

Executive summary of ITU-T SG9 meeting (Geneva, 8-12 September 2014)

A Study Group 9 meeting was held in Geneva during 8-12 September 2014 and was attended by 43 delegates from 15 countries. Along with face-to-face meetings a few sessions were supported by remote participation, as requested by SG9 Management.

1 Consented Recommendations (ITU-T A.8)

The following table shows 'Consented' draft Recommendations.

#	Question	Recommendation	Status	Title	Final TD GEN	A.5 justification
1	1, 7	J.195.2 (J.HiNoC-phy)	New	Physical layer specification for high speed transmission over coaxial networks	TD 488	N/A
2	1, 7	J.195.3 (J.HiNoC-mac)	New	Medium Access Control layer specification for high speed transmission over coaxial networks	TD 489	N/A
3	3	J.1003 (J.rcas-net)	New	Specifications of network protocol for renewable conditional access system	TD 535	N/A
4	4	J.201rev	Rev.	Harmonization of declarative content format for interactive television applications	TD 561	TD 559
5	7	J.900 (J.Cable3DTV-Req)	New	Requirements for Stereoscopic Three Dimensional Television Service over Hybrid Fiber and Coaxial based networks	TD 553	N/A
6	10	J.301 (J.arstv-req)	New	Requirements of Augmented Reality Smart Television System	TD 571 Rev.1	N/A
7	12	J.343 (J.bitvqm)	New	Hybrid perceptual bitstream video quality assessment	TD 527 Rev.3	N/A
8	12	J.343.1 (J.bitvqm1)	New	Hybrid-NRe objective perceptual video quality measurement for HDTV and multimedia IP-based video services in the presence of encrypted bitstream data	TD 541 Rev.2	N/A

9	12	J.343.2 (J.bitvqm2)	New	Hybrid-NR objective perceptual video quality measurement for HDTV and multimedia IP-based video services in the presence of non-encrypted bitstream data	TD 542 Rev.2	N/A
10	12	J.343.3 (J.bitvqm3)	New	Hybrid-RRe objective perceptual video quality measurement for HDTV and multimedia IP-based video services in the presence of a reduced reference signal and encrypted bitstream data	TD 543 Rev.2	N/A
11	12	J.343.4 (J.bitvqm4)	New	Hybrid-RR objective perceptual video quality measurement for HDTV and multimedia IP-based video services in the presence of a reduced reference signal and non-encrypted bitstream data	TD 544 Rev.2	N/A
12	12	J.343.5 (J.bitvqm5)	New	Hybrid-FRe objective perceptual video quality measurement for HDTV and multimedia IP-based video services in the presence of a full reference signal and encrypted bitstream data	TD 545 Rev.2	N/A
13	12	J.343.6 (J.bitvqm6)	New	Hybrid-FR objective perceptual video quality measurement for HDTV and multimedia IP-based video services in the presence of a full reference signal and non-encrypted bitstream data	TD 546 Rev.2	N/A

2 Supplements, Amendments, Corrigenda and Guidelines

2.1 Supplements

No Supplements were proposed for approval at this meeting.

2.2 Amendments

The following table shows agreed amendments to ITU-T Recommendations.

#	Question	Recommendation	Status	Title	Final TD GEN	A.5 justification
1	6	Amendment (J.181)	Amendment	Recommended practice for J.181 digital program insertion cueing message for cable	TD 456 (GEN/9)	N/A

This amendment reproduces an informative appendix to ITU-T J.181.

2.3 Corrigenda

The following table shows 'Consented' draft Corrigenda to ITU-T Recommendations.

#	Question	Recommendation	Status	Title	Final TD GEN	A.5 justification
1	4	Corrigendum (J.205)	Corrigendum.	Requirements for an application control framework using integrated broadcast and broadband digital television	TD 569 (GEN/9)	N/A

3. New Work Items

Question	Work item	status	Title	Editor	Timing	Reference
Q1/9	J.94rev	Revised	Service information for digital broadcasting in cable television systems	Naoyoshi Nakamura Yoshitaka Hakamada	2015	TD 575 (GEN/9)
Q1/9	J.183rev	Revised	Time-division multiplexing of multiple MPEG-2 transport streams over cable television systems	Naoyoshi Nakamura Yoshitaka Hakamada	2015	TD 576 Rev.1 (GEN/9)
Q1 (lead) Q7/9	J.195.1rev	Revised	J.HiNoC-req	Jingfei Cui	2015	TD 554 Rev.1 (GEN/9)
Q2/9	J.vqm-hevc	New	Objective perceptual video quality measurement methods for H.265	Chulhee Lee Margaret Pinson	2016	Annex C TD 432 Rev.1
Q2/9	J.q-uhd	New	Quality measurement methods for UHD services	Chulhee Lee Margaret Pinson	2016	Annex D TD 432 Rev.1
Q3/9	J.rcas-ac	New	Interface specifications between authorization centre (AC) and conditional access module authentication sub-system (CASS)	Han-Seung Koo	2015	TD 537 (GEN/9)
Q3/9	J.rcas-saf.req	New	Requirements for Smart Agricultural Framework over RCAS in CATV network	Han-Seung Koo	2016	TD 538 (GEN/9)
Q12/9	J.op-tr	New	Methods for Optimizing Bitrates and Transmission Resolution by Considering Display Characteristics and Available Bandwidth	Chulhee Lee	2016	TD 532 (GEN/9)
Q12/9	P.911-rev	Revised	Subjective audiovisual quality assessment methods for multimedia applications	Chulhee Lee Margaret Pinson	2015	TD 547 (GEN/9)

Question	Work item	status	Title	Editor	Timing	Reference
Q12/9	P.912-rev		Subjective video quality assessment methods for recognition tasks	Chulhee Lee Margaret Pinson	2015	TD 528 Rev.1 (GEN/9)

4. Questions

A proposal to modify the text of Question 9/9 “*Requirements for advanced service capabilities over broadband cable home networks*” was discussed. SG9 plenary considered the text and agreed to continue discussion electronically using SG9 email reflector (t13sg9all@lists.itu.int). All Members of SG9 are invited to [subscribe](#) to this mailing list and submit comments until 1 February 2015. Taking comments into account, SG9 will submit a liaison statement to TSAG in February 2015 to fulfill the three steps approval process as outlined in WTSR Resolution 1.

The latest version of the modified Terms of Reference is to be found in [TD 526 Rev.1 \(GEN/9\)](#)

5. SG9 Management, Rapporteurs and Associate Rapporteurs

5.1 WP Chairs and Vice-chairs

- Jingfei Cui (SARFT, China) was appointed as WP1 Vice-chairman
- Tae Kyoong Kim [ETRI, Korea (Rep. of)] was appointed as WP2 Vice-chairman

5.2 Rapporteurs and Associate Rapporteurs

- **Q8/9:** Gale Lightfoot (CISCO, USA) is no longer the Rapporteur and Dong Wang (ZTE Corporation, China) is the Acting Rapporteur. Sung-Kwon Park (Ministry of Information and Communication, Korea) is the new Associate Rapporteur.
- **Q9/9:** Shaibal Chakrabarty (CISCO, USA) is no longer the Associate Rapporteur and the position is currently vacant.

The final list of Rapporteurs and Associate Rapporteurs, is to be found in [TD 409 Rev.4 \(GEN/9\)](#).

6. Liaison officers

SG9 has slightly revised the list of liaison officers:

- Dong Wang (ZTE Corporation, China) is SG9 representative to ITU-T JCA-SDN
- Arthur Webster (NTIA, USA) is a new SG9 representative to the Standardization Committee for Vocabulary.
- Thomas Russell (SCTE, USA) is no longer SCTE representative to SG9; this position is currently vacant.

The final list of liaison officers is to be found in [TD 408 Rev.2 \(GEN/9\)](#).

7. A.5 Qualification

SG9 reviewed the TSB preliminary analysis for qualification of CableLabs according to ITU-T A.5 and approved the Qualification for Cablelabs.

8. Intersector Rapporteur Groups (IRG-AVQA; IRG-AVA; IRG-IBB)

WTSA Resolution 18 was revised in WTSA-12 to allow for ITU-R experts to jointly develop work with ITU-T experts in a group officially recognized by both ITU-R and ITU-T.

8.1 IRG-IBB

A new **Intersector Rapporteur Group on Integrated Broadcast-Broadband systems (IRG-IBB)** was established by ITU-T SG9 and ITU-R SG6 in accordance with Annex C of WTSA-12 Resolution 18 and the corresponding provisions in Resolution ITU-R 6 (in line with the Conclusions of the Radiocommunication Advisory Group (RAG) taken at their meeting on 22-24 May 2013, ref. agenda item 5 in <http://www.itu.int/en/ITU-R/conferences/rag/Documents/SUMOFCONCLFINAL.docx>).

The terms of reference of the new IRG-IBB, as approved by ITU-T SG9 and ITU-R SG6 are provided below:

#	Question	Document	Status	Title	Final TD GEN
1	4	Updated terms of reference for IRG-IBB	Revised	Terms of Reference of Intersector Rapporteur Group on Integrated Broadcast-Broadband systems	TD 560 (GEN/9)

8.2 IRG-AVQA

The Intersector Rapporteur Group on Audiovisual Quality Assessment (IRG-AVQA) successfully held their third meeting on 8 September 2014. The group expressed support for this activity as it helps collaboration on topics of mutual interest. IRG-AVQA planned their fourth meeting on 12 November 2014, co-located with ITU-R WP6C meeting. See <https://itu.int/en/irg/avqa> .

8.3 IRG-AVA

The Intersector Rapporteur Group on audiovisual accessibility (IRG-AVA) did not meet during SG9 meeting. The reports from the first and second meetings were presented by Margaret Pinson, SG9 representative. IRG-AVA planned their third meeting in November 2014. See <https://itu.int/en/irg/ava> .

9. WTSA-12 Resolution 80 (Dubai, 2012)

TSAG requested SG9 to implement, on a trial basis, their findings on WTSA-12 Resolution 80 “*Acknowledging active involvement of the Membership in the development of ITU-T deliverables*”. To follow up on this request SG9 developed and agreed on the following guidelines:

#	Question	Document	Status	Title	Final TD GEN
1	13	SG9 Guidelines	New	Implementation details of WTSA-12 Resolution 80 pilot in SG9	TD 583 (GEN/9)

10. Outgoing Liaison Statements

The following table shows the list of the 27 agreed outgoing liaison statements.

#	Reference	Questions	WP	To	For	Title
1	TD 550 Rev.2 (GEN/9)	Q1/9	1	SG5, SG15, ITU-R Working Parties 1A, 1C, 3L, 4C, 5A, 5B, 5C, 5D, 6A and 7D	Information	LS/o/r on leakage of radio frequency energy from J.HiNoC systems and coexistence of wired telecommunications with radiocommunication systems – Considerations with respect to work on Recommendation ITU-T J.195.1 (J.HINOC-REQ) (reply to ITU-R WP 5B - 5B/TEMP/295 & ITU-R WP 1A - LS 19) [[to ITU-R Working Parties 1A and 5B]
2	TD 573 Rev.1 (GEN/9)	Q1/9	1	ITU-R WP4B, SG6, ETSI TC Cable, SCTE, JCTEA, J Labs	Information	LS/o on a new study for high speed transmission scheme by channel bonding technology for UHDTV distribution on cable TV networks [to ITU-R Working Parties 4B, SG6 and ETSI]
3	TD 574 (GEN/9)	Q1/9	1	ITU-R WP6C	Information	LS/o/r on comment on draft new Recommendation ITU-T J.604 (ex J.svc) [to ITU-R WP6C]
4	TD 523 Rev.2 (GEN/9)	Q2/9	1	VQEG	Comment	LS/o on UHD Service Quality Issues and Measurement Tools [to VQEG]
5	TD 529 Rev.1 (GEN/9)	Q2/9	1	VQEG ITU-T SG12, ITU-T SG16, ITU-R WP6C	Comment Information	LS/o on HEVC Objective Video Quality Metrics [to ITU-T SGs 12 &16, ITU-R WP6C and VQEG]
6	TD 539 Rev.1 (GEN/9)	Q3/9	1	ITU-T SG17, ETSI ISG ECI, ARIB/(rights management and access control working group)	Information	LS/o on AAP Consent of draft new Recommendation ITU-T J.1003 (ex J.rcas-net) “Specifications of network protocol for renewable conditional access system” [to ITU-T SG17, ETSI ISG ECI, ARIB]
7	TD 564 (GEN/9)	Q4/9	2	ITU-R SG6	Information	LS/o/r on support of updated Terms of Reference of IRG-IBB (reply to ITU-R SG 6 - Document 6/242) [to ITU-R SG6]
8	TD 565 Rev.1 (GEN/9)	Q4/9	2	ITU-T SCV, ITU-R CCV	Information	LS/o/r on broadcasting terms and definitions being considered by CCV (reply to SCV LS5) [to ITU-T SCV]
9	TD 566 (GEN/9)	Q4/9	2	ITU-T Question 13/16	Information	LS/o on recent activities on Integrated Broadcast-Broadband Recommendations in Study Group 9 [to ITU-T SG16]
10	TD 567 (GEN/9)	Q4/9	2	ITU-R Working Party 6B	Information	LS/o on recent activities on Recommendations related to Integrated Broadcast-Broadband [to ITU-R WP6B]
11	TD 568 (GEN/9)	Q4/9	2	ITU-R Working Party 6B	Information	LS/o/r on revision of Recommendation J.205 for update of definitions (reply to ITU-R WP 6B - Document 6B/TEMP/111) [to ITU-R WP6B]
12	TD 540 (GEN/9)	Q9/9, Q5/9		ITU-T SG15	Information	LS/o/r on Overview and Work Plan on Smart Grids - request for feedback (reply to SG15 LS146) [to ITU-T SG15]

#	Reference	Questions	WP	To	For	Title
13	TD 548 (GEN/9)	Q9/9, Q5/9		ITU-T SG15	Information	LS/o/r on version 1 of the Home Network Transport (HNT) standardization overview and work plan (reply to SG15 LS123) [to ITU-T SG15]
14	TD 549 (GEN/9)	Q9/9, Q5/9		ITU-T SG15	Information	LS/o/r on new versions of the Access Network Transport (ANT) standardization overview and work plan (reply to SG15 LS122) [to ITU-T SG15]
15	TD 551 Rev.1 (GEN/9)	Q1/9 Q7/9		ITU-T SG15, IEEE SA, ETSI TC-Cable, TTC, IEC TC100, SCTE, RRA, ATIS, JCTEA, J Labs, CCSA, Broadband Forum, HomeGrid Forum, HGI, Metro-Ethernet Forum, DVB-TM	Information	LS/o on AAP Consent of draft new Recommendation ITU-T J.195.2 and J.195.3
16	TD 552 Rev.1 (GEN/9)	Q1/9 Q7/9		ITU-R WP6A, ISO/IEC JTC1/SC29/WG11(MPEG), SCTE, ETSI TC-CABLE, RRA, TTC	Information	LS/o on AAP Consent of draft new Recommendation ITU-T J.Cable3DTV-req “Requirements for Stereoscopic Three Dimensional Television Service over Hybrid Fiber and Coaxial based network”
17	TD 556 Rev.1 (GEN/9)	Q7/9	2	ITU-T Q2/13	Action	LS/o/r on draft new Recommendation ITU-T Y.ICN-Reqts “Requirements and capabilities for Information Control Networks and related applications” (reply to SG13 LS60) [to ITU-T SG13]
18	TD 570 (GEN/9)	Q10/9	2	ITU-R Working Party 6C, ISO/IEC JTC 1/SC 29/WG 11	Information	LS/o on AAP consent of new Recommendation J.arstv-req (“Requirements of Augmented Reality Smart Television System”) [to ITU-R Working Party 6C , ISO/IEC JTC 1/SC 29/WG 11]
19	TD 530 (GEN/9)	Q2/9, Q12/9	1	VQEG	Action	LS/o on 3D Recommendations [to VQEG]
20	TD 533 Rev.1 (GEN/9)	Q12/9	1	ITU-T SG12, ITU-T SG16, ITU-R WP6C, VQEG	Information	LS/o on consent of J.bitvqm [to ITU-T SG12, SG16, ITU-R WP6C and VQEG]
21	TD 534 Rev.2 (GEN/9)	Q12/9	1	ITU-T SG12, ITU-T SG16, ITU-R WP6C, VQEG	Information	LS/o on SG9 quality related activities [to ITU-T SG12, SG16, ITU-R WP6C and VQEG]
22	TD 577 (GEN/9)	Q13/9	N/A	SG11, JCA-CIT	Information	LS/o/r on request to all SGs to follow up on the Council 2013 C&I Action Items for implementation by ITU-T SGs
23	TD 578 (GEN/9)	Q13/9	N/A	WP2/5 ITU-R WPs 1A, 5B and 6A	Action Information	LS/o/r on Recommendation ITU-T K.60 - Coexistence of wired and wireless communication systems

#	Reference	Questions	WP	To	For	Title
24	TD 579 (GEN/9)	Q13/9	N/A	WP2/5, ITU-R WPs 1A, 4C, 5A, 5B, 5C, and 6A	Information	LS/o/r on Current status on draft Recommendation ITU-T K.mhn and issues related to coexistence of wired telecommunications and radio communication
25	TD 580 (GEN/9)	Q13/9	N/A	ETSI TC Cable	Information	LS/o/r on Consent of J.382 and Current Work of TC Cable
26	TD 581 (GEN/9)	Q13/9	N/A	JCA-SDN	Information	LS/o/r on SDN standardization activity map
27	TD 582 (GEN/9)	Q13/9	N/A	SG2	Information	LS/o/r on Telecommunication Management and OAM Project Plan

11. Work plan for interim Rapporteur meetings and Working parties meetings

No interim Working Parties meetings will be held before next SG9 meeting.

The following interim Rapporteurs' groups meetings were agreed by SG9 meeting (Geneva, 8-12 September 2014).

Question/WP	Date	Place / Host	Host contact	Terms of reference	Rapporteur/Acting
1/9	x-y February 2015	TBD	TBD	Development of J.94rev and J.183rev if SG9 meeting is not held in Feb. 2015.	sh-sakazawa@kddi.com
Joint Q1/9 and Q7/9	February 2015	TBD	TBD	Discussion of new work item if SG9 meeting is not held in Feb. 2015	sh-sakazawa@kddi.com tkkim@etri.re.kr
2/9	x-y January 2015 (TBD)	USA	TBD		chulhee@yonsei.ac.kr
Joint 2/9 and 12/9	x-y January 2015	USA/VQEG	TBD	Progress on P.3D-sam, P.3D-disp-req, J.3D-fatigue, J.src-vq, J.op-tr, J.vqm-hevc, J.q-uhd, P.av-ims.	chulhee@yonsei.ac.kr mpinson@its.blrdoc.gov
2/9	x-y March 2015 (TBD)	E-meeting	TBD		chulhee@yonsei.ac.kr
Joint 2/9 and 12/9	x-y March 2015	e-meeting	TBD	Progress on P.3D-sam, P.3D-disp-req, J.3D-fatigue, J.src-vq, J.op-tr, J.vqm-hevc, J.q-uhd, P.av-ims.	chulhee@yonsei.ac.kr mpinson@its.blrdoc.gov
3/9	x-y December 2014 or January 2015 [TBC]	Geneva [TBC]	TBD	Progress on J.drm-req, J.rcas-ac, and J.rcas-saf.req	koohs@etri.re.kr

Question/WP	Date	Place / Host	Host contact	Terms of reference	Rapporteur/Acting
4/9	x-y January 2015 (TBD)	E-Meeting (TBD)	TBD	Progress on J.acf-spec, J.cab-mob-req, and J.hadi	takechi.m-fa@nhk.or.jp
4/9	x-y April 2015 (TBD)	E-Meeting (TBD)	TBD	Progress on J.acf-spec, J.cab-mob-req, and J.hadi	takechi.m-fa@nhk.or.jp
5/9	1 st week of December, 2014 or 2 nd week of January, 2015 (TBD)	Geneva TBD	TBD	Drafting J.rg-spec	matsumoto@jilabs.or.jp
Joint Q5/9, Q8/9 and 9/9	1 st week of December, 2014 or 2 nd week of January, 2015(TBD)	Geneva, SG9	TBD	Progress on J.rg-spec, J.iptvappclient and J.lasdp-req Discussion on common topic , such as IoT/M2M, Cloud, etc	matsumoto@jilabs.or.jp Wang.dong@zte.com.cn zhangjs@chinabtn.com
Joint Q5/9, Q8/9	1 st week of December, 2014 or 2 nd week of January, 2015(TBD)	Geneva, SG9	TBD	To discuss the possible new work item on optical network based cable TV services Discuss any other new work item	sp2996@hanyang.ac.kr matsumoto@jilabs.or.jp
Joint Q8/9	1 st week of December, 2014 or 2 nd week of January, 2015(TBD)	Geneva, SG9	TBD	To discuss new work items	sp2996@hanyang.ac.kr
9/9	1 st week of December, 2014 or 2 nd week of January, 2015(TBD)	E-Meeting	TBD	Progress on J.lasdp-req	zhangjs@chinabtn.com
10/9	TBD December 2014	TBD	TBD	Progress on J.arstv-spec	tk-takahashi@kddi.com
13/9	TBD February 2014	Geneva	TBD	To handle any incoming liaison statement, plus any issue for coordination	sa-miyaji@kddi.com

12. Next Study Group 9 meeting

Next SG9 meeting is currently scheduled in Geneva, 09-13 February 2015, however SG9 Chairman informed the meeting that SG9 could postpone its meeting to June 2015, pending a confirmation to be invited out of Geneva. SG9 Management will reassess the situation and make a final decision in the middle of November 2014 and inform SG9 delegates via email reflector on any news in this regard.
