



100/AGS475

For IEC use only

2011-10-25

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE NO 100: AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT

ADVISORY GROUP on STRATEGY (AGS)

Minutes of the 30th AGS meeting on October 25, 2011

Meeting time: 9.00 - 13.30

Meeting Place: Melbourne Convention and Exhibition Center, Melbourne, Australia

Attendees:

[Members, 14 present]

AGS Chairman: Mr./Dr. Yushi Komachi, JP
Mr. David Felland US, TC100 Chairman
Mr. Tadashi Ezaki JP, TC100 Secretary
Mr. Hiroyuki Iga JP, TC100 Assistant Secretary
Mr. Matei Cocimarov, IEC/CO
Mr. Shuichi Matsumura, JP TA8/TAM
Ms. Jean Baronas, US US-TAG Chair
Ms. Ulrike Haltrich, DE, Digital Europe
Ms./Dr. Kate Grant, UK Nine Tiles
Mr. Junichi Yoshio, JP TA11/TAM
Mr. Subing Zhang, CN CESI
Mr. Keith Jones, AU Australian Industry Group
Ms. Grace Wei, US Intel
Mr. Ock-Woo Nam

[Observers, 37 present]

Mr. Hironori Sakakihara, JP TA8/TS, TA14/TS
Mr. Yoshihisa Narui, JP TA10/TS
Ms. Tsuyoshi Naruoka, JP TA13/TS
Mr. Koji Tsukada, JP TA6 / TS
Mr. Toshihiro Inokuchi, JP TA12/TS, Substitute for the AGS Secretary for October 25, 2011
Mr. Kwang-Soon Choi, KR TA4/TS
Mr. Jon Fairhurst, US TA12/TAM
Mr. Eero Sorri FI, TA5/TS
Mr./Dr. Jae-Young Lee KR, TA4/TAM
Mr./Dr. Yashio Uemura JP, TA10/TAM
Mr. Osamu Namikawa, JP
Mr./Dr. Laurie Halme, TA5/TAM
Mr. Andreas Schneider, TC111 (Liaison)
Mr. Richard Valenta, CENELEC TC206 (Liaison)
Mr. Guido Gybels, European Blind Union(UK)(Liaison)

Mr. Jeff Ravencraft, US, USB-IF (Liaison)
Mr. Onno Elzinga, Switzerland, ECMA International (Dependency)
Mr. Kent Gu
Mr. Jeff Howell, US
Mr. Woo-jung Yoo
Mr. Motoharu Suda
Mr. Mitsuhiro Hinabayashi, JP
Mr. Hiroyuki Ishii, JP
Mr./Dr. Yoshikazu Ishii, JP, TA12, ATS
Mr. Osamu Namikawa, JP
Mr. Choon S. Cho
Mr. Yang Hoi Song, KR
Mr. Ok Seob Lee, KR
Mr. Dennis Wong
Mr. Myung-soo Lee, KR
Mr. Satoshi Kageyama, JP
Mr. Hoonjong Kang
Mr. Kwangmo Jung
Mr. Zhang Hong
Mr. Gan Jianxim
Mr. Michael Stelts, US
Mr. Tom White

Discussions:

0. The IEC TC100 AGS meeting was called to order at 9:05AM by Chairman, Dr. Komachi. Mr. Inokuchi substituted for the IEC TC100 AGS Secretary.

1.0. Opening and reconfirmation of the AGS scope (100/AGS/233)

The review of the AGS scope was led by IEC TC100 AGS Chair, Dr. Komachi.

2.0 Approval of the agenda (100/AGS/433)

No additional items or modifications, otherwise, were received. The agenda was confirmed.

3.0 Review of the minutes of the previous meeting (100/AGS/454)

The minutes of the previous IEC TC100 AGS meeting were reviewed. The previous meeting was the 29th meeting. Without modification, the minutes of the 29th meeting were confirmed.

4.0 The AGS membership

The AGS membership is listed in the report of the 29th AGS meeting to the IEC Standards Management Board (SMB) (SMB/4525e). The attendee list of the 29th meeting was circulated to the participants for sign-in (100/AGS/457). The new members follow: David Felland's replacement is Ms. Grace Wei of the US, and Dr. Mukai's replacement is Mr. Okonam from the Korean National Committee.

5.0 Discussion about new technologies within the IEC TC100 scope and follow-up of issues from the 29th meeting

5.1 Digital Cinema (D-Cinema): The SMPTE D-Cinema (21DC) Status Report was given by Mr. Ohtaka (100/AGS/468).

5.2 Smart Grid: Mr. Inokuchi reported on the IEC SMB SG3 (Smart Grid) activities; the SG3 met, June 2011, and started "Domain Core Teams" for creating generic use cases for Smart Grid applications. The SMB SG3 decided to launch Distribution Grid Management and Smart Home / commercial / industrial / demand response activities and two teams subsequently held phone conferences. Mr. Inokuchi recommended that an IEC TC100 liaison with IEC TC57/WG21 be established.

5.3 Low Voltage DC (LVDC): Mr. Stelts reported on the IEC SMB SG4 LVDC Workshop held September 2011 in Germany. The objective of the SG4 LVDC Workshop included identifying market drivers, listing the related standards committees, and developing a standards roadmap that includes energy efficiency and regulations (range: 260V-400V DC).

(6.0) Study Session Reports

6.1 Report of Study Session 1 (3DTV technology): Mr. Fairhurst summarized the organizations involved with 3DTV, such as the ATSC, and he also summarized the key domain-specific areas as follows: production techniques, compression, encoding, media, home connectivity, display technology, eyewear ((including active infrared (IR) eyewear)), and closed captioning. His report is in 100/AGS/460.

Mr. Fairhurst noted that the IEC TC100 can take an “overarching” view of 3DTV terms and definitions and also quality measurement. For terms and definitions, the IEC TC100 can collaborate on the standards promulgated by organizations such as the SMPTE, “3D at Home,” and others. He noted that the IEC TC100 Technical Area (TA) 12 Maintenance Team (MT) 62037 will consider 3DTV power measurement. The IEC TC100 TA 11 is likely to address 3DTV quality measurement; it was noted that TA11 will include quality in IEC 62312.

Mr. Fairhurst took the action item to study the organizations active in 3DTV, potentially to include IEC TC110 and other groups such as those involved with gaming applications, and report on this Study Session at the next AGS meeting. The AGS requested that he produce a roadmap on terms leading to an NP and another NP for quality prior to the next AGS meeting. Input was also received from the Chinese National Committee which considers flicker, crosstalk, viewing angle and optical parameters for 3DTV. The document from China is 100/AGS/470. Further input on cameras and recorders used in 3DTV systems will be sought for this Study Session.

6.2 Report of Study Session 2 (Ambient Assisted Living --- AAL): Mrs. Haltrich reviewed activities in Germany where a roadmap study is under development. The study is primarily driven by demographics: today 2.25 million people in Germany need care and 0.71 million people live in nursing home facilities. Further, a German gap analysis that includes interoperability standards for AAL systems, remote maintenance of AAL, interfaces and home emergency calls, building controls, health service systems, and energy efficiency is underway. Her report is in 100/AGS/456. Smart Home, Smart Grid, and energy efficiency in the context of AAL are related topics. Reportedly, Europe wants to avoid fragmented solutions for AAL.

The IEC SMB established Strategic Group 5 on AAL for the development of a roadmap, terms, architecture, user interfaces, use cases, and coordination of IEC activities. Related projects were reviewed by Mr. Gybels representing the European Blind Union (EBU). His report is in 100/AGS/461. Mr. Gybels covered impairment simulators, exclusion calculators (quantity of people who can use a product), visual impairment and 3DTV, and banking applications. Mr. Ezaki requested that an IEC TC100 AGS SG5 Task Group be established to gather information from the IEC SMB SG5.

6.3 Report of Study Session 3 (wireless power transmission): Mr. Matsumura reviewed a proposal for a Technical Report on wireless power transmission. His report is in 100/AGS/456. Several architectures exist that support wireless power transmission, including electromagnetic induction, electric field inductive coupling, and highly resonant magnetic induction. The topics include: terms and definitions, survey results from the IEC TC100 members (regulations, architectures, and applications), charging reference models, and overviews of various organizations’ activities in wireless power transmission standards and the status of their work.

When Mr. Matsumura noted the wireless power transmission use cases in residential and commercial buildings, and the automotive sector, he requested that a Stage 0 project be started for the Technical Report. The anticipated milestones / schedule follows: call for experts November 2011, begin to establish liaisons with other standards committees and organizations to contribute to the work in December

2011 and kick-off a survey of regional activities in January 2012. The project leaders will be Mr. Matsumura and John Suh (US).

Mrs./Dr. Grant recommended that the ISO/IEC JTC1 be involved in the wireless transmission activity and noted that the Korean National Committee proposed that a Working Group activity to consider user requirements / scenarios (in ISO/IEC JTC1). A delegate from the Korean National Committee reported on a wireless power analysis and recommended an IEC TC100 project be proposed for a common control protocol for wireless charging many devices in 100/AGS/473.

The AGS Chairman, Dr. Komachi, requested that an off-line meeting be held in Melbourne this week to discuss next steps. The Advisory Group on Management (AGM) Chair, Mr. Iga, recommended that the result of the off-line meeting be reported in the IEC TC100 Plenary this week. The IEC TC100 Secretary, Mr. Ezaki, recommended the potential transfer of wireless power specifications from the Wireless Power Consortia to the IEC TC100 be discussed in the May 2012 AGS meeting planned for Dallas, Texas in the US.

6.4 Report of Study Session 4 (Smart grid, LVDC and energy efficiency): Mr. Inokuchi reported on possible areas for standardization: Smart Grid: home energy management systems (HEMS) monitoring consisting of remote user interface, remote access, and captioning). Additionally, he mentioned that HEMS coexistence/interoperability could be an area of potential standardization.

The harmonization of ECHONET/ZigBee/KNX and other approaches could be a part of these efforts and the inclusion of LVDC requirements for AV products, including connectors could also be included. Mr. Inokuchi recommended a brainstorming session be held the morning of Oct 28th for the members of the IEC TC100 SG3 Strategic Ad Hoc Group and the SG4 Strategic Ad Hoc Group. Please also see sections 5.2 and 5.3 of these minutes for further information.

(7.0) New Contributions

7.1 Multimedia equipment for electric vehicles (EV): Mr. Yoshio presented conceptual home systems and network structures for the electric vehicle which include: user interface, integration with AV equipment, power transmission, car navigation, heads-up display to provide safety and navigation information. Mr. Yoshio noted that information about electric vehicle charging processes can also present opportunities for standardization in the IEC TC100. Mr. Yoshio's presentation is in 100/AGS/463. The AGS agreed to start an AGS Study Session on multimedia equipment and systems for EV. The SMB document on this topic is SMB/4587/DC.

7.2 DRA audio recorder in a DTMB receiver: Mr. Iga reported that IEC TC100 TA1 discussed DRA audio recorder technology in the meetings held in Seattle, Washington in the US, October 2010. His report is in 100/AGS/469.

Mr. Iga noted that 100/AGS/469 will be presented and discussed in IEC TA1 and IEC TA4 in the Melbourne meetings, following the AGS, to consider standardization. An NP was suggested based on a presentation by Digital Rise, Inc., National Engineering Laboratory for Audio Technology; perhaps to publish a guide for implementing a DRA decoder in a DTMB receiver. GB/T 26686-2011, an existing standard in China, titled: "Framing Structure, channel coding and modulation" (published in the Chinese language) was mentioned. The target dates were estimated for March 2012 for the DRA Audio Recorder NP and the first CD: October 2012. The AGS confirmed that TA1 and TA4 should discuss how to deal with "Implementation guide to DRA audio decoder in a DTMB receiver" within the scope of TC100.

(8.0) Related activities

(8.1) Outreach: The Technical Secretary (TS) of TA10, Mr. Narui attended the Frankfurt Book Fair as part of IEC TC100 outreach activities. He participated in a standards panel at the: “Tools of Change Conference 2011” during which updates and forecasts for standards were given. Approximately 500 people attended, and the main participants were book publishers. The background is that in the 29th AGS meeting, the AGS asked that the TA10 expand external presence. His report is in 100/AGS/464. Other outreach activities include Mr. Narui’s presenting to a panel session at the International Digital Publishing Forum (IDPF) and “Apex Content Solutions.”

(9.0) Technical issues for liasionship

(9.1) ITU High Level Cooperation Meeting: The IEC TC100 leadership will participate in a meeting at the ITU in Geneva Switzerland on November 20, 2011. 100/AGS/465 provides the related information.

(9.2) Measurement Methods of Performance of IPTV Terminal Devices: A representative from the Korean Testing Lab (KTL) presented on IPTV terminals and requested a new work item proposal for performance testing and measurement. The potential topics include: Title: measurement methods of performance of IPTV Terminal Devices, power consumption, I/O, electromagnetic compatibility, reliability, and captioning. Mr. Komachi asked that the scope and title be aligned with TA12 and/or TA1 before proposing. The document is 100/AGS/466. The scope and title should also be modified to take into account the work already ongoing as the collection of Open IPTV forum standards. The documents for Open IPTV are 100/AGM/835 – 100/AGM/838.

(9.3) Smart TV: A presentation from Mr. Gingkun Gu on architectures to connect the home TV hub in a home network was given. The presenter described various service offerings in China today. Dr. Komachi requested that the presentation be refined to show how the services would overlap with IPTV and how they would differ with broadcast TV. Along with Mr. Iga, Dr. Komachi requested another presentation --- including recommendations about what should be standardized and activities already ongoing in the ITU-T, ITU-R, and ISO/IEC JTC1. The proposer plans to bring a new presentation along with an NP to the next AGS meeting. The document is in 100/AGS/467.

10. Meeting schedule

The next AGS meeting will be held May 15, 2012 in Dallas, Texas and will be hosted by the Consumer Electronics Association.

Annex A: Recommendations and agreed action items of the 30th meeting of the AGS

1. AGS thanks Mr. Ohtaka for his report, and requests him to show updated information for SMPTE activities, in particular, 3D cinema.
2. AGS thanks Mr. Inokuchi and Mr. M. Stelts for their reports on SG3 and SG4 respectively, and requests them to show updated information for those SGs.
3. AGS identifies the requirement for liasionship with TC 57/WG 21 and requests AGM to establish the liaison relationship.
4. AGS requests Study Session 1 to create a draft NP for terminology standard of 3D technology, and requests it to discuss a roadmap of quality measurement standard discussing with TA11.
5. AGS requests Study Session 2 to establish task group for SG5 of SMB, and requests updated reports clarifying TC100 standardizaion of AAL.
6. AGS requests Study Session 3 to hold a harmonizing meeting for establishing a stage-0 project to develop a TR on the proposed topics of Study Session 3.

7. AGS requests Study Session 4 to hold a brain storming session to discuss standardization strategy for the proposed topics of Study Session 4 and requests updated reports.
8. AGS identifies the requirement for standardization for multimedia equipment for electric vehicle and requests establishment of Study Session 5 appointing Mr. J. Yoshio as a leader of the session.
9. AGS requests TA1 and TA4 to discuss how to deal with "Implementing guide to DRA audio decoder in a DTMB receiver" within the scope of TC100.
10. AGS thanks Mr. Narui for his report on Tools of Change Frankfurt Conference 2011 and appreciates his TC100/TA10 technical exploitation campaign in the Conference.
11. AGS thanks Mr. Ezaki for his information on the 4th high-level adhoc meeting and requests him to encourage the coordination with ITU-T, JTC1, ETSI and CENELEC.
12. AGS requests Korean NC to modify the title, scope and contents of the proposal on IPTV(100/AGS466) to be consulted by TC100 Secretaries.
13. AGS requests Chinese NC to clarify the Smart TV technology from the TC100 standardization point of view and to submit the revised contribution to the next AGS meeting.
14. AGS expresses its appreciation to AU National Committee for handling arrangements of the AGS meeting.