



100/AGS725/RM

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**INTERNATIONAL ELECTROTECHNICAL COMMISSION****TECHNICAL COMMITTEE NO 100: AUDIO, VIDEO AND MULTIMEDIA SYSTEMS  
AND EQUIPMENT****ADVISORY GROUP on STRATEGY**Draft minutes of the 40th meeting of the **TC 100/AGS on Wednesday, 2016-9-28**

Meeting location:

Room; VDE Siemens

DKE (Deutsche Kommission Elektrotechnik Elektronik Informationstechnik  
in DIN und VDE)

Stresemannallee 15, 60596 Frankfurt am Main, Germany

Meeting time: 9:00 – 11:30

**Attendees: total 35 attendees****[Members, 11 attendees]**

Title	Name	Country
AGS Chairman	Dr. Yushi Komachi	JP
AGS Secretary	Mr. Toshihiro Inokuchi (web)	JP
TC 100 Chairman	Mr. David Felland	US
TC 100 Secretary	Mr. Tadashi Ezaki	JP
TC 100 Assistant Secretary	Mr. Masatake Sakuma	JP
AGS Member	Ms./Dr. Kate Grant	GB
AGS Member	Ms. Ulrike Haltrich	DE
AGS Member	Mr. Shin Eguchi	JP
AGS Member	Ms. Veronica Lancaster	US
AGS Member	Mr. Ock-Woo Nam	KR
AGS Member	Mr. Pekka Talmola	FI
AGS Member	Ms. Grace Wei	US
AGS Member	Mr. Junichi Yoshio	JP
AGS Member	Ms./Dr. Xiaoying Zhao	CN

AGS Member	Mr. Michael Dolan	US
AGS Member	Mr. Hamid Amir-Alikhani (web)	DE
[GUEST]		
TA4/TAM	Prof. Jae-Young Lee	KR
TA4/TS	Mr. Kwang-Soon Choi	KR
TA5/TS	Mr. Jukka Alve	FI
TA8/TAM, TA14/TS	Mr. Hironori Sakakihara	JP
TA13/TAM	Ms. Donna Sadowy	US
TA15/TS	Dr. Lim Seung-Ok	KR
[OBSERVER]		
Chairman of TC100 mirror committee in Germany	Dr. Michael Silverberg	DE
	Mr. Takayuki Fujiwara	JP
	Mr. Kazuhiko Oi	JP
	Mrs. Hiroko Kawamoto	JP
	Mr. Suehiro Kawanishi	JP
	Dr. Subing Zhang	CN
	Mr. Munhwan Han	KR
	Mr. Mark Levine	US
	Mr. Andreas Schneider	DE
	Mr. Nobuyuki Takakuwa	JP
	Mr. Hiroo Tamura	JP
	Mr. Colin Whitby-Stevens	US
	Mr. Yun-Jae Won	KR
	Mr. Chao Xu	CN
	Mr. Sumi Yoon	KR
	Mr. Yongju Park	KR
	Hyuk Choon Kwon	KR
	Yong Ho Park	KR

## Draft Meeting minutes

### 1. Opening and reconfirmation of AGS scope --- 100/AGS233rev

Chairman opened the meeting at 9:00 of 2016-09-28.

Prof. Dr. Michael Silverberg, Chair of TC 100 German national mirror committee, provided host remark and expected TC100 for having strategic discussion.

AGS thanked German NC/DKE and Prof. Dr. Michael Silverberg for hosting AGS meeting and providing nice meeting facilities and refreshments.

Chairman asked Mr. Ezaki for acting AGS Secretary because Mr. Inokuchi didn't attend AGS meeting in person.

Chairman requested the roll call of attendees.

Chairman explained the scope of AGS by using document 100/AGS233er.

### 2. Approval of the agenda --- 100/AGS707

Chairman reviewed the draft agenda, and approved without modification.

### 3. Review of the minutes of the last meeting --- 100/AGS703

Dr. Komachi explained the draft minutes of Vienna meeting, and AGS agreed on it without modification.

### 4. Membership of AGS

TC100 AGS Membership --- (T. Ezaki) 100/AGS709

Attendee list of the 40th TC 100 AGS meeting --- 100/AGS708

- Mr. Ezaki explained the latest AGS member.
- AGS expressed special thanks to Mr. Keith Jones for his tremendous contribution towards AGS activity.
- Mr. Ezaki explained that US can nominate the successor of Mr. Jon Fairhurst if US expects.

### 5. New Technologies within the scope of TC 100

#### 5.1 Follow-up of issues of 38th (or former) meeting

(0) Clarification of Study Session activity

- Status of the stage 0 projects recommended in AGS --- (T. Inokuchi) 100/AGS706
  - Dr. Komachi explained about document AGS706 for explaining the summary of stage-0 project initiated by AGS as requested by last AGS meeting and confirmed that there was no missing project.
  - AGS thanked Mr. Inokuchi for his clarification of study sessions and the stage 0 projects recommended by AGS and requested him to update the status list.

(1) Study Session 1 (3D and UHD technology)

- Report of SS 1 (incl. PT 100-14) --- (Chao Xu) 100/AGS711

- Mr. Xu reported the result of investigation about existing terminology, and proposed to stop SS1 activity because most terminologies have already been standardized in other committee.
- AGS closed SS 1 and thanked Ms. Zhao for her leadership for SS 1 activities.
- AGS recommended PT 100-14 (preparation of an NP for TS on "UHD terminology") to be disbanded.

## (2) Study Session 7 (Robotics technology)

- Report of SS 7 --- (T. Inokuchi) 100/AGS721
- Call for membership of SS 7 --- (T. Inokuchi) 100/AGS705
- Report of SMB/ACART (Application of Robot Technology (SG 7)) --- (T. Ezaki and T. Inokuchi) 100/AGS710
- Proposal for developing TR: Conceptual model for TC 100 robotics --- (T. Inokuchi and Y. Komachi) 100/AGS713
- Proposal for DTR: Multimedia systems and equipment - Multimedia signal transmission - Dependable line code with error correction --- (N. Yamasaki) 100/AGS712
- Dr. Komachi explained the result of call for member of SS7, and reported that the criteria for starting SS activity was passed.
- AGS requested Mr. Inokuchi as Interim leader of SS7 to nominate a leader of SS 7 by the next AGS meeting.
- Mr. Ezaki reported the latest situation of SMB/ACART.
- AGS thanked Mr. Ezaki for reporting about SMB/ACART.
- Dr. Komachi explained the proposal for developing the conceptual model of TC100 robotics, and proposed to establish new stage-0 project.
- AGS recommended AGM and SS 7 to establish a stage 0 project to develop a TR: Conceptual model for TC 100 robotics and appointed Mr. Inokuchi as leader of the project.
- Dr. Komachi explained the proposal of Multimedia systems and equipment - Multimedia signal transmission - Dependable line code with error correction.
- AGS recommended Japanese NC to submit a DTR: Multimedia systems and equipment - Multimedia signal transmission - Dependable line code with error correction.

## (3) Study Session 8 (Wearable systems and equipment)

- Report of SS8 and stage 0 project on use cases --- (U. Haltrich) 100/AGS695, 100/AGS696
- Report of SS 8 (incl. PT 100-13 and 10) --- (U. Haltrich) 100/AGS719
- Report of SMB/SG 10 (Wearable Smart Devices) --- (U. Haltrich and T. Ezaki) 100/AGS718
- Report of ballot resolution of 100/2702/NP: Measurement method for assistive listening functionality --- (J. Yoshio) 100/AGS715
- Report of ballot resolution of 100/2751/DTR: Power supplying scheme for wearable systems and equipment --- (J. Yoshio) 100/AGS716
- Ms. Haltrich explained SS8 activity using document 100/AGS719.
- AGS recommended to merge the project PT 100-10 (collecting use cases on wearable systems and equipment) and PT 100-13 (preparation of an NP for "user comfort and evaluation of smart textiles and wearables").
- Ms. Haltrich and Mr. Ezaki reported the latest situation of SMB/SG10 with document 100/AGS718.
- AGS thanked Ms. Haltrich and Mr. Ezaki for their report on SMB/SG 10.

## (4) Study Session 9 (HDR technology)

- Report of SS 9 meeting --- (J. Fairhurst) 100/AGS7xx

- Mr. Ezaki explained about SS9 status on behalf of PL that DTR has already been approved and TR was published.
- AGS closed SS 9 and thanked Mr. Fairhurst for his leadership for SS 9 activities.

#### (5) Study Session 10 (Multimedia cyber technology)

- Report of SS 10 --- (J. Yoshio) 100/AGS720
- Call for membership of SS 10 --- (J. Yoshio) 100/AGS704
- Proposal for developing a conceptual model for TC 100 standardization on multimedia cyber technology --- (J. Yoshio) 100/AGS717
- Mr. Yoshio reported the result of call for member and explained that the criteria for starting SS activity was satisfied.
- Dr. Grant nominated Mr. Yoshio as the leader of SS10.
- AGS appointed Mr. Yoshio as leader of SS 10.
- Mr. Yoshio explained about the conceptual model of multimedia cyber technology with document 100/AGS717.
- 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 technology.

#### (6) Smart city

- Report of SyC Smart Cities --- (M. Sakuma and S. Hirakawa) 100/AGS714
- Mr. Sakuma reported the result of 1<sup>st</sup> plenary meeting of SyC Smart City held on 2016-07.
- AGS thanked Mr. Sakuma and Dr. Hirakawa for their report on SyC Smart Cities and requested them to report on updated information relating to the SyC.
- AGS recommended TC 100 for appointing a liaison representative to SyC Smart Cities.

#### (8) Tiled display terminal

- Report of the NP on Multi-screen LCD display system --- (Chao Xu) 100/AGS722
- Mr. Xu reported the latest situation about NPs of tiled display.
- Mr. Ezaki explained that TC100 usually standardize the conceptual model as TS, NOT IS, and Mr. Xu agreed to submit NP of part 1 as TS.
- AGS recommends TC 100 to circulate the NP on Multi-screen LCD display system with part 1 as TS and part 2 as IS.

(short break)

## 5.2 New contributions

### (1) VR/AR

- Market and standard requirements for VR --- (X. Y. Zhao) 100/AGS723
- Ms. Zhao explained the market trend and standard area about virtual reality and assisted reality.

- AGS recommended to establish a new SS on VR. AGS appointed Ms. Zhao as the interim leader of SS 11 with the following terms of reference:
  - to carefully evaluate the techniques used in field of VR
  - to find out the potential requirements for standards that would be new projects in IEC TC100
  - to undertake a survey on status of market and products in NCs.
- AGS recommended AGS secretary to circulate a call for membership for the new SS 11.

## 6. Related activities

### 6.1 ITU-T, JTC 1 and TC 100 collaboration

- Mr. Ezaki explained there was no collaboration meeting since previous AGS meeting.
- AGS recommended TC 100 secretary to arrange a high-level meeting to foster ITU-T, JTC 1 and TC 100 collaboration

### 6.2 Minimizing overlap of standardization

- Report of PONT activity --- (D. Felland and T. Ezaki) 100/AGS7xx
  - No PONT issue was reported in this meeting.

## 7. Review of recommendations and agreed action items --- 100/AGS724

1. AGS thanks Mr. Inokuchi for his clarification of study sessions and the stage 0 projects recommended by AGS and requests him to update the status list.
2. AGS closes SS 1 and thanks Ms. Zhao for her leadership for SS 1 activities.
3. AGS recommends that the project PT 100-14 (preparation of an NP for TS on "UHD terminology") to be disbanded.
4. AGS requests Mr. Inokuchi to nominate a leader of SS 7 by the next AGS meeting.
5. AGS recommends AGM and SS 7 to establish a stage 0 project to develop a TR: Conceptual model for TC 100 robotics and appoints Mr. Inokuchi as leader of the project.
6. AGS recommends Japanese NC to submit a DTR: Multimedia systems and equipment - Multimedia signal transmission - Dependable line code with error correction.
7. AGS recommends to merge the project PT 100-10 (collecting use cases on wearable systems and equipment) and PT 100-13 (preparation of an NP for "user comfort and evaluation of smart textiles and wearables").
8. AGS thanks Ms. Haltrich and Mr. Ezaki for their report on SMB/SG 10.
9. AGS closes SS 9 and thanks Mr. Fairhurst for his leadership for SS 9 activities.
10. AGS appoints Mr. Yoshio as leader of SS 10.
11. AGS recommends AGM and SS 10 to establish a stage 0 project to develop a TR: Conceptual model for TC 100 standardization on multimedia cyber technology.
12. AGS thanks M. Sakuma and Dr. Hirakawa for their report on SyC Smart Cities and requests them to report on updated information relating to the SyC.
13. AGS recommends TC 100 should appoint a liaison representative to SyC Smart Cities.
14. AGS recommends TC 100 to circulate the NP on Multi-screen LCD display system with part 1 as TS and part 2 as IS.
15. AGS recommends to establish a new SS on VR. AGS appoints Ms. Zhao as the interim leader of SS 11 with the following terms of reference:
  - to carefully evaluate the techniques used in field of VR
  - to find out the potential requirements for standards that would be new projects in IEC TC100
  - to undertake a survey on status of market and products in NCs.

16. AGS recommends AGS secretary to circulate a call for membership for the new SS 11.
17. AGS recommends TC 100 secretary to arrange a high-level meeting to foster ITU-T, JTC 1 and TC 100 collaboration.

## **8. Meeting schedule**

TC100 Secretary explained about the next meeting.

- Date: On the week of 2017-05-17
- Location: Singapore

## **9. Other business**

AGS expressed its appreciation to German National Committee for handling arrangements of the AGS meeting and providing excellent facilities and refreshments

## **10. Closing**

The chairman closed the meeting at 11:30.