Geneva, 2 July 2014

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| **Telecommunication Standardization Bureau** |  |
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| Ref:  Tel:  Fax:  Email: | **TSB Circular 102**  TSB Workshops/K.M.  +41 22 730 6226 +41 22 730 5853 [tsbworkshops@itu.int](mailto:tsbworkshops@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, Bangkok;  - To the Permanent Mission of Thailand in Geneva |
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| **Subject:** | **Joint APT/ITU Conformance and Interoperability event**  **Bangkok, Thailand, 25 - 26 August 2014** |

Dear Sir/Madam,

1 I would like to inform you that a joint APT/ITU event on Conformance and Interoperability (C&I) will take place from 25 to 26 August 2014 in Bangkok, Thailand. The event will be held at the Imperial Queen’s Park Hotel, Bangkok, Thailand, back-to-back with the following meetings taking place at the same venue: [The ITU Regional Standardization Forum for Asia-Pacific Region (25 August 2014)](http://www.itu.int/en/ITU-T/Workshops-and-Seminars/bsg/082014/Pages/default.aspx) and the 24th APT Standardization Programme Forum (ASTAP-24) (27-29 August 2014).

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

1. Interoperability **testing** (Morning of 25 August 2014)
2. **Showcasing** (14:00 25 August 2014–27 August 2014)
3. **Workshop** (26 August 2014)

3 Since 2010, ITU has been working on a [C&I Programme](http://www.itu.int/en/ITU-T/C-I/Pages/default.aspx) in response to a request from the ITU membership 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 foster understanding of ITU and APT members on C&I issues and promote C&I related activities of ITU and APT in the APT region and contribute to capacity building and solution for interoperability issues of APT member countries. It is also expected that the event would generate feedback to the ITU 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:

* NGN (VoIP, Video conference)
* IPTV (including IPTV-MAFR (Multimedia Application Framework))

The **showcasing** part 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:

* IPTV/internet TV
* NGN E2E service
* M2M/IoT/e-Health
* Speech and Natural Language Processing
* IPv6
* FTTH (GPON and GEPON)

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.

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 and/or APT member states, vendors, operators, regulators and standards development organizations (SDOs). The fee charged by APT for participation in the Testing and/or Showcasing (as exhibitors) event will be US$1,000 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. Visit to the showcasing will be free for the public.

6 **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 25 July 2014**. Individual participants please register online at <http://www.apt.int/content/online-registration>.

Yours faithfully,

Malcolm Johnson  
Director of the Telecommunication  
Standardization Bureau

**Annex: 1**

ANNEX 1  
(to TSB Circular 102)

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| **APT 35th_logo.jpg** | **APT/ITU Conformance and Interoperability Event**  25-26 August 2014, Bangkok, Thailand | | **itu_small_logo** |
| **REGISTRATION FORM**  **For Participating Companies and Exhibitors for the Testing (NGN / IPTV) and Showcasing** | | | |
| **Please fill up completely using CAPITAL LETTERS.** | | **Last Date of Submission:**  **25 July 2014** | |
| **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) | | | |

ATTACHMENT 1 to 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 |  |
| Baseline standard (Requirements to NGN UNI signalling profile and registration procedure) | |
| Interface | □ UNI [ □ Q.3402 □ other (　　　　　)] |
| Procedures of terminal  Registration to NGN | □ Q.3948 Annex C □ other (　　　　　) |
| Interoperability test suites (service testing framework) | |
| 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 |
| Other items | |
| IP version | □ IPv4 □ IPv6 □ IPv4 & IPv6 |
| Signalling protocol | □ SIP(RFC3261) / SDP(RFC4566)  □ Other protocols (　　　　　　　　　　　　　　　　　　　　 　) |
| Remote testing | □ Participating by remote testing [Place: ] |
| 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.3402 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: 25 August 2014

6) Preparation Schedule:

Close of registration Fri 25 July

Cross check of parameter sheets and confirmation of test sequence　　　Mon 28 July -

7) Test configuration

UNI

UNI

SIP

SIP

SIP

RGW

SIP

RGW

NGN

network

simulator

(DHCP, SIP server, etc)

Terminal B

Terminal A

RGW: Residential Gateway

Internet

Remote Terminal C

**Figure 1: NGN Interoperability testing configuration**

8) Remote Testing: See Figure1 Remote Terminal C

1. **Baseline standard**
2. Q.3402 as requirements to NGN UNI signalling profile
3. Q.3948 Annex C as requirements to NGN registration procedure
4. **Interoperability test suites**
5. Q.3948 as a service testing framework for VoIP at the UNI of NGN
6. Q.3949 as a service testing framework for Visual communications at the UNI of NGN

ATTACHMENT 2 to ANNEX 1

**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**

|  |  |
| --- | --- |
| 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/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: 25 August 2014

6) Preparation Schedule:

Close of registration: Fri 25 July

Cross check of parameter sheets and confirmation of test sequence: 　Mon 28 July -

7) Test configuration

IPv6

IPv6

IPTV

network

simulator

(DHCP, SIP server, etc)

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

(\*) Should ITU-T H.721.Rev.1 be consented on 11 July 2014, ITU-T H.721 will become obsolete. H.721.Rev.1 and a corresponding conformance testing specification would then be used for testing.

ATTACHMENT 3 to ANNEX 1

**For Exhibitors of Showcasing**

Please fill 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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