

## Executive summary of ITU-T SG9 meeting (Geneva, 21-28 January 2016)

A Study Group 9 meeting was held in Geneva during 21-28 January 2016 and was attended by 44 delegates from 17 countries. Along with face-to-face meetings a few sessions were supported by remote participation, as requested by SG9 Management.

### 1. List of Consented/Determined Recommendations and other deliverables for approval

SG9 meeting in January 2016 achieved the following results: 12 draft Recommendations and one draft Amendment were consented (AAP), two draft Recommendations were determined (TAP) and one revised guideline was approved. Details are to be found below.

#### 1.1 List of twelve Consented Recommendations using AAP (ITU-T A.8)

No	TD	A5	Rec.	Question	Status	Subject	Editor
1	<a href="#">TD 858</a> (C146)	N/A	J.183 (ex J.183-rev)	1	Revision	Time-division multiplexing of multiple MPEG-2 transport streams and generic formats of transport streams over cable television systems	Yoshitaka, Hakamada, Takuya Kurakake
2	<a href="#">TD 859r1</a> (C147)	N/A	J.288 (ex J.tlv-pack)	1	New	Encapsulation of type-length-value (TLV) packet for cable transmission systems	Yoshitaka Hakamada, Takuya Kurakake
3	<a href="#">TD 878</a> (C139)	N/A	J.196.1 (ex J.HiNoCv2-req)	1	New	Functional Requirements for Second-generation HiNoC	Jingfei Cui, Feng Ouyang, Cui Zhao
4	<a href="#">TD 877</a> (TD 554 R1)	N/A	J.195.1 (ex J.195.1-rev)	1	Revision	Functional Requirements for high speed transmission over coaxial network connected with Fiber To The Building"	Jingfei Cui
5	<a href="#">TD 868r2</a> (TD 821)	N/A	P.914 (ex P.3D-disp-req)	2	New	Display requirements for 3D video quality assessment	Quan Huynh-Thu, Margaret Pinson
6	<a href="#">TD 876r1</a> (TD 693 R1, Annex C-TD 702 R1)	N/A	J.341 (ex J.341-rev)	2	Revision	Objective perceptual multimedia video quality measurement of HDTV for digital cable television in the presence of a full reference	Silvio Borer, Margaret Pinson

No	TD	A5	Rec.	Question	Status	Subject	Editor
7	<a href="#">TD 856</a> (TD 562)	N/A	J.207 (ex J.acf-spec)	4	New	Specification for Integrated Broadcast and Broadband DTV application control framework	Aguinaldo-Boquimpani, Hernan Perrone, Masaru Takechi
8	<a href="#">TD 879r1</a> (TD 795)	N/A	J.223.1 (ex J.C-DOCSIS-req)	7	New	Functional Requirements for Cabinet DOCSIS (C-DOCSIS)	Yanlong Qin, Zhifan Sheng, Peijiang Zhu
9	<a href="#">TD 865r1</a> (C136)	N/A	P.912 (P.912-rev )	12	Revision	Subjective video quality assessment methods for recognition tasks	Chulhee Lee, Margaret Pinson
10	<a href="#">TD 863r1</a> (C132, C133, C134 and C135)	N/A	P.913 (ex P.913-rev)	12	Revision	Methods for the subjective assessment of video quality, audio quality and audiovisual quality of Internet video and distribution quality television in any environment	Margaret Pinson, Philip J Corriveau
11	<a href="#">TD 867r3</a> (TD 823)	N/A	P.915 (ex P.3D-sam)	12	New	Subjective assessment methods for 3D video quality	Chulhee Lee, Margaret Pinson
12	<a href="#">TD 866r3</a> (TD822)	N/A	P.916 (ex P.3D-fatigue)	12	New	Assessment methods of visual fatigue and safety guideline for 3D video	Chulhee Lee, Margaret Pinson

### 1.2 List of two Determined Recommendations using TAP (WTSA Resolution 1, section 9)

No	Docs	A5	Rec.	Question	Status	Subject	Editor
1	<a href="#">TD 886</a> (C125)	<a href="#">TD 873</a>	J.1010 (ex J.dmcd-req )	3	New	Embedded Common Interface (ECI) for exchangeable CA/DRM solutions; Use cases and requirements	Han-Seung Koo Peter Mann
2	<a href="#">TD 887</a> (C126)	<a href="#">TD 874</a>	J.1011 (ex J.dmcd-arc )	3	New	Embedded Common Interface (ECI) for exchangeable CA/DRM solutions; Architecture, Definitions and Overview	Han-Seung Koo Peter Mann

## 2. Supplements, Amendments, Corrigenda and Guidelines

## 2.1 Supplements

No Supplement was proposed for approval at this meeting.

## 2.2 Amendments

One Amendment was consented (AAP) at this meeting:

No	TD	A5	Rec.	Question	Status	Subject	Editor
1	<a href="#">TD 860</a> (C145)	N/A	J.94 AMD 3	1	AMD	Service information for digital broadcasting in cable television systems	Yoshitaka Hakamada, Takuya Kurakake

## 2.3 Corrigenda

No Corrigenda was proposed for approval at this meeting.

## 2.4 Guidelines

SG9 agreed to revise the following Guidelines:

TD	Status	Title	Contact
<a href="#">TD 899</a> (GEN/9)	Revised	SG9 guidelines - Implementation details of WTSA-12 Resolution 80 pilot in SG9	Satoshi Miyaji

## 3. New and deleted work items

### 3.1 SG9 agreed to start the following new work items:

Question	Work item	status	Title	Editor	Timing	Reference
4/9	J.230rev	revision	Requirements for platform functionalities on the integration of cable STB and mobile second screen devices	Tomohiko Takahashi Masaru Takechi	2016-08	ANNEX C of TD 844 Rev.1
5/9	J.4kstb	revision	Requirements and functional specifications of cable set top box for 4K ultra high definition television	Kenji Obata	2016-09	TD 889 (GEN/9)

7/9	J.vodoc-cont	new	Control specification for IP-based switched digital video using DOCSIS	TaeKyoon Kim	2016-09	ANNEX C of TD 847 Rev.1
8/9	J.qamip-req	new	Requirements on QAM to IP Conversion for IP Multi-Room/House Services	Sungkwon Park	2017-Q4	ANNEX C of TD 848 Rev.1

### 3.2 SG9 agreed to stop working on the following work items at this meeting:

Question	Work item	status	Title	Editor	Timing	Reference
5/9	J.rg-spec	new	Specification for Residential Gateway		2014-09	

### 4. Revised SG9 Questions texts in view of WTSA-16

A special session to discuss SG9 future in view of WTSA-16 was held on Monday 25 January 2016. The group reviewed the current SG9 mandate and all the Questions texts. The special session decided to keep the same number of Questions for the new Study Period. Regarding merging Q1/9 and Q11/9 it was decided to keep the Questions separated especially for the recent interest of developing countries on Q11/9 activities which include the support of cable television network deployment in developing nations. The result of the discussion, which include compilation of the SG9 mandate and Questions texts is found in [TD 900 \(GEN/9\)](#). SG9 also agreed to send the current status of discussion via liaison statement to TSAG and RevCom.

The group also reviewed [TD 660](#) from the Beijing meeting (June 2015) titled “*SG9 view on advantages and disadvantages of merging SG9 and SG16.*” The group confirmed that the merger of SG9 and SG16 should be avoided. There was no additional comments or opinions to TD 660, the group agreed to include some statements extracted from TD 660 in the liaison statement to TSAG and RevCom.

The draft liaison statement to TSAG and RevCom is found in [TD 838rev2](#).

### 5. SG9 Management, Rapporteurs and Associate Rapporteurs

No changes at this meeting. A delegate from Senegal expressed interest in the Rapporteurship of Q11/9. It will be considered at September 2016 meeting of SG9.

### 6. Liaison officers

SG9 has slightly revised the list of liaison officers:

Margaret Pinson (USA) is not able to continue to be a liaison officer to various groups. The following delegates were appointed to replace Margaret:

- Dong WANG (ZTE Corporation, China) is SG9 representative to IRG-AVA
- Chulhee Lee (MSIFP, Korea) is SG9 representative to ITU-T SG 12
- Dong WANG (ZTE Corporation, China) is SG9 representative to JCA-AHF

The final list of liaison officers is to be found in [TD 769Rev.2 \(GEN/9\)](#).

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

During the SG9 meeting only the IRG-IBB held a meeting, which was chaired by Masaru Takechi.

The IRG-AVQA and the IRG-AVA did not organize a meeting this time. For more information see relevant webpages at:

- IRG-IBB – <https://itu.int/en/irg/ibb>
- IRG-AVQA – <https://itu.int/en/irg/avqa>
- IRG-AVA – <https://itu.int/en/irg/ava>

### 8. WTSA-12 Resolution 80

SG9 had a special session for the pilot implementation of WTSA-12 Resolution 80 “*Acknowledging active involvement of the Membership in the development of ITU-T deliverables*” on Friday 22 January 2016. The purpose of this session was to discuss the method to make ITU-T deliverables recognized by academic databases such as Google Scholar, Web of Science, etc. TSB presented [TD 816r1](#) on their findings concerning this matter.

After discussion SG9 updated its guidelines – “Implementation details of WTSA-12 Resolution 80 pilot in SG9”, which can be found in [TD 899](#). The group also agreed to send a liaison statement to TSAG to provide the updated SG9 guidelines. The draft liaison statement is contained in [TD 898](#).

### 9. Outgoing Liaison Statements

The following table shows the list of the 19 agreed outgoing liaison statements:

#	Document	Questions	WP	To	For	Title
1	<a href="#">TD 880 r1 (GEN/9)</a>	1, 7/9	1, 2	ITU-T SG15, IEEE 802.3 Working Group, ETSI TC-Cable, CableLabs, RRA, SCTE	Information	LS/o on AAP Consent of draft new Recommendations [to ITU-T SG15, IEEE 802.3 Working Group, ETSI TC-Cable, CableLabs, RRA, SCTE]

2	<a href="#">TD 881 r1 (GEN/9)</a>	1, 7/9	1, 2	ITU-R WP5B	Information	LS/o/r evaluating the leakage and impact of radio frequency noise from telecommunication systems using metallic conductors (reply to SG5-LS101; SG5-LS102; SG15-LS188) [to ITU-R WP5B]
3	<a href="#">TD 861 r1 (GEN/9)</a>	1/9	1	ITU-R WP6B, ITU-R WP4B, JCTEA, ARIB, ETSI TC-Cable, SCTE	Information	LS/o on AAP consent of draft new Recommendations ITU-T J.288 (ex. J.tlv-pack), draft revised Recommendation J.183 and draft amendment of Recommendation J.94 [to ITU-R WP6B, ITU-R WP4B, JCTEA, ARIB, ETSI TC-Cable, SCTE]
4	<a href="#">TD 869r1 (GEN/9)</a>	2, 12/9	1	ITU-T SG12, ITU-T SG16, ITU-R WP6C, VQEG	Information	LS/o on SG9 quality related activities [to ITU-T SG12, ITU-T SG16, ITU-R WP6C, VQEG]
5	<a href="#">TD 870r1 (GEN/9)</a>	2, 12/9	1	ITU-R WP6C	Information	LS/o/r on reply Liaison statement to ITU-R WP6C on Report ITU-R BT.2293-1 [to ITU-R WP6C]
6	<a href="#">TD 884 (GEN/9)</a>	3/9	1	ITU-T SG17, ISO/IEC JTC1 SC29 ETSI ISG ECI	Information Comment	LS/o on Revised draft new Recommendation J.ipvdrm "Specification of IP-VOD DRM for cable television multiscreen system in Multi-DRM environment" [to ITU-T SG17, ISO/IEC JTC1 SC29 and ETSI ISG ECI]
7	<a href="#">TD 839 (GEN/9)</a>	4/9	2	ITU-R WP6B	Information	LS/o/r on Reply liaison to ITU-R Working Party 6B on the development of texts related to Integrated Broadcast-Broadband systems (reply to ITU-R WP 6B - 6B/TEMP/202 -E, TD 778(GEN/9)) [to ITU-R WP6B]
8	<a href="#">TD 840 r1 (GEN/9)</a>	4/9	2	ITU-R WP6B, ITU-T SG16, IRG-IBB	Information	LS/o on consent of new Recommendation on Integrated Broadcast-Broadband systems [to ITU-R WP6B, ITU-R SG16, IRG-IBB]
9	<a href="#">TD 888 (GEN/9)</a>	4/9	2	ITU-R WP6 B, ITU-T SG16	Information	LS/o/r Reply liaison to ITU-R Working Party 6B on the development of texts related to Integrated Broadcast-Broadband systems (reply to 6B/TEMP/202 (TD 778(GEN/9)) [to ITU-R WP6 B and ITU-T SG16]
10	<a href="#">TD 872 r1 (GEN/9)</a>	5, 9/9	2	ITU-T SG15	Information	LS/o/r on the latest version of the Home Network Transport (HNT) Standards Overview and Work Plan (reply to SG15 LS 280 (TD 774(GEN/9)) [to ITU-T SG15]
11	<a href="#">TD 890 r1 (GEN/9)</a>	5/9	2	ITU-T SG16	Comment	LS/o on the progress of draft new Recommendation ITU-T J.4ksth [to ITU-T SG16]
12	<a href="#">TD 893 r1 (GEN/9)</a>	7/9	2	SCTE, ETSI TC-Cable, RRA	Comment	LS/o on new work item for J.vodoc-cont "Control specification for IP-based digital video service using DOCSIS" [to SCTE, ETSI TC-Cable, RRA]

13	<a href="#">TD 882 r2 (GEN/9)</a>	8/9	2	ETSI TC CABLE, DVB, IETF, SCTE	Information	LS/o on new work item for J.qamip-req “Requirements on QAM to IP Conversion for IP Multi-Room/House Services”[to ETSI TC CABLE, DVB, IETF, SCTE]
14	<a href="#">TD 838 r2 (GEN/9)</a>	13/9	PLEN	TSAG, RevCom	Information	LS/o on Liaison to TSAG and RevCom on SG9 restructuring in view of WTSA-1 [to TSAG, RevCom]
15	<a href="#">TD 894 (GEN/9)</a>	13/9	PLEN	ITU-T SG15	Information	LS/o/r on the latest versions of the Access Network Transport (ANT) Standards Overview and Work Plan (reply to COM 15 - LS 279 (TD 733(GEN/9)) [to ITU-T SG15]
16	<a href="#">TD 895 (GEN/9)</a>	13/9	PLEN	ITU-T SG5, ITU-R WP4C	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 (reply to ITU-R WP 4C - Document 4C/435, TD 775(GEN/9)) [to ITU-T SG5, ITU-R WP4C]
17	<a href="#">TD 896 (GEN/9)</a>	13/9	PLEN	ITU-T SG5	Information	LS/o/r on green ICT standards landscape questionnaire (reply to COM 5- LS 139, TD 804(GEN/9)) [to ITU-T SG5]
18	<a href="#">TD 897 (GEN/9)</a>	13/9	PLEN	ITU-T SG11	Information	LS/o/r on first meeting of ITU-T CASC and request to update the living list of key technologies, reference table of ITU-T Recommendations which are suitable for C&I and relevant pilot projects (reply to COM 11 – LS 102, TD 807(GEN/9)) [to ITU-T SG11]
19	<a href="#">TD 898 (GEN/9)</a>	13/9	PLEN	TSAG	Action	LS/o on SG9 guidelines – Implementation details of WTSA-12 Resolution 80 pilot in SG9 [to TSAG]

## 10. Work plan for interim Rapporteur meetings and Working parties meetings

### 10.1 Working Parties meetings

No interim Working Parties meetings will be held before next SG9 meeting [29 August – 2 September 2016].

### 10.2 Interim Rapporteurs’ groups meetings

The following interim Rapporteurs’ groups meetings are agreed by SG9 meeting:

Question/WP	Date	Place / Host	Host Contact	Terms of reference	Rapporteur/Acting
<b>Joint 1/9 &amp; 7/9</b> (jointly with other Questions)	22-27 April 2016	Geneva/ITU	<a href="mailto:tsbsg9@itu.int">tsbsg9@itu.int</a>	Progress on J.C-DOCSIS-spec, etc.	<a href="mailto:tkkim@etri.re.kr">tkkim@etri.re.kr</a> <a href="mailto:sakazawa@kddilabs.jp">sakazawa@kddilabs.jp</a>
<b>Joint 1/9 and 7/9</b> (jointly with other Questions)	16-21 June 2016	Geneva/ITU	<a href="mailto:tsbsg9@itu.int">tsbsg9@itu.int</a>	Progress on J.C-DOCSIS-spec, etc..	<a href="mailto:tkkim@etri.re.kr">tkkim@etri.re.kr</a> <a href="mailto:sakazawa@kddilabs.jp">sakazawa@kddilabs.jp</a>
<b>Joint 2/9 and 12/9</b>	29 Feb – 4 March 2016	San Diego, USA (co-located with VQEG)	<a href="mailto:chulhee@yonsei.ac.kr">chulhee@yonsei.ac.kr</a>	Progress on J.vqm-hevc, J.q-uhd, J.op_tr and J.343-rev	<a href="mailto:chulhee@yonsei.ac.kr">chulhee@yonsei.ac.kr</a> <a href="mailto:mpinson@its.bldrdoc.gov">mpinson@its.bldrdoc.gov</a> <a href="mailto:quan.huynh-thu@cisra.canon.com.au">quan.huynh-thu@cisra.canon.com.au</a>
<b>Joint 2/9 and 12/9</b>	[TBD] July 2016	E-meeting(s) / meeting (TBD)	<a href="mailto:chulhee@yonsei.ac.kr">chulhee@yonsei.ac.kr</a> <a href="mailto:mpinson@its.bldrdoc.gov">mpinson@its.bldrdoc.gov</a>	Progress on J.vqm-hevc, J.q-uhd, J.op_tr and J.343-rev	<a href="mailto:chulhee@yonsei.ac.kr">chulhee@yonsei.ac.kr</a> <a href="mailto:mpinson@its.bldrdoc.gov">mpinson@its.bldrdoc.gov</a> <a href="mailto:quan.huynh-thu@cisra.canon.com.au">quan.huynh-thu@cisra.canon.com.au</a>
<b>3/9</b>	22-27 April 2016	Geneva	<a href="mailto:tsbsg9@itu.int">tsbsg9@itu.int</a>	Progress on J.ipvdrm and discuss new work item	<a href="mailto:koohs@etri.re.kr">koohs@etri.re.kr</a>
<b>3/9</b>	16-21 June 2016	Geneva	<a href="mailto:tsbsg9@itu.int">tsbsg9@itu.int</a>	Progress on J.ipvdrm and discuss new work item	<a href="mailto:koohs@etri.re.kr">koohs@etri.re.kr</a>
<b>4/9</b>	[TBD] April 2016	e-meeting	<a href="mailto:takechi.m-fa@nhk.or.jp">takechi.m-fa@nhk.or.jp</a>	Progress on J.acf-hrm, J.230rev etc.	<a href="mailto:takechi.m-fa@nhk.or.jp">takechi.m-fa@nhk.or.jp</a>
<b>5/9</b>	17-19 May 2016	*E-Meeting, Start 9:30 (GVA Time)	<a href="mailto:Wang.dong@zte.com.cn">Wang.dong@zte.com.cn</a>	Progress on J.4ksth	<a href="mailto:Wang.dong@zte.com.cn">Wang.dong@zte.com.cn</a>
<b>7/9</b>	22-27 April 2016	Geneva/ITU	<a href="mailto:tsbsg9@itu.int">tsbsg9@itu.int</a>	Progress on J.vodoc-cont, J.chswt-req, J.C-DOCSIS-spec etc.	<a href="mailto:tkkim@etri.re.kr">tkkim@etri.re.kr</a>
<b>7/9</b>	16-21 June 2016	Geneva/ITU	<a href="mailto:tsbsg9@itu.int">tsbsg9@itu.int</a>	Progress on J.vodoc-cont, J.chswt-req, J.C-DOCSIS-spec etc.	<a href="mailto:tkkim@etri.re.kr">tkkim@etri.re.kr</a>
<b>9/9</b>	1-3 June 2016	E-meeting	<a href="mailto:zhangjs@chinabtn.com">zhangjs@chinabtn.com</a>	Progress on J.lasdp-req	<a href="mailto:zhangjs@chinabtn.com">zhangjs@chinabtn.com</a>
<b>10/9</b>	17 June and 20 June 2016	E-meeting	<a href="mailto:tk-takahashi@kddi.com">tk-takahashi@kddi.com</a>	Progress on J.arstv-spec Discussion for new work item	<a href="mailto:tk-takahashi@kddi.com">tk-takahashi@kddi.com</a>

## 11. Next Study Group 9 meeting

Next SG9 meeting is currently scheduled in Geneva, 29 August – 2 September 2016.