**3GPP TSG SA WG4#121 S4-221330**

**Toulouse, 14th – 18th November 2022**

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| *CR-Form-v12.0* |
| **PSEUDO CHANGE REQUEST** |
|  |
|  | **26**.**119-PD** | **CR** | **pseudo** | **rev** | **-** | **Current version:** | **3.1.0** |  |
|  |
| *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)*.* |
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| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | **[MeCAR] Minimum Device Capability Considerations** |
|  |  |
| ***Source to WG:*** | Qualcomm Incorporated |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | **MeCAR** |  | ***Date:*** | 08/11/2022 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** | 18 |
|  | *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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** |  |
|  |  |
| ***Summary of change:*** |  |
|  |  |
| ***Consequences if not approved:*** |  |
|  |  |
| ***Clauses affected:*** | 5.7 (new) |
|  |  |
|  | **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 =====**

5.7 Minimum Media Capabilities

A MeCAR device allows to query the capabilities of the XR runtime, the scene manager and presentation engine for audio and visual media, and the MAF.

A MeCAR device at the minimum shall support:

* A set of XR Runtime functionalities
	+ allow to establish
	+ enabling 6DoF and AR video rendering based on swapchain APIs (as defined for example in OpenXR) with pose correction
	+ enabling rendering of audio signals with pose correction
	+ providing an accurate 6DoF pose to the application
* A subset of 2D video codecs to support display characteristics as defined in 5.4.1.2.1
* A subset of audio codecs (to be defined)
* Encapsulation and delivery based on RTP
* A playback entry point (e.g. a scene description)
* A security framework to SRTP based delivery

A MeCAR device may in addition support:

* Additional functionalities of XR Runtime or other APIs beyond the minimum set supported
* 3D rendering capabilities that, for example, allow to render scenes, point clouds, meshes, depth, etc.
* Additional audio and video encoding and decoding capabilities
* Decoding of streaming formats encapsulated in CMAF
* Capabilities to be exchanged with the network in order to support cloud/edge rendering