Geneva, 11 June 2013

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| **Telecommunication Standardization Bureau** |  |
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| Ref:  Tel:  Fax:  Email: | **TSB Circular 34**  TSB Workshops/A.N.  +41 22 730 5780 +41 22 730 5853 [tsbworkshops@itu.int](mailto:tsbworkshops@itu.int) | - To Administrations of Member States of the Union;  - To ITU-T Sector Members;  - To ITU-T Associates;  - To the ITU-T 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, Bangkok;  - The Permanent Mission of Thailand in  Geneva |
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| **Subject:** | **Joint APT/ITU Conformance and Interoperability event**  **Bangkok, Thailand 9-10 September 2013** |

Dear Sir/Madam,

1 I would like to inform you that a Joint APT/ITU event dedicated to Conformance and Interoperability testing will take place from 9 to 10 September 2013 in Bangkok (Thailand). The event will be held at the Centara Grand at Central World, Bangkok (Thailand) and will be followed by the 22nd APT Standardization Program Forum (ASTAP-22) from 11-14 September 2013 at the same venue.

2 The event will consist of the following three parts: **workshop**, C&I **testing** and **showcasing**. It is scheduled as follows:

* Workshop (Afternoon of 9th and 10th September 2013)
* Conformance and Interoperability testing (9th - 10th September 2013)
* Showcasing (9th - 14th September 2013)

3 Since WTSA-08 ITU has been managing 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. It is also aimed at soliciting feedback to improve the quality of ITU-T Recommendations and at reducing the digital divide and the Standardization Gap by providing developing countries with the requisite tools and expertise to establish regional C&I test centres.

The joint APT/ITU event will foster understanding and promote the ITU C&I Programme and relevant activities in the APT region, and contribute to capability building and finding a solution for interoperability issues of APT member countries. It is also expected that the event will allow APT and ITU members to better understand and address C&I issues in the Region and give relevant feedback to the ITU SGs for further study.

4 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 from APT member countries in order to find greater possibilities to solve interoperability issues based on the global ITU C&I approach. This discussion will be supported by simultaneous testing and showcasing events where several examples might be provided.

The **testing** part of the event will include conformance and/or 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 of interoperability testing with bilateral agreement bases, such as nondisclosure agreements (NDAs). It could cover technologies and services such as:

- NGN (VoIP, Video conference)

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

The **showcasing** part will be a demonstration of the emerging products made 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:

- NGN (VoIP, Video conference)

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

- HTML5

- Smart TV

- SDN (Software Defined Networking)

- Optical access

Detailed information about the event is available on the ITU [C&I Portal](http://www.itu.int/en/ITU-T/C-I/interop/Pages/default.aspx).

5 The event is open to all ICT players including ITU/APT member states, vendors, operators, regulators and standards development organizations (SDOs). Fee for participating companies and exhibitors for Testing and Showcasing will be US$1,500 per company to recover cost of arrangements including facilities of the venue, internet and technical support.

6 **Registration**: To enable the host to make the necessary arrangements concerning the organization of the event, I should be grateful if you would send your registration form (see **Annex A**) 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 19 July 2013**. Individual participants are to register online at <http://www.apt.int/content/online-registration>.

Yours faithfully,

Malcolm Johnson  
Director of the Telecommunication  
Standardization Bureau

**Annex: 1**

ANNEX A  
(to TSB Circular 34)

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| **logogreen** | **APT Conformance and Interoperability Event**  09-10 September 2013, Bangkok, Thailand | | **itu_small_logo** |
| **REGISTRATION FORM**  **for participating companies and exhibitors for the Testing (NGN / IPTV) and Showcasing** | | | |
| **Please completely fill up using CAPITAL LETTERS.** | | **Last Date of Submission:**  **19 July 2013** | |
| **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 **🖵**    2-1. NGN testing 🖵 (Please fill the **Annex 1**) 2-2 IPTV testing 🖵 (Please fill the **Annex 2**)    3. Exhibitor of Showcasing 🖵 (Please fill the **Annex 3**) | | | |
| **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) | | | |

**Annex 1**

**for participating companies in NGN interoperability testing**

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

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

|  |  |
| --- | --- |
| Items | Description |
| Name of equipment |  |
| Interface | □ UNI [ □Q.3902 □other(　　　　　)] |
| Procedures of terminal  Registration to NGN | □ Q.3948 Annex C □other (　　　　　) |
| NGN service test specifications | □　ITU-T Rec.Q.3948 (Service testing framework for VoIP at the user-to-network interface of next generation networks)  □　ITU-T Rec.Q.3949 (Real-time multimedia service testing framework at the user-to-network interface of next generation networks  □　Others |
| IP version | □ IPv4□ IPv6□ IPv4 & IPv6 |
| Signalling protocol | □ SIP(RFC3261) / SDP(RFC4566)  □ Other protocols(　　　　　　　　　　　　　　　　　　　　 　) |
| Test category | □ VoIP terminal interoperability testing  □ Video phone terminal interoperability testing  □ Video Conference and HDTV Conference interoperability testing  □ Others ( [　　　　　　　　　　　　　　　　　　　　　　]) |
| Specifications of equipment | Dimensions:  Weight:  Power consumption: |
| Notes | Please indicate any other comments |

1. **Outline of testing**

1) Test condition: End-to-End Multimedia service interoperability testing based on ITU-T Q.3902 NGN-UNI

2) Category of testing: VoIP, Video Phone, Video Conference, HDTV Conference

3) Terminals: SIP terminal (See Figure1)

4) Test scenarios： Basic call connection of Audio/Visual communications based on ITU-T Q.3948/Q.3949.

5) Event Schedule: 9-10 September 2013

6) Preparation Schedule:

Close of registration Fri 19 July

Cross check of parameter sheets and confirmation of test sequence　　　Mon 22 July -

7) Test configuration

UNI

UNI

HGW

HGW

Terminal B

NGN

network

simulator

(DHCP, SIP server, etc)

Terminal A

**Figure 1: NGN Interoperability testing configuration**

**Annex 2**

**for participating companies in IPTV interoperability testing**

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

**Table 2: Questionnaire for IPTV interoperability testing**

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| --- | --- |
| Items | Description |
| Name of equipment |  |
| Interoperability test suites (service testing framework) | |
| IPTV service test specifications | □　ITU-T Rec.H.701 (HSTP.CONF-H.701)  □　ITU-T Rec.H.721 (HSTP.CONF-H.721)  □　ITU-T Rec.H.762 (HSTP.CONF-H.762)  □　ITU-T Rec.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 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 Figure1)

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: 9-10 September 2013

6) Preparation Schedule:

Close of registration: Fri 19 July

Cross check of parameter sheets and confirmation of test sequence: 　Mon 22 July -

7) Test configuration

IPv6

IPTV

network

simulator

(DHCP, SIP server, etc)

IPv6

Terminal B

IPTV head-end

**Figure 2: 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

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