# Collaboration on ITS Communication Standards

## 10 March 2017, Geneva, Switzerland

### Meeting report

1. **Introduction**

The meeting of the Collaboration on ITS Communication Standards (“Collaboration”) took place on 10 March 2017 at ITU headquarters in Geneva, Switzerland.

The meeting was held in conjunction with the [ITU/UNECE Symposium on The Future Networked Car](https://www.itu.int/en/fnc/2017/Pages/default.aspx) held at Geneva Motor Show on 9 March 2017.

**T. 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 25 participants including 2 remote attendees (the final list of participants is in [Doc 005](https://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201703-Geneva/005%20-%20List%20of%20participants.pdf)) and introduced the objectives of the Collaboration (see [website](http://www.itu.int/en/ITU-T/extcoop/cits/)).

He noted that the Collaboration is not a standards-setting, but a standards-facilitating group, exchanging information and promoting the development and adoption of ITS communications standards.

**Chaesub Lee**, Director of the ITU Standardization Bureau extended a warm welcome to all participants. He highlighted the strong link between ITS communications and ITU activities in the field of smart cities, with related work stretching across ITU-T Study Groups 20, 17, 16, and 12.

The draft agenda was adopted without changes as in [Doc 001](https://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201703-Geneva/001%20-%20Draft%20agenda.docx).

1. **Wrap-up of the Symposium on The Future Networked Car**

The meeting acknowledged the high quality of presentations and discussions, and lauded the overall arrangements of the Symposium. **Martin Adolph** (ITU) explained that the Collaboration is following a yearly cycle of three meetings and three workshops: (1) March, during Geneva Motor Show; (2) summer in Asia; (3) fall in the Americas.

1. **Update on ITS communications standardization activities**

Martin Adolph pointed participants to a [spreadsheet](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/ITS%20work%20items.xlsx) collecting information about all ITS related work items in ITU. Covering the work of ITU-T (Study Groups 12, 13, 16, 17, 20) and ITU-R, the spreadsheet is regularly updated.

**Sergio Buonomo** (ITU) updated the meeting on the ITS communications work underway in ITU’s Radiocommunication Sector (ITU-R). He highlighted the activities related to agenda items 1.12 and 1.11 of the next World Radiocommunication Conference ([WRC-19](https://www.itu.int/en/ITU-R/conferences/wrc/2019/Pages/default.aspx)), and encouraged SDOs working in the field of ITS communications to provide input to [ITU-R Working Party 5A](https://www.itu.int/en/ITU-R/study-groups/rsg5/rwp5a/Pages/default.aspx) (“Land mobile service excluding IMT; amateur and amateur-satellite service”), e.g., on the use of ITS in countries, or the harmonization of frequency arrangements for ITS in the mobile service.

**Yushi Naito** (Mitsubishi Electric, Japan) introduced [Doc 002](https://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201703-Geneva/002%20-%20LS%20on%20progress%20of%20the%20ITS%20work%20from%20ITU-T%20Study%20Group%2016.docx) a liaison informing the meeting about the recent consent of draft [Recommendation ITU-T F.749.2](https://www.itu.int/itu-t/recommendations/rec.aspx?rec=f.749.2) (ex F.VGP-REQ) *"Service requirements for and use cases of vehicle gateway platform"* and the appointment of Mr. Naito as liaison officer from [ITU-T Study Group 16](https://www.itu.int/en/ITU-T/studygroups/2017-2020/16/Pages/default.aspx) (“Multimedia”) to the Collaboration. Study Group 16 is the lead study group on multimedia aspects of ITS communications.

**Koji Nakao** (NICT, Japan) provided an update on the ITS communications security effort undertaken by ITU-T Study Group 17, see [Doc 004](https://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201703-Geneva/004%20-%20ITU-T%20Study%20Group%2017%20update.pdf). His presentation covered an overview of the revised SG17 mandate, leadership, questions under study. He informed participants that the TAP consultation process for draft [Recommendation ITU-T X.1373](https://www.itu.int/itu-t/recommendations/rec.aspx?rec=x.1373) (ex X.itssec-1) *“Secure software update capability for ITS communications devices”*, was about to end, and expressed hope that SG17 will approve the standard in its meeting in Geneva, 22-30 March 2017. He described the progress on work item X.itssec-2 *“Security guidelines for V2X communication systems”*, and informed the meeting about a proposal submitted by the Republic of Korea and Hyundai Motors to establish a separate standalone Question in SG17 to focus on security aspects of ITS communications.

He described opportunities for collaboration between study groups (e.g., SG16 and SG17), SDOs (a planned meeting with the ISO TC204 leadership), and with UNECE.

To request input on automotive cybersecurity and OTA issues, the meeting approved a liaison statement to the UNECE Task Force on cybersecurity and OTA issues (CS/OTA). The liaison statement is contained in [Doc 006](https://itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201703-Geneva/006%20-%20LS%20from%20CITS%20to%20UNECE%20CS-OTA.docx).

In the discussion, Yushi Naito confirmed that SG16 was taking the lead in working on the technical paper on OTA software updates, initially introduced in a Collaboration meeting (see [here](https://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201603-Geneva/002%20-%20Secure%20Over-the-Air%20Vehicle%20Software%20Updates%20-%20Operational%20and%20Functional%20Requirements.zip)).

**Roger Lanctot** (Strategy Analytics, United States) provided a status update on the commercial developments surrounding ITS communications, including dedicated short range communications (DSRC), LTE-V and 5GAA, as illustrated in [Doc 003](https://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201703-Geneva/003%20-%20DSRC%20status%20report.pdf).

**Milan Basic** (Ericsson, Sweden) introduced an Ericsson perspective on vehicle communications, the role of LTE and future 5G systems in automated driving and future mobility systems. Items addressed during discussion included 5G security and the role of 3GPP SA WG3, responsible for security and privacy in 3GPP systems; cloud computing security and privacy; the role of network slicing; and compatibility between different 3GPP releases leading to 5G.

1. **Update on World Forum for Harmonization of Vehicle Regulations (WP.29) activities**

**Francois Guichard** (UNECE) introduced the work of [UNECE WP.29](http://www.unece.org/trans/main/wp29/introduction.html) related to ITS communications. WP.29 convenes officially three times per year (March, June, and November) and entrusts informal groups with specific problems that need to be solved urgently or that require special expertise.

ITU has a standing invitation to participate in WP.29 and its working groups, and is promoting the use of international standards in these activities.

He highlighted the working groups under WP.29 of particular interest to the ITS communications:

1. Informal Working Group on ITS/Automated Driving (IWG ITS/AD). Reporting to WP.29. The documentation of IWG ITS/AD is available [here](https://www2.unece.org/wiki/pages/viewpage.action?pageId=2523344).
2. UNECE Task Force on cybersecurity and over-the-air issues (CS/OTA). Reporting to IWG ITS/AD. The documentation of CS/OTA is available [here](https://www2.unece.org/wiki/pages/viewpage.action?pageId=40829521). ITU is actively participating in this activity and hosting the 4th CS/OTA meeting on 13-14 March.
3. Informal Working Group on Accident Emergency Call Systems (IWG AECS). Reporting to WP.29. The documentation of IWG AECS is available [here](https://www2.unece.org/wiki/pages/viewpage.action?pageId=14319865).

Besides the work associated to WP.29, UNECE’s Global Forum for Road Traffic Safety (WP.1) has established an informal working group on automated driving (IWG-AD). Contrary to WP.29 informal working groups, participation in WP.1 IWG-AD is upon invitation and the documentation is not public (apart from status reports to WP.1, e.g., [here](https://www.unece.org/fileadmin/DAM/trans/doc/2016/wp1/ECE-TRANS-Informal-2016-4e.pdf)).

1. **Outlook and any other business**

The next Collaboration meeting will take place on **7 July 2017 in Singapore**, hosted by the [Info-communications Media Development Authority of Singapore (IMDA)](https://www.imda.gov.sg/), succeeding an [ITU/IMDA Workshop on *How Communications will Change ​Vehicles and Transport*](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/201707.aspx) at Suntec Singapore on **6 July 2017**.

1. **Close of meeting**

The Chair thanked ITU for hosting the meeting and workshop and expressed appreciation to all participants for their inputs and the fruitful discussions. The meeting closed at 1500 local time.

## List of action items (as of March 2017)

| Meeting | No. | Who | What | Work Item | By when | Status |
| --- | --- | --- | --- | --- | --- | --- |
| Tokyo, July 2016 ([meeting report](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201607-Tokyo/009%20-%20Report.docx)) | | | | | | |
| Tokyo(2016) | 1 | SG16, SG17, TC204/TC22 | Take into consideration W3C activities; exchange relevant information with W3C. | 3 |  | Ongoing |
| Tokyo(2016) | 2 | Koji Nakao / SG17 | Identify IEEE standards of interest to SG17 work on ITS security | 4 | November 2016 | Pending |
| Tokyo(2016) | 3 | Yasubumi Chimura / TTC | Share information on the role of ITS in the event of disasters with TC204 | 7 | November 2016 | Pending |
| Geneva, March 2015 ([meeting report](http://www.itu.int/en/ITU-T/extcoop/cits/Documents/Meeting-201503-Geneva/009%20-%20Meeting%20report.docx)) | | | | | | |
| Geneva(2015) | 2 | Russ Shields, Yushi Naito, ITU/TSB | Follow work of informal group ITS/AD, synchronize activities with development of F.AUTO-TAX. | 2, 3, 6 |  | Ongoing |

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