**Source: Xiaomi**

**Title: Work Plan for the study on DaCED V0.6**

**Agenda Item: 16.1**

**Document for: Agreement**

1. Introduction

During SA4#121 meeting, the new study item on “Diverse audio Capturing system for End-user Devices” in S4-221623 was agreed and then approved in SA#98-e in SP-221330. The output of the study item will be TR 26.933 specification. this is the work plan for the project.

1. Proposed Time and Work Plan

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| **Meeting** | **Diverse audio Capturing system for End-user Devices - #980008** |
| **SA4#121 (14 – 18Nov 2022 Toulouse)** | * Agree New Study Item “Diverse audio Capturing system for End-user Devices” in S4-221623 |
| **SA#98-e (13 - 19 Dec 2022)** | * Approve New Study Item “Diverse audio Capturing system for End-user Devices” in SP-221330 |
| **SA4#122 (20 – 24 Feb 2023 Athens)** | * Agree TR skeleton for TR 26.933 * Agree Work Plan v0.1 * Start work on the UE categories determination: |
| **Joint telco on ATIAS/FS\_DaCED: 24 March 2023, 16:00 – 18:00 CET, submission deadline: 23 March 2023, 16:00 CET, host: Dolby** | * Continue to work on:   + UE categories determination; * Start work on components used in audio capture:   + Documentation of components may be used in diverse audio capture. |
| **SA4#123-e (17 – 21 Apr 2023, e-meeting)** | * Continue to work on:   + UE categories determination;   + Documentation of components may be used in diverse audio capture. |
| **SA4#124 (22 May – 26 Mar 2023, Berlin)** | * Continue to work on:   + UE categories determination;   + Components used in audio capture. * Start work on:   + Acoustic design including acoustic structure, microphone array design, etc.   + Signal processing Including necessary relevant processing for audio format, enhancement solution for immersive, speech enhancement, etc |
| **Telco on FS\_DaCED: 31 July 2023, 16:00 – 18:00 CEST, submission deadline: 27 July 2023, 16:00 CEST, host: Xiaomi** | * Continue to work on:   + Components used in audio capture.   + UE categories determination.   + Acoustic design including acoustic structure, microphone array design, etc.   + Signal processing Including necessary relevant processing for audio format, enhancement solution for immersive, speech enhancement, etc. |
| **SA4#125 (21 – 25 Aug 2023, Goteborg)** | * Continue to work on:   + Components used in audio capture.   + Acoustic design including acoustic structure, microphone array design, etc.   + Signal processing Including necessary relevant processing for audio format, enhancement solution for immersive, speech enhancement, etc * Start work on:   + Characterization of the audio capture performance * Complete work on:   + UE categories determination; |
| **Telco: 13 October 2023, 16:00 – 18:00 CEST, submission deadline: 12 October 2023, 16:00 CEST, host: HEAD acoustics** | * Continue to work on:   + Components used in audio capture.   + Acoustic design including acoustic structure, microphone array design, etc.   + Signal processing Including necessary relevant processing for audio format, enhancement solution for immersive, speech enhancement, etc   + UE categories determination; |
| **Telco: 23 October 2023, 16:00 – 18:00 CEST, submission deadline: 20 October 2023, 16:00 CEST, host: HEAD acoustics** | * Continue to work on:   + Components used in audio capture.   + Acoustic design including acoustic structure, microphone array design, etc.   + Signal processing Including necessary relevant processing for audio format, enhancement solution for immersive, speech enhancement, etc   + UE categories determination; |
| **SA4#126 (13 – 17 Nov 2023, Chicago)** | * Continue to work on:   + Signal processing Including necessary relevant processing for audio format, enhancement solution for immersive, speech enhancement, etc;   + Characterization of the audio capture performance * Start work on:   + Example audio capture processing solutions; * Complete work on:   + Components used in audio capture;   + Acoustic design including acoustic structure, microphone array design, etc; |
| **Telco: 12 January 2024, 16:00 – 18:00 CET, submission deadline: 11 January 2024, 16:00 CET,host: HEAD acoustics** | * Continue to work on:   + Components used in audio capture.   + Acoustic design including Stereo capture, etc.   + Signal processing including AEC on different UEs, etc. |
| **SA4#127 (29 Jan – 2 Feb 2024, Sophia Antipolis)** | * **Continue to work on:**   + **Signal processing Including necessary relevant processing for audio format, enhancement solution for immersive, speech enhancement, etc;**   + **Characterization of the audio capture performance;**   + **Example audio capture processing solutions;** |
| **Telco: 8 March 2024, 16:00 – 18:00 CET, submission deadline: 7 March 2024, 16:00 CET, host: Xiaomi** | * **Continue to work on:**   + **Signal processing Including necessary relevant processing for audio format, enhancement solution for immersive, speech enhancement, etc;**   + **Acoustic design including Stereo capture, FOA capture etc.** |
| **SA4#127-bis-e (8 – 12 April 2024)** | * **Continue to work on:**   + **Signal processing Including necessary relevant processing for audio format, enhancement solution for immersive, speech enhancement, etc;**   + **Example audio capture processing solutions.** |
| **SA4#128 (20 – 24 May 2024, Korea)** | * Continue to work on:   + Example audio capture processing solutions; * Complete work on:   + Signal processing Including necessary relevant processing for audio format, enhancement solution for immersive, speech enhancement, etc; * Agree on Draft TR 26.933 v1.0.0 to be sent to SA plenary for information |
| **SA#104 (18 – 21 June 2024,** **China)** | * Present Draft TR 26.933 v1.0.0 for information |
| **Telco: 28 June 2024, 16:00 – 18:00 CET, submission deadline: 27 June 2024, 16:00 CEST, host: Xiaomi** | * Continue to work on:   + Example audio capture processing solutions;   + Remaining issues.   + Start to provide recommendation based on the study. |
| **SA4#129-e (19 – 23 August 2024)** | * Complete work on:   + Example audio capture processing solutions;   + Remaining issues   + Provide recommendation on potential work for DaCED based on the findings in this study. * Agree on TR 26. 933 v2.0.0 to be sent to SA plenary for approval |
| **SA#105 (10 – 13 Sep 2024, Australia)** | * Present TR 26.933 v2.0.0 for approval |