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

**Title: VIDEO SWG telco report 5th December 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 December 5, 2023 at 15:00 CET.

Thomas Stockhammer (Qualcomm) and Julien Lemotheux (Orange) are assigned as scribes.

The minutes are shared online: [3GPP SA4 Video SWG Telco (December 5, 2023)](https://docs.google.com/document/d/1Cl5ghtbVifQC7oNWvLg2fBSBFWlvCm8RHGEZu1cSDwI/edit?usp=sharing)

Details of the meeting can be found here: <https://portal.3gpp.org/Home.aspx#/meeting?MtgId=60668>

### 3.1.2 Registration of Documents

The following documents were registered:

|  |  |  |  |
| --- | --- | --- | --- |
| **TDoc** | **Title** | **Source** | **Agenda item** |
| [**S4aV230091**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230091.zip) | VIDEO SWG telco report 28th November 2023 | VIDEO SWG Chair (Tencent) | 3.2 |
| [**S4aV230092**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230092.zip) | [FS\_AVATAR] Security and privacy consideration on Avatar communication  | Nokia Germany | 3.9 |
| [**S4aV230093**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230093.zip) | [FS\_AVATAR] Permanent Document for Avatar | Qualcomm Incorporated | 3.9 |
| S4aV230094 | [FS\_AVATAR] Description of Metahuman DNA format | Qualcomm Incorporated | 3.9 |
| [**S4aV230095**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230095.zip) | [FS\_HEVC\_Profiles] Miscellaneous corrections | Apple | 3.8 |
| [**S4aV230096**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230096.zip) | [FS\_HEVC\_Profiles] Updates on HEVC Evaluations | Apple | 3.8 |
| [**S4aV230097**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230097.zip) | [FS\_HEVC\_Profiles] Updates on LD MV-HEVC | Apple | 3.8 |
| [**S4aV230098**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230098.zip) | [FS\_AVATAR] pCR on Network Assisted Avatar Generation | Nokia Corporation | 3.9 |
| [**S4aV230099**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230099.zip) | [FS\_AVATAR] pCR on Network Assisted Avatar Animation | Nokia Corporation | 3.9 |
| [**S4aV230100**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230100.zip) | Proposed agenda for SA4 VIDEO SWG conf. call (Dec. 5th, 2023) | VIDEO SWG Chair (Tencent) | 3.1 |

### 3.1.3 Approval of Agenda

|  |  |  |  |
| --- | --- | --- | --- |
| [**S4aV230100**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230100.zip) | Proposed agenda for SA4 VIDEO SWG conf. call (Dec. 5th, 2023) | VIDEO SWG Chair (Tencent) | Gilles Teniou |

**Presenter**: Gilles Teniou

**Discussion**: none

[**S4aV230100**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230100.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

|  |  |  |  |
| --- | --- | --- | --- |
| [S4aV230091](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230091.zip) | VIDEO SWG telco report 28th November 2023 | VIDEO SWG Chair (Tencent) | Gilles Teniou |

[**S4aV230091**](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230091.zip) is **noted**.

### 3.2.2 Liaisons from other groups

none

## 3.3 CRs to features in Release 17 ad earlier

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*

No documents

## 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*

No documents

## 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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| [S4aV230095](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230095.zip) | [FS\_HEVC\_Profiles] Miscellaneous corrections | Apple | Waqar Zia |

**Presenter**: Waqar Zia

**Discussion**:

* None

**Decision**:

* Agreed.

[S4aV230095](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230095.zip) is **agreed**.

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| [S4aV230096](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230096.zip) | [FS\_HEVC\_Profiles] Updates on HEVC Evaluations | Apple | Waqar Zia |

**Presenter**: Waqar Zia

**Discussion**:

* Gilles: Do you have better pictures?
	+ Waqar: I don’t know what happens. I’ll fix this.

**Decision**:

* Agreed.

[S4aV230096](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230096.zip) is **agreed**.

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| --- | --- | --- | --- |
| [S4aV230097](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230097.zip) | [FS\_HEVC\_Profiles] Updates on LD MV-HEVC | Apple | Waqar Zia |

**Presenter**: Waqar Zia

**Discussion**:

* Rajan: A sentence, not in the changes, about “On the other hand, using full resolution frame packing on is not as efficient as multiview based coding[…]” should be in square brackets.
	+ Waqar: I am ok, but this is an existing text.

**Decision**:

* Agreed. The last sentence before the change in 5.2.2 will be put in square brackets by the editor.

[S4aV230097](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230097.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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| --- | --- | --- | --- |
| [S4aV230092](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230092.zip) | [FS\_AVATAR] Security and privacy consideration on Avatar communication  | Nokia Germany | Xuan (Shane) He |

**Presenter**: Xuan (Shane) He

**Discussion**:

* Jiayi: We support deferring to Rel-19. But we also would like to include collaboration with SA6. They have a rel-19 study item focused on application enablement for Localized Mobile Metaverse Services (FS\_MetaApp). One of the study's objectives is to manage avatar-related information such as user profiles and digital assets on application layer, so we propose considering SA6's expertise for the future study.
* Imed: On what basis would we decide to differ from Rel-19? Did you communicate with SA3?
	+ Shane: Because security is included in the SID.
	+ Imed: Can we at least check with them? Will we receive any inputs from them?
	+ Thomas: Rel-18 or 19, this is broken by design. We need a realistic timeplan. Putting a statement right now seems premature. Second point, it is not good to open communications too early. We need to list the threats and then verify by asking them if they have comments.
	+ Shane: I also think it will be beneficial to have a realistic timeplan.
	+ Jiayi: SA6 are waiting for our outcomes. It would be good to exchange with SA3 and SA6.
	+ Thomas: What do you mean by “discuss”? We need concrete questions.
	+ Jiayi: According to the objectives, the risk is to have no concrete solutions on the SA4 side without involving SA3 and SA6.
	+ Imed: SA3 has some mandates from SA1. We have to be sure we are not duplicating the work.
	+ Jiayi: I don’t think we should exclude SA6.
	+ Imed: This study started before the SA6 study. We can look at what they do. But we don’t want to wait for them.
	+ Thomas: We might have to look at different solutions with different impacts. The 1st thing is to evaluate the different solutions. We should do the work.
	+ Saba: I have the same comment as Thomas. We need to study this before identifying dependencies.
* Gilles: It seems that the way forward is to wait and assess the impacts on the security aspects. But it would be good to keep track to avatar activities in other groups in the Permanent Document.
	+ Imed: Yes, it would make sense to document that.
	+ Shane: Do we need a new contribution to include it in the PD?
	+ Gilles: Yes.
	+ Shane: What about the timeplan?
	+ Gilles: The next call will be a good candidate to indicate what is realistic under Rel-18.

**Decision**:

* Noted. A new contribution targeting the Permanent Document will be submitted.

[S4aV230092](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230092.zip) is **noted**.

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| --- | --- | --- | --- |
| [S4aV230093](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230093.zip) | [FS\_AVATAR] Permanent Document for Avatar | Qualcomm Incorporated | Imed Bouazizi |

**Presenter**: Imed Bouazizi

**Discussion**:

* Gilles: Do you have the same structure for the TR?
	+ Imed: similar, but not the same
* Gilles: Tencent submitted a contribution for existing animated solutions. Should be added according to the work plan.

**Decision**:

* Agreed as a basis for further work.

[S4aV230093](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230093.zip) is **agreed**.

|  |  |  |  |
| --- | --- | --- | --- |
| S4aV230094 | [FS\_AVATAR] Description of Metahuman DNA format | Qualcomm Incorporated | Imed Bouazizi |

S4aV230094 is **postponed**.

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| --- | --- | --- | --- |
| [S4aV230098](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230098.zip) | [FS\_AVATAR] pCR on Network Assisted Avatar Generation | Nokia Corporation | Gazi Karam Illahi |

**Presenter**: Gazi Karam Illahi

**Discussion**:

* Imed: I am guessing you are addressing the online based model. In this proposal, the generated base avatar is quite late (step 8). It is probably not very suitable.
	+ Gazi: It will depend on what realistic the avatar is. If you have a cartoonish avatar, it could be possible. But yes, for realistic avatars it may not be applicable.
	+ Imed: Yes, but if I read the call flow, it is a mandatory step. It should be indicated as optional. My proposal is, if we revise it, it should go to the PD, not the TR.
	+ Yongjing: I share the same comment as Imed. Second comment is whether you have considered a 2D avatar model. Can we generalize it to cover all cases?
	+ Gazi: The next pCR will consider downloading an avatar from a repository. A 2D avatar could be included.
	+ Ahmed: I also share the same view. We have not even yet finalized the reference architecture. Defining this is a little bit early. OK for the PD but not for the TR.
* Thomas: I try to understand call flow 7, 9 and 10. What happens if the avatar sent initially is not sufficient?
	+ Gazi: I agree with Thomas. This is generic. We can study further and eventually finalized the call flow with the results.
	+ Thomas: I don’t believe step 7 is a correct call flow. If you need 10s, it is a weird user experience.
	+ Gazi: The experience will be like joining a Teams meeting.
	+ Thomas: OK, we need to document this. I would like to better understand steps 7 and 8. What would be the implementations and procedures?

**Decision**:

* Noted.

[S4aV230098](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230098.zip) is **noted**.

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| --- | --- | --- | --- |
| [S4aV230099](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230099.zip) | [FS\_AVATAR] pCR on Network Assisted Avatar Animation | Nokia Corporation | Gazi Karam Illahi |

**Presenter**: Gazi Karam Illahi

**Discussion**:

* Gilles: What is the difference between the 2 changes?
	+ Gazi: There might be a mistake. Difference is in the second workflow, the animated avatar is generated by the UE. In the 1st workflow, the network helps.
* Imed: Maybe if you do the call flows with the functions, it will be clearer. Or at least mapping them properly.
	+ Gazi: I have mappings with the functions in the text.
* Yongjing: The call flows are very valuable and could be applied to 2D avatars. I can help offline to add this. Another comment on step 8, about the camera configuration data, is that mandatory or optional?
	+ Gazi: Yes, we can put “may”.
* Saba: About Imed comment, if we match this with the functions and merge call flows. We lose information.
	+ Imed: It can be shown in the 2 optional steps.

**Decision**:

* Noted. The call flows should be mapped with the functions. A revision targeting the PD is expected.

[S4aV230099](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230099.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:

* Dec 19th, 2023, 15:00 - 17:00 CET. Submission Deadline Dec 18th, 16:30 CET.
* The Chair invites in particular inputs from the rapporteurs of the current study and work items under the responsibility of the VIDEO SWG on their view on the release 18 completion and eventually the way forward over release 19. Contributions from anyone else are of course welcome.

### 3.12.3 Report

The report will be made available here: [S4aV320101](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230101.zip)

### 3.12.4 Close of the session

The meeting was closed at 16:28 CET.

Telco Participants

37 participants

|  |  |
| --- | --- |
| **Name** | **Company** |
| **Waqar Zia** | **Apple** |
| **Jan Outters** | **Ateme** |
| **James Hu** | **AT&T** |
| **Jiayi Xu** | **China Mobile** |
| **Brian Lee** | **Dolby** |
| **Frédéric Gabin** | **Dolby** |
| **Lukasz Litwic** | **Ericsson** |
| **Huan-Yu su** | **Huawei** |
| **Yongjing Zhang** | **Huawei** |
| **Qi Pan** | **Huawei** |
| **Rufael Mekuria** | **Huawei** |
| **Liangliang Liu** | **Huawei** |
| **Ahmed Hamza** | **InterDigital** |
| **Razvan Andrei Stoica** | **Lenovo** |
| **Woosuk Kwon** | **LGE** |
| **Joonhee Yoon** | **LGE** |
| **Lulin Chen** | **Mediatek** |
| **Serhan Gül** | **Nokia** |
| **Igor Curcio** | **Nokia** |
| **Gazi Illahi** | **Nokia** |
| **Thibaud Biatek** | **Nokia** |
| **Saba Ahsan** | **Nokia** |
| **Shane He** | **Nokia** |
| **Stéphane Ragot** | **Orange** |
| **Julien Lemotheux** | **Orange** |
| **Thomas Stockhammer**  | **Qualcomm** |
| **Imed Bouazizi**  | **Qualcomm** |
| **Eric Yip** | **Samsung** |
| **Madhukar Budagavi** | **Samsung** |
| **Rajan Laxman Joshi** | **Samsung** |
| **Hyunkoo Yang** | **Samsung** |
| **Sungryeul Rhyu** | **Samsung** |
| **Gilles Teniou** | **Tencent** |
| **Iraj Sodagar** | **Tencent** |
| **Emmanuel Thomas** | **Xiaomi** |
| **Emmanouil Potetsianakis** | **Xiaomi** |
| **Quiting Li** | **ZTE** |

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\* |
| [S4aV230085](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230085.zip) | [FS\_AI4Media] Scenario for sign language translation | CMCC, HuaWei Technologies Co., Ltd | 3.5 |  | agreed |  |
| [S4aV230086](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230086.zip) | [FS\_HEVC\_Profiles] Shared viewing experience | Nokia Corporation | 3.8 | [S4aV230090](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230090.zip) | revised |  |
| [S4aV230087](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230087.zip) | [FS\_AVATAR] Avatar animation using Morph Target | Tencent | 3.9 |  | noted |  |
| [S4aV230088](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230088.zip) | [FS\_AI4Media] basic architecture update | HuaWei Technologies Co., Ltd | 3.5 |  | agreed |  |
| [S4aV230089](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230089.zip) | Proposed agenda for SA4 VIDEO SWG conf. call (Nov. 28th, 2023) | VIDEO SWG Chair (Tencent) | 3.1 |  | approved |  |
| [S4aV230090](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230090.zip) | [FS\_HEVC\_Profiles] Shared viewing experience | Nokia Corporation | 3.8 |  | noted |  |
| [S4aV230091](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230091.zip) | VIDEO SWG telco report 28th November 2023 | VIDEO SWG Chair (Tencent) | 3.2 |  | noted |  |
| [S4aV230092](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230092.zip) | [FS\_AVATAR] Security and privacy consideration on Avatar communication  | Nokia Germany | 3.9 |  | noted |  |
| [S4aV230093](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230093.zip) | [FS\_AVATAR] Permanent Document for Avatar | Qualcomm Incorporated | 3.9 |  | agreed |  |
| S4aV230094 | [FS\_AVATAR] Description of Metahuman DNA format | Qualcomm Incorporated | 3.9 |  | postponed |  |
| [S4aV230095](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230095.zip) | [FS\_HEVC\_Profiles] Miscellaneous corrections | Apple | 3.8 |  | agreed |  |
| [S4aV230096](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230096.zip) | [FS\_HEVC\_Profiles] Updates on HEVC Evaluations | Apple | 3.8 |  | agreed |  |
| [S4aV230097](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230097.zip) | [FS\_HEVC\_Profiles] Updates on LD MV-HEVC | Apple | 3.8 |  | agreed |  |
| [S4aV230098](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230098.zip) | [FS\_AVATAR] pCR on Network Assisted Avatar Generation | Nokia Corporation | 3.9 |  | noted |  |
| [S4aV230099](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230099.zip) | [FS\_AVATAR] pCR on Network Assisted Avatar Animation | Nokia Corporation | 3.9 |  | noted |  |
| [S4aV230100](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230100.zip) | Proposed agenda for SA4 VIDEO SWG conf. call (Dec. 5th, 2023) | VIDEO SWG Chair (Tencent) | 3.1 |  | approved |  |
| [S4aV230101](https://www.3gpp.org/ftp/TSG_SA/WG4_CODEC/3GPP_SA4_AHOC_MTGs/SA4_VIDEO/Docs/S4aV230101.zip) | VIDEO SWG telco report 5th December 2023 | VIDEO SWG Chair (Tencent) | 3.2 |  | Next call |  |

1. Gilles TENIOU, Tencent ; teniou@global.tencent.com [↑](#footnote-ref-1)