

Report of SS 8 Wearable Systems & Equipment Stage 0 project on use cases

AGS Meeting
Minsk, 5 October 2015
Ulrike Haltrich, Junichi Yoshio, Co-project leaders SS 8

IEC SG 10 Wearable Smart Devices

- ▶ SMB Decision I53/I2 – ahG 56 now Strategic Group SG 10 –Wearable Smart Devices
- ▶ SG 10 Scope:
 - ▶ Terminology and agreed understanding of WSD
 - ▶ Market needs
 - ▶ Inventory of activities within IEC
 - ▶ Inventory of activities outside IEC
 - ▶ Priorities of work
 - ▶ Coordination of activities within IEC
- ▶ NCs and TCs nominated the following convenors and members:
 - ▶ Co-convenors Sungkyu Park (KR) and Tadashi Ezaki (JP)
 - ▶ TC 100 liaison Ulrike Haltrich
 - ▶ Nominations have been received from: CN, DE, IT, JP, KR, US, TCs 47, 91, 100, 101, 106, 108, 110, 111 and 119
- ▶ First Meeting 3 to 4 November 2015, Seoul

Summary of Milan Meeting

- Continue to progress the work in a stage 0 project under TC 100 (PT 100-10)
- Launch NP for hearing support function
- Investigate NP for power supplying scheme
- Collect use cases for health, wellness and fitness as well as car applications

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Next PT 100-10 Meeting on 8 October, Minsk

- ▶ Report of SG10 Smart Wearable Devices (T. Ezaki)
- ▶ Use Case Study of Japan NC (J.Yoshio)
- ▶ Use Case Study of Korea (Prof. Y. Kim)
- ▶ Update wearable standardization activities in other regions (US, all)
- ▶ JTC 1 SC 29 Wearables trend report (K. Grant)
- ▶ Wearables user comfort and evaluation (U. Haltrich)
- ▶ NP for hearing support function (J.Yoshio)
- ▶ NP energy harvesting (J.Yoshio)

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Wearable use cases remote monitoring

- ▶ While mobile applications of **remote monitoring** will continue growing beyond 2020, other applications such as **remote treatment** will emerge.
- ▶ Such applications will include several devices, like sensors, e.g., for electrocardiography (ECG), pulse, blood glucose, blood pressure, temperature.
- ▶ The monitoring applications, including the surveillance of user's remotely.
- ▶ Depending on the user's device, treatment reactions may be required that are based on monitored data, and these should be immediate and (semi-)automatic.
- ▶ Identity, privacy, security and authentication management must be ensured for each device.
- ▶ Source: NGMN 5G Whitepaper, February 2015

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Smart wearables measure vital signs

- ▶ A number of ultra-light, low power, waterproof sensors will be integrated in people's clothing. These sensors can measure various environmental and health attributes like temperature, heart rate, blood pressure, body temperature, breathing rate and volume, skin moisture, sleep quality, etc.
- ▶ This system can detect emergencies like heart attacks or upcoming depression bouts and is then able to activate an emergency call and give first aid advices to the user.
- ▶ The system also includes a reminder function for medical measurements (blood values) and is able to control some home automation functions like lighting control and wake up calls.
- ▶ A key challenge for this use case is the overall management of the number of devices as well as the data and applications associated with these devices.
- ▶ Source: NGMN 5G Whitepaper, February 2015

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IEC 62559-2 Use Case Template

1 Description of the use case

1.1 Name of use case

ID	Area/ Zone(s)	Domain(s)	Name of use case	Use case identification

1.2 Version management

Version No.	Date	Name of author(s)	Changes	Approval status

1.3 Scope and objectives of use case

Scope Objectives(s)	Related business case(s)

1.4 Narrative of use case

Short description	Narrative of use case

1.5 Key performance indicators (KPI)

ID	Name	Description	Key performance indicators	Reference to mentioned use case objectives

1.6 Use case conditions

Assumptions	Use case conditions

1.7 Further information to the use case for classification/mapping

Relation to other use cases	Classification information

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Priority

General remarks

Diagrams of use case

3 Technical details

3.1 Actors

Grouping	Actor name	Actor type	Actor description	Further information specific to this use case

3.2 References

No.	References type	Reference	Status	Impact on use case	Originator/organisation	Link

4 Step by step analysis of use case

4.1 Overview of scenarios

No.	Scenario name	Scenario description	Primary actor	Triggering event	Pre-condition	Post-condition

4.2 Steps - Scenarios

Scenario name	No.	Step	Step description	Service	Information producer/detector	Information receiver/detector	Information exchange/IDN	Required media/IDN

Announcement of AAL Workshop



How to cope with aging society

Workshop on Active Assisted Living Standardization

Tokyo, Japan, 18 November 2015



Based on the discussion from the Systems Committee AAL

The workshop will explore the IEC's potential contributions for developing international standards to support and improve the quality of life for aging populations and others facing physical challenges worldwide.

In response to increasing worldwide concerns relevant to aging populations, in October 2014, the IEC established a System Committee (SYC) on Active Assisted Living (AAL) to tackle the challenges of improving the overall quality of life for the elderly or people with disabilities by developing appropriate and relevant international standards. As part of ongoing activities of SYC-AAL, the Japanese National Committee organizes the workshop on AAL. In order to address these concerns and to raise awareness for all business fields regarding the IEC's potential contributions on this issue, participants are encouraged to share their views during the discussion time. Simultaneous translation will be provided through the all sessions of workshop.

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The workshop will open at 13:30 and close at 17:20. The registration will be opened from 13:00

Registration	13:00
Opening and welcome	13:30
Japanese Industrial Standards Committee (JISC) Ministry of Economy, Trade and Industry of Japan (METI)	
Keynote address 1	13:35
What is "EC System Committee AAL"? Mr. Ulrich-Hariton, IEC/IOE-AAL Chair	
Keynote address 2	14:05
Social needs and standardization on AAL in Germany Jenny Laurita-Gursh, DKE	
Break	14:35
Case studies from Japan addressing an aging society	14:45
Housing equipped for the use of the elderly people MISAKI HOMES (TBC)	
Wearable technology to support the life of elderly people Mr. Junichi YOSHIO, Japan Electric and Information Technology Industries Association (JEITA)	
Standardization for Enhanced Terminal Accessibility (ETA) and its future challenges Mr. YOSHIZAKU YORIMOTO, Japan IC Card System Application Council (JICASP)	
R&D and Standardization for an aging society in Japan Dr. Hajime YAMADA, Toyo University	
Break	16:15
Panel discussion, Q&A	16:20
How could standardization contribute to an aging society? All the speakers, Chair: Dr. YAMADA	
Closing remarks	17:15
End of the workshop	17:20

Venue
Grampark Plaza (3-4-1, Shibaura, Minato-ku, Tokyo, Japan)
Hall 401 on the 4th floor

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