**Source: DaCAS Rapporteur[[1]](#footnote-1)**

**Title: Work Plan for DaCAS v0.4**

**Agenda Item: 7.6**

**Document for: Agreement**

1. Introduction

During SA4#130 meeting, the new work item on “New WID on Diverse audio CApturing System for UEs” in S4-242262 was agreed and then approved in SA#106 meeting in SP-241962. The output of the work item will be TS 26.533 specification. This is the work plan for the project.

1. Proposed Time and Work Plan

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| **Meeting/Time** | **Diverse audio Capturing System for UEs - #1060022** |
| SA4#131 Geneva February 17 – 21 2025 | Agreement on DaCAS work planBegin definition of potential target devicesAgreement on an initial template for potential target devices.Begin definition of minimum performance requirement/objective criteria for raw/compensated microphone signalsBegin definition of requirements for signals for common databaseAgreement on an template for setup of recording scenariosAgreement on an initial template for common database. Especially, legal framework is established if necessary for resolving possible copyright issues.Begin discussion of performance requirements and performance evaluation methodologies for example solutions.Begin discussion of deliverables of example solutions.Begin collection of potential target devices. |
| Telco-110th March 2025 16:00-17:00 CET, submission deadline: 7th March, 16:00, Host: Xiaomi | Progress the template for potential target device(s) based on the initial template.Progress the template for setup of recording scenarios based on the initial template.Progress the template for common database based on the initial template.Continue to work on collection of potential target devices. |
| Telco-231st March 2025 16:00-18:00 CEST submission deadline: 28th March, 16:00 CET, Host: HEAD acoustics GmbH (first 1h on DaCAS) | Agreement on definition of first target device(s) based on the template.Revision of the template for potential target devicesRevision of the template for common databaseContinue to work on collection of potential target devices.Begin work on making legal framework for database. |
| SA4#131-bis-e April 11 – 17 2025 | Agreement on definition of:Three templates version 1.0.Legal framework for common database for legal’s review.Agreement on new potential target devices.Begin collection of common databases for the first target devices based on the templates.Note: above is for first target device(s), continue to work on additional target device(s) and requirements.Continue to work on:The definition of performance requirements and performance evaluation methodologies for example solutionsCollection of potential target devices.Minimum performance requirement/objective criteria for raw microphone signalsContinue updating the three templatesRequirements for signals for common database for the first target devices based on the templates. |
| Telco in28th April 15:30-17:30 CESTsubmission deadline: 25th April, 15:30 CEST, Host: Xiaomi | Continue to work on:Collection of common databases for the first target devices based on the templates.Deliverables of example solutionsThe definition of performance requirements and performance evaluation methodologies for example solutionsUpdating information for agreed potential target devices with latest templates if necessary.Agreement onLegal framework for common database.Three templates version 2.0Minimum performance requirement/objective criteria for raw microphone signalsRequirements for signals for common database for the first target devices based on the templates.Begin verification of common database proposals for the first target devices. Note: above for first target devices |
| SA4#132 Fukuoka May 19 – 23 2025 | Continue to work on:Updates for templates for target device and databaseUpdates for information of the first target devices if neededCollection of common databases of the first target devicesThe definition of performance requirements and performance evaluation methodologies for example solutionsThe definition of deliverables of example solutionsMinimum performance requirement/objective criteria for raw microphone signalsRequirements for signals for common database for the first target devices based on the templates.Agreement on:Common database for some of the first target devicesThree templates version 3.0 for collecting basic common databasePermanent documents version 1.0 for target devices and databases, test methods and requirements, definition of deliverable package. Agree on Draft TS 26.533 v1.0.0 to be sent to SA plenary for information |
| SA#108 Prague, CZ June 10 – 13 2025 | Present Draft TS 26.533 v1.0.0 for information |
| **Telco in June**  time? | Continue to work on:Collection of common databases of the first target devices  * Definition of Minimum performance requirement/objective criteria for raw microphone signals  Definition of test method for example solutionsDefinition of performance requirement/objective criteria for example solutionsPackage definition of example deliverables  * Updates of 3 permanent documents. * Updates of TS 26.533. |
| SA4#133-e July 21 – 25 2025 | Continue to work on:Definition of test method for example solutionsDefinition of performance requirement/objective criteria for example solutionsPackage definition of example deliverablesUpdates of TS 26.533.Agreement on:Common databases of the first target devices.  * Definition of Minimum performance requirement/objective criteria for raw microphone signals. |
| **Telco in August**  **time?**  (needs special powers) | Agreement on:Definition of test methods for example solutionsDefinition of performance requirement/objective criteria for example solutionsPackage definition of example deliverables **Agree on TS 26. 533 v2.0.0 to be sent to SA plenary for approval** |
| SA#109 China, CNSep 16 – 19 2025 | Present TS 26.533 v2.0.0 for approval |

Note: The time plan defines milestones for first target device(s). There can be parallel development of more target devices that can have corresponding milestones that are later than indicated here.

**[Annex A:** Main goals of the work:

Overall intention: provision of immersive audio capture normative example solutions to speed up deployment of a fully end-to-end IVAS ecosystem

The expected goals are listed as follows:

**Part 1:**

* Definition of a set of target devices or target device types
* Definition of minimum performance requirement/objective criteria for raw microphone signal performance and characteristics
  + Note: Propose to set requirements in the corresponding example solutions
  + [Given a target device geometry, the suitability of different microphone placements]
* Definition of requirements for signals based on the set of target devices or target device types
* Collection of a set of target devices or target device types
* Collection of common database for the target devices

**Part 2:**

* Development of immersive audio capture example solutions for the target devices
* Evaluation of available immersive audio capture example solutions based on relevant sending side terminal audio quality test methods defined in TS 26.260.
* Verification and potential revision of the minimum performance requirement/objective criteria for raw microphone signal performance and characteristics based on how the example solutions perform under the audio quality test methods defined in TS 26.260.
* Specification of suitable example solutions.
* Potential alignment with TS 26.260 and 26.261.

The following text is agreed to be used in brackets for further offline editing of main goals/requirements:

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| --- |
| A DaCAS example solution shall at minimum receive as its input:   * Raw/compensated microphone signals * Target device configuration information, TBD * Capture configuration parameters, TBD   Note1: Clarifications required on required/optional raw microphone compensation.  Note2: If microphone compensation is required/provided, clarification required whether example solution can use both raw and compensated microphone signals or only compensated signals. |

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1. Wang Bin, Beijing Xiaomi Mobile Software Co., Ltd; email: wangbin23@xiaomi.com [↑](#footnote-ref-1)