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| A black and white logo  Description automatically generated with low confidence | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2025-2028 | TSAG-TD33 |
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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 July 2024-May 2025. |

# Action required

TSAG is invited to note the report.

ITU-T study groups with activities related to ITS communications (especially SG2, SG12, SG13, SG17, SG20, SG21 and 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. Two CITS meeting have been held since the last TSAG meeting (July/August 2024) – on 13 September 2024 and 28 March 2025. The documents of the meeting in [September 2024](https://mycloud.itu.int/s/6aPwzXaTcLob5ZH) and [March 2025](https://mycloud.itu.int/s/we627JnJQRSi9Y8) are available on the respective document containers.

Following the discussions during the previous CITS meetings in September 2024 and March 2025, 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 September 2024 was attended by 43 participants. The report is available [here](https://mycloud.itu.int/s/ckCoD3DjiPd5Cpa).

The CITS meeting in March 2025 was attended by 39 participants. The report is available [here](https://mycloud.itu.int/s/xJkS8cb9iAmkoia).

These meetings were attended by representatives from SDOs and other organizations including IEEE, 5GAA, ERTICO, ISO, IEC, ETSI, Car2Car Communication Consortium, CCSA, CSAE, ARIB, TSDSI, SAE International, WWRF, and 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.

CITS established 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. EG-ComAD has organized three meeting since the last TSAG on – 12 September 2024, 6 December 2024 and 7 March 2025. See for details on EG-ComAD in [SECTION 2](#_2_CITS_Expert).

The activities of EG-ComAD are conducted through two Working Groups:

* 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)
* Working Group 2 – [*“Vehicular communications for advanced emergency braking, including to protect VRUs”*](https://www.itu.int/en/ITU-T/extcoop/cits/egcomad/wg02/Pages/default.aspx)

**NOTE:** During WTSA-24, a new Resolution 104 was adopted on [Promoting and Strengthening Standardization Activities for Vehicular Communications](https://www.itu.int/en/ITU-T/ITS/Pages/WTSA-Resolution-104.aspx).

The e-meeting of CITS in March 2025 was preceded by the **Symposium on the Future Networked Car (**[**FNC-2025**](https://fnc.itu.int/)**)**, co-organized by **ITU** and **UNECE** on **24 -27 March 2025**. The event consisted of the following sessions:

* 24 March 2024 – OPENING + SESSION 1:
Advancing Vehicle Safety through Regulatory Innovation
* 25 March 2024 – SESSION 2:
Challenges in Achieving Effective Vehicle Remote Driving
* 26 March 2024 – SESSION 3:
The outlook for Automotive Satellite-Cellular Connectivity
* 27 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 recorded sessions](https://fnc.itu.int/search-result-programme/?keyword=&category=&location=&organizer=&status=&enddate=May+30+2025&startdate=January+01+2025&sort=&price=0%3B299)
2. **ITU News Article:** [Here](https://www.itu.int/hub/2025/03/standards-shaping-the-future-of-connected-automated-and-safe-mobility/)

This year an additional session of the FNC Symposium is being organized on 11 July 2025 – FNC Symposium at AI for Good Global Summit. See upcoming [FNC-2025](https://fnc.itu.int/).

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 two (e-)meeting since the last TSAG:

* **E-meeting, 13 September 2024:** Collaboration on ITS Communication Standards (CITS) e-meeting
* **E-meeting, 28 March 2025:** 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:

* 3rd Meeting of CITS Expert Group on Communications Technology for Automated Driving, **12 September 2024**
* 4th Meeting of CITS Expert Group on Communications Technology for Automated Driving, **6 December 2024**
* 5th Meeting of CITS Expert Group on Communications Technology for Automated Driving, **7 March 2025**
* Symposium on the Future Networked Car ([FNC-2025](https://fnc.itu.int/))**, 24-27 March 2025**

# 1.1.2 Planned meetings and events:

* 23 May 2025, EG-ComAD/WG2 Meeting
* 27 May 2025, EG-ComAD/WG1 Meeting
* 20 June 2025, EG-ComAD/WG2 Meeting
* 26 June 2025, EG-ComAD/WG1 Meeting
* 11 July 2025 – [FNC Symposium](https://fnc.itu.int/) at AI for Good Global Summit
* 25 July 2025, EG-ComAD/WG2 Meeting
* 31 July 2025, EG-ComAD/WG1 Meeting
* 12 September 2025 – CITS Meeting
* 26 September 2025, EG-ComAD Meeting
* 19 December 2025, EG-ComAD Meeting

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 SG21, 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)

EG-ComAD conducts its work through the following Working Groups:

* [Working Group 1 - Vehicular communications for merging automatically into congested lanes: Ganesh Jayaram (VW CARIAD) and Roy Goudy (Nissan) serving as the EG-ComAD/WG1 Chair and Vice-Chair respectively](https://www.itu.int/en/ITU-T/extcoop/cits/egcomad/wg01/Pages/default.aspx)
* [Working Group 2 – Vehicular communications for advanced emergency braking, including to protect VRUs](https://www.itu.int/en/ITU-T/extcoop/cits/egcomad/wg02/Pages/default.aspx): Stéphane Buffat (Renault, LAB) and Zengwen Li (Changan Automobile) serving as the EG-ComAD/WG2 Chair and Vice-Chair respectively

WG1 has conducted the following meetings since the previous TSAG meeting:

* 29 August 2024
* 2 October 2024
* 31 October 2024
* 18 December 2024
* 12 February ​2025
* 27 March 2025
* 24 April 2025

The meeting documents of WG1 meetings are found at: <https://mycloud.itu.int/s/WDFdSyydJtbxc5k>

WG2 has conducted the following meetings since the previous TSAG meeting:

* 20 September 2024
* 4 November 2024
* 16 December 2024
* 24 January 2025
* 21 February 2025
* 21 March 2025

The meeting documents of WG2 meetings are found at: <https://mycloud.itu.int/s/pTJ3mXNLwLCRbgi>

# 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/search-result-programme/?keyword=&enddate=December+30+2024&startdate=January+01+2024) on 11-14 March 2024)
* 35th CITS Meeting, 13 September 2024, e-Meeting
* 36th CITS Meeting, 28 March 2025, e-Meeting (collocated with [Symposium FNC-2025](https://fnc.itu.int/search-result-programme/?keyword=&category=&location=&organizer=&status=&enddate=May+30+2025&startdate=January+01+2025&sort=&price=0%3B299) on 24-27 March 2025)

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