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| **Telecommunication StandardizationBureau** |  |
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 Geneva, 10 May 2012

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| Ref:Tel:Fax:Email: | **TSB Circular 280**TSB Workshops/P.R.+41 22 730 5158+41 22 730 5853tsbworkshops@itu.int  | - To Administrations of Member States of the Union;- To ITU Sector Members;- To ITU Associates;- To ITU Academia |
|  |  | **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.- To the Director of the ITU Regional Office for the Arab States |
| Subject: | **ITU Workshop on "Cloud Computing" (Tunis, Tunisia, 18-19 June 2012)** |

Dear Sir/Madam,

1 I would like to inform you that an ITU workshop on “Cloud Computing” will take place at Le Palace Hotel in Tunis, Tunisia on 18 and 19 June 2012 at the kind invitation of Tunisie Télécom.

The workshop will open at 0900 hours on the first day. Participants’ registration will begin at 0830 hours. Detailed information concerning the meeting room will be provided at the entrance of the meeting venue.

2 Discussions will be held in English with French interpretation.

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.

4 The workshop is aimed at presenting the general characteristics of the cloud technology, benefits, technical barriers and development issues and introducing regulatory aspects of cloud computing and standardization efforts.

5 A draft programme of the workshop is set out in **Annex 1** hereto.

6 Information relating to the workshop will be available on the ITU-T website at the following address: <http://www.itu.int/en/ITU-T/Workshops-and-Seminars/ccsg/201206/Pages/default.aspx> .

7 **Fellowships**: We are pleased to inform you that one full or two partial fellowships per administration will be awarded, **within the Africa and Arab Region only**, 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 **in Annex 2)**, must be returned to ITU **not later than** **28 May 2012** (please note that at WTSA-08, the Heads of Delegation committed that their candidate chairmen and vice-chairmen would be provided with the necessary resources to fulfil the duties of their office for the full four year term and that it was therefore recognized that the chairmen and vice-chairmen will not receive financial assistance from ITU).

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/reg/tws/3000405> , as soon as possible, but **not later than 8 June 2012**. **Please note that pre-registration of participants to workshops is carried out exclusively *online*. Remote participation will be provided for this workshop.**

9 We would remind you that citizens of some countries are required to obtain a visa in order to enter and spend any time in Tunisia. The visa must be requested and obtained from the Embassy or Consulate of Tunisia in your country or, if there is no such office in your country, from the one that is closest to the country of departure.

10 This Cloud Computing workshop will be followed by the second meeting of the FG Innovation, from 20-21 June 2012 inclusive. In addition, a half day workshop on ICT Innovations in Developing Countries will be held on the afternoon of 20 June 2012. Both events will take place at Le Palace Hotel. Further information may found on the FG Innovation webpage at the following address:
<http://www.itu.int/en/ITU-T/focusgroups/innovation/Pages/default.aspx>.

Yours faithfully,

Malcolm Johnson
Director of the Telecommunication
Standardization Bureau

**Annexes: 2**

ANNEX 1
(to TSB Circular 280)

**Workshop on Cloud Computing**

**Tunis, Tunisia 18 and 19 June 2012**

**Draft Programme**

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| **Monday, 18 June 2012** |
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| **09:00-09:30** | **Opening and Introductory remarks*** **Mr Ali Ghodhbani,** CEO, Tunisie Telecom
* **Mr Malcolm Johnson,** Director of the Telecommunication Standardization Bureau
* **H.E. Mongi Marzouk,** Minister of Information and Communication Technologies
 |
|  | **Part I: Technical aspects of cloud computing** |
| **09:30-11:00** | **Session 1 : Introduction to cloud computing**The objective of this introductory session is to outline the general characteristics of cloud technology, its benefits, technical barriers and what it means for development.* Work of the International Telecommunication Union
* Status of the development of cloud computing
* Issues and prospects
* Industry viewpoint
 |
| **11:00-11:30** | **Break** |
| **11:30-13:30** | **Session 2 : Cloud computing services**This session will look at the nature and specific features of XaaS services delivered in the cloud.* Presentations on available services
* Role of service providers and app developers
* Testimonies from companies that have opted for a private cloud
* Testimonies from companies that host their services in the public cloud
 |
| **13:30-14:30** | **Lunch** |
|  | **Part II: Technical aspects of cloud computing (continued)** |
| **14:30-16:00** | **Session 3 : Infrastructure and networks for the cloud*** Implementation strategies and techniques
* Data centre security
* Connectivity and bandwidth requirements
* VPN networks for the cloud
 |
| **16:00-16:30** | **Break** |
| **16:30-17:30**  | **Panel 1 : Opportunities and barriers for the adoption of cloud technology – Feedback on experiences**The panel will comprise managers of businesses supplying cloud services , data centre suppliers and network operators. |
| **Tuesday, 19 June 2012** |
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|  | **Part III: Standardization aspects of cloud computing** |
| **09:30-10 :30** | **Session 4 : Cloud computing concepts, definitions and standards – Defining the cloud** * Stakeholder roles and responsibilities in the cloud
* Alternative approaches to cloud computing: private cloud, public cloud
* Standardization of the cloud within ITU-T: Results of FG Cloud and launch of WP6 Cloud within SG 13
 |
| **10:30-11:00** | **Break** |
|  |  **Part IV: Regulatory aspects of cloud computing** |
| **11:00-12:30** | **Session 5 : Legal and operational issues in cloud computing*** Cloud computing business model
* Opportunities for developing countries
* Protection of hosted data
* Factors for confidence
* Delocalization and transborder clouds
 |
| **12:30-13:30** | **Lunch** |
| **13:30-15:30** | **Session 6 : Contracting phase*** Rights and obligations of parties involved
* Types of contract for cloud computing
* National and international contracting
 |
| **15:30-16:00** | **Break** |
| **16:00-17:00** | **Panel 2 : Updating regulations – A prerequisite for building stakeholder confidence in cloud computing**The panel will comprise staff members of authorities responsible for rule-making, regulation, data protection and data security. |

**ANNEX 2**

**(**to TSB Circular 280**)**

**FELLOWSHIP REQUEST**

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|  | **ITU Workshop on Cloud Computing****(Tunis, Tunisia, 18-19 June 2012)** |  |
| **Please return to:** | **ITU** **Geneva (Switzerland)** | **E-mail :** **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 28 May 2012** |
|  | Participation of women is encouraged |  |
| Registration Confirmation I.D. No: ……………………………………………………………………………(Note: It is imperative for fellowship holders to pre-register via the on-line registration form at: <http://www.itu.int/reg/tws/3000405> )**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).
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| 1. In case of two partial fellowships, chose one of the following:
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|  **□ Economy class air ticket (duty station / Tunis / 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** |