**3GPP TSG-SA4 Meeting #127 S4-240XXX**

**Sophia-Antipolis, France, 29th Jan 2024 - 2nd Feb 2024**

**Agenda item:** 6.2

**Source:** Orange, InterDigital Europe

**Title:** [FS\_Sustainability] Draft Work Plan v0.1

**Document for** Discussion

# Introduction

The FS\_Sustainability study aims to investigate and identify mechanisms to enable end to end measurement of energy consumption, investigate and identify enhancements to SA4 architecture and services to improve energy efficiency and to support energy saving of media services, taking the SA1 EnergyServ requirements into consideration.

The main objectives of this study include:

* Refine relevant SA1 use cases (5.5, 5.8, 5.9, 5.10 and 5.14) in TR 22.882 in the SA4 context.
* Document existing APIs and metrics that would be needed for energy measurement, reporting and exposure of media services. This includes whether and what information is exposed, how it is exposed, and at what granularity.
* Identify and evaluate existing mechanisms inside or outside 3GPP that could be used, or enhanced for the above purposes (QoE measurement and reporting, QoS measurement and reporting, audience measurement and reporting, event exposure, CMCD reporting, etc.)
* Study the feasibility of developing implementation-independent metrics and a framework to evaluate the energy usage/savings of multimedia standards features and proposals.

NOTE 1: The study will consider the work done by SA WG2 and WG5 regarding energy consumption measurement, information collection and energy saving, and reuse it as much as possible.

NOTE 2: Exchanges with other 3GPP WGs, CTA WAVE and DVB may be needed, e.g. via formal Liaison Statements.

# Time Plan

The following time plan for the execution of the FS\_ Sustainability study item objectives is proposed in the following table.

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| Meeting | **Study on 3D Video in Real-time Communication** |
| **SA4#127 (29 January - 2 February 2024, Sophia-Antipolis, FR)** | Agree New Study Item FS\_Sustainability in S4-240XXX. |
| **SA#103 (19 - 22 March 2024, FR)** | Approve New Study Item FS\_Sustainability in in SP-24XXXX. |
| SA4#127-bis-e (08 - 12 April 2024, online) | Define and agree initial workplan.Agree Specification skeleton and Scope for TR 26.9XX.Initiate work on:Description of use cases and scenarios from TR 22.822.Identify relevant existing 5G architecture and APIs.Identify existing mechanisms that could be reused (e.g. QoE, QoS, Audience, CMCD).Communicate with other 3GPP working groups and external organizations, if necessary. |
| Post SA4#127-bis-e AHG calls | Progress work on the above. |
| SA4#128 (20 - 24 May 2024, Korea) | Initiate work on:Review SA2/SA5 work.Document existing relevant API and metrics.Identifying gaps in existing mechanisms, APIs and metrics.Communicate with other 3GPP working groups and external organizations, if necessary. |
| Post SA4#128 AHG calls | Progress work on the above |
| SA4#129-e (19 - 23 August 2024, online) | Progress work on the above.Initiate work on:Document relevant requirements.Feasibility of developing implementation-independent metrics and a framework to evaluate the energy usage/savingsCommunicate with other 3GPP working groups and external organizations, if necessary. |
| Post SA4#129 AHG calls | Progress work on the above. |
| SA4#130 (18 - 22 November 2024, Orlando) | Progress work on the above.Initiate work on:  * + Identify recommendations to enhance or enable media energy consumption exposure and measurement.   + Draft initial conclusions in the TR. * Communicate with other 3GPP working groups and external organizations, if necessary. * Agree on TR 26.9XX v1.0.0 to be sent to SA plenary for information. |
| SA#106 (10 - 13 December 2024, Madrid) | Present TR 26.9XX v1.0.0 to SA for information. |
| SA4#131 (17 - 21 February 2025, Geneva) | * Complete all remaining open issues. * Communicate with other 3GPP working groups and external organizations, if necessary. * Agree on TR 26.9XX to be sent to SA plenary for approval |
| SA#107 (11 - 14 March 2025, Korea) | Send TR 26.9XX v2.0.0 to SA for Approval |

# Proposal

We propose the above Work Plan for the SA4 team's consideration.