



**APT/ITU Conformance and
Interoperability Event 2015**
7 – 8 September 2015, Bangkok, Thailand




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ITU-T SG 16


C&I ACTIVITIES IN ITU-T SG16

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C&I Activities in ITU-T SG16



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SG16 at a Glance

- ITU-T Study Group 16 – Multimedia coding, systems and applications
- Structure: 3 WPs & 18 Questions → 17 Questions
- Participants: 150-200 / meeting
- Contributions:
- Responsible for more than 440 series of Recs.
- Handling about 200 contributions
(+ 500-1000 for Joint collaborations with MPEG)
- Pioneer in Collaborations, C&I Testing & Showcasing



Responsibility of SG16

- **SG16 Mandate**
Responsible for studies relating to ubiquitous applications, multimedia capabilities for services and applications for existing and future networks, including NGN and beyond
- **Lead SG roles**
 - multimedia coding, systems and applications
 - ubiquitous and Internet of Things applications
 - telecommunication/ICT accessibility for persons with disabilities
 - intelligent transport system (ITS) communications
 - IPTV

The area of responsibility covers many of end user systems



Meetings after ASTAP-25

Meeting	Date	Host/Venue
Q25/16 Rapporteur Group Meeting	21-27 April, 2015	ITU-T / Geneva, Switzerland
Joint Q2, Q3, Q5 & Q21/16 Rapporteur Group Meetings	8-12 June, 2015	China Telecom and University of Electronic Science and Technology of China (UESTC) / Chengdu, China
IPTV-GSI Q13, Q14, Q26 & Q28/16 Rapporteur Group Meetings	15-19 June, 2015	ITU-T / Geneva, Switzerland
JCT-VC & JCT-3V Q6/16 Rapporteur Group Meeting	19-26 June, 2015	Poznan University of Technology / Warsaw, Poland
Q25/16 Rapporteur Group Meeting	14-20 July, 2015	ITU-T / Geneva, Switzerland
5 th IRG-AVA meeting Q26/16 Rapporteur Group Meeting	21 July 2015	ITU-T / Geneva, Switzerland
Q27/16 Rapporteur Group Meeting	30-31 July 2015	China Communications Standards Association (CCSA) / Beijing, China



New Topics - IoT Studies -

- SG16 has been responsible for IoT application studies
- A new Study Group, SG20 “IoT and applications, smart cities” has recently being established merging relevant parts of SG5, SG11, SG13 and SG16.
- Q25/16, “IoT applications and services” is going to join new SG20, “IoT and applications, smart cities”.
- Studies such as ITS (Q27/16) and e-Health (Q28/16) will be continued in SG16 as have been.

It is also the same for ITS studies in SG12 (Q4/12) and SG17 (Q6/17)



Enhancing the value of ITU-T Recs.

- Recommendations can not be valuable unless it is widely used and supported
- Recommendations should be stable and, at the same time, updated to the state of the art technologies reflecting the demands of the market
- It is essential that the Recommendations are reliable
- Users may be puzzled by the coexistence of Standards on the same technology areas by different SDOs and Forums
- Collaboration among SDOs and Forums to avoid the duplication of works is highly desirable



Contribution to C&I Testing

- Conformity and Interoperability to the Standards are essential for multimedia communications
- Reliable Recommendations will ensure the Conformity and Interoperability of the products, and enhance their values
- Ensuring the conformity to the Recommendations through the development and implementation of algorithms are especially important for multimedia coding
- SG16 has been leading the C&I testing activities in ITU-T in collaboration with SG11 and also with APT



Contribution to C&I Testing (2)

- SG16 held IPTV Interoperability Testing event, first ever in ITU-T, 20-23 July 2010 at ITU-T in Geneva
- Since then, SG16 has held 7 Testing events, 2 Application Challenges and 14 Showcasing including those held during this Meeting co-hosted by APT
- Past events includes those held in Singapore, Pune, Rio de Janeiro, Dubai, Bangkok, Sapporo and Tshkent
- SG16 is planning to hold IPTV conformance testing event in Geneva (Oct. 2015) and 3rd Application Challenge during Rio and Paralympic Games (Sep. 2016)



Showcasing

- SG16 believes that Showcasing is also very important to show the users about the performance of new technologies, and ensure that the technologies are already put in market
- Showcasing helps the user to make decisions for introducing new technologies based on ITU-T Recommendations, and the venders to promote their businesses
- Showcasing also provides good opportunities for local vendors to demonstrate their activities and products, and explore new business relations



Collaborative activities

- SG16 has been very positive for working collaboratively with other SDOs.
- The collaborations includes,
 - the development of video coding standards with ISO/IEC JTC-1/SC29/WG11 (H.264 and H.265)
 - also with SC29/WG 1 for Still Picture coding (JPEG, JPEG 2000 and JPEG-XR)
 - taking lead of Collaboration on ITS Communication Standards (CITS)
 - continuously holding high-level coordination meetings with IEC TC 100



Collaborative activities (continued)

- Intersector Rapportur Rapporteur Group Audiovisual Media Accessibility (IRG-AVM) with ITU-R SG6 and ITU-T SG9
- Intersector Rapportur Rapporteur Group Integrated Broadcast-Broadband (IRG-IBB) with ITU-R WP 6B and ITU-T SG9
- Parent SG of IPTV-GSI and JCA-IPTV
- Member of JCA-AHF



Summary

- SG16 has been very active in conducting C&I testing and showcasing in collaboration with SG11 and other SDOs including APT
- Through the testing and showcasing, SG16 has been trying to enhance the value of ITU-T and its Recommendations
- SG16 is planning to continue enhancing the C&I testing events, including the first IPTV Conformance Testing in Geneva (Oct. 2015) and Rio Paralympic Games



Thank you

