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

**Title: ISAR Pdoc on Selection Deliverables** **for Phase/Track 2/a, v0.1.0**

**Agenda Item: 14.10**

**1. Introduction**

This Permanent Document describes the deliverables for candidate solutions to be considered in the selection of an ISAR split rendering solution of the IVAS codec standard targeted in Phase/Track 2/a of the ISAR work [1].

The deliverables shall meet the schedule specified in the ISAR Work Plan [1].

The objective of these Selection Deliverables is to provide sufficient amount of information about the candidate solution for the selection decision by SA4 and to ensure that all relevant work item outputs related to phase/track 2a on IVAS specific solutions of the ISAR work plan are provided.

**2 Selection Deliverables**

The following deliverables are required for a candidate solution for split rendering for the IVAS codec.

**2.1 High level technical description of the candidate solution**

The candidate solution shall be accompanied by a technical description. The description should contain sufficient details to allow analysis of the solution.

**2.2 Report covering the compliance to Design Constraints**

The candidate solution shall be accompanied by a report showing that the proposal fulfils all physical and all functional design constraints applicable for IVAS split rendering scenarios in ISAR TR 26.865.

**2.3 Draft CRs to IVAS TSs excluding fixed-point code**

The candidate solution shall be accompanied by all relevant draft CRs to IVAS TSs excluding fixed-point code, i.e., draft CRs to TSs 26.250, 26.252, 26.253, 26.254, 26.255, 26.256, 26.258 (if applicable).

**2.4 Draft TS 26.249**

The candidate solution shall be accompanied by a draft TS 26.249 on Immersive Audio for Split Rendering Scenarios in which the IVAS specific candidate solution shall be specified in generic terms to constitute the baseline of a codec/renderer agnostic solution that will be pursued in phase/track 2b of the work plan.

**2.5 IPR declaration**

The proponent companies shall provide an acceptable IPR declaration, according to the IPR policy of their 3GPP Partner Organization.

**3 Post selection deliverables**

The following deliverables are required from the proponents of a candidate solution for split rendering for the IVAS codec after selection.

**3.1 Draft CR to TSs 26.251 (IVAS fixed-point code) and 26.252**

The proponent(s) of the selected candidate solution are required to provide draft CRs to IVAS TS 26.251 implementing the solution in fixed-point code and a draft CR to 26.252 with corresponding test vectors.

**3.2 Evaluation results demonstrating the equivalence and interoperability of the fixed-point and floating-point split rendering solution implementations**

The proponent(s) of the selected candidate solution are required to provide evaluation results that constitute sufficient evidence of the equivalence and interoperability of the fixed-point and floating-point split rendering solution implementations.

**3.3 Characterization**

Successful completion of the characterization of the IVAS specific ISAR solution is a further post selection deliverable.

The characterization test results including a detailed evaluation proving the equivalence (in terms of functionality, quality and interoperability) of the fixed-point split rendering source code for IVAS with the floating-point split rendering source code for IVAS shall be documented in TR 26.996 (Immersive Audio for Split Rendering Scenarios; Performance characterization) or in TR 26.997 (IVAS codec performance characterization).

**References**

[1] Tdoc S4-240403: Work Plan for the ISAR v0.5.0

1. Stefan Bruhn, Dolby Sweden AB; email: stefan.bruhn@dolby.com [↑](#footnote-ref-1)