**3GPP TSG-RAN WG2 Meeting #121 *R2-2302136***

**Athens, Greece, 27th February – 3rd March, 2023**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **38.351** | **CR** | **0016** | **rev** | **1** | **Current version:** | **17.3.0** |  |
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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 |  |

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| ***Title:*** | Correction to error handling in SRAP | | | | | | | | | |
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| ***Source to WG:*** | Huawei, HiSilicon | | | | | | | | | |
| ***Source to TSG:*** | R2 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NR\_SL\_relay-Core | | | | |  | ***Date:*** | | | 2023-02-27 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | | Rel-17 |
|  | *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-15 (Release 15) Rel-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18)* | |
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| ***Reason for change:*** | | In clause 5.4 of the current SRAP specification, the Remote UE and Relay UE only need to check whether local ID and bearer ID are correctly filled in, if not the data PDU will be discarded.  However, there are other error cases. For instance, in this release D/C value shall not be set to 1 as no SRAP Control PDU is defined, and R bit shall not be set to 1. Those cases should also be considered in clause 5.4, and if the values are invalid or reserved the UE shall discard the received SRAP PDU. | | | | | | | | |
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| ***Summary of change:*** | | In clause 5.4, calrify that if a Relay UE or a Remote UE receives a SRAP PDU with invalid or reserved values, the SRAP entity of the UE should discard the SRAP PDU.  **Impact analysis**  Impacted 5G architecture options:  NR SA  Impacted functionality  L2 U2N relay, Packet forwarding at SRAP entity  Inter-operability:  There is no inter-operability issue since this change is just for Relay UE’s or Remote UE’s internal operation. | | | | | | | | |
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| ***Consequences if not approved:*** | | Without the change, it is not clear how the SRAP entity handles the SRAP PDU with invalid or reserved values. | | | | | | | | |
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| ***Clauses affected:*** | | 5.4 | | | | | | | | |
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|  | | **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:*** | |  | | | | | | | | |

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| START OF CHANGE |

5.4 Handling of unknown, unforeseen, and erroneous protocol data

For U2N Remote UE, if *sl-LocalIdentity* and *sl-RemoteUE-RB-Identity* are both configured, when a SRAP Data PDU with SRAP header that contains a UE ID field or BEARER ID field which does not match *sl-LocalIdentity* or *sl-RemoteUE-RB-Identity* included in *sl-SRAP-ConfigRemote* is received, the SRAP entity shall:

- discard the received SRAP Data PDU.

For U2N Relay UE, when a SRAP Data PDU with SRAP header that contains a UE ID field or BEARER ID field which does not match *sl-LocalIdentity* or *sl-RemoteUE-RB-Identity* included in *sl-SRAP-ConfigRelay* is received except in the case where the SRAP Data PDU from SL-RLC1 as specified in TS 38.331 [3] is the first SRAP Data PDU received from a U2N Remote UE, or when a SRAP Data PDU that contains a UE ID which does not match the concerned *sl-LocalIdentity* corresponding to *sl-L2IdentityRemote* of the ingress linkis received by U2N Relay UE, the SRAP entity shall:

- discard the received SRAP Data PDU.

When the U2N Remote UE or the U2N Relay UE receives a SRAP PDU with invalid or reserved values, the SRAP entity shall:

- discard the received SRAP PDU.

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| END OF CHANGE |