# Collaboration on ITS Communication Standards

## 17 December 2012, Washington, DC, United States of America

### Meeting report

1. **Introduction**

The meeting of the Collaboration on ITS Communication Standards (“Collaboration”) took place on 17 December 2012 at AutoAlliance in Washington, DC, USA.

Russell Shields of Ygomi LLC chaired the meeting.

The intent of the Collaboration is to provide a globally recognized forum for the creation of an internationally accepted, globally harmonized set of ITS communication standards of the highest quality in the most expeditious manner possible to enable the rapid deployment of fully interoperable ITS communication-related products and services in the global marketplace.[[1]](#footnote-1)

1. **Opening of meeting, introductions and adoption of the agenda**

The Chairman welcomed the participants (15 on-site, 4 remote; the final list of participants is reproduced in [Doc 005](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20121217-Washington/005%20-%20List%20of%20Participants.pdf)) and thanked the Alliance for hosting the meeting. A short *tour de table* was held and participants introduced themselves.

The agenda as approved by the meeting is reproduced in [Doc 001](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20121217-Washington/001%20-%20Draft%20agenda.docx).

1. **Incoming documents and updates**

Walton Fehr (U.S. Dept. of Transportation) sent his regrets and will introduce the Connected Vehicle Test Bed in a future meeting. In his absence, the delegates briefly discussed a related slide deck available at <http://www.its.dot.gov/itspac/october2012/PDF/V2V%20Security%20Research%20Update%20-%20MShulman%20-Oct%202012.pdf>.

**Action Yushi Naito:** Send this presentation material to ITU-T Study Group 17 (security) for comments and suggestions, e.g., on how to design a graceful evolution of secure ITS communications infrastructure (slides 7-9), on risk assessment (slide 10) and any next steps to be considered. The next SG17 meeting will take place in Geneva, 17-26 April 2013.

Paul Najarian (U.S. Dept. of State) provided a comprehensive overview of ITS radiocommunications priorities in the run-up to World Radiocommunication Conference 2015 ([WRC-15](http://www.itu.int/en/ITU-R/conferences/wrc/2015/Pages/default.aspx)); In particular, Work Items [1.1](http://www.itu.int/ITU-R/index.asp?category=study-groups&rlink=rcpm-wrc-15-studies&lang=en#{C4B1254B-0A2F-4AED-9668-3D91F9613047}) (spectrum allocations to the mobile service on a primary basis and identification of additional frequency bands for International Mobile Telecommunications (IMT); the use of the 5,850-5,925 MHz) and [1.18](http://www.itu.int/ITU-R/index.asp?category=study-groups&rlink=rcpm-wrc-15-studies&lang=en#{45F35DE3-375C-4A7D-9731-F2B92F8083E3}) (radiolocation service for automotive applications in the 77.5-78.0 GHz frequency band). He pointed out options for the private sector to input to these WRC-15 Agenda Items through the [FCC’s Wireless Advisory Committee (WAC)](http://www.fcc.gov/encyclopedia/world-radiocommunication-conference-wrc-15) which provides an open and transparent process for the industry to submit its views and proposals regarding these Agenda Items. The corresponding informal WAC working groups are [IWG-1 for Agenda Item 1.18](http://www.fcc.gov/encyclopedia/iwg-1-maritime-aeronautical-and-radar-services) and [IWG-2 for Agenda Item 1.1](http://www.fcc.gov/encyclopedia/iwg-2-terrestrial-services). Paul also mentioned the [international automotive 79 GHz frequency harmonization initiative](http://79ghz.eu/) which recently held a workshop at ITU in Geneva.

1. **ITS Communications Requirements Document**

On behalf of TTC Japan, Yushi Naito presented [Doc 002r1](http://staging.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20121217-Washington/002r1%20-%20Proposal%20of%20revised%20ITS%20Services%20Map.zip), a proposal for a revised map and categorization of ITS applications based on the societal needs they cater for and the benefits they achieve.

The following discussion addressed these issues:

* The role of E2E tracking of goods is considered an important ITS-related issue for many countries. Organizations such as ICAO, IMO and other relevant stakeholders should be involved in aviation and maritime issues to avoid duplication of work. It was recognized to potentially include this issue in the future if capacities are available.
* ITS applications related to **public transit** / train traffic are missing in the map and need to be added.
* “Information services to the public” such as **pre-trip planning** are societal services that should be considered in the map.
* **Public safety applications / applications for first responders, police, fire, ambulance** (in addition to the disaster communication and management) should be considered for inclusion. Public Protection and Disaster Relief (PPDR) is a category covering both kinds of applications.
* The inclusion of other “commercial applications” should be further discussed.

Participants recommended that the technological practicalities of the chosen categories be reviewed, and commonalities and core elements be identified. In addition to societal value, time and technology were proposed as additional overlays to categorize ITS applications. **Volunteers are invited to further think about this and come forward with proposals.**

It was noted that the outcome of this exercise would serve as a comprehensive overview of ITS applications, and also be a valuable input to other forums, such as the United Nations Road Safety Collaboration ([UNRSC](http://www.who.int/roadsafety/about/en/)).

**Action TTC:** Review and update the map. The revised map should be sent to Collaboration participants to allow for written inputs and comments well in advance to the next meeting (Beijing, 21‑22 March 2013).

**Action Yushi Naito:** Identify existing ITU-T work on Public Protection and Disaster Relief (PPDR), e.g., communication for police, fire brigade ambulance, etc.

Yushi Naito presented [Doc 003](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20121217-Washington/003%20-%20Proposal%20of%20the%20use%20case%20studies.docx), which includes a draft table of contents for a use cases report. According to the contribution, TTC plans to populate the table of contents with corresponding use cases, in particular, addressing societal services enabled by ITS. Participants noted that the appropriate terminology for “Vehicle / ITS Station-to-Infrastructure” types of communications is “Vehicle-to-Infrastructure” (V2I).

**Action TTC:** Start including use cases for review and discussion at the next meeting (Beijing, 21‑22 March 2013).

[Doc 004](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20121217-Washington/004%20-%20References%20to%20V2I%20standard%20SAE%20J2735%20and%20additions%20to%20section%202_1.zip) submitted by Jim Frazer was briefly reviewed in his absence. It was agreed to include references to SAE J2735 in the requirements document as appropriate. Participants noted that clarification is needed regarding the communications requirements of “management of electric vehicles and electric vehicle charging spots” and “Integration to the Smart Grid”.

**Action Drafting Team:** Include SAE J2735 in requirements document.

**Action Jim Frazer:** Clarify contribution with respect to the communications requirements of “management of electric vehicles and electric vehicle charging spots” and “Integration to the Smart Grid”.

1. **Standards gap analysis based on ITS communications requirements**

The ITS communication standards gap analysis is closely interlinked with a complete requirements document.

1. **Update of Terms of Reference and list of work items**

Participants are invited to review and comment on the [list of work items and the text describing the items](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/ToR/Archive-obsoleted-work-items/Work%20Items%20%28v120403%29.docx).

1. **Collaboration management**

No updates to report.

1. **Next meetings**

It was proposed to allocate more time for drafting in future meetings to make progress with the deliverables.

The following meetings are planned in 2013 to advance the work and submit results for the review of SDOs involved in ITS communication standards:

* **21-22 March 2013, Beijing, China, hosted by CCSA**
* 28 June 2013, Geneva, Switzerland (preceded by a joint ITU/UNECE workshop on 27 June; and a “working meeting” to advance the deliverables planned for 25-26 June)
* [20-22 August 2013, North America (tbc)]
* [12-13 October 2013, Tokyo, Japan (tbc, in conjunction with [ITS World Congress](http://www.itsworldcongress.jp/) and ISO TC 204)]

Other upcoming events related to the work of the Collaboration include:

* 6-7 March 2013, Geneva, Switzerland: [The Fully Networked Car Workshop](http://www.worldstandardscooperation.org/fnc2013.html)
* 17 May 2013, Geneva, Switzerland and worldwide: [World Telecommunication and Information Society Day](http://www.itu.int/en/wtisd/Pages/default.aspx). Theme in 2013 is “ICTs and Improving Road Safety.”

Also see Annex 1.

**Action ITU/TSB:** Beijing meeting information and logistics to be posted ASAP.

1. **Any other business**

None.

1. **Close of meeting**

The Chairman thanked the participants for all the discussions and the host AAM for providing excellent meeting facilities.

The meeting closed at 5:40pm local time.

### List of new actions

**Action (1), Yushi Naito:** Send this [ITS communications security-related] presentation material to ITU-T Study Group 17 (security) for comments and suggestions, e.g., on how to design a graceful evolution of secure ITS communications infrastructure (slides 7-9), on risk assessment (slide 10) and any next steps to be considered. The next SG17 meeting will take place in Geneva, 17-26 April 2013.

**Action (2), TTC:** Review and update the [ITS services] map. The revised map should be sent to Collaboration participants to allow for written inputs and comments well in advance to the next meeting (Beijing, 21‑22 March 2013).

**Action (3), Yushi Naito:** Identify existing ITU-T work on Public Protection and Disaster Relief (PPDR), e.g., communication for police, fire brigade ambulance, etc.

**Action (4), TTC:** Start including use cases for review and discussion at the next meeting (Beijing, 21‑22 March 2013).

**Action (5), Requirements Drafting Team:** Include SAE J2735 in requirements document.

**Action (6), Jim Frazer:** Clarify contribution [[Doc 004](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20121217-Washington/004%20-%20References%20to%20V2I%20standard%20SAE%20J2735%20and%20additions%20to%20section%202_1.zip)] with respect to the communications requirements of “management of electric vehicles and electric vehicle charging spots” and “Integration to the Smart Grid”.

**Action (7), ITU/TSB:** Beijing meeting information and logistics to be posted ASAP.

### Pending and ongoing action items from previous Collaboration meetings

**Requirements Drafting Team:** see Action 4 in [report of Vienna meeting](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20121028-Vienna/008%20-%20Meeting%20report.docx).

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## Annex 1 – Upcoming ITS (standards) related events

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| --- | --- | --- | --- | --- |
| Date | Title | Venue | Organizer | Website |
| 5-6 Feb 2013 | ETSI ITS Workshop | Vienna, Austria | ETSI | <http://www.etsi.org/ITSWorkshop>  |
| 6-7 Mar 2013 | The Fully-Networked Car at Geneva Motor Show | Geneva, Switzerland | IEC/ISO/ITU | <http://www.worldstandardscooperation.org/fnc2013.html>  |
| 21-22 Mar 2013 | Collaboration on ITS Communication Standards | Beijing, China | Collaboration | <http://itu.int/en/ITU-T/extcoop/cits/> |
| 25-28 Jun 2013 | UNECE WP.29 | Geneva, Switzerland | UNECE | <http://www.unece.org/trans/main/welcwp29.html>  |
| 27 Jun 2013 | ITS in emerging markets – drivers for safe and sustainable growth | Geneva, Switzerland | ITU/UNECE |  |
| 28 Jun 2013(plus work meeting on 25‑26 Jun 2013) | Collaboration on ITS Communication Standards | Geneva, Switzerland | Collaboration | <http://itu.int/en/ITU-T/extcoop/cits/> |
| 20-22 Aug 2013 (to be confirmed) | Collaboration on ITS Communication Standards | North America | Collaboration | <http://itu.int/en/ITU-T/extcoop/cits/> |
| 12-13 Oct 2013(to be confirmed) | Collaboration on ITS Communication Standards | Tokyo, Japan | Collaboration | <http://itu.int/en/ITU-T/extcoop/cits/> |
| 14-18 Oct 2013 | ITS World Congress | Tokyo, Japan |  | <http://www.itsworldcongress.jp/>  |

*Updates highlighted. Please also see calendar of Meetings related to ITS standardization maintained by ESF GmbH,* [*http://calm.its-standards.eu/Public/Meetings.html*](http://calm.its-standards.eu/Public/Meetings.html)

1. Collaboration website, <http://www.itu.int/en/ITU-T/extcoop/cits/> [↑](#footnote-ref-1)