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| A black and white logo  Description automatically generated with low confidence | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2022-2024 | | | TSAG-TD047 | |
| **TSAG** | |
| **Original: English** | |
| **Question(s):** | | | N/A | Geneva, 12 - 16 December 2022 | |
| **TD** | | | | | |
| **Source:** | | | Chairman, Collaboration on ITS Communication Standards | | |
| **Title:** | | | Report on Collaboration on ITS Communication Standards and ITS-related activities | | |
| **Contact:** | | T. Russell Shields Qualcomm USA | | | E-mail: [thomasru@qti.qualcomm.com](mailto:thomasru@qti.qualcomm.com) |

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| **Abstract:** | The document summarizes ITU-T activities in the field of ITS communications since the last meeting of TSAG in January 2022. |

# 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).

Contents

[Action required 1](#_Toc121287872)

[1 Collaboration on ITS Communication Standards (CITS) 2](#_Toc121287873)

[1.1 CITS-related events 3](#_Toc121287874)

[1.1.1 Concluded meetings and events: 3](#_Toc121287875)

[1.1.2 Planned meetings and events: 3](#_Toc121287876)

[2 ITU-T Focus Group on Vehicular Multimedia (FG-VM) 4](#_Toc121287877)

[3 ITU-T Focus Group on AI for Autonomous and Assisted Driving (FG-AI4AD) 6](#_Toc121287878)

[ANNEX - All the previous CITS meetings 8](#_Toc121287879)

# 1 Collaboration on ITS Communication Standards (CITS)

The intent of the Collaboration on ITS Communication Standards ([CITS](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/default.aspx)) is to provide a globally recognized forum for the coordination of an internationally accepted, globally harmonized set of Intelligent Transportation Systems (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.

Two CITS meetings have been held since the last TSAG meeting (January 2022): Two virtual meetings – one on 18 March 2022 and another on 23 September 2022. 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 March 2022 are available [here](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/meeting-documents.aspx?RootFolder=/en/ITU-T/extcoop/cits/Documents/Meeting-20220318-e-meeting&FolderCTID=0x0120008D91490DA7927C4D8A0BB5A73929B07D&View=%7b73BE16B3-22C9-43D5-A9FD-D8BC067A87FF%7d) along with the relevant documentation for the meeting in September 2022 being made available [here](https://www.itu.int/en/ITU-T/extcoop/cits/Pages/mdocs.aspx?RootFolder=/en/ITU-T/extcoop/cits/Documents/Meeting-20220923-e-meeting&FolderCTID=0x0120008D91490DA7927C4D8A0BB5A73929B07D&View=%7b0A39776B-5FED-4F48-94DB-F05F290ECE45%7d).

Following the discussions during the previous two CITS meetings, several SDOs have provided information on their relevant standards for inclusion in the [online ITS Communication Standards database](https://www.itu.int/net4/ITU-T/landscape#?topic=0.131&workgroup=1&searchValue=&page=1&sort=Revelance). The CITS meeting in March 2022 was attended by 45 participants representing SDOs and other organizations including IETF, IEC, SAE International, CSAE, IEEE, 5GAA, ISO, CEN, W3C, ETSI, Car2Car Communication Consortium, TIAA, TSDSI, TTC, WWRF, SAE International, SAE China 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.

The e-meeting of CITS in March 2022 was co-located, with the 17th **Symposium on the Future Networked Car 2022 (**[**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)**)**, co-organized by **ITU** and **UNECE** on **22 – 25 March 2022**. The Symposium was attended by over 350 participants. As there was no formal event of the Geneva Motor Show, the Symposium was organized as a fully virtual meeting over four days. Changan Automobile Cosupported the event as a Gold Sponsor. The programme was developed, with the panelists connecting to the sessions remotely from **22-25 March 2022**:

* ***22 March 2022:*** [OPENING + SESSION 1: Government Authorities’ Coordination for Automated Driving and their Intelligent Transport](https://fnc.itu.int/event/opening-session-1-regulatory-advances-in-highly-automated-driving/)
* ***23 March 2022:*** [SESSION 2: Artificial General Intelligence Applied to Vehicle Safety, Services, and Transport Management: Current Status and Future Directions](https://fnc.itu.int/event/session-2-vehicle-cybersecurity-framework-is-ready-its-time-for-deployment/)
* ***24 March 2022:*** [SESSION 3: Automated Driving Systems for Consumer and Other Vehicles (Trucks, Delivery, Shuttles, Robotaxis, Etc.)](https://fnc.itu.int/event/session-3-highly-automated-driving-how-we-get-there/)
* ***25 March 2022:*** [SESSION 4: Wireless Communications Applied to Vehicle Safety, Services, and Transport Management – Current Status and Future Directions](https://fnc.itu.int/event/session-4-communication-for-highly-automated-driving/)

See the final Programme at: <https://fnc.itu.int/programme/> (selecting 2022).

The next CITS e-meeting was scheduled on 23 September 2022. This meeting was attended by 64 participants. As a testament to the importance of CITS as a platform, several entities provided status and progress reports for discussion. CITS have received at this meeting contributions (progress reports) from the following organizations: 5GAA, Car2Car Communication Consortium, CEN TC278, ETSI TC ITS, ARIB, CCSA, ISO TC241, ITU-T SG16, SG17, SG20, ITU-R SG5, FG-AI4AD, FG-VM, IEEE 802.11 TGbd, IETF IPWAVE WG, SAE International, SAE China, TTC Connected Car WG, TIAA, IEC SEG11, TSDSI, UNECE TF CS-OTA and WP.29, WWRF CV WG. Relevant information to update the [ITS communication standards database](https://www.itu.int/net4/ITU-T/landscape#?topic=0.131&workgroup=1&searchValue=&page=1&sort=Revelance) was provided and through its upcoming meetings, CITS will continue to work with the designated experts from each SDO to populate the database with updates on the ITS standards from the respective SDOs.

It was noted that FG-AI4AD and FG-VM had completed their work and submitted their finalized deliverables to their parent ITU-T Study Group 16.

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 FG‑AI4AD, SG16 and SG20 have various ongoing studies. Collaboration among the UNECE Task Force 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.

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 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 any ITS communications related input.

# 1.1 CITS-related events

# 1.1.1 Concluded meetings and events:

CITS has convened two (e-)meetings since the last TSAG:

* **E-meeting, 17 March 2022:** Collaboration on ITS Communication Standards (CITS) e-meeting (collocated with the Symposium on the Future Networked Car 2022, 22 – 25 March 2022)
* **E-meeting, 23 September 2022:** Collaboration on ITS Communication Standards (CITS) e-meeting

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

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

* **Virtual Symposium, 22-25 March 2022,** [The Symposium on the Future Networked Car (FNC-2022)](https://fnc.itu.int/)
* **Online Workshop, 27 April 2022**: [ITU Workshop on Vehicular Multimedia Implementation Aspects](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/2022/0427/Pages/default.aspx)
* **AI for Good – Webinar, 16 May 2022**: [*In service monitoring and reporting for automated driving safety*](https://aiforgood.itu.int/event/in-service-monitoring-and-reporting-for-automated-driving-safety/)
* **Online Workshop, 30 June 2022:** [ITU Workshop on "Voice Recognition Implementation in Vehicles"](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/2022/0630/Pages/default.aspx)

# 1.1.2 Planned meetings and events:

* **Virtual Symposium,** **13 – 16 March 2023:** Symposium on the Future Networked Car ([FNC-2023](https://fnc.itu.int/))
  + **13 March 2023**: [OPENING + SESSION 1](https://fnc.itu.int/2023-session-1/): *Will AI Controlled Automated Vehicles Be Safe for Road Users?*
  + **14 March 2023**: [SESSION 2](https://fnc.itu.int/2023-session-2/): *Using Automotive Artificial Intelligence to Improve Vehicle Safety, Services and Transport Management*
  + **15 March 2023**: [SESSION 3](https://fnc.itu.int/2023-session-3/): *Automated Driving Systems (ADS) for Consumer and Other Vehicles*
  + **16 March 2023**: [SESSION 4](https://fnc.itu.int/2023-session-4/): *Wireless Communications Applied to Vehicle Safety, Services, and Transport Management – Current Status and Future Directions*
* **E-meeting, 17 March 2023:** Collaboration on ITS Communication Standards (CITS) e-meeting

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

# 2 ITU-T Focus Group on Vehicular Multimedia ([FG-VM](https://www.itu.int/en/ITU-T/focusgroups/vm/Pages/default.aspx))

The [ITU-T Focus Group on Vehicular Multimedia (FG-VM)](https://www.itu.int/en/ITU-T/focusgroups/vm/Pages/default.aspx), established by ITU-T Study Group 16 at its meeting in Ljubljana, 9-20 July 2018, analyzes and identifies gaps in the vehicular multimedia standardization landscape and drafts technical reports and specifications covering, among others, vehicular multimedia use cases, requirements, applications, interfaces, protocols, architectures and security.

Following the 1st meeting of the ITU-T FG-VM held on 11 October 2018 in Ottawa, Canada, thirteen additional meetings of the FG-VM were convened:

* 2nd FG-VM Meeting, 23-25 January 2019, Tokyo, Japan (collocated with [Workshop](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20190123/Pages/default.aspx) on 23 January 2019)
* 3rd FG-VM Meeting, 18-19 March 2019, Geneva, Switzerland
* 4th FG-VM Meeting, 16-17 May 2019, e-Meeting
* 5thFG-VM Meeting, 11-12 July 2019, Changchun, China
* 6thFG-VM Meeting, 11-12 September 2019, Budapest, Hungary (collocated with [mini-Workshop](https://www.itu.int/en/ITU-T/focusgroups/vm/Pages/11-9_wsp.aspx) on 11 September 2019)
* 7th FG-VM Meeting, 12-13 December 2019, Geneva, Switzerland
* 8th FG-VM Meeting, 12-13 March 2020, Geneva, Switzerland
* 9th FG-VM Meeting, 18-19 June 2020, e-Meeting
* 10th FG-VM Meeting, 28-29 September 2020, e-Meeting
* 11th FG-VM Meeting, 10-11 December 2020, e-Meeting (collocated with [Workshop](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20201210/Pages/default.aspx) on 10 December 2021)
* 12th FG-VM Meeting, 12-13 April 2021, e-Meeting (collocated with [Special Session](https://www.itu.int/en/ITU-T/focusgroups/vm/Pages/12-04_Special-session.aspx) on 12 April 2021)
* 13th FG-VM Meeting, 29 June 2021, e-Meeting
* 14th FG-VM Meeting, 29 September 2021, e-Meeting
* 15th FG-VM Meeting, 15-16 December 2021, e-Meeting
* 16th FG-VM Meeting, 27-28 April 2022, e-Meeting (collocated with [Online Workshop](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/2022/0427/Pages/default.aspx) on 27 April 2022)
* 17th FG-VM Meeting, 1-2 September 2022, e-Meeting

All the documents of the FG-VM meetings are available [here](https://extranet.itu.int/sites/itu-t/focusgroups/vm/_layouts/15/start.aspx#//sites/itu-t/focusgroups/vm).

The main achievements and developments related to the FG-VM since the 1st meeting include:

* The Technical Report on “[Use Cases and Requirements for the Vehicular Multimedia Networks](https://www.itu.int/en/ITU-T/focusgroups/vm/Documents/FGVM-01R1.pdf)” has been published under FG-VM/WG1 and later updated as [FGVM-01R2](https://www.itu.int/en/ITU-T/focusgroups/vm/Documents/FGVM-01R2.pdf). A related [flipbook](https://www.itu.int/en/publications/Documents/tsb/2020-FG-VM-Use-cases-and-requirements-for-the-vehicular-multimedia-networks/index.html#p=1) new has been developed.  
  NOTE: The technical report was submitted to SG16 (Q27/16) for its endorsement as an ITU‑T Recommendation. It was eventually updated and approved as [Recommendation ITU-T F.749.3](https://www.itu.int/itu-t/workprog/wp_item.aspx?isn=16484).
* The Technical Report on “Architecture of Vehicle Multimedia Systems” has been published under FG-VM/WG2 as [FGVM-02](https://www.itu.int/en/ITU-T/focusgroups/vm/Documents/FGVM-02.pdf?csf=1&e=jK5KdA).  
  NOTE: The technical report was submitted to SG16 (Q27/16) for its endorsement as an ITU-T Recommendation. It was updated and Determined (TAP) as [Recommendation ITU-T H.551](https://www.itu.int/itu-t/workprog/wp_item.aspx?isn=17062) and approved in January 2022.
* The Technical Report on "Implementation Aspects of Vehicular Multimedia" was published [[FG-VM-03](https://www.itu.int/pub/T-FG-VM-2022)]  
  NOTE: SG16 received from FG-VM a final progress report, which was posted as [SG16-TD14-PLEN](https://www.itu.int/md/T22-SG16-221017-TD-PLEN-0014/en). In the Progress report, FG-VM informed on the three Technical Reports that they developed, as reported above in this document. SG16 agreed to start working on the third Technical Report ([FG-VM-03](https://www.itu.int/pub/T-FG-VM-2022)) and established a new work item to develop an ITU-T Recommendation, which will be inspired by this technical Report. The draft Recommendation has the following acronym and title:
  + H.VM-VMIA: “Implementation of vehicular multimedia systems”

The latest version was posted as [SG16-TD68/WP1](https://www.itu.int/md/T22-SG16-221017-TD-WP1-0068/en) (ITU Members restricted).

The current management team plus editors of the FG-VM includes:

|  |  |  |
| --- | --- | --- |
| **Position** | **Name** | **Organization** |
| FG-VM Chairman | Jun (Harry) Li | TIAA, People's Republic of China |
| FG-VM Vice-Chairman/WG1 Chairman | Gaëlle Martin-Cocher | Blackberry, Canada |
| FG-VM Vice-Chairman/WG1 Vice-Chairman | Kaname Tokita | Honda, Japan |
| WG1 Vice-Chairman | Lu Yu | Changan Automobile Co, LTD, China |
| WG1 Vice-Chairman | Guo Yansong | Great Wall Motor Co, LTD, China |
| Editor | James Lepp | Blackberry, Canada |
| WG2 Chairman | Yajun Kou | Global Fusion Media Technology and Development Co. Ltd, China |
| WG2 Vice-Chairman | Dimitri Konstantas | University of Geneva, Switzerland |
| WG2 Vice-Chairman | Jie Li | China Telecom, China |
| Editor | Srinivasagan Ayyappan | Great Wall Motors, Co, LTD, China |
| WG3 Chairman | Francois Fischer | Huawei Technologies R&D, Belgium |
| WG3 Vice-Chairman | Latif Ladid | University of Luxembourg, Luxembourg |
| WG3 Vice-Chairman | Rui Xu | Dongfeng Motor Corporation, ​China |
| WG3 Vice-Chairman | Laitu Yang | Beijing AutoAI Technology Co., Ltd., China |
| * FG-VM Counsellor | Stefano Polidori | ITU/TSB |
| * FG-VM Project Officer | Mythili Menon | ITU/TSB |

FG-VM has formally concluded its work in September 2022 and submitted its deliverables to its parent study group, SG16:

<https://www.itu.int/en/ITU-T/focusgroups/vm>

# 3 ITU-T Focus Group on AI for Autonomous and Assisted Driving (FG-AI4AD)

The ITU-T Focus Group on AI for Autonomous and Assisted Driving ([FG-AI4AD](https://www.itu.int/en/ITU-T/focusgroups/ai4ad/Pages/default.aspx)) was established by ITU-T SG16 at its meeting in Geneva, Switzerland, 7-17 October 2019. This Focus Group delves into the behavioural evaluation of the AI responsible for the dynamic driving task of a vehicle, in accordance with the 1949 and 1968 Convention on Road Traffic of the UNECE Global Forum for Road Safety. It aims to facilitate international harmonisation on the definition of a minimal performance threshold for these AD vehicles.

Following the 1st meeting of the ITU-T FG-AI held on 21-22 January 2020 in London, United Kingdom, which was kicked-off by a Workshop on 21 January: *“*[*Explainable AI (XAI) for Autonomous and Assisted Driving*](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20200121/Pages/default.aspx)*”*, six additional meetings of the FG-AI4AD were convened virtually due to the COVID-19 pandemic:

* 2nd FG-AI4AD Meeting, 4-5 May 2020, e-Meeting
* 3rd FG-AI4AD Meeting, 16-17 September 2020, e-Meeting (collocated with online [Workshop](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20200916/Pages/default.aspx) on 16 September 2020)
* 4th FG-AI4AD Meeting, 2-3 December 2020, e-Meeting (collocated with online [Workshop](https://www.itu.int/en/ITU-T/Workshops-and-Seminars/20201202/Pages/default.aspx) on 2 December 2021)
* 5th FG-AI4AD Meeting, 2-3 March 2021, e-Meeting (collocated with [Webinar](https://aiforgood.itu.int/events/a-regulatory-framework-for-automated-driving-the-value-of-in-use-data-for-creating-a-no-blame-culture-of-safety/) on 2 March 2021)
* 6th FG-AI4AD Meeting, 2-3 June 2021, e-Meeting (collocated with [Webinar](https://aiforgood.itu.int/event/ai-policy-standards-and-metrics-for-automated-driving-safety/) on 2 June 2021)
* 7th FG-AI4AD Meeting, 6-7 October 2021, e-Meeting (collocated with [Webinar](https://aiforgood.itu.int/event/ai-for-road-safety/) on 6 October 2021)
* 8th FG-AI4AD Meeting, 1-2 December 2021, e-Meeting
* 9th FG-AI4AD Meeting, 16-17 May 2022, e-Meeting (collocated with [AI for Good Webinar](https://aiforgood.itu.int/event/in-service-monitoring-and-reporting-for-automated-driving-safety/) on 16 May 2022)
* 10th FG-AI4AD Meeting, 23 June 2022, e-Meeting
* 11th Meeting of FG-AI4AD Meeting, 28-29 September 2022

All the documentation pertaining to FG-AI4AD can be found [here](https://extranet.itu.int/sites/itu-t/focusgroups/ai4ad/_layouts/15/start.aspx#//sites/itu-t/focusgroups/ai4ad).

The main achievements and developments related to the FG-AI4AD since the 1stmeeting include:

* Three workstreams were established under which future activities will be carried out:
* 1st Workstream: Outreach through participation, collaborations and public engagement
* 2nd Workstream: Technical specification and demonstration
* 3rd Workstream: Research based guidance & notices

FG-AI4AD finalized the development of the following three Technical Reports as follows:

* [FGAI4AD-01](https://www.itu.int/pub/T-FG-AI4AD-2022) "Automated driving safety data protocol – Specification"
* [FGAI4AD-02](https://www.itu.int/pub/T-FG-AI4AD-2021-02) "Automated driving safety data protocol – Ethical and legal considerations of continual monitoring"
* [FG-AI4AD-03](https://extranet.itu.int/sites/itu-t/focusgroups/ai4ad/output/FGAI4AD-O-032.docx): "Automated driving safety data protocol – Practical demonstrators"

NOTE: ITU-T SG16 also received from FG-AI4AD a progress report, which was posted as [SG16-TD12/PLEN](https://www.itu.int/md/T22-SG16-221017-TD-PLEN-0012/en). In the Progress report, FG-AI4AD informed on the three deliverables that they developed, as reported above in this document. SG16 agreed to start working on the first deliverables (FG-AI4AD-01) and established a new work item that is a candidate ITU-T Recommendation as follows:

* [H.ADSDP-spec](https://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=18621): "Automated driving safety data protocol-Specification"

SG16 also agreed on an initial baseline text for H.ADSDP, which is found in [SG16-TD70-WP1](https://www.itu.int/md/T22-SG16-221017-TD-WP1-0070) (ITU-T Members restricted).

The current management team plus editors of the FG-AI4AD includes:

|  |  |  |
| --- | --- | --- |
| **Position** | **Name** | **Organization** |
| FG-AI4AD Chairman and editor of TR01 | Bryn Balcombe | ADA Innovation Lab Limited, UK |
| Editor TR02 | Nynke Vellinga | University of Groningen, Netherlands |
| Editor TR03 | Matthew O’Kelly | Trustworthy AI, UK |
| * FG-AI4AD Counsellor | Stefano Polidori | ITU/TSB |
| * FG-AI4AD Project Officer | Mythili Menon | ITU/TSB |

FG-AI4AD has formally completed its work in September 2022 and submitted its deliverables to its parent study group, SG16:

<https://www.itu.int/en/ITU-T/focusgroups/ai4ad>

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 13-16 March 2022)
* 31st CITS Meeting, 23 September 2022, e-Meeting

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