5. Approval of the agenda, time management plan and document allocation

6. Review of the results of WTSA-12

7. Report of the Review Committee

8. Organization of the work of TSAG for the 2013 – 2016 period

8.1 Review of key work areas

8.2 Review of existing and planned correspondence groups

9. Strategic and Operational Plan review

10. Date of next TSAG meeting

11. Any other business

12. Consideration of draft meeting Report

13. Closing remarks by the Director, TSB

14. Closure of meeting

**ANNEX C**

(to TSB Collective letter 1/TSAG)

**WORKSHOP ON SDN (SOFTWARE-DEFINED NETWORKING)**

(Geneva, 4 June 2013, 17:45 – 19:30)

SDN is of great interest to carrier networks including mobile, data centres, and enterprise networks because SDN is a promising technology for the introduction and realization of network virtualization. For network operators, SDN is a networking technology which will allow a centralized, programmable control plane and data plane abstraction, where control and data planes are separated, to allow them to control and manage directly their own virtualized resources and networks without requiring new hardware technologies.

This promises to be the first major change in networking technologies since the early1970’s. Until now, intelligence has resided largely at the end point of the network, the computers, while network equipment such as routers and switches were relatively dumb post offices of various size, mainly confined to reading addresses and transferring packets of data to adjacent systems. In addition, network control and data planes have been tightly coupled in a closed, proprietary way. This has meant that, whenever new services, technologies or hardware were adopted and deployed, network complexity, management and operational costs increased.

In summary, SDN is a significant new development, and as recognised by WTSA-12, ITU-T must address this new challenge. The workshop will review developments and consider the best approach.

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