



## INTERNATIONAL ELECTROTECHNICAL COMMISSION

### TECHNICAL COMMITTEE No. 100: Audio, video and multimedia systems and equipment

Report of the meeting held in **San Diego, California, USA** on **29th September 2017** (starting time: **9:00h**, ending time: **17:30h**)

#### Participants

NC/ organisation	Last name	First name	Role <sup>1</sup>	Participation <sup>2</sup>
US	Felland	David	TC 100 Chair	Yes
JP	Yoshio	Junichi	TC 100 Secretary, TA 11 TAM, TA 17 TAM	Yes
JP	Sakuma	Masatake	TC 100 Assistant Secretary, TA 1 TS	Yes
JP	Terasaki	Satoshi	TC 100 Assistant Secretary	Yes
IEC CO	Cocimarov	Matei	Technical Officer	Yes
UK	Woodgate	John	GMM	Apologised
FI	Talmola	Pekka	TA 1 TAM	Yes
JP	Sugiura	Hiroaki	TA 2 TAM	Yes
US	Holm	Jack	TA 2 TS	Yes
JP	Okuda	Noritaka	TA 2 ATS	Yes
KR	Lee	Jan Young	TA 4 TAM	Yes
KR	Choi	Kwan-Soon	TA 4 TS	Yes
JP	Matsumoto	Takumi	TA 5 TAM	Yes
JP	Tamura	Hiroo	TA 5 TS	Yes
JP	Ohtaka	Hideki	TA 6 TAM	Yes
JP	Tsukada	Koji	TA 6 TS	Apologised
JP	Sakakihara	Hironori	TA 8 TAM, TA 14 TS	Yes
JP	Naka	Katsuyoshi	TA 8 TS	Apologised

<sup>1</sup> For example: Chair, Secretary, Technical Officer, Head of delegation, Delegate, Guest, Observer

<sup>2</sup> For example: In person, Remote, Apologised, Part of the time

JP	Uemura	Yashio	TA 10 TAM	Yes
JP	Narui	Yoshihisa	TA 10 TS	Yes
UK	Yonge	Mark	TA 11 TS	Apologised
US	Sadowy	Donna	TA 13 TAM	Yes
JP	Eguchi	Shin	TA 14 TAM	Yes
US	Wei	Grace	TA 14 Vice TAM, HoD	Yes
KR	Lim	Seung-Ok	TA 15 TS	Yes
KR	Nam	Ock-Woo	TA 15 TS, TA 17 TS	Yes
UK	Grant	Kate	TA 16 TAM	Yes
DE	Haltrich	Ulrike	TA 16 TS, HoD	Apologised
JP	Gen	Ichimura	Audio TS	Yes
Liaisons				
ITU-T/SG 5, IEC/TC 108, KR	Han	Munhwan	Int., HoD	Yes
AES	Olson	Bruce	Category D	Yes
AES	Cabot	Richard	Category D	Yes
US/USB-IF	Ravencraft	Jeff	Category D	Yes
US/ATSC	Dolan	Michael	Dependency, HoD	Yes
US/CTA	Lancaster	Veronica	Dependency	Yes
US/CTA	Levine	Mark	Dependency	Yes
JP/JEITA	Ishii	Hiroyuki	Dependency	Yes
Delegates				
CN	Cao	Kai	Delegate	Yes
CN	Lu	Nannam	Delegate	Yes
CN	Sun	Qiffeng	Delegate	Yes
CN	Peng	Jieying	Delegate	Yes
CN	Pu	Lingfeng	Delegate	Yes
CN	Wang	Huiming	Delegate	Yes

CN	Zhang	Weidong	Delegate	Yes
CN	Zhang	Zhigang	Delegate	Yes
CN	Zhang	Subing	Delegate, HoD	Yes
CN	Zhao	Xiaoying	Delegate	Yes
CN	Xu	Wenyan	Delegate	Yes
DE	Thoma	Herbert	Delegate	Yes
JP	Furukawa	Hiroshi	Delegate	Yes
JP	Kosaka	Tadayoshi	Delegate	Yes
JP	Kawanishi	Suehiro	Delegate	Yes
JP	Takakuwa	Nobuyuki	Delegate	Yes
JP	Komori	Tomoyasu	Delegate	Yes
JP	Hirakawa	Shuji	Delegate, HoD	Yes
JP	Saiga	Hiroshi	Delegate	Yes
KR	Park	Yong Luu	Delegate	Yes
KR	Park	Ju Young	Delegate	Yes
KR	Chong	Jong Ho	Delegate	Yes
KR	Park	Chan-keun	Delegate	Yes
KR	Lee	Changly	Delegate	Yes
UK	Cornell	Lindsay	Delegate	Yes
US	Hearty	Paul	Delegate	Yes
US	Maness	Phillip	Delegate	Yes
US	Thomsen	Paul	Delegate	Yes
US	Jasionowski	Tony	Delegate	Yes

## **1. Opening of the meeting, welcome by the chair and the host**

- Chairman's remark
- Roll call of delegates
- TC 100 statistics

The TC 100 Chair, Mr. David Felland opened the meeting. He thanked all the attendees. Roll call of participants was made by self-introduction.

The Secretary introduced TC 100 statistics based on 100(San Diego/Secr.)01.

Resolution 1: TC 100 noted the statistics on TC 100 activities and thanked all for the achievement of TC 100 in 2016 (100(San Diego/Secr.)01).

## **2. Approval of the agenda**

The draft agenda, 100/2945A/DA was reviewed and approved without any change. Mr. Narui added JTC1 liaison report, Dr. Kate added SyC AAL report liaison to 7. Liaison.

## **3. Confirmation of minutes of the twentieth plenary meeting of TC 100 to be held in Frankfurt, Germany on 4th October 2016**

The previous meeting minutes, 100/2852/RM was reviewed and confirmed. It will be circulated to NCs as a TC 100 RM document.

## **4. To note**

### 4.0 Change of TC 100 Assistant Secretary

Resolution 2: TC 100 noted the resignation of Mr. Toshihiro Inokuchi, TC 100 Assistant Secretary and the succession of Assistant Secretary of TC 100 by Mr. Satoshi Terasaki. TC 100 thanked Mr. Inokuchi for his contribution to TC 100 as assistant secretary and his work over the last 12 years. TC 100 welcomed Mr. Terasaki as the new TC 100 Assistant Secretary.

### 4.1 Change of TAM for TA 5

Resolution 3: TC 100 noted the appointment of Mr. Takumi Matsumoto as Technical Area Manager of TC 100/TA 5 from 2017-06-23. TC 100 welcomed Mr. Matsumoto in his new role.

### 4.2 Change of AGS Chair

Resolution 4: TC 100 noted the resignation of Dr. Yushi Komachi. TC 100 thanked Dr. Komachi for his great contribution to TC 100 as AGS Chair over the last 17 years and the appointment of Dr. Kate Grant as the new AGS Chair.

### 4.3 Change of TAM for TA 12

Resolution 5: TC 100 noted the resignation of Mr. Jon Fairhurst as TC 100/TA 12 TAM and welcomed Mr. Paul Thomsen as the new TA 12 TAM. TC 100 thanked Mr. Fairhurst for his contribution to TC 100 as TA 12 TAM.

#### 4.4 Change of TS for TA 1

Resolution 6: TC 100 noted the resignation of Mr. Masatake Sakuma, and the need for a new TS to be appointed.

#### 4.5 News from the Central Office

Resolution 7: TC 100 thanked Mr. Matei Cocimarov, IEC CO, for his presentation on recent IEC topics and information, 100(San Diego/IEC CO)03.

#### 4.6 IEC 1906 Award

Resolution 8: TC 100 celebrated the following five TC 100 recipients of the IEC 1906 Awards 2017:

Mr. Paul Szucs	DE
Mr. Stephan Hilbert	DE
Dr. Shinichiro Haruyama	JP
Mr. Munhwan Han	KR
Mr. Lee Atkinson	US

### 5. Secretariat activity report

#### 5.1 Report regarding SMB

- TC 100 Frankfurt meeting report to SMB
- Approval of Report of TC 100 Frankfurt to SMB

TC 100 noted that TC 100 report to SMB after TC 100 meeting in Frankfurt 2015 was approved by the SMB, SMB/6118/R.

### 6. Reports from

#### 6.1 TC 100 activities

TC 100/AGS  
AGS membership

Resolution 10: TC 100 resolved to accept the report of TC 100/AGS with special attention to the recommendations as given in document 100(San Diego/AGS)04:

- AGS recommended setting up a new SS to study TC 100 use cases and their use in investigation of new technologies within the scope of TC 100.  
AGS Action 01: Mr. Narui should share the TC 100 SS11 activity with the upcoming JTC1 meeting and report back to AGS on JTC 1's activities in this field.  
AGS Action 02: TC 100 secretary should set up a new SS for TC 100 use cases and call for volunteer members.
- AGS recommended SS11 to review the proposal (100/AGS757) to formulate a work programme for AR/VR activities under TC 100 in the SS11 meeting on 28th September, 2017.  
AGS recommended AGM and SS 10 to establish a stage 0 project to develop a TR: Conceptual model for TC 100 standardization on multimedia cyber technologies.
- AGS recommended TA2 to work with the proposers of blue-light related work and investigate undertaking this work for further or complementary works within TA2.
- AGS thanked Mr. Olson and Dr. Cabot for their information on AES and the report on Audio Over IP in AES and recommended that AES and IEC TC 100 should continue to work closely together.  
AGS Action 05: Dr. Cabot should provide an update on AES activities for distribution to AGS members after the AES fall meeting.
- AGS recommended TC 100 secretary to make an arrangement for the next ITU-T, JTC 1 and TC 100 High-Level Ad-Hoc meeting and provide an update of the result of the High-level ad-hoc meeting to AGS.

Resolution 11: TC 100 resolved to arrange ITU-T, JTC 1 and TC 100 High-Level Ad-Hoc meeting in Japan, in Spring 2018.

Resolution 12: TC 100 resolved to accept the report of IEC TC 100 AGM.

#### TC 100/AGM

Resolution 13:

- TC 100 agreed to the revised TA 16 title and scope as proposed to include wearable devices.

Resolution 14:

- TC 100 agreed the results of TA re-organization and establishment of New TAs and their scopes that were studied by the Task Groups after the last AGM. TC 100 agreed that all concerned parties will reach a final agreement on the restructuring by December 2<sup>nd</sup> 2017.
- TC 100 agreed that the new TA structure will be implemented on February 2<sup>nd</sup> 2018 and newly structured TAs are encouraged to schedule their first meetings in conjunction with the next AGS and AGM meetings.

Resolution 15:

- TC 100 agreed that the NP approved procedure will be activated on January 1<sup>st</sup> 2018.

Secretary explained the recommendation of NP approval procedure again.

Resolution 16: TC 100 resolved to harmonize TC 100 procedures with ISO/IEC Directives in accordance with AC/4/2017 to the SMB.

#### TC 100/TA 1

Resolution 17: TC 100 resolved to accept the report of TA 1 as given in document 100(San Diego/TA1)05.

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#### TC 100/TA 2

Resolution 18: TC 100 resolved to accept the report of TA 2 as given in document 100(San Diego/TA2)06, where the following item needs special attention/actions:

- A QP document proposing that IEC 61966-2-1 will be available free of charge and has been submitted from JPNC. The USNC comment submitted for the IEC 61966-2-1 review will continue to be discussed via e-mail.

#### TC 100/TA 4

Resolution 19: TC 100 resolved to accept the report of TA 4 as given in document 100(San Diego/TA4)07, where the following items need special attention/actions:

- There were changes in the RR document format and the procedure especially in case of extending the stability date. TC 100 is kindly requested to inform Technical Secretaries of this change in procedures.
- TA 4 requests TC 100 to wait until TA 4 decides which publications and on-going projects can be transferred to TA 20. Please be informed that this will be discussed at the next TA 4 meeting in Brussels, Belgium, 2018.

#### TC 100/TA 5

Resolution 20: TC 100 resolved to accept the report of TA 5 as given in document 100(San Diego/TA5)08, where the following items need special attention/actions:

- IEC 60728-5ED1 The publication is reconfirmed and the next review will take place in 2020. The stability date for the publication is 2021-12-31.
- IEC TR 60728-6-1ED1 The publication is reconfirmed and the next review will take place in 2020. The stability date for the publication is 2021-12-31.
- IEC 60728-11ED4 The publication is reconfirmed and the next review will take place in 2018. The stability date for the publication is 2019-12-31.

#### TC 100/TA 6

Resolution 21: TC 100 resolved to accept the report of TA 6 as given in document 100(San Diego/TA6)09.

#### TC 100/TA 8

Resolution 22: TC 100 resolved to accept the report of TA 8 as given in document 100(San Diego/TA8)10.

## AES report

Resolution 23: TC 100 resolved to accept the report of the AES as given in document 100(San Diego/AES)39.

## TC 100/TA 10

Resolution 24: TC 100 resolved to accept the report of TA 10 as given in document 100(San Diego/TA10)13.

## TC 100/TA 11

Resolution 25: TC 100 resolved to accept the report of TA 11 as given in document 100(San Diego/TA11)14, where the following item needed special attention/actions:

- TA 11 requests to hold MT 62574 meeting in conjunction with the next AGS/AGM meeting in Brussels, May 2018.

## TC 100/TA 12

Resolution 26: TC 100 resolved to accept the report of TA 12 as given in document 100(San Diego/TA12)15, where the following item needed special attention/actions:

- TA12 thanks the new TA12 TAM, Mr. Thomsen for agreeing to take the role of TAM for the future TA 19.

## Special announcement for TA 14

USB-IF J. Ravenscraft expressed thanks to TA 14 TS Mr. Sakakihara for the work of standardization of USB specification.

## TC 100/TA 13

Resolution 27: TC 100 resolved to accept the report of TA 13 as given in document 100(San Diego/TA13)16, where the following item needed special attention/action:

- TA 13 is agreed to be re-organized to the new TA19 in AGM.

## TC 100/TA 14

Resolution 28: TC 100 resolved to accept the report of TA 14 as given in document 100(San Diego/TA14)17, where the following items need special attention/actions:

- TA14 requests TC100 to consider the immediate alternatives for NP and CDV simultaneous circulation which is not currently supported by IEC CO electronic system. One possible solution to reduce standardization time is to modify AGM's maturity review so that the NP submission to IEC can be made in parallel to the AGM review period.



#### TC 100/TA 15

Resolution 29: TC 100 resolved to accept the report of TA 15 as given in document 100(San Diego/TA15)18.

#### TC 100/TA 16

Resolution 30: TC 100 resolved to accept the report of TA 16 as given in document 100(San Diego/TA16)18, where the following items need special attention/actions:

- Consolidation of ongoing activities of SS 8 and PT 100-10 stage 0 project on wearable systems and equipment by transferring them to the work programme of TA 16.
- Closure of PT100-7 (Stage 0 project on Ambient Assisted Living (AAL)) because IEC TR 62907 (Use cases related to Ambient Assisted Living (AAL) in the field of audio, video and multimedia systems and equipment) was published, and closure of Study Session 8 Wearable Systems and Equipment in AGS and PT 100-10.

#### TC 100/TA 17

Resolution 31: TC 100 resolved to accept the report of TA 17 as given in document 100(San Diego/TA17)20, where the following item needed special attention/actions:

- TA17 needs to make a liaison with ISO TC22 SC 35 for the IEC 63033 series.

#### TC 100/Projects

Resolution 32: TC 100 resolved to accept the report of projects directly under TC 100 as given in document 100(San Diego/Secr)35.

#### TC 100/GMT

Resolution 33: TC 100 resolved to accept the report of GMT as given in document 100(San Diego/GMT)21.

#### TC 100 Workshop

The chair noted that a workshop was held during the week, and encouraged the scheduling of additional workshops in the future.

#### 6.2 Stage 0 project

##### PT 100-10 (Wearable systems and equipment)

Resolution 34: TC 100 resolved to accept the report of PT 100-10 as given in document 100(San Diego/SS 8)22.

PT 100-17 (Cyber technology)

Resolution 35: TC 100 resolved to accept the report of PT 100-17 as given in document 100(San Diego/SS 10)23.

PT 100-18 (AR, VR)

Resolution 36: TC 100 resolved to accept the report of PT 100-18 as given verbally.

6.3 TC 100 liaisons

IEC/SC 3C

Resolution 37: TC 100 thanked Mr. Seki for the report 100(San Diego/SC 3C)24.

JTC 1/SC 48B

Resolution 38: TC 100 thanked Dr. Borgese for the report 100(San Diego/SC 48B)25.

IEC/TA 110

Resolution 39: TC 100 thanked Dr. Sugihara for the report on TC 110 in document 100(San Diego/TC 110)26.

ISO/IEC JTC1

Resolution 40: TC 100 thanked Dr. Grant and Mr. Narui for their report on JTC1 in document 100(San Diego/JTC1)37.

SyC AAL

Resolution 41: TC 100 thanked Dr. Grant for her report on SyC AAL in document 100(San Diego/SyC AAL)38.

ITU-R WP1A-1B

Resolution 42: TC 100 thanked Mr. Aubineau of WP 1A-1B for the report 100(San Diego/WP 1A-1B)27.

ITU-R WP 1B

Resolution 43: TC 100 thanked Mr. Aubineau of WP 1B for the report 100(San Diego/WP 1B)28.

## ATSC

Resolution 44: TC 100 thanked Mr. Michael Dolan for his presentation on ATSC activities, 100(San Diego/ATSC)29.

### 7. Liaisons

- Review existing TC and TA liaisons

Resolution 45: TC 100 resolved to approve existing TC and TA liaisons in document 100(San Diego/Liaison)30 with the following modification and additions:

- Each TA is requested to review the list which will be updated appropriately.

- Establishment of new liaison

- IEC/TC 124
- JTC1/SC 41

Resolution 46: TC 100 noted the establishment of Internal liaisons with TC 124 and JTC1/SC 41.

- ISO/TC 22/SC 35

Resolution 47: TC 100 approved the TA 17 request for the establishment of a new liaison with ISO/TC 22/SC 35.

### 8. To approve or confirm

8.1 TA 16 Scope and Title modification

8.2 TC 100 Strategic Business Plan (SBP)

Resolution 48: TC 100 resolved to approve the revised draft of TC 100 Strategic Business Plan based on the 100(San Diego/SBP)33. It will be reviewed again and then it will be circulated to P-members by February 1<sup>st</sup> 2018, and then it will be approved at the next AGM.

8.3 TA reorganization

(Resolution 14)

### 9. Planning future meetings

- 2018 AGS/AGM

TC 100 announced that the next AGS/AGM meeting will be held during the week of 22th to 25th May, 2018 in Brussels, Belgium kindly hosted by CEN/CENEREC.

- 2018 Plenary:

TC 100 announced that the next TC 100 plenary and related meetings will be held during the week of 15th to 19th October, 2018 in Busan, Republic of Korea kindly hosted by KATS.

## **10. Any other business**

Resolution 49: IEC TC 100 recognized the amazing support and excellent work provided for the past 23 years by Mr. Matei Cocimarov who leaves IEC Central Office at the end of 2017.

## **11. Resolutions**

Resolution 50: TC 100 expresses great appreciation to the CTA, especially Ms. Veronica Lancaster and her colleagues for facilitating TC 100 meetings held this week and providing excellent facilities, breakfast, lunch, social event and refreshments.

Resolution 51: TC 100 thanks all the TAMs and TSs and TC 100 officers for all their hard work during the week.

## **12. Close of the meeting**

The meeting is adjourned at 17:30.