**3GPP TSG-SA4 Meeting #128 *S4-240912***

**Jeju, Korea, 20 - 24 May 2024**

|  |
| --- |
| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **26.265** | **CR** | **pseudo** | **rev** | **-** | **Current version:** | **0.1.0** |  |
|  |
| *For* [***HE******LP***](http://www.3gpp.org/3G_Specs/CRs.htm#_blank)*on using this form: comprehensive instructions can be found at* [*http://www.3gpp.org/Change-Requests*](http://www.3gpp.org/Change-Requests)*.* |
|  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

|  |
| --- |
|  |
| ***Title:***  | [VOPS] Mapping of Capabilities to Existing Frameworks |
|  |  |
| ***Source to WG:*** | Qualcomm Incorporated |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | VOPS |  | ***Date:*** | 2024-05-14 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | Rel-19 |
|  | *Use one of the following categories:****F*** *(correction)****A*** *(mirror corresponding to a change in an earlier release)****B*** *(addition of feature),* ***C*** *(functional modification of feature)****D*** *(editorial modification)*Detailed explanations of the above categories canbe found in 3GPP [TR 21.900](http://www.3gpp.org/ftp/Specs/html-info/21900.htm). | *Use one of the following releases:Rel-8 (Release 8)Rel-9 (Release 9)Rel-10 (Release 10)Rel-11 (Release 11)…Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19)* |
|  |  |
| ***Reason for change:*** | There were agreements in S4-240757, parts are implemented. |
|  |  |
| ***Summary of change:*** | Initiates Mapping of Frameworks |
|  |  |
| ***Consequences if not approved:*** |  |
|  |  |
| ***Clauses affected:*** | Annex A, Annex B |
|  |  |
|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  | TS/TR ... CR ...  |
| ***affected:*** |  | **X** |  Test specifications | TS/TR ... CR ...  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications | TS/TR ... CR ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

## ===== CHANGE =====

Annex <A> (normative):
Registration Information

Editor’s Note: Will collect and registration information such as URNs.

## ===== CHANGE =====

Annex <B> (informative):
Mapping of Reference Architecture to Implementations

# B.1 Introduction

This annex provides some background on how to map the reference architectures defined in clause 4 into concrete implementations. The mapping of the capabilities, the configuration of the encoders and decoders through APIs as well as some workflow aspects are provided.

The Annex is not considered to prescribe any implementation, but is expected to support implementors to integrate the capabilities and operating points defined in this specification into their workflows.

The Annex also serves as an analyis on what functionalities are available in existing implementations and where there are potential gaps that may be addressed by the owners of the implementation to fully support all features.

# B.2 WebCodecs API

Editor’s Note: Analyze the configuration information with the APIs defined in WebCodecs. More work on this is needed.

The configuration of the codec is here

dictionary ***VideoDecoderConfig*** {

 required [DOMString](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-DOMString) [codec](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videodecoderconfig-codec);

 [AllowSharedBufferSource](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22AllowSharedBufferSource) [description](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videodecoderconfig-description);

 [[EnforceRange](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22EnforceRange)] [unsigned long](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-unsigned-long) [codedWidth](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videodecoderconfig-codedwidth);

 [[EnforceRange](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22EnforceRange)] [unsigned long](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-unsigned-long) [codedHeight](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videodecoderconfig-codedheight);

 [[EnforceRange](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22EnforceRange)] [unsigned long](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-unsigned-long) [displayAspectWidth](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videodecoderconfig-displayaspectwidth);

 [[EnforceRange](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22EnforceRange)] [unsigned long](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-unsigned-long) [displayAspectHeight](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videodecoderconfig-displayaspectheight);

 [VideoColorSpaceInit](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dictdef-videocolorspaceinit) [colorSpace](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videodecoderconfig-colorspace);

 [HardwareAcceleration](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22enumdef-hardwareacceleration) [hardwareAcceleration](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videodecoderconfig-hardwareacceleration) = "no-preference";

 [boolean](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-boolean) [optimizeForLatency](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videodecoderconfig-optimizeforlatency);

};

dictionary ***VideoEncoderConfig*** {

 required [DOMString](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-DOMString) [codec](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-codec);

 [[EnforceRange](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22EnforceRange)] required [unsigned long](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-unsigned-long) [width](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-width);

 [[EnforceRange](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22EnforceRange)] required [unsigned long](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-unsigned-long) [height](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-height);

 [[EnforceRange](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22EnforceRange)] [unsigned long](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-unsigned-long) [displayWidth](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-displaywidth);

 [[EnforceRange](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22EnforceRange)] [unsigned long](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-unsigned-long) [displayHeight](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-displayheight);

 [[EnforceRange](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22EnforceRange)] [unsigned long long](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-unsigned-long-long) [bitrate](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-bitrate);

 [double](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-double) [framerate](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-framerate);

 [HardwareAcceleration](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22enumdef-hardwareacceleration) [hardwareAcceleration](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-hardwareacceleration) = "no-preference";

 [AlphaOption](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22enumdef-alphaoption) [alpha](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-alpha) = "discard";

 [DOMString](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-DOMString) [scalabilityMode](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-scalabilitymode);

 [VideoEncoderBitrateMode](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22enumdef-videoencoderbitratemode) [bitrateMode](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-bitratemode) = "variable";

 [LatencyMode](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22enumdef-latencymode) [latencyMode](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-latencymode) = "quality";

 [DOMString](https://webidl.spec.whatwg.org/%22%20%5Cl%20%22idl-DOMString) [contentHint](https://www.w3.org/TR/webcodecs/%22%20%5Cl%20%22dom-videoencoderconfig-contenthint);

};

For video codec registry, see here: <https://www.w3.org/TR/webcodecs-codec-registry/#video-codec-registry>

For HEVC codec registrations, please go here: <https://www.w3.org/TR/webcodecs-hevc-codec-registration/>