**** **ISO/IEC JTC 1/SC 29/WG 03 N0307**

**ISO/IEC JTC 1/SC 29/WG 03  
MPEG Systems   
Convenorship: KATS (Korea, Republic of)**

**Document type:** Output Document

**Title:** Summary of Systems standards for video codecs after the 4th WG03 meeting

**Status:** Approved

**Date of document:** 2020-10-23

**Source:** ISO/IEC JTC 1/SC 29/WG 03

**No. of pages:** 17 (with cover page)

**Email of Convenor:** young.L @ samsung . com

**Committee URL:** <https://isotc.iso.org/livelink/livelink/open/jtc1sc29wg3>

**INTERNATIONAL ORGANIZATION FOR STANDARDIZATION**

**ORGANISATION INTERNATIONALE DE NORMALISATION**

**ISO/IEC JTC 1/SC 29/WG 03 MPEG SYSTEMS**

**ISO/IEC JTC 1/SC 29/WG 03 N** **0307**

**July 2021, Virtual**

|  |  |
| --- | --- |
| **Title** | **Summary of Systems standards for video codecs after the 4th WG03 meeting** |
| **Source** | **WG 03, MPEG Systems** |
| **Status** | **Approved** |
| **Serial Number** | **20561** |

# HEVC

## ISO/IEC 23000-19 2nd edition AMD 3 8K HEVC, 4K HFR HEVC and Chroma Location for CMAF

### Short Description

***Motivations:***

***Objective:***

### Project status

### Reference output document

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Title | In Charge | TBP | Available | S/N |
|  | ISO/IEC 23000-19 - Common Media Application Format |  |  |  |  |
| 304 | Request for ISO/IEC 23000-19:2019 AMD 3 8K HEVC, 4K HFR HEVC and Chroma Location for CMAF | Krasimir Kolarov | N | 2021-07-16 | 20558 |
| 318 | Text of ISO/IEC 23000-19:2019 CDAM 3 8K HEVC, 4K HFR HEVC and Chroma Location for CMAF | Thomas Stockhammer | Y | 2021-07-16 | 20572 |

# VVC

## ISO/IEC 23000-19:2019 AMD 2 CMAF Media Profiles for MPEG-H 3D Audio, EVC, VVC and other technologies

### Scope

* Definition of CMAF VVC media track
* Definition of CMAF VVC media profile

### Project status

<https://sd.iso.org/projects/project/82530/overview>

| **Type** | **Version** | **Started** | **End date** | **Status** | **Result** |
| --- | --- | --- | --- | --- | --- |
| [DIS](https://isotc.iso.org/livelink/eb3/part/view.do?id=457439) | 1 | 2021-07-19 | 2021-10-11 | CREATED |  |
| [CD](https://isotc.iso.org/livelink/eb3/part/view.do?id=454904) |  | 2021-03-02 | 2021-04-06 | CLOSED | - |

### Reference output document

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Title | In Charge | TBP | Available | S/N |
|  | ISO/IEC 23000-19 - Common Media Application Format |  |  |  |  |
| 224 | Text of ISO/IEC 23000-19:2019 DAM 2 CMAF Media Profiles for MPEG-H 3D Audio, EVC, VVC and other technologies | Krasimir Kolarov | N | 2021-04-30 | 20286 |

### Open issues

## ISO/IEC 23008-12:2017 AMD 3 Support for VVC, EVC, slideshows and other improvements

### Scope

* VVC image item definition
* VVC subpicture and operating points
* VVC image sequences

### Project status

<https://sd.iso.org/projects/project/81688/overview>

| **Type** | **Version** | **Started** | **End date** | **Status** | **Result** |
| --- | --- | --- | --- | --- | --- |
| [DIS](https://isotc.iso.org/livelink/eb3/part/view.do?id=454672) | 1 | 2021-04-15 | 2021-07-08 | CREATED |  |
| [CD](https://isotc.iso.org/livelink/eb3/part/view.do?id=451050) |  | 2020-11-10 | 2021-01-04 | CLOSED | - |

### Reference output document

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Title | In Charge | TBP | Available | S/N |
|  | ISO/IEC 23008-12 - Image File Format |  |  |  |  |
| 325 | DoC on ISO/IEC 23008-12:2017 DAM 2 Support for VVC, EVC, slideshows and other improvements | David Singer | N | 2021-07-16 | 20579 |
| 331 | Text of ISO/IEC FDIS 23008-12 2nd edition Image File Format | Frederic MAZE | N | 2021-09-24 | 20585 |

### Open issues

## ISO/IEC 23090-2:202x AMD 1 VVC Support and other improvements

### Short Description

***Motivations:***

***Objective:***

### Project status

<https://sd.iso.org/projects/project/83661/overview>

### Reference output document

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Title** | **In Charge** | **TBP** | **Available Date** | **S/N** |
|  | **ISO/IEC 23090-2 - Omnidirectional MediA Format** |  |  |  |  |
| 323 | Request for ISO/IEC 23090-2 AMD 1 VVC Support and other improvements | Sachin Deshpande | N | 2021-07-16 | 20577 |
| 344 | WD of ISO/IEC 23090-2 AMD 1 VVC Support and other improvements | Sachin Deshpande | Y | 2021-08-20 | 20719 |

# EVC

## ISO/IEC 23000-19:2019 AMD 2 CMAF Media Profiles for MPEG-H 3D Audio, EVC, VVC and other technologies

### Scope

* Definition of CMAF VVC media track
* Definition of CMAF VVC media profile

### Project status

<https://sd.iso.org/projects/project/82530/overview>

| **Type** | **Version** | **Started** | **End date** | **Status** | **Result** |
| --- | --- | --- | --- | --- | --- |
| [DIS](https://isotc.iso.org/livelink/eb3/part/view.do?id=457439) | 1 | 2021-07-19 | 2021-10-11 | CREATED |  |
| [CD](https://isotc.iso.org/livelink/eb3/part/view.do?id=454904) |  | 2021-03-02 | 2021-04-06 | CLOSED | - |

### Reference output document

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Title | In Charge | TBP | Available | S/N |
|  | ISO/IEC 23000-19 - Common Media Application Format |  |  |  |  |
| 224 | Text of ISO/IEC 23000-19:2019 DAM 2 CMAF Media Profiles for MPEG-H 3D Audio, EVC, VVC and other technologies | Krasimir Kolarov | N | 2021-04-30 | 20286 |

### Open issues

## ISO/IEC 23008-12:2017 AMD 3 Support for VVC, EVC, slideshows and other improvements

### Scope

* VVC image item definition
* VVC subpicture and operating points
* VVC image sequences

### Project status

<https://sd.iso.org/projects/project/81688/overview>

| **Type** | **Version** | **Started** | **End date** | **Status** | **Result** |
| --- | --- | --- | --- | --- | --- |
| [DIS](https://isotc.iso.org/livelink/eb3/part/view.do?id=454672) | 1 | 2021-04-15 | 2021-07-08 | CREATED |  |
| [CD](https://isotc.iso.org/livelink/eb3/part/view.do?id=451050) |  | 2020-11-10 | 2021-01-04 | CLOSED | - |

### Reference output document

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Title | In Charge | TBP | Available | S/N |
|  | ISO/IEC 23008-12 - Image File Format |  |  |  |  |
| 325 | DoC on ISO/IEC 23008-12:2017 DAM 2 Support for VVC, EVC, slideshows and other improvements | David Singer | N | 2021-07-16 | 20579 |
| 331 | Text of ISO/IEC FDIS 23008-12 2nd edition Image File Format | Frederic MAZE | N | 2021-09-24 | 20585 |

### Open issues

# LCEVC

## ISO/IEC 13818-1:2019 AMD 4 Carriage of LCEVC and other improvements

### Scope

* a new stream type for ISO/IEC 23094-2 (LCEVC) elementary streams;
* descriptors carrying metadata for LCEVC elementary streams;
* constraints for the transport of LCEVC elementary streams;
* a new descriptor for ISO/IEC 23008-3 (kind\_media\_service\_descriptor)

### Project status

| **Type** | **Version** | **Started** | **End date** | **Status** | **Result** |
| --- | --- | --- | --- | --- | --- |
| [CD](https://isotc.iso.org/livelink/eb3/part/view.do?id=451399) |  | 2020-11-20 | 2021-01-12 | OPEN |  |

### Reference output document

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Title** | **In Charge** | **TBP** | **Available Date** | **S/N** |
|  | **ISO/IEC 13818-1 - Systems** |  |  |  |  |
| 312 | Revised text of ISO/IEC 13818-1 8th edition DAM 1 Carriage of LCEVC and other improvements | Yasser Syed | N | 2021-07-16 | 20566 |

### Open issue?

## ISO/IEC 14496-15:202x AMD 1 Support for LCEVC

### Short Description

***Objective:***

To support storage of LCEVC in ISOBMFF

### Project status

<https://sd.iso.org/projects/project/82614/overview>

|  |
| --- |
|  |
| **Type** | **Version** | **Started** | **End date** | **Status** | **Result** |
| [CD](https://isotc.iso.org/livelink/eb3/part/view.do?id=454665) |  | 2021-02-18 | 2021-04-14 | CLOSED |  |

### Reference output document

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Title** | **In Charge** | **TBP** | **Available Date** | **S/N** |
|  | **ISO/IEC 14496-15 - Carriage of NAL unit structured video in the ISO Base Media File Format** |  |  |  |  |
| 342 | Revised text of ISO/IEC 14496-15 DAM 1 Support for LCEVC | Stefano Battista | N | 2021-07-30 | 20689 |

# Other topics

## *ISO/IEC 23090-13 Video Decoding Interface for Immersive Media*

### Scope

The scope of the VDI specification covers the interface between a media application and the Video Decoding Engine (VDE) of the devices implementing video decoders such as HEVC, VVC, EVC and so on. VDI defines new functions and operations extending the existing VDE capabilities exposed by a Khronos OpenMAX interface.

### Project status

<https://sd.iso.org/projects/project/80899/overview>

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **20.20** | **1** | **Working draft (WD) study initiated** |  |  | **2020-02-24** | **Current** |
| 20.60 |  | Close of comment period |  |  |  | Awaiting |
| 20.99 |  | WD approved for registration as CD |  |  |  | Awaiting |

### Reference output document

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Title** | **In Charge** | **TBP** | **Available Date** | **S/N** |
|  | **ISO/IEC 23090-13 - Video Decoding Interface for Immersive Media** |  |  |  |  |
| 290 | Text of ISO/IEC CD 23090-13 Video Decoding Interface for Immersive Media | Emmanuel Thomas | Y | 2021-07-30 | 20544 |
| 291 | Procedures for standard development and software of ISO/IEC 23090-13 | Emmanuel Thomas | N | 2021-07-16 | 20545 |
| 301 | Technologies under Consideration for VDI | Emmanuel Thomas | Y | 2021-07-16 | 20555 |

## ISO/IEC 23001-11 3rd edition Energy-Efficient Media Consumption (Green Metadata)

### Short Description

***Motivations:***

***Objective:***

### Project status

<https://sd.iso.org/projects/project/83674/overview>

### Reference output document

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Title | In Charge | TBP | Available | S/N |
|  | ISO/IEC 23001-11 - Green Metadata |  |  |  |  |
| 329 | Request for ISO/IEC 23001-11 3rd edition Energy-Efficient Media Consumption (Green Metadata) | Edouard Francois | N | 2021-07-16 | 20583 |
| 330 | WD of ISO/IEC 23001-11 3rd edition Energy-Efficient Media Consumption (Green Metadata) | Edouard Francois | Y | 2021-07-30 | 20584 |