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

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| 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 planReview initial use casesReview initial architecturesInitiate Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elements.Collaborate with relevant other 3GPP groups, if neededAgree on TR26.806 v0.1.0 |
| SA4#119-e (E-meeting:11-20 May) | Agree on use casesProgress Review and document different tethering architectures for AR Glasses including 5G sidelink and non-5G access based on existing 5G System functionalitiesProgress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elementsInitiate documenting end-to-end call flows for session setup and handlingInitiate media handling aspects of different tethering architecturesInitiate Identifying end-to-end QoS-handling for different tetheringCollaborate with relevant other 3GPP groups, if neededProgress 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 functionalitiesProgress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elementsProgress documenting end-to-end call flows for session setup and handlingProgress media handling aspects of different tethering architecturesProgress Identifying end-to-end QoS-handling for different tetheringProgress TR 26.806Submission 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 functionalitiesProgress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elementsProgress documenting end-to-end call flows for session setup and handlingProgress media handling aspects of different tethering architecturesProgress Identifying end-to-end QoS-handling for different tetheringProgress TR 26.806Submission 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 functionalitiesProgress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elementsProgress documenting end-to-end call flows for session setup and handlingProgress media handling aspects of different tethering architecturesProgress Identifying end-to-end QoS-handling for different tetheringProgress TR 26.806Submission 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 functionalitiesProgress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elementsProgress documenting end-to-end call flows for session setup and handlingProgress media handling aspects of different tethering architecturesProgress Identifying end-to-end QoS-handling for different tetheringProgress TR 26.806Submission 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 functionalitiesProgress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elementsProgress documenting end-to-end call flows for session setup and handlingProgress media handling aspects of different tethering architecturesProgress Identifying end-to-end QoS-handling for different tetheringCollaborate with relevant other 3GPP groups, if neededProgress 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 functionalitiesProgress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elementsProgress documenting end-to-end call flows for session setup and handlingProgress media handling aspects of different tethering architecturesProgress Identifying end-to-end QoS-handling for different tetheringStart collecting key issuesSubmission 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 functionalitiesProgress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elementsProgress documenting end-to-end call flows for session setup and handlingProgress media handling aspects of different tethering architecturesProgress Identifying end-to-end QoS-handling for different tetheringContinue collection key issuesSubmission 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 functionalitiesProgress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elementsProgress documenting end-to-end call flows for session setup and handlingProgress media handling aspects of different tethering architecturesProgress Identifying end-to-end QoS-handling for different tetheringContinue collection key issuesSubmission 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 functionalitiesProgress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elementsProgress documenting end-to-end call flows for session setup and handlingProgress media handling aspects of different tethering architecturesProgress Identifying end-to-end QoS-handling for different tetheringCollection continuing key issuesSubmission 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 functionalitiesProgress Studying the relationship between AR Glasses tethering and AR glasses considered as PIN (Personal IoT Network) elementsProgress documenting end-to-end call flows for session setup and handlingProgress media handling aspects of different tethering architecturesProgress Identifying end-to-end QoS-handling for different tetheringProgress discussion on key issuesCollaborate with relevant other 3GPP groups, if neededProgress 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) elementsComplete documenting end-to-end call flows for session setup and handlingComplete media handling aspects of different tethering architecturesComplete Identifying end-to-end QoS-handling for different tetheringComplete recommendations for suitable architectures to meet typical AR requirements such as low power consumption, low latency, high bitrates, security and reliability.Complete identified key issuesComplete Conclusions and RecommendationsCollaborate with relevant other 3GPP groups, if neededAgree TR 26.806v2.0.0 |
| SA#99 (Mar 22 - 24 2023, Rotterdam, NL) | Approve TR 26.806v2.0.0 |