3GPP TSG SA WG4#120-e meeting ***S4-221128***

17th– 26th August 2022 revision of S4-220785

**Agenda item:** 8.9

**Source:** Qualcomm Incorporated (Rapporteur)

**Title:** Proposed Work Plan for FS\_SmarTAR

**Version:** 0.3.0

**Document for** Agreement

# Introduction

During SA4#117e the Feasibility Study on “Study on Smartly Tethering AR Glasses” was agreed in [S4-220333](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220333.zip) and afterwards approved in by SA plenary #95-e in [SP-220240](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220240.zip).

The objectives of the study item is the definition of the study item is as follows

- Defining different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalities

- Study the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements according to TR 22.859 and the derived service requirements in TS 22.261.

- Documenting end-to-end call flows for session setup and handling

- Identify media handling aspects of different tethering architectures

- Identify end-to-end QoS-handling for different tethering architectures and define supporting mechanisms to compensate for the non-5G link between the UE and the AR glasses

- Provide recommendations for suitable architectures to meet typical AR requirements such as low power consumption, low latency, high bitrates, security and reliability.

- Collaborate with relevant other 3GPP groups on this matter

- Identify potential normative work for stage-2 and stage-3

In scheduling telcos, the guidance from the MBS SWG chair has been taken into account:

* Thursday 8th September 2022
* Thursday 22nd September 2022
* Thursday 6th October 2022
* Thursday 20th October 2022

# Proposed Time and Work Plan

|  |  |
| --- | --- |
| Meeting | Feasibility Study on “Study on Smartly Tethering AR Glasses” - #950013  |
| SA4#117-e (E-meeting:14-23 February 2022) | * Agree work item in [S4-220333](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_117-e/Docs/S4-220333.zip)
 |
| SA#95-e (March 16 - 18 2022) | * Approve work item in [SP-220240](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220240.zip)
* Assign TR 26.806
 |
| SA4#118-e (E-meeting: 6-14 April 2022) | * Agree on time plan
* Review initial use cases
* Review initial architectures
* Initiate Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements.
* Collaborate with relevant other 3GPP groups, if needed
* Agree on TR26.806 v0.1.0
 |
| SA4#119-e (E-meeting:11-20 May) | * Agree on use cases
* Progress Review and document different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalities
* Progress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements
* Initiate documenting end-to-end call flows for session setup and handling
* Initiate media handling aspects of different tethering architectures
* Initiate Identifying end-to-end QoS-handling for different tethering
* Collaborate with relevant other 3GPP groups, if needed
* Progress TR 26.806
 |
| SA#96 (Jun 6 - 8 2022, Budapest , HU) | * No actions
 |
| 3GPP SA4 MBS SWG Telco (June 30, 2022, 15:30 – 17:30 CEST, Host Qualcomm) | * Progress Review and document different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalities
* Progress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements
* Progress documenting end-to-end call flows for session setup and handling
* Progress media handling aspects of different tethering architectures
* Progress Identifying end-to-end QoS-handling for different tethering
* Progress TR 26.806
* Submission deadline June 29, 2022, noon cest
 |
| 3GPP SA4 MBS SWG Telco (July 7, 2022, 15:30 – 17:30 CEST, Host Qualcomm) | * Progress Review and document different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalities
* Progress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements
* Progress documenting end-to-end call flows for session setup and handling
* Progress media handling aspects of different tethering architectures
* Progress Identifying end-to-end QoS-handling for different tethering
* Progress TR 26.806
* Submission deadline July 6, 2022, noon cest
 |
| 3GPP SA4 MBS SWG Telco (July 28, 2022, 15:30 – 17:30 CEST, Host Qualcomm) | * Progress Review and document different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalities
* Progress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements
* Progress documenting end-to-end call flows for session setup and handling
* Progress media handling aspects of different tethering architectures
* Progress Identifying end-to-end QoS-handling for different tethering
* Progress TR 26.806
* Submission deadline July 27, 2022, noon cest
 |
| 3GPP SA4 MBS SWG Telco (August 4, 2022, 15:30 – 17:30 CEST, Host Qualcomm) | * Progress Review and document different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalities
* Progress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements
* Progress documenting end-to-end call flows for session setup and handling
* Progress media handling aspects of different tethering architectures
* Progress Identifying end-to-end QoS-handling for different tethering
* Progress TR 26.806
* Submission deadline August 3, 2022, noon cest
 |
| SA4#120e (17-26 August, online) | * Progress documenting different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalities
* Progress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements
* Progress documenting end-to-end call flows for session setup and handling
* Progress media handling aspects of different tethering architectures
* Progress Identifying end-to-end QoS-handling for different tethering
* Collaborate with relevant other 3GPP groups, if needed
* Progress TR 26.806
 |
| 3GPP SA4 MBS SWG Telco (September 8, 2022, 15:30 – 17:30 CEST, Host Qualcomm) | * Progress documenting different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalities
* Progress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements
* Progress documenting end-to-end call flows for session setup and handling
* Progress media handling aspects of different tethering architectures
* Progress Identifying end-to-end QoS-handling for different tethering
* Start collecting key issues
* Submission deadline September 7, 2022, noon cest
 |
| SA#97-e (Sep 13 - 19 2022, e-meeting) | * No actions
 |
| 3GPP SA4 MBS SWG Telco (September 22, 2022, 15:30 – 17:30 CEST, Host Qualcomm) | * Progress documenting different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalities
* Progress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements
* Progress documenting end-to-end call flows for session setup and handling
* Progress media handling aspects of different tethering architectures
* Progress Identifying end-to-end QoS-handling for different tethering
* Continue collection key issues
* Submission deadline September 21, 2022, noon cest
 |
| 3GPP SA4 MBS SWG Telco (October 6, 2022, 15:30 – 17:30 CEST, Host Qualcomm) | * Progress documenting different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalities
* Progress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements
* Progress documenting end-to-end call flows for session setup and handling
* Progress media handling aspects of different tethering architectures
* Progress Identifying end-to-end QoS-handling for different tethering
* Continue collection key issues
* Submission deadline October 5, 2022, noon cest
 |
| 3GPP SA4 MBS SWG Telco (October 20, 2022, 15:30 – 17:30 CEST, Host Qualcomm) | * Progress documenting different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalities
* Progress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements
* Progress documenting end-to-end call flows for session setup and handling
* Progress media handling aspects of different tethering architectures
* Progress Identifying end-to-end QoS-handling for different tethering
* Collection continuing key issues
* Submission deadline October 19, 2022, noon cest
 |
| SA4#121 (14 – 18 November, tbc, EU) | * Complete documenting different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalities
* Progress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements
* Progress documenting end-to-end call flows for session setup and handling
* Progress media handling aspects of different tethering architectures
* Progress Identifying end-to-end QoS-handling for different tethering
* Progress discussion on key issues
* Collaborate with relevant other 3GPP groups, if needed
* Progress TR 26.806
 |
|  |  |
| SA#98-e (Dec 13 - 19 2022, E-Meeting) | * Present TS 26.806v1.0.0 for information
 |
| SA4#122 (20 - 24 February, EU,EU) | * Complete Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements
* Complete documenting end-to-end call flows for session setup and handling
* Complete media handling aspects of different tethering architectures
* Complete Identifying end-to-end QoS-handling for different tethering
* Complete recommendations for suitable architectures to meet typical AR requirements such as low power consumption, low latency, high bitrates, security and reliability.
* Complete identified key issues
* Complete Conclusions and Recommendations
* Collaborate with relevant other 3GPP groups, if needed
* Agree TR 26.806v2.0.0
 |
| SA#99 (Mar 22 - 24 2023, Rotterdam, NL) | * Approve TR 26.806v2.0.0
 |