|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Title: ITU logo | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2022-2024 | | | TSAG-TD586 |
| TSAG |
| **Original: English** |
| **Question(s):** | | N/A | | Geneva, 29 July - 2 August 2024 |
| **TD (Ref.:** [FG-MV-LS45](http://handle.itu.int/11.1002/ls/sp17-fg-mv-oLS-00045.docx)**)** | | | | |
| **Source:** | | FG-MV | | |
| **Title:** | | LS/r on consideration of a new work item ITU-T Q.PMV “Protocol map for metaverse” (reply to SG11-LS159) [from FG-MV] | | |
| **LIAISON STATEMENT** | | | | |
| **For action to:** | | | - | |
| **For information to:** | | | ITU-T SG11, TSAG | |
| **Approval:** | | | FG-MV meeting (Geneva, 13 June 2024) | |
| **Deadline:** | | | N/A | |
| **Contact:** | | | Shin-Gak Kang FG-MV Chair | E-mail: [sgkang@etri.re.kr](mailto:sgkang@etri.re.kr) |
| **Contact:** | | | Hideo Imanaka Chair of Working Group 5 | E-mail: [h.imanaka@nict.go.jp](mailto:h.imanaka@nict.go.jp) |
| **Contact:** | | | Wook Hyun Vice-chair of Working Group 5 | E-mail: [whyun@etri.re.kr](mailto:whyun@etri.re.kr) |

This liaison statement answers [SG11-LS159](https://www.itu.int/ifa/t/2022/ls/sg11/sp17-sg11-oLS-00159.zip).

A new liaison statement has been received from FG-MV.

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-fg-mv-oLS-00045.docx>.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| A black and white logo  Description automatically generated with low confidence | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2022-2024 | | | | FG-MV-LS45 |
| **Focus Group on metaverse** |
| **Original: English** |
| **WG(s):** | | WG5 | | | Geneva, 12–13 June 2024 |
| **Ref.: FG-MV-O-273** | | | | | |
| **Source:** | | FG-MV | | | |
| **Title:** | | LS/r on consideration of a new work item ITU-T Q.PMV “Protocol map for metaverse” (reply to [SG11-LS159](http://handle.itu.int/11.1002/ls/sp17-sg11-oLS-00159.zip)) | | | |
| **LIAISON STATEMENT** | | | | | |
| **For action to:** | | | **-** | | |
| **For information to:** | | | TSAG, SG11 | | |
| **Approval:** | | | FG-MV meeting (Geneva, 13 June 2024) | | |
| **Deadline:** | | | N/A | | |
| **Contact:** | | Shin-Gak Kang FG-MV Chair | | E-mail: [sgkang@etri.re.kr](mailto:sgkang@etri.re.kr) | |
| **Contact:** | | Hideo Imanaka Chair of Working Group 5 | | E-mail: [h.imanaka@nict.go.jp](mailto:h.imanaka@nict.go.jp) | |
| **Contact:** | | Wook Hyun Vice-chair of Working Group 5 | | E-mail: [whyun@etri.re.kr](mailto:whyun@etri.re.kr) | |

|  |  |
| --- | --- |
| **Abstract:** | This document contains the reply liaison statement to SG11-LS159. |

This liaison statement answers [SG11-LS159](http://handle.itu.int/11.1002/ls/sp17-sg11-oLS-00159.zip).

The ITU Focus Group on the Metaverse (FG-MV) would like to thank ITU-T Study Group 11 for issuing the reply liaison statement regarding the consideration of a new work item, ITU-T Q.PMV "Protocol Map for Metaverse" (reply TSAG-LS35) [from ITU-T Study Group 11] (your SG11-LS159 and our FG-MV-I-753).

FG-MV discussed the liaison statement and agreed to send a reply liaison statement to inform SG11 about FG-MV’s views on the deliverables for interoperability across platforms in the metaverse and the protocol map for the metaverse, as outlined in the liaison statement.

Deliverable ITU FGMV-19, titled "Service Scenarios and High-Level Requirements for Metaverse Cross-Platform Interoperability," was approved during the 3rd FG-MV meeting held in December 2023. This deliverable specifies nine service scenarios and high-level requirements for achieving interoperability across metaverse platforms.

During the TSAG meeting held in January 2024, it was decided that multiple Study Groups (SG16, SG20, SG13, and SG11) may consider utilizing this deliverable for future standardization efforts.

Through this liaison, FG-MV would like to inform you that:

* in [FGMV-19](https://www.itu.int/en/ITU-T/focusgroups/mv/Pages/deliverables.aspx), the main scope is application-level interoperability, especially multimedia-related aspects; and
* [FGMV-19](https://www.itu.int/en/ITU-T/focusgroups/mv/Pages/deliverables.aspx) does not include network aspects of interoperability or IoT-related interoperability.

During the 7th FG-MV meeting held in June 2024, [FGMV-43](https://www.itu.int/en/ITU-T/focusgroups/mv/Pages/deliverables.aspx) titled "High-Level Interoperability Architecture for Cross-Platform Metaverse," which builds upon FGMV-19, was approved. Based on its content, these deliverables may not align with the mandate of SG11 due to their lack of network aspects. In the future, some specifications for conformity testing and interoperability in the metaverse, as well as performance measurement for cross-platform metaverse interoperability, could potentially be considered within ITU-T SG11.

Regarding the new work item proposal Q.PMV, "Protocol Map for Metaverse," from SG11 [SG11-LS159], creating a protocol map to achieve an interoperable metaverse is a practical approach. However, before initiating this new work item, there needs to be an investigation into which existing standards could be utilized and which require further development.

In this regard, FG-MV approved two deliverables during the 7th FG-MV meeting: [FGMV-51](https://www.itu.int/en/ITU-T/focusgroups/mv/Pages/deliverables.aspx) Technical Report on Standardization roadmap for metaverse and [FGMV-52](https://www.itu.int/en/ITU-T/focusgroups/mv/Pages/deliverables.aspx) Technical Report on Metaverse standardization landscape for gap analyses. These deliverables outline the standardization activities across relevant SDOs and introduce roadmaps for standardization efforts aimed at realizing the metaverse. Given that many standards are currently in progress and some require enhancements to support the metaverse, ongoing collaboration with the relevant SDOs is essential.

ITU FG-MV extends its thanks to SG11 and TSAG for their collaboration in the pre-standardization work within FG-MV. FG-MV successfully concluded its focus group activities and appreciates the support received in advancing the standardization efforts for the metaverse within ITU-T.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_