**3GPP TSG-CT WG3 Meeting #133C3-241458**

**Athens, GR, 26 Feb - 01 Mar, 2024 (revision of C3-235232)**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **29.514** | **CR** | **0572** | **rev** | **2** | **Current version:** | **18.4.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network | **X** |

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| ***Title:*** | Multi-modal services update | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell | | | | | | | | | |
| ***Source to TSG:*** | CT3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | XRM | | | | |  | ***Date:*** | | | 2024-02-19 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **B** |  | | | | | ***Release:*** | | | Rel-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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | As per (S2-2311598) TS 23.503 Clause 6.1.3.27.3 is updated to Support for delivery of multi-modal services. The multi-modal services per media flow usage is updated for the clarification.  The corresponding changes has to be reflected in stage 3 | | | | | | | | |
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| ***Summary of change:*** | | The multi-modal service details are updated. | | | | | | | | |
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| ***Consequences if not approved:*** | | The stage 3.is not aligned with stage 2. | | | | | | | | |
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| ***Clauses affected:*** | | 4.2.2.37 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 does not impact the OpenAPI descriptions defined in this specification. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | |  | | | | | | | | |

\* \* \* \* Start of changes \* \* \* \*

#### 4.2.2.37 Provisioning of multi-modality services

This procedure is used by a NF service consumer to:

- provide service requirements for each media flow that comprise the multi-modal service; and/or

- provide QoS monitoring requirements for each media flow that comprise the multi-modal service;

when "MultiMedia" feature is supported.

The NF service consumer may include the multi-modal Service Identifier within the "multiModalId" attribute to indicate that the new AF session relates to a multi-modal service.

NOTE: For the delivery of multi-modal services, the NF service consumer may request to the PCF multiple media flows for a single UE or for multiple UEs via multiple PDU Sessions and separate request(s) per PDU Session with the same "multiModalId" attribute.

To provide service requirements for a multi-modal service, the NF service consumer shall follow the procedures described in clause 4.2.2.2 for initial provisioning of service information, with the following additional considerations:

- When the multi-modal service combines several media, the NF service consumer shall provide the service information of each media within the "medComponents" attribute. The media subcomponent(s), when provided for a media component, only contain the description of the service data flow(s).

To provide QoS monitoring requirements for each media component, the NF service consumer shall follow the procedures described in clause 4.2.2.23 for subscriptions to QoS Monitoring Information.

Editor's Note: It is FFS whether different QoS monitoring requirements per different media might be requested and the data types to use in that case.

\* \* \* \* End of changes \* \* \* \*