# Collaboration on ITS Communication Standards

## 7 March 2014, Geneva, Switzerland

### Meeting report

1. **Introduction**

The meeting of the Collaboration on ITS Communication Standards (“Collaboration”) took place on 7 March 2014 at ITU headquarters, Geneva Switzerland.

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**

Russ Shields welcomed the participants (14 on-site, 1 remote; the final list of participants is reproduced in [Doc 010](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201403-Geneva/010%20-%20List%20of%20Participants.pdf)) and gave introduction to the objectives of the Collaboration (see [website](http://www.itu.int/en/ITU-T/extcoop/cits/)).

The agenda approved by the meeting is reproduced in [Doc 001](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201403-Geneva/001%20-%20Draft%20agenda.docx).

*NOTE – Isabelle Lantelme requested to put the matter of her participation in ITU-T Study Group 12 on the agenda. This not being a Collaboration work item, the meeting asked her to address her questions to the management team of ITU-T Study Group 12. The Rules of Procedure of the ITU Telecommunication Standardization Sector are laid out in WTSA Resolution 1 (Dubai, 2012).*

1. **Review of past actions**

The list of open actions ([Doc 002](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201403-Geneva/002%20-%20Review%20of%20open%20actions.docx)) was reviewed. The following updates and comments were made:

Tokyo(2013)#1:

* Russ will contact the new ISO TC22 and TC204 management and Scott will approach the new ETSI TC ITS chairman to discuss the possibility of a webinar / information exchange. New action item.
* Action (1) Russ Shields and Scott Pennock: Contact the chairmen of ISO TC22 (Russ), ISO TC204 (Russ) and ETSI TC ITS (Scott) to discuss the possibility of a webinar / information exchange

Tokyo(2013)#2:

* TTC addressed the importance of ITS safety communications for vulnerable road users in its gap analysis document ([Doc 005](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201403-Geneva/005%20-%20Gap%20Analysis%20for%20Collaboration%20on%20ITS%20Communication%20Standards.zip), see discussion below). The item can be removed from the list.

Tokyo(2013)#3 and #4:

* Information material has been sent to SG17 in November 2013. SG17 vice chair presented the reply ([Doc 003](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201403-Geneva/003%20-%20CITS_LS106%28SG17%29.doc), see below). The item can be removed from the list.

Geneva(2013)#1:

* Sergio Buonomo of ITU’s Radiocommunication Bureau thanked participants for their input. He informed participants about the recent publication of Recommendation ITU-R M.2057-0 (“[Systems characteristics of automotive radars operating in the frequency band 76-81 GHz for intelligent transport systems applications](http://www.itu.int/rec/R-REC-M.2057-0-201402-I/en)”) and the progress made toward a preliminary draft Recommendation ITU-R M.[V2X] (“Radio interface standards of vehicle-to-vehicle and vehicle-to-infrastructure communications for intelligent transport systems applications”). The item can be removed from the list.

Geneva(2013)#7:

* Edoardo Gianotti of UNECE’s Transport Division gave an update on that issue (see below). The item can be removed from the list.

Geneva(2013)#10:

* ITU/TSB is in the process of reviewing the improvements made on the wording of the [working procedures](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120626-Munich/006%20-%20Draft%20working%20procedures.docx).

Beijing(2013)#1:

* Kevin Li gave an update on high priority ITS applications in China (see below). The item can be removed from the list.

Washington(2012)#6:

* New action item.
* Action (2) ITU/TSB: Solicit input and updates from Jim Frazer (ITS and smart grids) and Qualcomm (EV charging, wireless charging)
1. **Review of ITU Symposium on The Future Networked Car**

Reinhard Scholl (ITU) presented the outcome of the Future Networked Car event, which took place on 5-6 March 2014 at Geneva Motor Show ([Doc 007](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201403-Geneva/007%20-%20Conclusions%20of%20the%20ITU%20Symposium%20on%20the%20Future%20Networked%20Car.zip)).

Participants expressed their appreciation for the event and encouraged the secretariat to share the collaterals (video, pictures, brochure summarizing the outcome) more widely, including to ITS organizations, and to begin early with the preparations of the next edition, 4-5 March 2015.

1. **ITS communications requirements – Work Item 1**

Edoardo Gianotti of UNECE’s Transport Division gave an overview of [UNECE’s ITS Road Map](http://www.unece.org/trans/publications/its_sustainable_mobility.html). A Round Table on ITS will take place end of October / early November in Brussels, Belgium (to be confirmed). Participants welcomed the invitation extended to ITU to participate in the work of UNECE WP.29, its subsidiary bodies and the informal working group on ITS (see [Doc 006](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201403-Geneva/006%20-%20Invitation%20to%20participate%20in%20WP29.docx)). Several Collaboration participants expressed interest in participating in upcoming WP.29-related meetings.

Kevin Li gave an update on ITS activities in China. He highlighted the work of the **National ITS Center China** (Ministry of Transportation / Research Institute of Highway (RIOH)) on V2I communications (e.g., ETC and interconnectivity between cities, and roadside infrastructure: traffic information, accident notification) (more information [here](http://ssom.transportation.org/Documents/5-Xiaojing_China.pdf)) and the activities of the **Telematics Industry Applications Alliance** ([TIAA China](http://tiaa.org.cn/EN/default.jsp)), which include eCall in China, autonomous driving, V2V communications for ADAS. A program similar to NCAP has been established to assess the safety of new cars.

Kevin agreed to provide regular updates on the activities of ITS Center China, TIAA and to establish contacts with China Unicom to stay in the loop for their work on ITS

* Action (3) Kevin Li: Provide regular updates on ITS activities in China.
1. **Gap analysis – Work Item 2**

Yushi Naito presented [Doc 005](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201403-Geneva/005%20-%20Gap%20Analysis%20for%20Collaboration%20on%20ITS%20Communication%20Standards.zip) on behalf of TTC Japan. The document identifies a number of areas with potential overlap of activities which would benefit from harmonization, and the area of standards for “ITS communications for vulnerable road users (e.g., pedestrians, bicycles)” as a potential gap. Participants noted that the work of FG Distraction has been transitioned to Q4 of ITU-T Study Group 12 and Q27 of Study Group 16. It was also pointed out that some of the activities are complimentary rather than competing. The presentation concluded with an overview of the planned activities of TTC’s SmartCar Working Party.

* Action (4) TTC: Provide an update on SmartCar Working Party activities, in particular with a view on ITS safety communications for vulnerable road users, by July 2014 meeting.
1. **ITS communications security – Work Item 4**

Koji Nakao, vice chairman of ITU-T Study Group 17 (Security) presented [Doc 003](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201403-Geneva/003%20-%20CITS_LS106%28SG17%29.doc), a liaison statement in response to the information on V2V and V2I use cases submitted to SG17 after the last Collaboration meeting.

As the connectivity of vehicles increases, so does their vulnerability to hacking and malicious attacks. Security for connected vehicles covers many aspects including security for remote updates of car software/systems (OTA); verification of car components/chipsets; physical security (e.g., OBD interface). Participants stressed the urgent need for standards and guidelines. It was agreed to send a response to the liaison statement informing SG17 about these challenges and the presentations held at the Future Networked Car workshop. Koji Nakao pointed out that SG17 will continue its research on matters related to security of V2I, V2V and “Vehicle-to-Nomadic Devices” (V2N) communications, and solicits input from any interested parties. ITS security will feature prominently at a Security Workshop taking place at the next meeting of SG17, 17-26 September 2014, Geneva.

* Action (5) Russ Shields, Yushi Naito and ITU/TSB: Draft response to liaison statement and submit to Q6/17 interim meeting in June 2014
1. **ICTs in vehicles – Work Item 5 / driver distraction**

Scott Pennock briefly introduced a liaison statement to ISO (see [Doc 004](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201403-Geneva/004%20-%20CITS_LS75R1%28SG16%29.doc)), which recently launched a TC22-TC204 Joint Working Group 2 for “Vehicle Station Gateway”. The concept of vehicle station gateway appears to be similar (maybe even synonymous) with the “Vehicle Gateway Platform” (VGP) studied by Q27/16. Scott reported that the document was introduced at the ISO meeting, but no agreement was reached to send a response to ITU. He noted that Q27/16 recently agreed on some baseline text on the vehicle gateway platform, and that provisions were made to accommodate for automated driving functionalities.

Yushi Naito introduced [Doc 009](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201403-Geneva/009%20-%20Preliminary%20information%20about%20work%20in%20IEC%20TC%20100.docx), which includes preliminary information about the creation of a “stage 0 project” on [multimedia car systems and equipment](http://tc100.iec.ch/about/structure/tc100_100.htm#PT100-9) in IEC TC 100 (“Audio, video and multimedia systems and equipment”). The scope of this activity is to “develop a Technical Report on the conceptual model of standardization for multimedia car systems and equipment”. The document was noted.

1. **Next steps**
	1. **Collocated rapporteur meetings**

The meeting briefly discussed the proposal ([Doc 008](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201403-Geneva/008%20-%20Proposal%20for%20collocated%20rapporteur%20group%20meetings%20on%20ICTs%20in%20vehicles.docx)) to hold collocated rapporteur meetings under the theme of ICTs and vehicles, initially between Q4/12 and Q27/16, with the option of other interested Questions joining in later. The proposal was noted.

* 1. **Next meetings**

The next Collaboration meeting will take place on **4 July 2014 in Sapporo, Japan**, in conjunction with the meeting of [ITU-T Study Group 16](http://www.itu.int/en/ITU-T/studygroups/2013-2016/16/Pages/default.aspx)​ (​30 June - 11 July 2014). Meeting announcement, logistical information and registration form are available at <http://itu.int/go/ITScomms>.

The following meeting will take place on **23 October 2014 in Troy, Michigan, United States** hosted by SAE, in conjunction with SAE Convergence Conference & Exhibition.​

1. **Close of meeting**

Russ Shields thanked the participants for all the discussions. The meeting closed at 1700.

| Meeting | No. | Who | What | Work Item | By when | Status |
| --- | --- | --- | --- | --- | --- | --- |
| Geneva, March 2014 |
| Geneva(2014) | 1 | Russ Shields / Scott Pennock | Contact the chairmen of ISO TC22 (Russ), ISO TC204 (Russ) and ETSI TC ITS (Scott) to discuss the possibility of a webinar / information exchange |  | July 2014 |  |
| Geneva(2014) | 2 | ITU/TSB | Solicit input and updates from Jim Frazer (ITS and smart grids) and Qualcomm (EV charging, wireless charging). | 1 | July 2014 |  |
| Geneva(2014) | 3 | Kevin Li | Provide regular updates on ITS activities in China | 1 | Open-ended |  |
| Geneva(2014) | 4 | TTC Japan | Provide an update on SmartCar Working Party activities, in particular with a view on ITS safety communications for vulnerable road users | 1,2,7 | July 2014 |  |
| Geneva(2014) | 5 | Russ Shields, Yushi Naito, ITU/TSB | Draft response to liaison statement on ITS communications security and submit to Q6/17 | 4 | June 2014 |  |
| Geneva, June 2013 ([meeting report](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201306-Geneva/009%20-%20Meeting%20report.docx)) |
| Geneva(2013) | 10 | ITU/TSB | Improve the wording of the [working procedures](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-20120626-Munich/006%20-%20Draft%20working%20procedures.docx) | 3 | July 2014 |  |

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