**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 can be 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)* | |
|  |  | | | | | | | | | |
| ***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 can 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
  + allowing to establish a XR session
  + 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 a 6DoF pose of the user 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 media 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 point clouds, meshes, depth, etc present in the scenes
* 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