



2011-04-27

INTERNATIONAL ELECTROTECHNICAL COMMISSION

TECHNICAL COMMITTEE TC100: Audio, video and multimedia equipment and systems

Meeting minutes of the third meeting of the Future Technology Task Group (FT-TG) meeting at AENOR in Madrid, Spain

1.0 Opening of the meeting by the Convenor

Dr. Mukai, FT-TG Convenor, called the meeting to order at 2011-04-25, 9:00 AM. Mikio.Mukai@jp.sony.com

2.0 Roll call and introduction of the participants (18 participants)

Convenor: Dr. Mikio Mukai, member

Members:

Jean Baronas
Ulrike Haltrich
Keith Jones
Shuichi Matsumura
Norimasa Minami
Yushi Komachi
Junichi Yoshio

Observers:

Tadashi Ezaki
Jon Fairhurst
David Felland
Hiroyuki Iga
Toshihiro Inokuchi
Jae-Young Lee
Yoshihisa Narui
Tsuyoshi Naruoka
Hironori Sakakihara
Zhang Subing

3.0 Adoption of the Agenda

The FT-TG reviewed and adopted the agenda (FT-TG 24).

4.0 Review of the meeting minutes held in Seattle, Washington

Dr. Mukai reviewed the Seattle minutes (FT-TG 20). The meeting minutes were accepted.

5.0 Review of the related documents from IEC/TC100 and AGS

FT-TG 09, prepared by Junichi Yoshio. This document shows a conceptual model of the next generation of multimedia system spanning up to 5 years (including IPTV). .

FT-TG 16, prepared by Junichi Yoshio. This is a new work item proposal that includes car, home, and TC100 multimedia interfaces including Internet, home systems, and mobile systems. The document lists the user communication structure and differences between legacy systems and standardization items. Also included is the present TC100 TA structure.

FT-TG 18, prepared by Yushi Komichi. This document suggests future standardization of personalized information interchange.

FT-TG 19, prepared by Junichi Yoshio. This is a case study of AV system progress. The document shows the history and changing trends for storage, camera, TV, flat panel display, and images of the latest AV system. It shows the home as highly equipped with highly functional wireless.

FT-TG 21, IEC white paper "Coping with the Energy Challenge".

6.0 Contributions to the FT-TG

6-1 Progress Report

Convenor, Dr. Mukai reviewed the Progress report FT-TG 23.

7.0 Other contributions

7.1 FT-TG 25 by Ulrike Haltrich which contains descriptions of DKE projects. Germany will develop a roadmap for standards, inventory of activities, and recommendations. The goal is to develop reports and a framework for standards.

1 – Project AAL (ambient assisted living)

-Based on demographics, the number of older people (forecasted to 2050) who are 60 years of age are significantly increasing.

-EU Commission objective as well as of the German regulators is to reduce health care costs and keep people living in their homes, regardless of their age. This project will look at technology improvements, i.e., hardware, sensors, and data. Other topics: smart homes, home service interfaces, and an open platform for AAL.

-The DKE task group is defining their scope.

NOTE: Minami reported that SMB may establish SG5 on AAL, based on the DKE proposal. The question becomes "should the TC100 develop a new TA for this?" Ulrike recommended to wait to see if more new work item proposals are introduced.

2-e-Mobility

This project is to meet consumer expectations to connect to the internet from cars and to define the framework for e-Mobility standards development. German Standards Organizations, car manufacturers, trade associations, and regulators are involved. The eMobility roadmap developed by DKE is available for download at, www.vde.com/E-Mobility-Roadmap

7.2 FT-TG 26 by John Woodgate which contains the review comment for FT-TG 23 (FT-TG Progress Report). The comments relate to the loud speaker issue and hearing aid / collecting sound aid issues. These topics are discussed and taken into account by the FT-TG discussion of recommendations to the IEC TC100 AGS.

7.3 FT-TG 27 by Jon Fairhurst which contains a Report on Display Efficiency. IEC 62087 explains how to measure power consumption, based on manufacturers' default settings and typical TV content. Jon Fairhurst recommended that the IEC TC100 AGS consider energy efficiency measurement techniques for emissive and backlit displays with consideration for power and picture quality. A test pattern would be discussed later. The FT-TG discussed the practicalities.

8.0 FT-TG Recommendations to the IEC TC100 TA12

The FT-TG recommends the IEC TC100 TA12 consider 8.1 – 8.7.

8.1 “Rec. 8.2.8 – Use of an applications rather than product oriented approach” [Related to TA12]

“The MSB recommends that the SMB to ensure that the standards giving preferred electrical-energy-efficient solutions go beyond a simple product approach and consistently adopt a real application perspective. This will involve keeping in mind the global effects desired (e.g. for EEE), the functioning of the systems in which the products are integrated in practice, and in some cases revisiting current product standards once new standards for systemic solutions (“service” in terms of Figure 8.1) are in place.”

8.2 “Rec. 8.2.10 – Best practices for electrical energy management” [Related to TA12]

“The MSB recommends the IEC to develop standards for best practices in electrical energy management. They should not be based on products or individual installations but on the whole systems involved, and be built around the services to be delivered and the goals for energy efficiency and GHG reduction.

8.3 Smart Grid

The FT-TG recommends TA12 to study the possible standardization area and develop the standard in this area. (See the MSB document (Coping with the energy challenge). Some of the key words which might be related with TC100 are such as Data format, telecommunication protocols, interface for the controller and application products for HEMS (home energy management system). [fits into TA12]

8.4 Smart Home

The FT-TG recommends TA12 to study the possible standardization area and develop the standard in this area. (See the MSB document “Coping with the energy challenge.” [fits into TA12]

8.5 Energy saving technologies including reduced stand-by losses

The FT-TG recommends TA12 to study the possible standardization area and develop the standard in this area. (See the MSB document (Coping with the energy challenge). [fits into TA12]

8.6 Measurement system(s) for energy efficiency for LED back light

The FT-TG recommends that, in liaison with IEC TC110, the TA12 to study the total system approach. This can include video display systems’ power usage and luminous efficiency for typical use cases.

8.7 Measurement system(s) for speaker and video recorder energy efficiency

The FT-TG recommends that the TA12 study this possible standardization area and develop the standard in this area.

-Assumption: this include loudspeaker (need to include the entire system of the speaker and the components)

-Assumption: this includes video recorders

9.0 FT-TG Recommendations to the IEC TC100 AGS

The FT-TG recommends to the IEC TC100 AGS to take care of the following standardization issues which including priorities: a. near term – as fast as possible, b. middle term, and c. longer term.

(a.) Near Term

(a.1) Battery and charging related issues (relates to TA 13 and TA14)

Battery charger, mobile phone charger, multimedia, and chargers related to automobile
-Example documents include: ITU-T SG5 L.1000 (general profile for electric vehicle charger)
-Contactless Power Transmission to consumer electronics and electric vehicles

(a.2) TV, games, 3D audio, 3D video, 3D glasses

The FT-TG recommended that an AGS study group be established on the possible topics.

(a.3) Cloud computing

(a.4) Functional light application

Multimedia API for Networking

Ex. Android API, html5

Illumination, LED communication

(a.5) Power line communication (PLC)

IEEE,ITU, and JTC1/SC6 related issues

(a.6) Network-related issue

Ambient intelligence

IPTV

Twitter (now only character, but it will shift to rich contents, messaging by individuals, and other Twitter applications such as short word message, Mixy etc.)

(a.7) Hearing aid and collecting sound aid

any issues related with multimedia or CE
AAL (ambient assistant living)

(a.8) Measurement system(s) for digital amplifiers (low power/appeal could be emphasized)

(a.9) External power supplies and battery chargers (to potentially cover more than for computers; the work should be "more general")

MT61998

(b.) Middle Term

(b.1) Mobile-related issues

- Remote and mobile access to multimedia and applications (Tablet Computer, iPad, iPhone, smart phone, Android, etc.)
- Application to Remote Controller
- Controller of PC
- Remote controller of TV
- Personalized information interchange
- Personal databases
- Application of mobile phones: health care, i.e., blood pressure measurement
- Mobile identification and payment application ->MT61998

(b.2) Copyright, DRM (Digital Right Management), Law- related issue (TA8?)

(b.3) Internet radio, storage, and web service, etc.

(c.) Longer term:

(c.1) Car etc., related issue including car navigation

- User interface and data formats
- Travel hysteresis which in the future, could be a mobile application
- Google™ map (location information between the network and individuals)
- Electric Vehicle (EV), note: some ETSI standards exist
- Electronics, in general, in the automotive field
 - MT61998

(c.2) Interaction with the Digital Signage

- Individuals' preferences
- Adaptive advertisement (user requirements)
- Feedback from the application programming interfaces (from the user/customer)
- Sensing over a short distance
- Guessing "algorithm" of the age of an individual based on information of the face

(c.3) Bicycle navigation, including power assist

(c.4) Multimedia for ship and Maritime related use

(c.5) Error correction for multimedia (include redundancy considerations, basic concepts, and models)

(c.6) Security (Security 2010 crisis from the U.S. Department of Commerce /National Institute of Standards and Technology – NIST, as multimedia considerations)

(c.7) Flat panel display components

(c.8) Application side of high-voltage systems

(c.9) Intelligent sensors (including automated sensors and controls)

(c.10) Waterproof->Anti environment and daily use resistant to water

(c.11) Safeguard mechanism from the accidental use, such as keyboard lock from animals walking

10 Closing of the meeting

The Convenor closed the meeting at 2011-04-25, 12:05 pm.