



For IEC use only

100/xxxx/RM

2018-10-19

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

The Draft report of the meeting held in Busan, Republic of Korea on 19th October 2018
(starting time: 9:00h, ending time: 16:58h)

Participants

NC/ organisation	Last name	First name	Role	Participation
US	Felland	David	TC 100 Chair	Yes
JP	Yoshio	Junichi	TC 100 Secretary, TA17 TAM	Yes
JP	Terasaki	Satoshi	TC 100 Assistant Secretary	Yes
JP	Sakuma	Masatake	TC 100 Assistant Secretary	Yes
GB	Grant	Kate	TC 100 AGS Chair, TA 16 TAM, ISO/IEC JTC 1/SC 41 Liaison	Yes
IEC CO	Siket	Miroslav	IEC Central Office	Yes
JP	Ezaki	Tadashi	SMB	Yes
JP	Sugiura	Hiroaki	TA 2 TAM	Yes
JP	Okuda	Noritaka	TA 2 ATS	Yes
KR	Lee	Jae-Young	TA 4 TAM	Yes
KR	Choi	Kwang-Soon	TA 4 TS	Yes
JP	Matsumoto	Takumi	TA 5 TAM	Yes
JP	Hiroo	Tamura	TA 5 TS	Yes
JP	Ohtaka	Hideki	TA 6 TAM	Yes
JP	Uemura	Yashio	TA 10 TAM	Yes
JP	Narui	Yoshihisa	TA 10 TS	Yes
KR	Lim	Seung-Ok	TA 15 TAM	Yes
KR	Nam	Ock-Woo	TA 15 TS, TA 17 TS	Yes
DE	Haltrich	Ulrike	TA16 TS, TC124 Liaison, SyC AAL, HoD	Apology
JP	Eguchi	Shin	TA 18 TAM	Yes

US	Wei	Grace	TA 18 ViceTAM	Yes
JP	Koide	Keisuke	TA18 TS	Yes
US	Thomsen	Paul	TA19 TAM	Yes
DE	Schneider	Andreas	TA19 TS	Yes
GB	Woodgate	John	TA 20 TAM	Apology
JP	Ichimura	Gen	TA 20 TS	Yes
Liaisons				
KR/ ITU-T SG 5, TC108	Han	Munhwan	Int., HoD	Yes
US/USB-IF	Ravencraft	Jeff	Category C	Yes
US/ATSC	Dolan	Michael	Dependency, US HoD	Yes
JP/JEITA	Ishii	Hiroyuki	Dependency	Yes
Delegates				
CN	Zhao	Xiaoying	HoD	Yes
CN	Hu	Wen	Delegate	Yes
CN	Pu	Lingfeng	Delegate	Yes
CN	Peng	Jieying	Delegate	Yes
CN	Sun	Qifeng	Delegate	Yes
CN	Yang	Jiasheng	Delegate	Yes
CN	Gong	Xun	Delagate	Yes
JP	Hirakawa	Shuji	HoD	Yes
JP	Kawanishi	Suehiro	Delegate	Yes
JP	Katoh	Naoya	Delegate	Yes
JP	Kawamoto	Yutaka	Delegate	Yes
KR	Chang	Jang-ho	Delegate	Yes
KR	Lee	Seung-bae	Delegate	Yes
KR	Cho	Pulunsol	Delegate	Yes
KR	Park	Chonkeun	Delegate	Yes

KR	Lee	Changkyn	Delegate	Yes
KR	Park	Junyoung	Delegate	Yes
SE	Swaans	Laurens	HoD	Yes
US	Lancaster	Veronica	Delegate	Yes
US	Levine	Mark	Delegate	Yes
US	Maness	Phillip	Delegate	Yes
SA	AIDosari	Fahad	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 Chair of TC 100, Mr. Felland opened the meeting by hoping that everyone had a good and productive TC 100 meeting. Mr. Felland and thanked the South Korean National Committee for their hospitality.

A roll call of delegates was made; the delegates introduced themselves by name and National Committee affiliation.

Mr. Felland introduced TC 100 statistics based on 100(Busan/Sec.)01.

Resolution 1: TC 100 noted the statistics on TC 100 activities and thanked all for the achievement of TC 100 in 2017 (100(Busan/Sec.)01).

2. Approval of the agenda

The draft agenda, 100/3127B/DA was reviewed and approved without any change.

Resolution 2: TC 100 approved the meeting agenda without any changes.

3. Confirmation of minutes of the twentieth plenary meeting of TC 100 to be held in San Diego, USA on 29th September 2017

The previous meeting minutes, 100/3072/RM was reviewed and confirmed. It will be circulated to NCs as a TC 100 RM document.

4. To note

4.1 Reorganized TA18, TA 19 and TA 20

Mr. Yoshio reviewed the reorganization of TA 18, TA 19 and TA 20 with TC 100 members.

Highlights:

TA 18 combines TA 8 and TA14

TA 19 combines TA 12, TA 13 and TA 14

TA 20 consists of merging all Audio standards together.

Resolution 3: TC 100 approved and accepted the reorganization of TA 18, TA 19 and TA 20.

4.2 Updated TA and TAM TS

Mr. Yoshio reviewed the list of current TAs and TAM TSs. Making note of the following:

- TA 2 TS - US NC nominated Mr. Michael Dolan as TA 2 TS - According to TC 100 Guideline and Procedures (Annex SN in IEC directives).
- TA 1 TS –KR NC nominated Mr. Kwang-Soon Choi as TA1 TS, According to TC 100 Guideline and Procedures (Annex SN in IEC directives).
- The secretary will issue an appropriate AC document.
- Mr. Choi expressed his willingness to take on the role of TA 1 TS during this meeting.
- TA 1 TAM - FI NC indicated no one is available to be nominated. The secretary continues to seek a candidate. The Korean NC stated they have reached consensus to recommend Mr. Masatake Sakuma as the TAM of TA1.

Resolution 4: The TC 100 Secretary recommended the TC 100 Chair that Mr. Michael Dolan as TA2 Technical Secretary and Mr. Kwang-Soon Choi as TA 1 Technical Secretary. The TC 100 Chair accepted these recommendations. These will be announced via an AC document. A Q document will be issued to determine if Dr. Masatake Sakuma will become the next TA1 TAM.

4.3 News from the Central Office

Mr. Siket shared a presentation on “News from IEC CO” with TC 100 members. His report covered recent topics of interest in IEC and can be found in the presentation. Mr. Siket also explained IEC new web tools. Mr. Siket discussed the WG structure for TC 100.

Resolution 5: TC 100 thanked Mr. Siket, IEC CO, for his presentation on recent IEC topics and information, 100(Busan/IEC CO)03.

4.5 IEC 1906 Award

TC 100 congratulated the following individuals who received the IEC 1906 Award in 2018:

Resolution 6: TC 100 celebrated the following five TC 100 recipients of the IEC 1906 Awards 2018:

Mr. Michael Dolan	US
Mr. David Hodges	GB
Mr. Hideki Ohtaka	JP
Mr. Hisashi Saiga	JP
Mr. Yun-Jae Won	KR

5. Secretariat activity report

5.1 Report regarding SMB

– TC 100 San Diego meeting report to SMB

Mr. Yoshio shared the previous SMB meeting report with TC 100 members.

Resolution 7: TC 100 noted that TC 100 report to SMB after the TC 100 meeting in San Diego 2017 was approved by the SMB, SMB/6278/R.

6. Reports from

6.1 TC 100 activities

Please note only highlights are reported. Additional information can be found in the meeting resolutions and Technical Area updates given during the plenary meeting and available for review after the conclusion of the meeting.

● TC 100/AGS

Dr. Grant reviewed the AGS meeting minutes with TC 100 and the resolutions from the previous AGS meeting were reviewed and accepted.

Resolution 8: TC 100 resolved to accept the report of TC 100/AGS as given in the document 100 (Busan/AGS)05.

– AGS membership

Mr. Yoshio reviewed the current AGS membership list with TC 100.

Resolution 9: TC 100 resolved to accept the membership list of TC 100/AGS as given in document 100(Busan/AGS)06. It was recognized that JP NC proposed Professor Hirokazu Tanaka as a new AGS member.

● TC 100/AGM

Mr. Terasaki reviewed the AGM meeting minutes with TC 100 and the recommendations from the previous AGM meeting were reviewed and accepted,

Resolution 10:TC 100 resolved to accept the report of TC 100/AGM as given in the document 100(Busan/AGM)07.

● **TC 100/TA 1**

Mr. Sakuma reported on the program of work for TA 1 report to TC 100 with document 100(Busan/TA1)08. Mr. Sakuma stated that the last TA 1 meeting was held in San Diego in Fall 2017.

Resolution 11: TC 100 resolved to accept the report of TA 1 as given in document 100(Busan/TA1)08.

● **TC 100/TA 2**

Dr. Sugiura reported on the program of work for TA 2 with document 100(Busan/TA2)09. The group met earlier this week.

Resolution 12: TC 100 resolved to accept the report of TA 2 as given in document 100(Busan/TA2)09

● **TC 100/TA 4**

Dr. Lee reported on the program of work for TA 4 with document 100(Busan/TA4)10. The group met earlier this week. TC 100 agreed to modify the scope to read "To develop international publications for digital interfaces and protocols primarily related to video, data (e.g., haptic, text, etc.), and metadata for consumer and professional digital equipment, systems and applications within the scope of TC 100 including:

- Video, data and metadata encoding/decoding
- Synchronization between all media
- Data format and coding (e.g., sensor data, metadata, control data, etc.)
- Interoperability of applications for digital equipment and systems
- Interfaces and protocols for transmission and control of video, data and metadata
- Requirements and/or measurement methods for electrical and physical characteristics (e.g., sampling rate, bandwidth, quantization, format, clock, levels, distortion, noise, visible effects caused by system errors, etc.)"

Resolution 13: TC 100 resolved to accept the report of TA 4 as given in document 100(Busan/TA4)10 and the secretary will issue a Q document regarding this scope change following this meeting.

● **TC 100/TA 5**

Mr. Tamura reported on the program of work for TA 5 with document 100(Busan/TA5)11. Dr. Grant stated it may be desirable to have collaboration between different TAs to get all experts involved.

Resolution 14: TC 100 resolved to accept the report of TA 5 as given in document 100(Busan/TA5)11.

● **TC 100/TA 6**

Mr. Ohtaka reported on the program of work for TA 6 with document 100(Busan/TA6)12. TA 6 held a meeting last week in Tokyo, Japan.

Resolution 15: TC 100 resolved to accept the report of TA 6 as given in document 100(Busan/TA6)12.

● **TC 100/TA 10**

Mr. Uemura reported on the program of work for TA 10 with document 100(Busan/TA10)13. The group met earlier this week.

Resolution 16: TC 100 resolved to accept the report of TA 10 as given in document 100(BusanTA10)13.

● **TC 100/TA 15**

Mr. Lim reported on the program of work for TA 15 with document 100(Busan/TA15)14. The group met earlier this week. During this meeting, three new projects (NPs) related to WPT and new technical approaches for RF WPT and 3D spatial WPT were started.

Resolution 17: TC 100 resolved to accept the report of TA 15 as given in document 100(Busan/TA15)14, TC 100 agreed the experimental re-organization of TA 15 using WG approach. The secretary will issue a Q document detailing the reorganization of TA 15.

● **TC 100/TA 16**

Dr. Grant reported on the program of work for TA 16 with document 100(Busan/TA16)15.

Resolution 18: TC 100 resolved to accept the report of TA 16 as given in document 100(Busan/TA16)15

● **TC 100/TA 17**

Dr. Nam reported on the program of work for TA 17 with document 100(Busan/TA17)16. The group met earlier this week.

PT 100-20 for CCIS, Configurable Car Infotainment Service, will develop 4 parts. 1) Part 1: CCIS –Conceptual Model, 2) Part 2: CCIS – Requirements, 3) Part 3: CCIS – Framework and 4) Part 4: CCIS – Protocol. And Professor Seok-Joo Koh was recommended as a co-project leader. This will be proposed from KR NC. The time plan was also introduced. It will start in Q4 of this year and all parts are projected to end in Q2 of 2022. The NP of part 1 will be submitted after the Busan meeting.

Resolution 19: TC 100 resolved to accept the report of TA 17 as given in document 100(Busan/TA17)16

● **TC 100/TA 18**

Mr. Koide reported on the program of work for TA 18 with document 100(Busan/TA18)17. TA 18 had their first meeting earlier this week. TA 18 concluded to keep the publication of IEC TS 62700 Ed 1 without changes and proposes to disband the maintenance work of MT 62700 Ed 2.

Resolution 20: TC 100 resolved to accept the report of TA 18 as given in document 100(Busan/TA18)17.

● **TC 100/TA 19**

Mr. Thomsen reported on the program of work for TA 19 with document 100(Busan/TA19)18. The group met earlier this week.

- Reset the timeline for MT 62623 to 2019-05 for CD IEC 62623 ED2
- Register PT100-15 as PWI to the work program of TA19, targeting DTR submission to IEC CO by 2019-03.
- Circulate DC for IEC 62087-1/-2/-3 to initiate maintenance work in MT 62087 and to call for experts.

Resolution 21: TC 100 resolved to accept the report of TA 19 as given in document 100(Busan/TA19)18. The timeline for MT 62623 changed to 2019-05 for CD IEC 62623 ED2. PT100-15 registered as PWI to the work program of TA19 targeting DTR submission to IEC CO by 2019-03.

- **TC 100/TA 20**

Mr. Ichimura reported on the program of work for TA 20 with document 100(Busan/TA20)19. The group met earlier this week. The group also plans to meet in Dublin during the AES on March 22, 2019.

Resolution 22: TC 100 resolved to accept the report of TA 20 as given in document 100(Busan/TA20)19. The Secretary will issue an AC document notifying TC 100 about the appointment of Mr. Mark Yonge as an Assistant Technical Secretary.

- **TC 100/GMT**

Mr. Yoshio gave a report of the GMT meeting which was held earlier in the week in Busan, Republic of Korean with document 100(Busan/GMT)20.

Resolution 23: TC 100 resolved to accept the report of GMT as given in document 100(Busan/GMT)20.

6.2 Stage 0 project

- **PT 100-17 (Cyber technology)**

Mr. Yoshio reported on the program of work for PT 100-17 – Multimedia Cyber Technology. The group met earlier this week.

Resolution 24: TC 100 resolved to accept the report of PT 100-17 as given in document 100(Busan/PT100-17)21.

- **PT 100-18 (VR/AR/MR Technology)**

Ms. Zhao reported on the program of work for PT 100-18 – VR/AR/MR Technology. The group met earlier this week.

Resolution 25: TC 100 resolved to accept the report of PT 100-18 as given in document 100(Busan/PT100-18)22.

6.3 TC 100 liaisons

The status of the following IEC liaisons were shared with TC 100 members:

- **ITU-R WP 1B**

Mr. Yoshio shared the status of the ITU-R WP 1B liaison with TC 100 members.

Resolution 26: TC 100 thanked Mr. Yoshio for the WP 1B report 100(Busan/WP 1B)23.

– **ITU-T SG16**

Mr. Yoshio shared the status of the ITU-T SG16 liaison with TC 100 members.

Resolution 27: TC 100 thanked Mr. Yoshio for the ITU-T SG16 report.

– **ISO/IEC JTC1**

Mr. Nauri and Dr. Grant shared the status of the ISO/IEC JTC1 liaison with TC 100 members.

Resolution 28: TC 100 thanked Mr. Narui and Dr. Grant for their report on JTC1 in document 100(Busan/JTC1)24.

– **ISO/IEC JTC 1/SC 41**

Dr. Grant shared the status of the ISO/IEC JTC 1/SC 41 liaison with TC 100 members.

Resolution 29: TC 100 thanked Dr. Grant for her report on JTC1/SC 41 in document 100(Busan/JTC1/SC 41)32.

– **IEC TC 1**

Mr. Yoshio shared the status of the IEC TC 1 liaison with TC 100 members.

Resolution 30: TC 100 thanked Mr. Yoshio for his report on IEC TC 1 in document 100(Busan/AGM(Secretariat)1478.

– **IEC TC 3/SC 3C**

Mr. Yoshio shared the status of the IEC TC 3/SC 3C liaison with TC 100 members.

Resolution 31: TC 100 thanked Mr. Yoshio for his report on IEC TC 3/SC 3C in document 100(Busan/SC 3C)25.

– **IEC TC 48/SC 48B**

Mr. Yoshio shared the status of the IEC TC 48/SC 48B liaison with TC 100 members.

Resolution 32: TC 100 thanked Mr. Yoshio for his report on IEC TC 48/SC 48B in document 100(Busan/SC 48B)26.

– **IEC TC 77**

Mr. Yoshio shared the status of the IEC TC 77 liaison with TC 100 members.

Resolution 33: TC 100 thanked Mr. Yoshio for his report on IEC TC 77 in document 100(Busan/TC 77)27.

– **ATSC**

Mr. Dolan shared the status of the ATSC liaison with TC 100 members.

Resolution 34: TC 100 thanked Mr. Dolan for his report on ATSC activities, 100(Busan/ATSC)28.

– **CTA**

Ms. Lancaster shared the status of the CTA liaison with TC 100 members.

Resolution 35: TC 100 thanked Ms. Lancaster for her report on CTA activities, 100/Busan/CTA)29.

7. Liaisons

● Review existing TC and TA liaisons

Mr. Terasaki reviewed the existing TC and TA liaisons with TC 100.

Resolution 36: TC 100 resolved to approve existing TC and TA liaisons in document 100(AGM/Secretariat)1494, plus updates requested from TAs.

● CTA Category A liaison request

Mr. Yoshio reviewed the CTA Category A liaison request with TC 100. This request is still in process and an update will be provided at the appropriate time.

Resolution 37: TC 100 requested P-members to validate the CTA Category A liaison in document 100/3148/Q.

8. Review of active participation of P-members in the work of TC 100

Mr. Siket reviewed the active P-members in TC 100. Mr. Siket stated that countries that have not been actively participating will be removed from consideration for at least one year. After one year, those countries that were removed can request to participate again.

Resolution 38: TC 100 thanked Mr. Siket for the P-member update, and TC 100 requests IEC CO to change the status from P-member to O-member for the following countries: Australia, Romania, Turkey and Ukraine. TC 100 requests IEC CO to remind countries that have not participated in the last three plenaries about their non-participation.

9. To approve or confirm

9.1 Programme of work and maintenance programme

Mr. Terasaki reviewed the programme of work and the maintenance programme update with TC 100.

Resolution 39: TC 100 thanked Mr. Terasaki for the programme of work and maintenance programme update and approved the updated dates.

9.2 TC 100 Strategic Business Plan (SBP)

Mr. Yoshio reviewed the Strategic Business Plan (SBP) update with TC 100. The plan will be to

submit this to IEC CO. Mr. Yoshio asked all TC 100 members to review this and let him know if they had any edits that should be made before it is submitted to IEC CO. Such requests must be received by Oct. 26th, 2018 based on the updated document circulated immediately after the plenary. The SBP will be updated to include the TA4 title and scope changes when approved.

Resolution 40: TC 100 thanked Mr. Yoshio for reviewing the Strategic Business Plan. The secretary will issue DC document to request comments on the updated Strategic Business Plan after receiving the comments.

10. Planning future meetings

– **2019 AGS/AGM**

London, UK, May 20-24, 2019

– **2019 Plenary**

Shanghai, China, Oct. 14-20, 2019

Ms. Zhao gave a presentation updating members on information regarding the 2019 TC 100 Plenary meeting in Shanghai.

– **2020 AGS/AGM**

Takamatsu Kagawa, Japan, May 25-29, 2020

– **2020 Plenary**

Stockholm, Sweden, October, 2020

11. Any other business

There was no “Other Business” discussed during the meeting.

12. Resolutions

Resolution 41: TC 100 thanks the Korean National Committee for their wonderful meeting support and spectacular cultural experience including a delightful dinner.

Resolution 42: TC 100 thanks the TC 100 Secretariat and the TC 100 Chair for the hard work and great leadership during this meeting week.

13. Close of the meeting

The meeting is adjourned at 16:58.