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| **Abstract:** | The document summarizes ITU-T activities in the field of ITS communications since the last meeting of TSAG in May-June 2023. |

# 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.

One CITS meeting has been held since the last TSAG meeting (May/June 2023) – on 22 September 2023. 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. The documents of the meeting in September 2023 are available [here](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/meeting-documents.aspx?RootFolder=/en/ITU-T/extcoop/cits/Documents/Meeting-20230922-e-meeting&FolderCTID=0x0120008D91490DA7927C4D8A0BB5A73929B07D&View=%7b73BE16B3-22C9-43D5-A9FD-D8BC067A87FF%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 September 2023 was attended by 47 participants representing SDOs and other organizations including 3GPP, IEEE, 5GAA, ISO, ETSI, Car2Car Communication Consortium, CCSA, CATARC, CSAE, ARIB, 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, during the CITS meeting, the **[Expert Group on Communications Technology for Automated Driving](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/egcomad.aspx)** was established. This new group will explore the communications technologies for automated driven vehicles, aiming at enabling the equipment of all new vehicles (from about 2030) with the necessary communications technology, so that all vehicles with automated driving systems are able to drive as safely as practical, including doing reliable automated merging, among other applications (see [paragraph 2](#_2_CITS_Expert) below for more details).

The e-meeting of CITS in September 2023 was followed by a **spin-off edition** of the **Symposium on the Future Networked Car ([FNC spin-off in Qatar](https://fnc.itu.int/fnc-regional-spin-off-in-qatar/))**, co-organized by **ITU** and **UNECE** on **6 October 2023**. The Symposium, which was sponsored (platinum level) by the Communication Regulatory Authority of Qatar (CRC), was organized as a physical event (first time since Covid) and was collocated with the spin-off of the Geneva Motor Show in Doha, Qatar and the F1 race.

You may be interested in the following resources:

1. **Video Highlights of the Event:** [Watch the Video](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fyoutu.be%2F8Q3cfx0XR_g&data=05%7C01%7Cstefano.polidori%40itu.int%7C6e0433256cb04723a51008dbca677d31%7C23e464d704e64b87913c24bd89219fd3%7C0%7C0%7C638326318313542455%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=7uLVQrIvsDlCuc8%2FNjGwP0pXEHptItYuk1Wg39VGflw%3D&reserved=0)
2. **Event Photos:** [View the Photo Album](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.flickr.com%2Fphotos%2Fitupictures%2Falbums%2F72177720311815263&data=05%7C01%7Cstefano.polidori%40itu.int%7C6e0433256cb04723a51008dbca677d31%7C23e464d704e64b87913c24bd89219fd3%7C0%7C0%7C638326318313542455%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=T9KiJo25%2FHd4GLPS3Q2g0x102O9V681xK9LpkUlAKgs%3D&reserved=0)
3. **News Story Released Prior to the Event:** [Read the Article](https://www.itu.int/hub/2023/10/smart-mobility-in-focus-at-the-future-networked-car-symposium/)
4. **Full recorded FNC spin-off Symposium:** [Watch the recording](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fzoom.us%2Frec%2Fplay%2F9I_1WO-_xQwvzHT03IiZgwGdqd9sndxL_srVEChnjs632GLMLwTyxo2jA2I6PyymjIkEOwJnBNW5rgvE.iLOGrDTd4xrbhlvT%3Fautoplay%3Dtrue%26startTime%3D1696591920000&data=05%7C01%7Cstefano.polidori%40itu.int%7C6e0433256cb04723a51008dbca677d31%7C23e464d704e64b87913c24bd89219fd3%7C0%7C0%7C638326318313542455%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=OAmwSOTOo%2F%2FlfaawH6FZgL997V2%2FoRrqxnZoPC6EF4Q%3D&reserved=0)
5. **Programme:** [View the programme](https://fnc.itu.int/fnc-regional-spin-off-in-qatar/)



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 informal group “UN Task Force on Vehicular Communication” continue to operate under the UNECE WP29 informal group on ITS: <https://wiki.unece.org/display/trans/ITS+Task+Force+on+Vehicular+Communications>

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](mailto: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, 22 September 2023:** 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:

* Webinar on “[Digital Transformation of Mobility: Paving the way for road safety](https://www.itu.int/cities/standards4dt/ep26/)”, **virtual, 14 June 2023**
* Digital Transformation and Innovation for Safer Roads - [2023 Kofi Annan Road Safety Award](https://www.kofiannanfoundation.org/our-work/2023-kofi-annan-road-safety-award/), **Marrakech, Morocco, 25-26 September 2023**
* Symposium on the Future Networked Car ([FNC spin-off in Qatar](https://fnc.itu.int/fnc-regional-spin-off-in-qatar/)), **Doha, Qatar,** **6 October 2023**

# 1.1.2 Planned meetings and events:

* **Virtual, 15 March 2024:** [Collaboration on ITS Communication Standards (CITS)](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/default.aspx)
* **Virtual, 11-14 March 2024:** [Future Networked Car Symposium](https://fnc.itu.int/) (FNC-2024)

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) has been 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 was 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.

Hideaki Takahashi (Nokia) was appointed as the Co-Chair along with Yuming Ge (CAICT), who serves as the Vice-chair. The group is currently undertaking consultations to appoint a co-chair from the automotive sector. See for more information the liaison statement sent to TSAG found in [TSAG-TD359](https://www.itu.int/md/T22-TSAG-240122-TD-GEN-0359/en).

ANNEX: 1

# 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 2022)
* 33rd CITS Meeting, 22 September 2023, e-Meeting

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