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| itu_logo | | **International telecommunication union**  **Telecommunication Standardization Bureau** | |  |
|  | | | Geneva, 7 July 2015 | |
| Ref: | **TSB Circular 158**  TSB Workshops/K.M | | - To Administrations of Member States of the Union;  - To ITU-T Sector Members;  - To ITU-T Associates;  - To ITU Academia | |
| Contact: | Kaoru Mizuno | |
| Tel: | +41 22 730 6226 | |
| Fax: | +41 22 730 5853 | |
| E-mail: | [tsbworkshops@itu.int](mailto:tsbworkshops@itu.int) | | **Copy:**  - To the Chairmen and Vice-Chairmen of all 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, Bangkok;  - To the Permanent Mission of Thailand in Geneva | |
| Subject: | **3rd joint APT/ITU Conformance and Interoperability event  Bangkok, Thailand, 7-8 September 2015** | | | |

Dear Sir/Madam,

1 I would like to inform you that the 3rd joint APT/ITU event on Conformance and Interoperability (C&I) will take place from 7 to 8 September 2015 in Bangkok, Thailand. The event will be held at the Centara Grand at Central World, Bangkok, Thailand, back-to-back with the 26th APT Standardization Programme Forum (ASTAP-26) which will be held from 9 to 12 September 2015.

2 The event will consist of the following three parts scheduled as follows:

1. Interoperability **testing** (7 September 2015)
2. **Showcasing** (7 September 2015 – 9 September 2015)
3. **Workshop** (8 September 2015)

Discussions will be held in English only.

3 In accordance with the ITU Plenipotentiary Conference Resolution 177 (Guadalajara, 2010), ITU has been working on a [C&I Programme](http://www.itu.int/en/ITU-T/C-I/Pages/default.aspx) to ensure the conformance and interoperability of ICT products implemented according to ITU-T Recommendations or part thereof. The programme is based on four pillars: Pillar 1: Conformity assessment; Pillar 2: Interoperability events; Pillar 3: Capacity building and Pillar 4: Assistance in the establishment of test centres and C&I programmes in developing countries.

This joint APT/ITU event will provide updates, foster understanding and promote C&I related activities in the APT region. The event will also contribute to capacity building on C&I issues. It is also expected that the event would generate feedback to the ITU-T Study Groups for further study.

4 The **testing** part of the event will include an interoperability testing of products which are based on the ITU-T Recommendations. Manufacturers and service providers are encouraged to bring their products and participate to check interoperability. The results of the interoperability testing can be shared among the participants upon agreement, such as nondisclosure agreements (NDAs). It could cover technologies and services such as:

* IPTV (including IPTV-MAFR (Multimedia Application Framework))

Note: NGN (VoIP, Video conference) testing takes place prior to this APT/ITU C&I event, at HATS (Harmonization of Advanced Telecommunication Systems, Japan) Interoperability event on NGN supported by ITU and APT, Tokyo, Japan, 14-16 July 2015. Its test result will be reported to the workshop. Information can be found at: <http://www.itu.int/en/ITU-T/C-I/interop/Pages/HATS-Interoperability-event-on-NGN_July2015.aspx>.

The **showcasing** part of the event will be a demonstration of the emerging products provided by participating manufacturers and research institutes. This part aims to underscore advanced technologies and ongoing standardization work at ITU-T. It could cover technologies and services such as:

* IMS/NGN interworking
* Future Transport Network
* M2M/IoT/e-Health
* FTTH (GPON and GEPON)
* IPTV/internet TV
* NGN E2E service
* SDN/NFV
* Transition from existing network to NGN/Future Networks

The **workshop** part of the event will include lectures and presentations on C&I related activities as well as future perspectives from experts (ITU, regional SDOs, government, private sector, etc.), sharing knowledge and experience and discussions among participants in order to find possible solutions to interoperability issues based on the ITU C&I approach. This discussion will benefit from the simultaneous testing and showcasing events where several examples might be provided. A draft programme, which will be regularly updated, as well as information relating to the workshop can be found on the event website at: <http://www.itu.int/en/ITU-T/C-I/interop/Pages/CI_APT_Sept15.aspx> .

5 The event is open to all ICT players of ITU and/or APT member states including vendors, operators, regulators, research institutes and regional SDOs. The fee charged by APT for participation in the Testing and/or Showcasing (as exhibitors) event will be US$800 per organization tentatively. This sum will cover cost of local arrangements including facilities of the venue, internet and technical support. Please be informed that the fee will be based on the cost recovery basis for testing and showcasing, hence it may vary from the amount mentioned above. Participation in the workshop and visit to the showcasing are free of charge, but no fellowships will be granted.

6 General information including hotel accommodation, transportation and visa requirements will be made available on the event website at: <http://www.itu.int/en/ITU-T/C-I/interop/Pages/CI_APT_Sept15.aspx> .

7 **Registration**: To enable the host to make the necessary arrangements concerning the organization of the event, I should be grateful if potential exhibitors in the testing and showcasing would send your registration form (see Annex 1) to the APT Secretariat by email: [aptastap@apt.int](mailto:aptastap@apt.int) or by fax: +66 2 5737479 as soon as possible, but **not later than 7 August 2015**. Please note that individual participants will need to register online at <http://www.apt.int/content/online-registration>.

Yours faithfully,

Chaesub Lee  
Director of the Telecommunication  
Standardization Bureau

**Annex: 1**

ANNEX 1  
(to TSB Circular 158)

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| --- | --- | --- | --- |
| **logogreen** | **APT/ITU Conformance and Interoperability Event 2015**  7 – 8 September 2015, Bangkok, Thailand | | **itu_small_logo** |
| **REGISTRATION FORM**  **For Participating Companies and Exhibitors for the Testing and Showcasing** | | | |
| **Please completely fill in the form using CAPITAL LETTERS.** | | **Last Date of Submission:**  **7 August 2015** | |
| **CONTACT INFORMATION:** | | | |
| Company / Organization: ……………………………………………………………………………..…………………. ……  Country: ……………………………………………………………………………..…………………. ……  **CONTACT PERSON (for APT/ITU C&I Events):**  First Name: **(Mr./Ms./Mrs./Dr.)** ………………………………..  Last Name: ….………..…………………. …….…. .  Present Position (Title):……..……………………………………………………………………….……..…………………  Business Address: ……..……………………………………………………………………….……..…………………  ……..……………………………………………………………………….……..…………………  Phone:…………………………. Fax No:……….…………………….. E-mail: …….…………………….…… | | | |
| **MEMBERSHIP STATUS: (Please tick which is appropriate for your membership status)** | | | |
| 1. Affiliate Memberof APT **🖵** 2. Sector Member of ITU 🖵 3. International/Regional Organization 🖵  4. Non-Member of both APT and ITU 🖵 5. Others 🖵 …….…………………….…… | | | |
| **PARTICIPATION: (Please tick your role in the Event)** | | | |
| 1. Workshop **🖵**    2. IPTV testing 🖵 (Please fill in the **Annex 1**)    3. Exhibitor of Showcasing 🖵 (Please fill in the **Annex 2**) | | | |
| **DELEGATION LIST:** (if decided)  Individual participants need to register online at <http://www.apt.int/content/online-registration> | | | |
| 1. ……………………………………………………………………………..…………………. …… 2. ……………………………………………………………………………..…………………. …… 3. ……………………………………………………………………………..…………………. …… | | | |
| **Signature** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | |
| **Please Return To:** Asia-Pacific Telecommunity, 12/49 Soi 5, Chaengwatana Road, Bangkok 10210, Thailand.   Fax:+662 573 7479; Email: [aptastap@apt.int](mailto:aptastap@apt.int) | | | |

**ATTACHMENT 1 to ANNEX 1**

**For Participating Companies in IPTV Interoperability Testing**

Please fill in the table below to describe the equipment which you will bring to the event.

**Table 1: Questionnaire for IPTV interoperability testing**

|  |  |
| --- | --- |
| Items | Description |
| Name of equipment |  |
| Interoperability test suites (service testing framework) | |
| IPTV service test specifications | □　ITU-T H.701 (HSTP.CONF-H.701)  □　ITU-T H.721 (HSTP.CONF-H.721)  □　ITU-T H.762 (HSTP.CONF-H.762)  □　ITU-T H.770 (HSTP.CONF-H.770)  □　Others |
| Other items | |
| IP version | □ IPv4□ IPv6□ IPv4 & IPv6 |
| Test category | □ IPTV Service discovery  □ IPTV basic service (VOD and/or Linear TV)  □ IPTV light weight multimedia environment  □ IPTV Content Delivery Error Recovery  □ Others ([　　　　　　　　　　　　　　　　　　　　　　]) |
| Specifications of equipment | Dimensions:  Weight:  Power consumption: |
| Notes | Please indicate any other comments |

1. **Outline of testing**

1) Test condition: IPTV service interoperability testing based on ITU-T H.701, H.721, H.762, and H.770

2) Category of testing: Service discovery, VoD, Linear TV, LIME, FEC

3) Terminals: IPTV terminal (See Figure2)

4) Test scenarios： IPTV head-end – terminals communications based on ITU-T HSTP.CONF-H701, HSTP.CONF-H721, HSTP.CONF-H762 and HSTP.CONF-H770.

5) Event Schedule: 7 September 2015

6) Preparation Schedule:

Close of registration: Fri 7 August

Cross check of parameter sheets and confirmation of test sequence: 　Mon 10 August

7) Test configuration

IPv6

IPv6

IPTV

network

simulator

(DHCP, SIP server, etc)

Terminal B

IPTV head-end

**Figure 1: IPTV Interoperability testing configuration**

1. **Baseline standard**

1) H.701, Content Delivery Error Recovery for IPTV services.

2) H.721, IPTV Terminal Device: Basic model.

3) H.762, Lightweight interactive multimedia environment (LIME) for IPTV services.

4) H.770, Mechanisms for service discovery and selection for IPTV services.

1. **Interoperability test suites**
2. HSTP.CONF-H701, conformance testing specification for H.701
3. HSTP.CONF-H721, conformance testing specification for H.721
4. HSTP.CONF-H762, conformance testing specification for H.762
5. HSTP.CONF-H770, conformance testing specification for H.770

**ATTACHMENT 2 to ANNEX 1**

**For Exhibitors of Showcasing**

Please fill in the table below to describe the equipment which you will bring to the event.

|  |  |
| --- | --- |
| **Items** | **Description** |
| Topics of Showcasing |  |
| Equipment 1 | Name:  Dimensions:  Weight:  Power consumption: |
| Equipment 2 | Name:  Dimensions:  Weight:  Power consumption: |
| Equipment 3 | Name:  Dimensions:  Weight:  Power consumption: |
|  |  |
| Notes | Please indicate any other comments and requirements. |

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