

Wearable Systems and Equipment Report of Study Session 8

Ulrike Haltrich, Junichi Yoshio co-study session leaders
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Study Session 8
Wearable Systems and Equipment

Report of SMB AhG 56

- In response to SMB decision 151/15, ahG 56 *Wearable Smart Devices* was established.
- Task was to review all current activity in the IEC in this area and to list the needs for further standardization and coordination activity with proposals on how this may be carried out.
- AHG 56 to report back to SMB 153 in June 2015
- 12 TCs contributed to two web meetings
- Wearable smart devices have existed for some time and are within scope of existing TCs eg hearing aids, pacemakers
- Result of discussion:
 - Formalize liaison group between TCs/SCs already working in WSD area in a type of "management" group with experts from different TCs
 - Each TC/SC to continue with current and future work related to wearables
 - Develop a common terminology for WSD (in body, on body and near body). A starting point might be an IEC WSD guide.
 - SMB should establish closer cooperation with external SDOs as the future WSD work is horizontal and also developers should be invited

Presentations

- **Definitions, Use Cases, Guidelines (U. Haltrich)**
 - Proposal to TC 100
 - Define wearables within scope of TC 100
 - Define wearables related definitions and taxonomy
 - Define use cases and user requirements related to health, wellbeing and fitness incl. technical requirements
- **MPEG activities related to wearables (K. Grant) incl. liaison request**
- **Requirement for hearing support function (J. Yoshio)**
 - NP hearing support systems expected
- **Presentation on wearable equipment and power supply (J. Yoshio)**
 - New application is charging device when being worn e.g. solar cell, peltier element and secondary battery
 - Opportunity to develop an NP of power supplying scheme for wearable systems and equipment

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How to progress work in TC 100

- Need to collect a variety of use cases (AAL, car, home)
- Does it need a new TA, or stage 0 project or allocate parts to different TAs
- Continue to progress the work in a stage 0 project under TC 100
- 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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