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| **Keywords:** | ITS; collaboration; standards; SDOs; connected vehicles; |
| **Abstract:** | The document summarizes ITU-T activities in the field of ITS communications since the last meeting of TSAG. |

# Action required

TSAG is invited to note the report.

ITU-T Study Groups with activities related to ITS communications (SG12, SG16, SG17, SG20) are invited to provide regular updates on their ITS work items to the Collaboration on ITS Communication Standards (CITS).

# Summary

**ITU-T Focus Group on Vehicular Multimedia (FG-VM)**

The [ITU-T Focus Group on Vehicular Multimedia (FG-VM)](https://www.itu.int/en/ITU-T/focusgroups/vm/Pages/default.aspx) was established by ITU-T Study Group 16 at its meeting in Ljubljana, 9-20 July 2018

* The Focus Group will analyze and identify gaps in the vehicular multimedia standardization landscape and draft technical reports and specifications covering, among others, vehicular multimedia use cases, requirements, applications, interfaces, protocols, architectures and security.

The [1st meeting of the ITU-T FG-VM](https://www.itu.int/md/T17-TSB-CIR-0110/en) was held on 11 October 2018 in Ottawa, Canada. A [Mini-Workshop](https://www.itu.int/en/ITU-T/focusgroups/vm/Pages/11-11_Mini-workshop.aspx) was organized to kick-off the FG meeting.

* Various objectives have been accomplished in Ottawa including agreement on the FG-VM working structure (three working groups on specific topics were established and the leadership of WG1 was agreed), an initial roadmap of expected deliverables, related working methods and future meeting plans.
* It was also agreed to start working on a FG-VM Technical Report on “Use cases and requirements for the FG-VM system”. The TR will describe use cases and requirements for a converged network vehicular multimedia system, taking into account the autonomous levels defined by SAE J3016 and used in conjunction with ADAS (Advanced Driver Assistance System) and automatic driving technologies such as maps, voice command or natural language processing.
* The FG-VM Management Team is currently as follows (more members may be appointed in the future):

**Chair**: Jun (Harry) Li (TIAA, People's Republic of China)
**Vice-Chair**: Gaëlle Martin-Cocher (Blackberry, Canada)
**Vice-Chair**: Kaname Tokita (Honda, Japan)

* The 2nd meeting of the ITU FG-VM will be held in Tokyo, Japan, 23-25 January 2019. On 23 January a [workshop on the Future of Vehicular Multimedia](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20190123/Pages/default.aspx) will kick off the FG work.
* The 3rd FG-VM meeting will be in Geneva during SG16 on 18-19 March 2019.
* The 4th FG-VM meeting is planned in China in June 2019.
* More information is available on the FG-VM webpage: <https://www.itu.int/en/ITU-T/focusgroups/vm/Pages/default.aspx> .
* FG VM contact is Stefano Polidori at tsbfgvm@itu.int .

**ITS Communication Standards online repository**

As discussed during the last Collaboration on ITS Communication Standards (CITS) meeting, held in co-location with the International Forum on Intelligent Transport Systems, 6-7 September 2018, Nanjing, China, the CITS started development of a classification for ITS Communication Standards, in order to create an online database where standards from multiple SDOs will be aggregated to facilitate collaboration. TSB has proposed one of its database tool, already available, to be used for the ITS Communication Standards online repository.

Since then, a classification has been proposed to categorize ITS communication standards. Currently, comments and inputs are being collected from SDOs and experts in order to finalize the classification.

ITU-T is also currently in the process of providing SDOs with a preview of where their standards would fit within the classification, and is soliciting comments to further develop the classification and start to populate the database.

**CITS-related events**

CITS has convened meetings and facilitated the organization of workshops and events since the last TSAG. The meetings took place in conjunction with other ITS related meetings, workshops, and events:

* **Geneva, Switzerland, 8-9 March 2018:** CITS meeting was held in collocation with the [ITU Symposium on the Future Networked Car](https://www.itu.int/en/fnc/2018/Pages/default.aspx) (FNC-2018) at Geneva Motor Show (8 March 2017). The FNC-2018 was co-organized with UNECE. Detailed programme of FNC-2018 is available [here](https://www.itu.int/en/fnc/2018/Pages/programme.aspx). The meeting of the Collaboration on ITS Communication Standards took place at the ITU premises on 9 March 2017. The documents of the meeting are available [here](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/meeting-documents.aspx?RootFolder=%2Fen%2FITU%2DT%2Fextcoop%2Fcits%2FDocuments%2FMeeting%2D20180309%2DGeneva&FolderCTID=0x0120008D91490DA7927C4D8A0BB5A73929B07D&View=%7B73BE16B3%2D22C9%2D43D5%2DA9FD%2DD8BC067A87FF%7D).
* **Nanjing, China 6-7 September 2018:** CITS meeting was held in collocation with the [International Forum on Intelligent Transport Systems](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20180906/Pages/default.aspx) (6-7 September 2018), which was co-organized and hosted by C-ITS of China. The detailed program of the International Forum on Intelligent Transport Systems is available [here](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20180906/Pages/Programme.aspx). The meeting of the Collaboration on ITS Communication Standards took place at the same venue on 7 September 2018. The documents of the meeting are available [here](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/meeting-documents.aspx?RootFolder=%2Fen%2FITU%2DT%2Fextcoop%2Fcits%2FDocuments%2FMeeting%2D20180907%2DNanjing&FolderCTID=0x0120008D91490DA7927C4D8A0BB5A73929B07D&View=%7B73BE16B3%2D22C9%2D43D5%2DA9FD%2DD8BC067A87FF%7D).
* **Detroit, United-States, 8-9 October 2018**: The CITS has facilitated the organization of a joint workshop between ITU and SAE international on “[How communications will change vehicles and transport](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20181008/Pages/default.aspx)”. The detailed programme of the workshop is available [here](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20181008/Pages/programme.aspx). The event was co-located with the SAE event “[From ADAS to Automated Driving](https://www.sae.org/attend/adas)”.

In addition, as earlier mentioned, the following meeting of the FG-VM was organized in Ottawa, Canada:

* **Ottawa, Canada, 11 October 2018**: First meeting of the [ITU-T Focus Group on Vehicular Multimedia](https://www.itu.int/en/ITU-T/focusgroups/vm/Pages/default.aspx), hosted by Blackberry, Canada. The meeting was kicked-off by a [mini-workshop on industry perspectives on vehicular multimedia](https://www.itu.int/en/ITU-T/focusgroups/vm/Pages/11-11_Mini-workshop.aspx).

**Planned CITS-related events**

Future activities are scheduled and planned as follows:

* **Tokyo, Japan, 23-25 January 2019**: A joint workshop between ITU and TTC, Japan on “[The Future of Vehicular Multimedia](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20190123/Pages/default.aspx)” is planned on (23 January 2019) hosted by Telecommunication Technology Committee (TTC). It will be followed by the 2nd meeting of the [ITU-T FG-VM](https://www.itu.int/en/ITU-T/focusgroups/vm/Pages/default.aspx) (24-25 January 2019) at the same venue.
* **Geneva, 7-8 March 2019:** CITS meeting will be held in collocation with the [ITU/UNECE Symposium on the Future Networked Car (FNC-2019)](https://www.itu.int/en/fnc/2019/Pages/default.aspx) at the Geneva International Motor Show (7 March 2019). The FNC-2019 is co-organized with UNECE. A draft programme of FNC-2019 is available [here](https://www.itu.int/en/fnc/2019/Pages/programme.aspx). The meeting of the Collaboration on ITS Communication Standards will take place at the ITU premises on 8 March 2019.

CITS continued to provide the link between ITU and the [UNECE World Forum for Harmonization of Vehicle Regulations (WP.29)](http://www.unece.org/trans/main/welcwp29.html).

To be noted that, at its June 2018 session, the UNECE WP.29 activities related to automated, autonomous and connected vehicles, including the task force on cybersecurity and OTA issues were restructured. The previous Working Party on Brakes and Running Gear (GRRF) was therefore revamped into a new Working Party on Automated/Autonomous and Connected Vehicles (GRVA). This new GRVA will now take over also the activities previously handled under the banners “Intelligent Transport Systems and Automated Driving ([ITS/AD](https://wiki.unece.org/pages/viewpage.action?pageId=2523344))” and “UN Task Force on Cyber security and OTA issues ([CS/OTA](https://wiki.unece.org/pages/viewpage.action?pageId=40829521))”.

ITU delegates interested in participating in WP.29 activities are invited to consult the meeting schedule at <http://www.unece.org/trans/main/wp29/meetings_events.html> and to contact Mr Stefano Polidori (ITU/TSB) at stefano.polidori@itu.int for additional information and coordination. CITS will continue reviewing and discussing the progress in WP.29 and coordinate any ITS communications related input.

Delegates are invited to consult the CITS website for further updates and information: <http://itu.int/go/ITScomms>.

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