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| **Abstract:** | The document summarizes ITU-T activities in the field of ITS communications since the last meeting of TSAG and covers the period January-July 2024. |

# Action required

TSAG is invited to note the report.

ITU-T study groups with activities related to ITS communications (especially SG2, SG12, SG13, SG16, SG17 and SG20 along with ITU-R SG5) are invited to provide regular updates on their ITS work items to the Collaboration on ITS Communication Standards (CITS).

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# 1 Collaboration on ITS Communication Standards (CITS)

The Collaboration on ITS Communication Standards ([CITS](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/default.aspx)) has become the globally recognized forum for the coordination of Intelligent Transportation Systems (ITS) communication standards. CITS supports the rapid deployment of fully interoperable ITS communication-related products and services in the global marketplace.

The meetings of the Collaboration on ITS Communication Standards discuss the various ITS-related standardization activities in the different SDOs, through progress and status reports submitted. One CITS meeting has been held since the last TSAG meeting (January 2024) – on 15 March 2024. The documents of the meeting in March 2024 are available [here](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/meeting-documents.aspx?RootFolder=%2Fen%2FITU%2DT%2Fextcoop%2Fcits%2FDocuments%2FMeeting%2D20240315%2De%2Dmeeting&FolderCTID=0x0120008D91490DA7927C4D8A0BB5A73929B07D&View=%7B73BE16B3%2D22C9%2D43D5%2DA9FD%2DD8BC067A87FF%7D).

Following the discussions during the previous CITS meeting, several SDOs have provided information on their relevant standards for inclusion in the [online ITS Communication Standards database](https://www.itu.int/itu-t/landscape/?topic=tx21&group=g&search_text=). The CITS meeting in March 2024 was attended by 43 participants representing SDOs and other organizations including IEEE, 5GAA, ISO, IEC, ETSI, Car2Car Communication Consortium, CCSA, CSAE, ARIB, TIAA, TSDSI, SAE International, WWRF, UNECE, among others. These entities and their related groups provided progress reports to CITS. The relevant inputs from the progress reports were included in the ITS communication database in due time.

Furthermore, following the creation of the **[Expert Group on Communications Technology for Automated Driving](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/egcomad.aspx)** (EG-ComAD) under CITS, two online meetings were held on 8 March 2024 and 17 May 2024. EG-ComAD’s work plan and objectives were agreed. EG-ComAD’s Working Group 1 on [*“Vehicular communications for merging automatically into congested lanes”*](https://www.itu.int/en/ITU-T/extcoop/cits/egcomad/wg01/Pages/default.aspx) was established. EG-ComAD/WG1’s first meeting was held 17 May 2024. See for details on EG-ComAD in [SECTION 2](#_2_CITS_Expert).

The e-meeting of CITS in March 2024 was preceded by the **Symposium on the Future Networked Car (**[**FNC-2024**](https://fnc.itu.int/)**)**, co-organized by **ITU** and **UNECE** on **11-14 March 2024**. The event consisted of the following sessions:

* 11 March 2024 – OPENING + SESSION 1:
Recent Developments in International Vehicles Regulations
* 12 March 2024 – SESSION 2:
Artificial Intelligence Applications for Vehicles
* 13 March 2024 – SESSION 3:
Worldwide Status of Automated Vehicles Testing
* 14 March 2024 – SESSION 4:
Vehicular Communication for Automated Driving

You may be interested in the following resources:

1. **Video Highlights and programme of the Event:** [Watch the Video](https://fnc.itu.int/programme/) [and programme](https://fnc.itu.int/programme/)

CITS continues 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) for topics including ITS and automated driving, for which various ITU-T study groups have ongoing studies.

Collaboration among the UNECE Task Force on cybersecurity and OTA issues and ITU-T SG17 is useful to discuss related topics in both organizations with the participation of delegates of both UNECE WP29 and Q13/17, as well as CITS in general.

Additionally, the “UN Task Force on Vehicular Communication” continues to operate under the UNECE WP29 informal group on ITS: [https://wiki.unece.org/display/trans/ITS+Task+Force+on+Vehicular+Communications](https://wiki.unece.org/display/trans/ITS%2BTask%2BForce%2Bon%2BVehicular%2BCommunications)

ITU delegates interested in participating in UNECE 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 Russ Shields (CITS Chair) and Mr Stefano Polidori (ITU/TSB) at tsbcits@itu.int for additional information and coordination. CITS will continue reviewing and discussing the progress in WP.29 and coordinate ITS communications related input.

# 1.1 CITS-related events

# 1.1.1 Concluded meetings and events:

CITS has convened one (e-)meeting since the last TSAG:

* **E-meeting, 15 March 2024:** Collaboration on ITS Communication Standards (CITS) e-meeting

All the previous CITS meetings are listed in [**ANNEX**](#_ANNEX) **for information**.

The following related events have taken place since the last TSAG meeting:

* 1st Meeting of CITS Expert Group on Communications Technology for Automated Driving, **8 March 2024**
* Symposium on the Future Networked Car ([FNC-2024](https://fnc.itu.int/)), Virtual**,** **11-14 March 2024**
* 2nd Meeting of CITS Expert Group on Communications Technology for Automated Driving, **17 May 2024**
* 1st meeting of EG-ComAD/WG1 - Vehicular communications for merging automatically into congested lanes, **27 June 2024**

# 1.1.2 Planned meetings and events:

* Virtual, 24 July 2024, 2nd EG-ComAD/WG1 - Vehicular communications for merging automatically into congested lanes (monthly meetings of WG1 are planned)
* Virtual, 12 September 2024, CITS Expert Group on Communications Technology for Automated Driving (EG-ComAD)
* Virtual, 13 September 2024, CITS Meeting
* Geneva, Switzerland, 11 November 2024, CITS Expert Group on Communications Technology for Automated Driving (EG-ComAD)

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

# 2 CITS Expert Group on Communications Technology for Automated Driving

The Expert Group on Communications Technology for Automated Driving (EG-ComAD) was established on 22 September 2023 by the CITS to address the crucial role of communications in the realm of automated driving, particularly for aspects such as collision avoidance, vehicle cooperation, reliable automated merging and specific vehicle-to-vehicle communications.

The EG-ComAD has been chartered to explore communications technologies for automated vehicles, aiming to equip all new vehicles, regardless of their automated driving capabilities, with the necessary communication technology to support automated driving effectively. The group welcomes experts from ITU-T SG 16, ITU-R SG 5, and other participating organizations within ITU CITS, including UNECE WP.29 entities, to contribute to its mission. For further inquiries, the ITU CITS Secretariat is available at tsbcits@itu.int.

The establishment of EG-ComAD underscores the commitment to fostering collaboration among major standards bodies in the pursuit of advancements in intelligent transportation systems. During the first meeting of EG-ComAD, the objectives of this group were laid out as contained in [EGComAD-003R2](https://tsbcloud.itu.int/s/no3mpn4fcyZbawi/download).

Hideaki Takahashi (Nokia) serves as the EG-ComAD Co-chair, together with Jan Luehmann (VW CARIAD). Yuming Ge (CAICT) and Rémi Bastien (FISITA) have been appointed as Vice-Chairs.

The EG-ComAD has agreed on a work plan and objectives, available online at:

* ***EG-ComAD WORK PLAN:*** [***https://tsbcloud.itu.int/s/abzRPdCGfQkkMzi***](https://tsbcloud.itu.int/s/abzRPdCGfQkkMzi)
* ***EG-ComAD OBJECTIVES:*** [***https://tsbcloud.itu.int/s/RftSZTZb6jidi4m***](https://tsbcloud.itu.int/s/RftSZTZb6jidi4m)

During the 2nd Meeting of EGComAD, the [Working Group 1 - Vehicular communications for merging automatically into congested lanes](https://www.itu.int/en/ITU-T/extcoop/cits/egcomad/wg01/Pages/default.aspx) was established. The 1st Meeting of WG1 was organized on 27 June 2024 with Ganesh Jayaram (VW CARIAD) and Johannes Springer (Deutsche Telekom / T-Systems International) serving as the EG-ComAD/WG1 Chair and Vice-Chair respectively.

The meeting documents of the first meeting of WG1 are found at: <https://tsbcloud.itu.int/s/E5JrLGypBFbCweW>

# ANNEX - All the previous CITS meetings

* 1st CITS Meeting, 14 December 2011, Geneva, Switzerland (collocated with the 3rd meeting of the [Focus Group on Driver Distraction](https://www.itu.int/en/ITU-T/focusgroups/distraction/Pages/default.aspx) on 12-13 December 2011)
* 2nd CITS Meeting, 3 April 2012, Troy, USA (collocated with the 4th meeting of the [Focus Group on Driver Distraction](https://www.itu.int/en/ITU-T/focusgroups/distraction/Pages/default.aspx) on 4-5 April 2012)
* 3rd CITS Meeting, 26 June 2012, Munich, Germany (collocated with the 5th meeting of the [Focus Group on Driver Distraction](https://www.itu.int/en/ITU-T/focusgroups/distraction/Pages/default.aspx) on 27-28 June 2012)
* 4th CITS Meeting, 21 August 2012, Tokyo, Japan (collocated with the 6th meeting of the [Focus Group on Driver Distraction](https://www.itu.int/en/ITU-T/focusgroups/distraction/Pages/default.aspx) on 22-23 August 2012)
* 5thCITS Meeting, 28 October 2012, Vienna Austria (collocated with the 7th meeting of the [Focus Group on Driver Distraction](https://www.itu.int/en/ITU-T/focusgroups/distraction/Pages/default.aspx) on 29-30 October 2012)
* 6thCITS Meeting, 17 December 2012, Washington, D.C., USA (collocated with the 8th meeting of the [Focus Group on Driver Distraction](https://www.itu.int/en/ITU-T/focusgroups/distraction/Pages/default.aspx) on 18-19 December 2012)
* 7th CITS Meeting, 21-22 March 2013, Beijing, China
* 8th CITS Meeting, 26 and 28 June 2013, Geneva, Switzerland (collocated with [Workshop](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/its-em/201306/Pages/default.aspx) on 27 June 2013)
* 9th CITS Meeting, 13 October 2013, Tokyo, Japan
* 10th CITS Meeting, 7 March 2014, Geneva, Switzerland (collocated with [Symposium FNC-2014](https://www.itu.int/en/fnc/2014/Pages/default.aspx) on 5-6 March 2014)
* 11th CITS Meeting, 4 July 2014, Sapporo, Japan
* 12th CITS Meeting, 23 October 2014, Troy, USA
* 13th CITS Meeting, 6 March 2015, Geneva, Switzerland (collocated with [Symposium FNC-2015](https://www.itu.int/en/fnc/2015/Pages/default.aspx) on 5 March 2015)
* 14th CITS Meeting, 29 July 2015, Beijing, China (collocated with [Workshop](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/072015.aspx) on 28-29 July 2015)
* 15th CITS Meeting, 7 December 2015, Arlington, USA (collocated with [Workshop](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/201512.aspx) on 8 December 2015)
* 16th CITS Meeting, 4 March 2016, Geneva, Switzerland (collocated with [Symposium FNC-2016](https://www.itu.int/en/fnc/2016/Pages/default.aspx) on 3 March 2016)
* 17th CITS Meeting, 5 July 2016, Tokyo, Japan (collocated with [Workshop](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/201607.aspx) on 4 July 2016)
* 18th CITS Meeting, 30 November 2016, Detroit, USA (collocated with Workshop on 29 November 2016)
* 19th CITS Meeting, 10 March 2017, Geneva, Switzerland (collocated with [Symposium FNC-2017](https://www.itu.int/en/fnc/2017/Pages/default.aspx) on 9 March 2017)
* 20th CITS Meeting, 7 July 2017, Singapore (collocated with [Workshop](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/201707.aspx) on 6 July 2017)
* 21st CITS Meeting, 6 December 2017, Arlington, USA (collocated with Workshop on 5 December 2017)
* 22nd CITS Meeting, 9 March 2018, Geneva, Switzerland (collocated with [Symposium FNC-2018](https://www.itu.int/en/fnc/2018/Pages/default.aspx) on 8 March 2018)
* 23rd CITS Meeting, 6-7 September 2018, Nanjing, China (collocated with [International Forum on ITS](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20180906/Pages/default.aspx) on 6-7 September 2018)
* 24th CITS Meeting, 8 March 2019, Geneva, Switzerland (collocated with [Symposium FNC-2019](https://www.itu.int/en/fnc/2019/Pages/default.aspx) on 7 March 2019)
* 25th CITS Meeting, 28 October 2019, e-Meeting
* 26th CITS Meeting, 6 March 2020, Geneva, Switzerland (collocated with [Symposium FNC-2020](https://www.itu.int/en/fnc/2020/Pages/default.aspx) on 5 March 2020)
* 27th CITS Meeting, 9 September 2020, e-Meeting
* 28th CITS Meeting, 26 March 2021, e-Meeting (collocated with [Symposium FNC-2021](https://fnc.itu.int/search-result-programme/?keyword=&category=&location=&organizer=&status=&enddate=December+31+2021&startdate=January+01+2021&sort=Sort+by&price=0%3B299) on 22-25 March 2021)
* 29th CITS Meeting, 10 September 2021, e-Meeting
* 30th CITS Meeting, 18 March 2022, e-Meeting (collocated with [Symposium FNC-2022](https://fnc.itu.int/search-result-programme/?keyword=&category=&location=&organizer=&status=&enddate=December+31+2022&startdate=January+01+2022&sort=&price=0%3B299) on 22-25 March 2022)
* 31st CITS Meeting, 23 September 2022, e-Meeting
* 32nd CITS Meeting, 17 March 2023, e-Meeting (collocated with [Symposium FNC-2023](https://fnc.itu.int) on 13-16 March 2023)
* 33rd CITS Meeting, 22 September 2023, e-Meeting
* 34th CITS Meeting, 15 March 2024, e-Meeting (collocated with [Symposium FNC-2024](https://fnc.itu.int) on 11-14 March 2024)

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