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| Title: ITU logo | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2022-2024 | | | TSAG-TD559 |
| TSAG |
| **Original: English** |
| **Question(s):** | | N/A | | Geneva, 29 July - 2 August 2024 |
| **TD (Ref.:** [SG17-LS121](http://handle.itu.int/11.1002/ls/sp17-sg17-oLS-00121.docx)**)** | | | | |
| **Source:** | | ITU-T Study Group 17 | | |
| **Title:** | | LS/r on metaverse (reply to TSAG-LS35, FG-MV-LS23) [from ITU-T SG17] | | |
| **LIAISON STATEMENT** | | | | |
| **For action to:** | | | - | |
| **For information to:** | | | TSAG, FG-MV | |
| **Approval:** | | | ITU-T Study Group 17 meeting (Geneva, 1 March 2024) | |
| **Deadline:** | | | - | |
| **Contact:** | | | Heung Youl Youm Chair, ITU-T SG17 Korea (Republic of) | Email: [hyyoum@sch.ac.kr](mailto:hyyoum@sch.ac.kr) |
| **Contact:** | | | Jae Hoon Nah Q7/17 Rapporteur Korea (Republic of) | Tel: +82 42 860 6749  E-mail: [jhnah@etri.re.kr](mailto:jhnah@etri.re.kr) |

This liaison statement answers [FG-MV-LS23](https://www.itu.int/ifa/t/2022/ls/fg-mv/sp17-fg-mv-oLS-00023.zip), [TSAG-LS35](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00035.docx).

A new liaison statement has been received from SG17.

This liaison statement follows and the original file can be downloaded from the ITU ftp server at <http://handle.itu.int/11.1002/ls/sp17-sg17-oLS-00121.docx>.

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|  | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2022-2024 | | | | **SG17-LS121** | |
| **STUDY GROUP 17** | |
| **Original: English** | |
| **Question(s):** | | 7/17 | | | Geneva, 20 February - 1 March 2024 | |
| **Ref.:** [**SG17-TD1976**](https://www.itu.int/md/T22-SG17-240220-TD-PLEN-1976/en) | | | | | | |
| **Source:** | | ITU-T Study Group 17 | | | | |
| **Title:** | | LS/r on metaverse (reply to TSAG-LS35, FG-MV-LS23) | | | | |
| **LIAISON STATEMENT** | | | | | | |
| **For action to:** | | | | - | | |
| **For information to:** | | | | TSAG, FG-MV | | |
| **Approval:** | | | | ITU-T Study Group 17 meeting (Geneva, 1 March 2024) | | |
| **Deadline:** | | | | - | | |
| **Contact:** | | | Heung Youl Youm Chair, ITU-T SG17 Korea (Republic of) | | | Email: [hyyoum@sch.ac.kr](mailto:hyyoum@sch.ac.kr) |
| **Contact:** | | | Jae Hoon Nah Q7/17 Rapporteur Korea (Republic of) | | | Tel: +82 42 860 6749 E-mail: [jhnah@etri.re.kr](mailto:jhnah@etri.re.kr) |

ITU-T Study Group 17 (SG17) thanks for TSAG sharing the information on the consideration of FG-MV (ref: [TSAG-LS35](https://www.itu.int/ifa/t/2022/ls/tsag/sp17-tsag-oLS-00035.docx)), and Working Group 9 (WG9) of the ITU Focus Group on metaverse (FG-MV) to share the information of Technical Report on Gap analysis on metaverse standardization (ref: [FG-MV-LS23](https://www.itu.int/ifa/t/2022/ls/fg-mv/sp17-fg-mv-oLS-00023.zip)).

As requested in above two LSs, SG17 would like to share digital twin security related work items which as shown in table 1 for your information.

Table 1: Published standards and ongoing work items

|  |  |  |  |
| --- | --- | --- | --- |
| **Committee** | **Reference** | **Title** | **Status (Target date)** |
| ITU-T SG17 | ITU-T [X.sg-dtn](https://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=18023) | Security guidelines for digital twin network | Ongoing (2024) |
| ITU-T SG17 | ITU-T X.smdtf | Security measures for digital twin federation in smart cities and communities | Ongoing (2024) |
| ITU-T SG17 | ITU-T X.smdtsc | Security measure for digital twin system of smart cities | Ongoing (2024) |

* **ITU-T** [**X.sg-dtn**](https://www.itu.int/ITU-T/workprog/wp_item.aspx?isn=18023)
* Describes security threats to digital twin networks (DTNs), including the process of physical network digitalization;
* Analyses security requirements for DTN, including for the process of physical network digitalization;
* Provides technical and management measures for countering security threats.
* **ITU-T X.smdtf**
* Describes security threats to Digital Twin Federation.
* Analyses security requirements for Digital Twin Federation.
* provides technical and management measures for countering security threats.
* **ITU-T X.smdtsc**
* Identifies the threats specific to the smart city digital twin system.
* Analyses the security requirements specific to the smart city digital twin system.
* Provide security measures of the smart city digital twin system for the smart city key stakeholders to safeguard and improve the services on the smart city system.

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