**Source: VIDEO SWG Chairman[[1]](#footnote-1)**

**Title: VIDEO SWG telco report 31st October 2023**

*The VIDEO SWG has the responsibility for general 3GPP SA4 video matters.*

MINUTES

# 3   VIDEO SWG

## 3.1 Opening of the meeting and Approval of Agenda

### 3.1.1 Opening of the meeting

Gilles Teniou (Tencent, SA4 Video SWG chair) opens the session on October 31, 2023 at 15:00 CET.

Mr. Julien Lemotheux (Orange) is assigned as scribe.

The minutes are shared online: [3GPP SA4 Video SWG Telco (October 31, 2023)](https://docs.google.com/document/d/1poww-vHMF3QpC0Am4M0DM7BtLnB6OhmeslDLj6nyQvg/edit?usp=sharing)

Details of the meeting can be found here: https://portal.3gpp.org/Home.aspx#/meeting?MtgId=60567

### 3.1.2 Registration of Documents

The following documents were registered:

|  |  |  |  |
| --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Agenda item** |
| [**S4aV230074**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230074.zip) | VIDEO SWG telco report 24th October 2023 | VIDEO SWG Chair (Tencent) | 3.2 |
| [**S4aV230075**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230075.zip) | [FS\_AVATAR] New use case addition to TR 26.813 | HuaWei Technologies Co., Ltd., China Mobile Com. Corporation | 3.9 |
| [**S4aV230076**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230076.zip) | [FS\_AVATAR] On Avatar Reference Architecture | HuaWei Technologies Co., Ltd | 3.9 |
| S4aV230077 | [FS\_FGS] Some updates on film grain synthesis testing | Dolby Germany GmbH | 3.7 |
| [**S4aV230078**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230078.zip) | [FS\_AI4Media] Study expectations and way forward | Samsung Electronics Co., Ltd | 3.5 |
| [**S4aV230079**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230079.zip) | [FS\_AVATAR] Updated requirements | Nokia Corporation | 3.9 |
| [**S4aV230080**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230080.zip) | [FS\_HEVC\_Profiles] Updates on HEVC Multiview coding | Apple | 3.8 |
| [**S4aV230081**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230081.zip) | [FS\_HEVC\_Profiles] Updates on scalable HEVC coding | Apple | 3.8 |
| [**S4aV230082**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230082.zip) | [FS\_HEVC\_Profiles] Providing scope and background | Apple | 3.8 |

3.1.3 Approval of Agenda

|  |  |  |  |
| --- | --- | --- | --- |
| [**S4aV230083**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230083.zip) | Proposed agenda for SA4 VIDEO SWG conf. call (October 31th, 2023) | VIDEO SWG Chair (Tencent) | Gilles Teniou |

**E-mail Discussion**: none

**Presenter**: Gilles Teniou

[**S4aV230067**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230067.zip) is **approved**.

### 3.1.4 IPR and Anti-trust Reminder

Available in:  [**S4-201473**](https://www.3gpp.org/ftp/tsg_sa/WG4_CODEC/TSGS4_111-e/Docs/S4-201473.zip)

## 3.2 Reports/Liaisons from other groups/meetings

### 3.2.1 Reports from previous meetings

|  |  |  |  |
| --- | --- | --- | --- |
| [**S4aV230074**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230074.zip) | VIDEO SWG telco report 24th October 2023 | VIDEO SWG Chair (Tencent) | Gilles Teniou |

[**S4aV230074**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230074.zip) is **noted**.

### 3.2.2 Liaisons from other groups

none

## 3.4 MeCAR (Media Capabilities for Augmented Reality)

*WID:* [*SP-220242*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220242.zip) *New WID on ‘Media Capabilities for Augmented Reality’*

No documents

3.5 FS\_AI4Media (Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media)

*WID:* [*SP-220328*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_95E_Electronic_2022_03/Docs/SP-220328.zip) *New SID on Artificial Intelligence (AI) and Machine Learning (ML) for Media*

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| [**S4aV230078**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230078.zip) | [FS\_AI4Media] Study expectations and way forward | Samsung Electronics Co., Ltd | Eric Yip |

**Presenter**: Eric Yip

**Discussion**:

* Imed: I need to understand the relation between SA2 definition and our evaluation. On the normative work, we should condition that. Let’s focus on the evaluation and then identify what needs to be done. And the same rules should apply on the compression.
	+ Eric: I agree with you. But they do also discuss the delivery aspect not only for split.
	+ Imed: Don’t we need to evaluate the performances first?
	+ Gilles: The only request from SA1 was to have those functionalities available. There are really 2 aspects : the efficiency but also the functionality which is enabled.
	+ Imed: There is the format (managed by SA4) and the system aspects. We should support MNO provided and OTT provided. The 1st focus should be on what format is used.
* Serhan: On the proposed way forward, do we plan normative aspects on compression or is it only studies?
	+ Eric: The intention is not to exclude normative work on the compression. Let’s see how the progress is at the end of the release.
* Liangping: I think we should not separate metadata compression and split inference.
	+ Eric: If we identify a need for compression we might need additional study.
	+ Liangping: For object compression use cases for example, one of the motivations was to save energy. Without compression, the goal is not reached.
	+ Eric: When we think about all of these issues, it is quite difficult to go forward. Currently we only have 2 scenarios.
	+ Gaelle: I agree with the split of the studies. But I am not sure what the link between them is.
	+ Stephane: There are many different models adapted to the devices. For such models, it will not be huge.
	+ Imed: We didn’t state that we consider only big models. But we don't consider only big models either. We should not design based on outdated things.
* Gilles: If we identify in the normative work that compression is needed, it will be possible to study it in a second step.
* Thomas: Traffic characteristics are not necessarily defined by 3GPP. There can be 3rd party traffic. I don’t see how that can lead to normative work. The definition of 5QI here doesn't ask for stage 3 work. That is unclear from this document.
	+ Gilles: SA1 has defined its stage 1. SA2 picked the topic and defined stage 2. That was not requested by SA1. On our side, do we need to wait for a request to work on stage 3?
	+ Gilles: Since day 1, we agreed to work on the 3 scenarios. How can we enable those scenarios? We defined 2 tracks to address this.
	+ Thomas: What gap are we addressing?
	+ Gilles: The documentation of these gaps will be part of the TR.
	+ Thomas: Can we begin with the functional gaps before saying we do normative work?
	+ Gaelle: The conclusion of the TR should identify the notion of split rendering (which split point will be used). But to say there is a need for an architecture gap before normative work, I do not agree with that.
	+ Thomas: We get the question internally in Qualcomm and we have no answer because it is not clear.
* Gilles: There are plenty of good points about what needs to be done before doing normative work. Let’s note the document.

**Decision**:

* Noted.

[**S4aV230078**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230078.zip) is **noted**.

## 3.6 FS\_ARMRQoE (Feasibility Study on AR and MR QoE Metrics)

*WID:* [*SP-220616*](https://www.3gpp.org/ftp/tsg_sa/TSG_SA/TSGS_96_Budapest_2022_06/Docs/SP-220616.zip) *New SID on Feasibility Study on AR and MR QoE Metrics*

No documents

## 3.7    FS\_FGS (Feasibility Study on Film Grain Synthesis)

*WID:* [*SP-230539*](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_100_Taipei_2023-06/Docs/SP-230539.zip) *New SID on Feasibility Study on Film Grain Synthesis*

|  |  |  |  |
| --- | --- | --- | --- |
| S4aV230077 | [FS\_FGS] Some updates on film grain synthesis testing | Dolby Germany GmbH | Brian Lee |

**Decision**:

* Not available. The document is withdrawn.

S4aV230077 is **withdrawn**.

## 3.8    FS\_HEVC\_Profiles (Feasibility Study on new HEVC profiles and operating points)

*WID:* [*SP-230540*](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_100_Taipei_2023-06/Docs/SP-230540.zip) *New SID on Feasibility Study on HEVC profiles and operating points*

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| --- | --- | --- | --- |
| [**S4aV230080**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230080.zip) | [FS\_HEVC\_Profiles] Updates on HEVC Multiview coding | Apple | Waqar Zia |

**Presenter**: Waqar Zia

**Discussion**:

* Gilles: With regards to the MPEG process, how long does it take to define such a profile?
* Waqar: I don’t have an exact timeframe but it is a long process.
* Gilles: Within 3GPP in order to serve our own services, we can define it on our side and then remove this piece of text when the MPEG specification is available.
* Waqar: OK.

**Decision**:

* Agreed to be integrated in the next version of the TR.

[**S4aV230080**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230080.zip) is **agreed**.

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| --- | --- | --- | --- |
| [**S4aV230081**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230081.zip) | [FS\_HEVC\_Profiles] Updates on scalable HEVC coding | Apple | Waqar Zia |

**Presenter**: Waqar Zia

**Discussion**:

* Gilles: If we want to reference CMAF, I understand we need to live with these restrictions.
* Waqar: Yes.
* Gilles: Do we have any rationale?
* Waqar: I didn’t hear any.
* Alan: I believe ATSC might have introduced this constraint. This is to use traditional broadcast resolutions (720p, 1080p, …).
* Gilles: I think it is good to document these limitations and check if we can live with them.

**Decision**:

* Agreed to be integrated in the next version of the TR.

[**S4aV230081**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230081.zip) is **agreed**.

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| --- | --- | --- | --- |
| [**S4aV230082**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230082.zip) | [FS\_HEVC\_Profiles] Providing scope and background | Apple | Waqar Zia |

**Presenter**: Waqar Zia

**Discussion**:

* Gilles: One comment on the form, in the scope we will need a sanity check at the end of the study. The scope may not reflect what the content is at the end of the study. Second comment, in clause 4, the first sentence probably needs to be rephrased to remove the reference to the study item.
* Waqar: Right.

**Decision**:

* Agreed. The editor of the draft TR will improve the 1st sentence of clause 4.

[**S4aV230082**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230082.zip) is **agreed**.

## 3.9  FS\_AVATAR (Feasibility Study on Avatars for Real-Time Communication)

*WID:* [*SP-230544*](https://www.3gpp.org/ftp/TSG_SA/TSG_SA/TSGS_100_Taipei_2023-06/Docs/SP-230544.zip) *New SID on Feasibility Study on Avatars for Real-Time Communication*

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| [**S4aV230075**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230075.zip) | [FS\_AVATAR] New use case addition to TR 26.813 | HuaWei Technologies Co., Ltd., China Mobile Com. Corporation | Huan-yu Su |

**Presenter**: Huan-yu Su

**Discussion**:

* Gilles: Are you in a scenario where you have a fixed representation of the avatar and the avatar is animated based on the speech recognition?
	+ Huan-Yu: Correct.
* Imed: This should belong in use case 1. We don’t need a new use case for it.
	+ Huan-Yu: We studied very carefully use case 1 but it is different. We feel better to separate them.
	+ Imed: Both of them are about communication, RGB, … To be honest the only difference is the animation stream. We could as well add speech to that.
	+ Jiayi: I think the potential requirements between image and audio are different. The setup is also different. It would bring confusion to merge the 2 use cases.
	+ Imed: You are already discussing a solution. I think we should look at the use case (communication, …), and then look at the solution.
	+ Jiayi: This use case is already used in the market. A merge would bring confusion, audio driving animation could require more pre-process.
	+ Andrei: The initial idea was to summarize use cases from SA1 in high level scenarios. I also prefer to have only one use case and discuss the specificities in the next section.
* Huan-Yu: I believe video driven vs speech driven are different aspects. Can we consider a sub use case in SA4 practices?
	+ Gilles: This could be indicated in “Feasibility”. The text in the Description of this contribution could be used to improve the current use case. And the Potential Requirements added.

**Decision**:

* Noted. The source will come back with a proposal to enhance the 1st use case on Avatar communications.

[**S4aV230075**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230075.zip) is **noted**.

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| --- | --- | --- | --- |
| [**S4aV230076**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230076.zip) | [FS\_AVATAR] On Avatar Reference Architecture | HuaWei Technologies Co., Ltd | Huan-yu Su |

**Presenter**: Huan-yu Su

**Discussion**:

* Huan-Yu: The goal is to start discussion and have more inputs.
* Imed: If I look at step I2 and I3, it seems to be split rendering
* Huan-Yu: We want to be independent from any specific solution. Ok to improve the figure.

**Decision**:

* Noted. A revision is expected at the next meeting.

[**S4aV230076**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230076.zip) is **noted.**

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| --- | --- | --- | --- |
| [**S4aV230079**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230079.zip) | [FS\_AVATAR] Updated requirements | Nokia Corporation | Saba Ahsan |

**Presenter**: Saba Ahsan

**Discussion**:

* No time

**Decision**:

* Noted. No time for discussion. To be resubmitted at the next SA4 meeting.

[**S4aV230079**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230079.zip) is **noted.**

## 3.10 Others including TEI

No documents.

## 3.11 Close of the session

### 3.12.1   Any other business

none

### 3.12.2 Review of the future work plan

Scheduled Calls:

* ~~3GPP SA4 Video SWG Telco (Oct  10th, 2023, 15:00 – 17:00 CEST, Host Qualcomm; submission deadline: Oct 9th 1630 CEST.)~~
* ~~3GPP SA4 Video SWG Telco (Oct 24th, 2023, 15:00 – 17:00 CEST, Host Qualcomm; submission deadline: Oct 23th 1630 CEST.)~~
* ~~3GPP SA4 Video SWG Telco (Nov 7th, 2023, 15:00 – 17:00 CET, Host Qualcomm; submission deadline: Nov 6th 1630 CET.)~~

Agenda Items:

* MeCAR (Media Capabilities for Augmented Reality)
	+ PD: [S4-231453](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231453.zip)
	+ TP: [S4-231499](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231499.zip)
	+ TS: [S4-231560](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231560.zip)
* FS\_AI4Media (Feasibility Study on Artificial Intelligence (AI) and Machine Learning (ML) for Media)
	+ PD: [S4-231507](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231507.zip), [S4-231508](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231508.zip)
	+ TP: [S4-231330](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231330.zip)
* FS\_ARMRQoE (Feasibility Study on AR and MR QoE Metrics)
	+ TR: [S4-231586](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231586.zip)
	+ TP: [S4-231537](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231537.zip)
* FS\_FGS (Feasibility Study on Film Grain synthesis)
	+ CR 26.955: [S4-231463](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231463.zip)
	+ PD: [S4-231585](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231585.zip)
	+ TP: [S4-231588](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231588.zip)
* FS\_HEVC\_Profiles (Feasibility Study on new HEVC profiles and operating points)
	+ TR: [S4-231550](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231550.zip)
	+ TP: [S4-231549](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231549.zip)
* FS\_AVATAR (Feasibility Study on Avatars for Real-Time Communication)
	+ TR: [S4-231545](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231545.zip)
	+ TP: [S4-231589](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/TSGS4_125_Gotheneburg/Docs/S4-231589.zip)

### 3.12.3 Report

The report will be made available here:

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| --- | --- | --- | --- |
| [S4aV230084](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230084.zip) | VIDEO SWG telco report 31st October 2023 | VIDEO SWG Chair (Tencent) | Gilles Teniou |

### 3.12.4 Close of the session

The meeting was closed at 17:07 CET.

Telco Participants

45 participants

|  |  |
| --- | --- |
| **Name** | **Company** |
| **Alexis Tourapis** | **Apple** |
| **Waqar Zia** | **Apple** |
| **James Hu** | **AT&T** |
| **Jan Outters** | **Ateme** |
| **Paul Gorley** | **BBC** |
| **Jiayi Xu** | **China Mobile** |
| **Yujian Yin** | **China Mobile** |
| **Shuai Gao** | **China Unicom** |
| **Brian Lee** | **Dolby** |
| **Lukasz Litwic** | **Ericsson** |
| **Gerhard Tech** | **Fraunhofer HHI** |
| **Huan-yu Su** | **Huawei** |
| **Alan Stein** | **InterDigital** |
| **Stéphane Onno** | **InterDigital** |
| **Gaëlle Martin-Cocher** | **InterDigital** |
| **Razvan Andrei Stoica** | **Lenovo** |
| **Woosuk Kwon** | **LGE** |
| **Lulin Chen** | **MediaTek** |
| **Xin Wang** | **MediaTek** |
| **Yousef Abdelmalek** | **Meta** |
| **Saba Ahsan** | **Nokia** |
| **Serhan Gül** | **Nokia** |
| **Igor Curcio** | **Nokia** |
| **Gazi Illahi** | **Nokia** |
| **Shane He** | **Nokia** |
| **Julien Lemotheux** | **Orange** |
| **Bart Kroon**  | **Philips** |
| **Thomas Stockhammer**  | **Qualcomm** |
| **Imed Bouazizi**  | **Qualcomm** |
| **Liangping Ma**  | **Qualcomm** |
| **Muhammed Coban**  | **Qualcomm** |
| **Marta Karczewicz**  | **Qualcomm** |
| **Eric Yip** | **Samsung** |
| **Madhukar Budagavi** | **Samsung** |
| **Hyunkoo Yang** | **Samsung** |
| **Rajan Laxman Joshi** | **Samsung** |
| **Sungryeul Rhyu** | **Samsung** |
| **Diego Gibellino** | **Telecom Italia** |
| **Iraj Sodagar** | **Tencent** |
| **Gilles Teniou** | **Tencent** |
| **Emmanuel Thomas** | **Xiaomi** |
| **Emmanouil Potetsianakis** | **Xiaomi** |
| **Mary-Luc Champel** | **Xiaomi** |
| **Qiuting Li** | **ZTE** |
| **Yongjing Zhang** | **?** |

Annex A - The documents status

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Tdoc number** | Title | Source | SWG Agenda Item | Replaced by | SWG Status | SA4 A.I. for Tdocs presented at SA4 plenary\* |
| [S4aV230059](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230059.zip) | [FS\_AVATAR] UC5: Artificial Intelligence-Based Avatar | China Mobile Com. Corporation | 3.9 |  | agreed |  |
| [S4aV230060](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230060.zip) | [FS\_AVATAR] Update UC 4 to support avatar authorization | China Mobile Com. Corporation | 3.9 |  | agreed |  |
| [S4aV230061](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230061.zip) | [MeCAR] pCR on latency metrics definition | InterDigital Finland Oy | 3.4 |  | noted |  |
| [S4aV230062](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230062.zip) | [AI4Media] Split inferencing scenario update | InterDigital Finland Oy | 3.5 |  | noted |  |
| [S4aV230063](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230063.zip) | [FS\_AI4Media] Description for bit-incremental transmission scenario  | Nokia, Fraunhofer HHI | 3.5 | S4aV230072 | revised |  |
| S4aV230064 | Proposed agenda for SA4 VIDEO SWG conf. call (October 10th, 2023) | VIDEO SWG Chair (Tencent) | 3.1 | S4aV230067 | revised |  |
| [S4aV230065](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230065.zip) | [FS\_AI4Media] Scenario for sign language translation | China Mobile Com. Corporation, HUAWEI | 3.5 |  | noted |  |
| S4aV230066 | VIDEO SWG telco report 10th October 2023 | VIDEO SWG Chair (Tencent) | 3.2 |  | noted |  |
| [S4aV230067](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230067.zip) | Proposed agenda for SA4 VIDEO SWG conf. call (October 10th, 2023) | VIDEO SWG Chair (Tencent) | 3.1 |  | approved |  |
| [S4aV230068](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230068.zip) | [SR\_MSE] pCR Reorganizing Split Rendering User Plan | InterDigital Finland Oy | 2.4 |  | withdrawn |  |
| [S4aV230069](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230069.zip) | pCR Metadata Format update | InterDigital Finland Oy | 2.4 |  | withdrawn |  |
| [S4aV230070](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230070.zip) | pCR Media Format and Latency Metrics | InterDigital Finland Oy | 2.4 |  | withdrawn |  |
| [S4aV230071](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230071.zip) | [FS\_FGS] Permanent Document v1.0.1. | Dolby Germany GmbH | 3.7 |  | noted |  |
| [S4aV230072](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230072.zip) | [FS\_AI4Media] Description for bit-incremental transmission scenario  | Nokia, Fraunhofer HHI | 3.5 |  | noted |  |
| [S4aV230073](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230073.zip) | Proposed agenda for SA4 VIDEO SWG conf. call (October 24th, 2023) | VIDEO SWG Chair (Tencent) | 3.1 |  | approved |  |
| S4aV230074 | VIDEO SWG telco report 24th October 2023 | VIDEO SWG Chair (Tencent) | 3.2 |  | noted |  |
| [S4aV230075](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230075.zip) | [FS\_AVATAR] New use case addition to TR 26.813 | HuaWei Technologies Co., Ltd., China Mobile Com. Corporation | 3.9 |  | noted |  |
| [S4aV230076](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230076.zip) | [FS\_AVATAR] On Avatar Reference Architecture  | HuaWei Technologies Co., Ltd | 3.9 |  | noted |  |
| S4aV230077 | [FS\_FGS] Some updates on film grain synthesis testing | Dolby Germany GmbH | 3.7 |  | withdrawn |  |
| [S4aV230078](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230078.zip) | [FS\_AI4Media] Study expectations and way forward | Samsung Electronics Co., Ltd | 3.5 |  | noted |  |
| [S4aV230079](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230079.zip) | [FS\_AVATAR] Updated requirements | Nokia Corporation | 3.9 |  | noted |  |
| [S4aV230080](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230080.zip) | [FS\_HEVC\_Profiles] Updates on HEVC Multiview coding | Apple | 3.8 |  | agreed |  |
| [S4aV230081](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230081.zip) | [FS\_HEVC\_Profiles] Updates on scalable HEVC coding | Apple | 3.8 |  | agreed |  |
| [S4aV230082](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230082.zip) | [FS\_HEVC\_Profiles] Providing scope and background | Apple | 3.8 |  | agreed |  |
| [S4aV230083](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230083.zip) | Proposed agenda for SA4 VIDEO SWG conf. call (October 31st, 2023) | VIDEO SWG Chair (Tencent) | 3.1 |  | approved |  |
| [S4aV230084](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230084.zip) | VIDEO SWG telco report 31st October 2023 | VIDEO SWG Chair(Tencent) | 3.2 |  | noted |  |

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