

AGS Study Session 5 Report and Proposal

on 2013.6.5
in London
at AGS
by J. Yoshio/SS5 leader

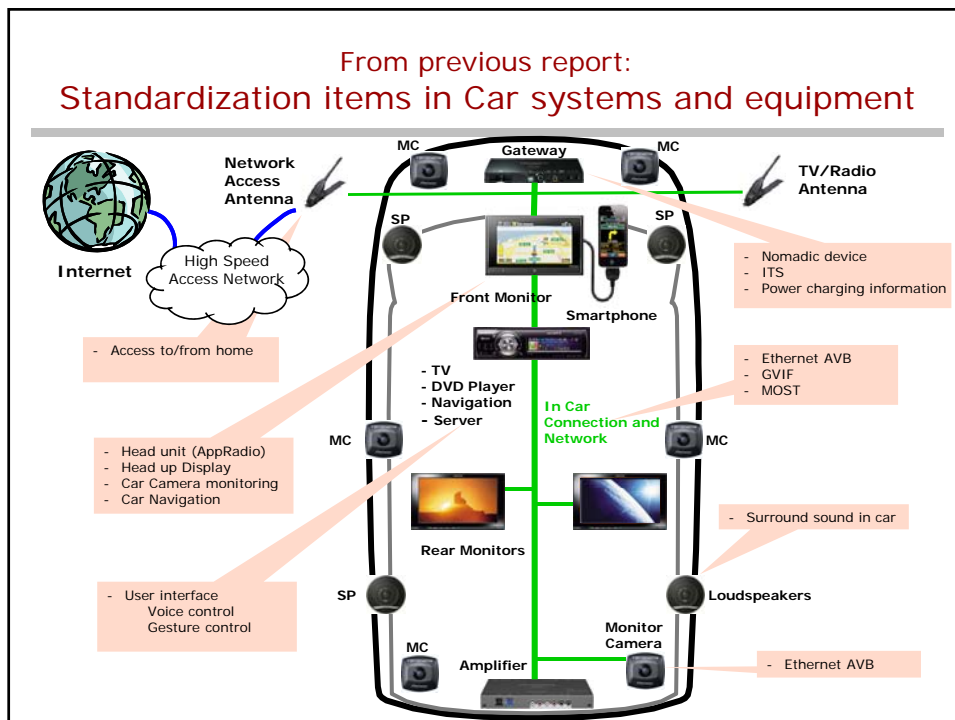
Study

- AGS in October 2012
 - AGS recommendation was;
 - AGS requested SS5 to hold an ad-hoc meeting to expand the discussion by international members for the TC100 strategy on multimedia technology for EV.
- After that,
 - Japanese mirror group of SS5 continued to study.
 - Yoshio requested AGS members to input to the next AGS (this AGS), any issue regarding SS5 in each member's country.

Japanese SS5 study report

1. Standardization item

- Previous report
 - There might be many items regarding car to be standardized in TC100 in the future.
 - *Not only for "car navigation" and "network in car".*
 - *However some possible items have already been de facto or private specification and applied to car products.*
 - *Need study what to be standardized in TC100.*
 - Home or mobile AV&IT equipment is used in car as it is.
 - *Some of them are not intended to be used in car circumstances, maybe need specifications for using in car.*



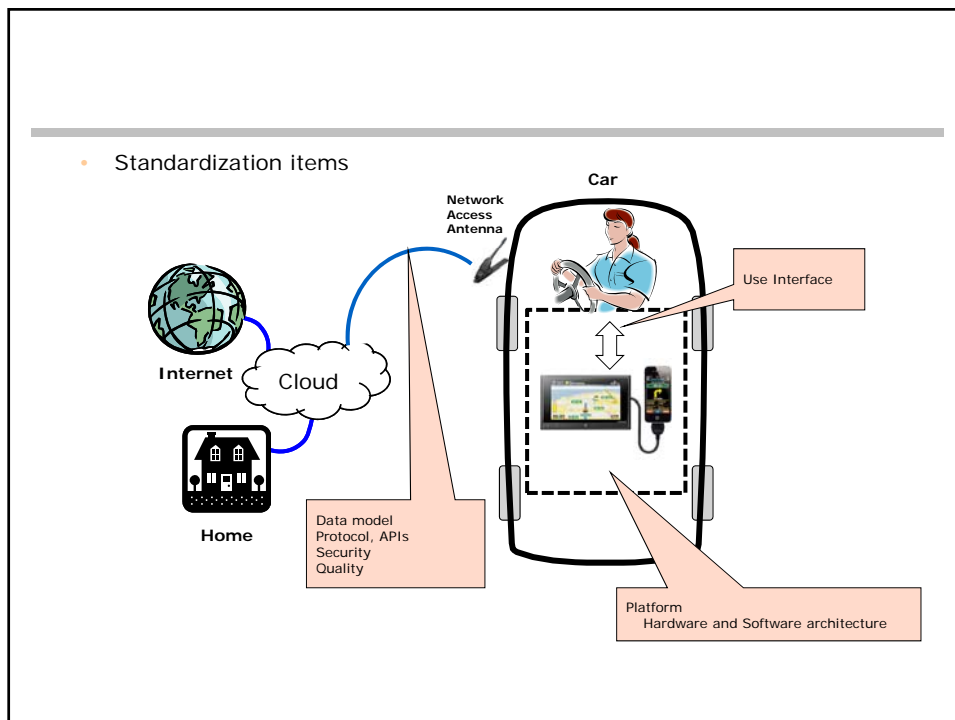
- Result
 - Among these items, to be standardized at first is;
 - Information service system model for car

Result details

- Information service system for car
 - There are many kind of information services for car, they base on car navigation. Regarding infotainment of TC100, information service uses IT technologies whether network is ITS, mobile network or Internet.

System and service	Outline	Situation
Car navigation system + network service Car navigation Internet, ITS service	<ul style="list-style-type: none"> • Now and past popular system • Map data is offline or downloaded by PC • No network capability is majority 	<ul style="list-style-type: none"> • Product range is broad, from popular to high end • Popular product becomes inferior to Smartphone
Internet based system with Smartphone Car navigation Internet services	<ul style="list-style-type: none"> • Smartphone base is major than dedicated system • Smartphone extension system – DisplayAudio, EyesFree and etc • Web technologies can be run on Smartphone, e.g. Server 	<ul style="list-style-type: none"> • Major companies provide services such as map, traffic and etc
ITS based system Car navigation ITS services	<ul style="list-style-type: none"> • Each country has their own infrastructure and system bases on that • Affinity with infrastructure of transportation system 	<ul style="list-style-type: none"> • Merit with infrastructure

- Internet based system with smart phone will be a major system.
 - De facto Internet service entity is popular in global
 - On the other hand, regional or dedicated services needs their own system
 - For instance;
 - ITS based service
 - Traffic probe information at earthquake in Japan
- To promote various information service, the standardized platform and network is important
 - Many new service will appear based on the standardized system, no need to apply to each dedicated system.
 - IEC needs collaboration with Internet and network SDOs such as IETF, W3C and etc.
 - IEC standard is international standard and open



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- Proposal: Stage 0 for making Technical Report,
Title: Information service system model for car
 - System model
 - Hardware
 - Software
 - Data model
 - Protocol, API
 - User Interface
 - Security
 - Quality
 - ✓ Liaisons for this work item may be,
 - ✓ ITU-T, ISO, IETF, W3C

2.Related SDO

- Previous report
 - There are some standards made by other organization than TC100, they will affect existing or future TC100 standard.
 - *Nomadic device (CAN gateway): ISO TC204*
 - *Data interface in power charging line: IEC TC69*
 - *ITS devices, system: ISO TC204*
 - Existing TC100 standard is used by car system.
 - *Ethernet AVB (IEEE) will be the core specification of AV interface protocol in car, AVB applies IEC 61883-1 to 8 (TA4).*
 - *Unofficial agreement between AVB and SS5 Yoshio, the liaison will proposed at TA4 meeting.*
 - *IEC 61883-8 is used for car camera video signal transmission.*
- Result
 - Liaison between TA4 and IEEE 1722 was established
 - Having Japanese ISO TC204/WG11 group relation

- **Proposal**

Start Stage 0 project for,

- Technical Report: Information service system model for car

This Stage 0 includes Survey and Call for requirement

- Survey for car multimedia
 - To research demands and needs for car multi media system, CfR and survey questions are circulated to AGS member and P member countries
 - Including a specific CfR regarding Information service system