**3GPP TSG-RAN WG3 Meeting #123R3-240897**

**Athens, Greece, 26th Feb – 1st Mar 2024**

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| *CR-Form-v12.2* |
| **CHANGE REQUEST** |
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|  |  | **CR** |  | **rev** | **1** | **Current version:** |  |  |
|  |
| *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 | **X** | Core Network | **X** |

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| ***Title:***  | Support of mixed PDUs handling in Non-Homogeneous deployment |
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| ***Source to WG:*** | Xiaomi, Ericsson, Nokia, Nokia Shanghai Bell, ZTE, Qualcomm Inc. |
| ***Source to TSG:*** |  |
|  |  |
| ***Work item code:*** | NR\_XR\_enh-Core |  | ***Date:*** | 2024-01-29 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***Release:*** |  |
|  | *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)****S*** *(adding to the sourcing companies’ CR statistics)*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:*** | In Non-Homogeneous depoloyment, the target NG-RAN node may receive the unmarked PDU(s) (i.e. PDU without PDU Set Information Container) forwarded from the source NG-RAN node and marked PDU(s) (i.e. PDU with PDU Set Information Container) from UPF, there’s no description to clarify this scenario. |
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| ***Summary of change:*** | Add description to clarify that the target NG-RAN node supporting PDU Set based handling can handle mixed PDU(s) from source NG-RAN node and UPF by implementation. |
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| ***Consequences if not approved:*** | It’s not clear on how to support the handover from a NG-RAN node not supporting PDU Set based handling to a NG-RAN node supporting PDU Set based handling. |
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| ***Clauses affected:*** | 16.15.5 |
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|  | **Y** | **N** |  |  |
| ***Other specs*** |  | **X** |  Other core specifications  |  |
| ***affected:*** |  | **X** |  Test specifications |  |
| ***(show related CRs)*** |  | **X** |  O&M Specifications |  |
|  |  |
| ***Other comments:*** |  |
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| ***This CR's revision history:*** | Rev1, clarify the wording of marked/unmarked PDU.  |

<<<<<<<<<<<<<<<<<<<< First Change >>>>>>>>>>>>>>>>>>>>

### 16.15.5 Non-Homogeneous support of PDU set based handling in NG-RAN

During a handover from a gNB supporting PDU Set based handling to another gNB, the source gNB signals the PDU Set Information over Xn-U if the target node has signalled the support of PDU Set based handling in the Xn Handover Request Acknowledge message.

During a handover from a gNB not supporting PDU Set based handling to a gNB supporting PDU Set based handling, the target gNB may indicate the support of PDU Set based handling to the SMF during the Path Switch Request procedure (in case of Xn handover) or Handover Resource Allocation procedure (in case of NG handover), the SMF will act as specified in TS 23.501[3]. If the indication is absent, the SMF infers that PDU Set based handling is not supported by the target NG-RAN node, then the SMF will act as specified in TS 23.501[3].

During a handover from a NG-RAN node not supporting PDU Set based handling to a NG-RAN node supporting PDU Set based handling, the target NG-RAN node may receive unmarked PDU(s) (i.e. PDU without PDU Set Information Container) forwarded from the source NG-RAN node and marked PDU(s) (i.e. PDU with PDU Set Information Container) from UPF, how the target NG-RAN node handles the marked and unmarked PDUs for the same QoS flow is up to implementation.

<<<<<<<<<<<<<<<<<<<< End of Change >>>>>>>>>>>>>>>>>>>>