**3GPP TSG-CT WG1 Meeting #146C1-240197**

**Chicago, US , 13– 17 November 2023**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
|  |
|  | **24.501** | **CR** | **5649** | **rev** | **5** | **Current version:** | **18.5.0** |  |
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| *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:***  | General description of PDU set based handling |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Qualcomm Incorporated |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | XRM |  | ***Date:*** | 2024-01-06 |
|  |  |  |  |  |
| ***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 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)* |
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| ***Reason for change:*** | To support uplink PDU set based handling which has been agreed in S2-2313912, NAS protocol needs to be enhanced. This is a new feature, and the general description is proposed to give a whole picture. |
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| ***Summary of change:*** | General description is proposed to give a whole picture to support uplink PDU set based handling. |
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| ***Consequences if not approved:*** | Without a whole picture for the new feature, reader may be lost. |
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| ***Clauses affected:*** | 6.2.xx |
|  |  |
|  | **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:*** |  |

\*\*\*\*\*First change \*\*\*\*\*

### 6.2.xx Support of PDU set based handling

A PDU set comprises one or more PDUs carrying the payload of one unit of information generated at the application level (e.g. a frame or a video slice etc. for eXtended Reality services, high data rate low latency services and interactive media services). All the PDUs of a PDU set are transmitted within the same QoS flow.

A UE may support PDU set based handling. If the UE supports PDU set based handling, the UE shall indicate the capability to the SMF in the PDU SESSION ESTABLISHMENT REQUEST message or in the PDU SESSION MODIFICATION REQUEST message.

If the UE supports PDU set based handling, the SMF shall provide the protocol description for PDU set based handling if available during the PDU session establishment or PDU session modification procedures to the UE. The protocol description may help the UE to identify PDUs belonging to a PDU set in the uplink direction.

NOTE: Whether and how to use the protocol description or not is up to UE implementation.

\*\*\*\*\* End of change \*\*\*\*\*