**Source: ATIAS Co-Rapporteurs (Orange, Dolby Laboratories, Inc.)**

**Title: Draft time plan for ATIAS, v0.7**

## Document for: Agreement

## Agenda Item: 14.1

## Introduction

This document presents the time plan for the Terminal Audio quality performance and Test methods for Immersive Audio Services (ATIAS) work item in 3GPP SA4. This document will be updated as necessary.

The update provided in the present document reflects the project plan of the IVAS work item [1] and the necessity to have the ATIAS work in close alignment with the IVAS work item.

## Schedule of ATIAS work

The tentative schedule for the ATIAS work is outlined in the table below.

|  |  |  |
| --- | --- | --- |
| **Month** | **Meeting / date** | **Activity** |
| Mar-2019 | SA#83 (28 Jan – 1 Feb 2019) | **Launch of ATIAS work.** |
| Apr-2019 | SA4#103 (8 – 12 Apr 2019) | Draft skeleton for TS 26.261 v0.0.1 in S4-190426  TS 26.261 v0.0.1 in S4-190543 agreed |
| Jul-2019 | SA4#104 (1 – 5 Jul 2019) | No Tdoc |
| Aug-2019 | SA4#105 (12 – 16 Aug 2019) | Discussion of immersive audio quality evaluations with head-tracking in S4-19053 |
| Sep-2019 | SQ adhoc conf. call on ATIAS (19 September 2019, 15:00-17:00 CEST) | Discussion of ATIAS content in S4-AHQ144 |
| Oct-2019 | SA4#106 (21 – 25 Oct 2019) | Report from SA adhoc conf. call on ATIAS (19th September 2019) in S4-19085  Discussion of ATIAS contents in S4-191116 and test interfaces in S4-191229  pCR to 26.261 (S4-191303)  dCR to 26.260 (S4-191304) |
| Jan-2020 | SA4#107 (20-24 January 2020) | Discussion of proposal for end-to-end tests (S4-200112) and testing interfaces (S4-200125). |
| Apr-2020 | SA4#108-e (2-9 April 2020) | No Tdoc |
| May/June-2020 | SA4#109-e (20 May-3 June 2020) | No Tdoc |
| Aug-2020 | SA4#110-e (19-28 August 2020) | Discussion of test scenarios in S4-201115 |
| Oct-2020 | SQ adhoc conf. call on ATIAS, HaNTE, HInT (19 Oct. 2020, 16:00-17:30 CET)  Submission deadline: 16 Oct. 2020, 23:59 CET  Host: HEAD acoustics | Discussion of draft CR to TS 26.260 on Immersive Speech Communication Systems (S4aQ200155) |
| Nov-2020 | SA4#111-e (12-20 November 2020) | Discussion of updated draft CR to TS 26.260 on Immersive Speech Communication Systems (S4-201309, S4-201612) |
| Jan-2021 | Telco (Jan. 18th, 16:00-17:30 CET; Submission Deadline: Jan. 15th 23:59 CET; Host: Qualcomm Incorporated) | No Tdoc |
| Feb-2021 | SA4#112e | Discussion of evaluation for simplified communication systems for ATIAS (S4-210137) |
| Mar-2021 | Telco (March 15th, 16:00-17:00 CET; Submission Deadline: March 12th 23:59 CET; Host: HEAD acoustics GmbH) | Discussion of next measurements for ATIAS (S4aQ200164) |
| Apr-2021 | SA4#113e | Discussion of objective test results with a conferencing scenario and headphone playback (S4-210531) |
| May-2021 | SA4#114e | Discussion of motion to sound latency measurement (S4-210829) |
| Aug-2021 | SA4#115e | No Tdoc |
| Nov-2021 | SA4#116e | No Tdoc |
| Jan-2022 | SA4#117-e | No Tdoc |
| Apr-2022 | SA4#118-e | Discussion of proposed test method for FOA capture (S4-220482) |
| May-2022 | SA4#119-e | Discussion of objectives and specification structuring (S4-220725) and acoustic sending performance for FOA (S4-220729)No Tdoc |
| Aug-2022 | SA4#120-e | No Tdoc |
| Oct-2022 | Telco (21 October 2022 14:00-17:00 CEST, submission deadline is 20 October 2022, 14:00 CEST, Host: Dolby) | Review of existing test methods for ambisonics in the send direction and proposal of new methods (S4aA220018) |
| Nov-2022 | SA4#121 | Proposal of wind noise testing (S4-221353). LS sent to ETSI STQ on wind noise generator (S4-221516).  Discussion of FOA audio tests (S4-221412). Review of TS 26.260 (S4-221447, S4-221422). Proposal of additional metrics (S4-221449).  CR to TS 26.260 with clarifications of send performance with periphonic array (S4-221426->S4-221518).  Creation of P-doc on ATIAS to collect proposals (S4-221517). |
| ~~Dec-2023~~ | ~~Telco (12 Dec. 2022 16:00-18:00 CET, submission deadline is 9 Dec. 2022, 16:00 CET, Host: Dolby)~~ |  |
| Jan-2023 | Telco (16 Jan. 2023 16:00-18:00 CET, submission deadline is 13 Jan. 2023, 16:00 CET, Host: Dolby) | Discussion of test methods for FOA/MASA audio test (S4aA230006, S4aA230012). |
| Feb-2023 | SA4#122 | Review of inputs (S4-230035, S4-230036, S4-230189, S4-230231, S4-230232, S4-23059) on wind noise generation, stereo capture, FOA/MASA capture  Update of Pdoc (S4-230xxx) |
| Mar-2023 | Telco (24 March. 2023 16:00-18:00 CET, submission deadline is .23 March, 2023, 16:00 CET, Host: Dolby) | Progress discussions on:           Performance Requirements (TS 26.261)           Test Methods (CR to TS 26.260) |
| Apr-2023 | SA4#123 | Progress discussions on:           Performance Requirements (TS 26.261)           Test Methods (CR to TS 26.260) |
| May-2023 | SA4#124 | Progress discussions on:           Performance Requirements (TS 26.261)           Test Methods (CR to TS 26.260) |
| Aug-2023 | SA4#125 | Progress discussions on:           Performance Requirements (TS 26.261)           Test Methods (CR to TS 26.260) |
| Nov-2023 | SA4#126 | **Agreement to send:**  **• TS 26.261 on performance requirements**  **• CR to TS 26.260 on test methods** |
| Dec-2023 | SA#102 (Dec 2023) | **TSG-SA approval of**  **• TS 26.261 on performance requirements**  **• CR to TS 26.260 on test methods** |

# **Revision history**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Meeting** | **Subject/Comment** | **Version** |
| 2019-04-02 | SA4#103 | Draft initial version | 0.1 |
| 2019-20-23 | SA4#106 | Added details (S4-191305) | 0.2 |
| 2020-11-22 | SA4#111-e | Alignments with IVAS\_Codec project plan | 0.3 |
| 2020-02-08 | SA4#112-e | Added telco | 0.4 |
| 2022-04-13 | SA4#118-e | Alignments with IVAS\_Codec project plan | 0.5 |
| 2022-11-17 | SA4#121 | Added telco | 0.6 |
| 2023-02-23 | SA4#122 | Added telco | 0.7 |

# **References**

[1] S4-221527: ” IVAS Permanent document IVAS-2: IVAS Project Plan, v.0.5.0”. IVAS Co-Rapporteur