**3GPP TSG-SA3 Meeting #123 *S3-253049r1***

**Gothenburg, Sweden, 19 - 23 August 2025 revisoon of S3-252851**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **33.938** | **CR** | **0007** | **rev** | **1** | **Current version:** | **19.0.0** |  |
|  | | | | | | | | |
| *For* ***[HE](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)******[LP](http://www.3gpp.org/3G_Specs/CRs.htm" \l "_blank)*** *on using this form: comprehensive instructions can be found at  <http://www.3gpp.org/Change-Requests>.* | | | | | | | | |
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| ***Proposed change affects:*** | UICC apps |  | ME |  | Radio Access Network |  | Core Network |  |

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| ***Title:*** | Revise the description on “SMS over NAS” | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Apple, Nokia | | | | | | | | | |
| ***Source to TSG:*** | S3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI19 | | | | |  | ***Date:*** | | | 2025-8-18 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | | Rel-19 |
|  | *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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | There is an incorrect description about SMS over NAS in clause 4.2.12. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | The current wording of clause 4.2.12 indicates that SMS over NAS is or can be some kind of user plane data. But based on TS 33.501, 6.4.7 and 6.16 (and additionally in TS 23.501, 4.4.2.1), SMS over NAS — as the name is already implying — is always sent via the control plane. The only case where SMS is sent via the user plane is SMS over IMS.  Based on TS 33.501, clause 6.16.1.1, it is proposed to use “small user data or SMS as payload of NAS message” to replace the current description “User plane data (SMS over NAS)”. | | | | | | | | |
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| ***Consequences if not approved:*** | | Incorrect description. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.2.12 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

**\*\*\* START OF 1st CHANGES \*\*\***

### 4.2.12 NAS security

The NAS security mechanisms is to protect NAS signaling and data between the UE and the AMF over the N1 reference point in 5G system:

- NAS signaling integrity and confidentiality protection between UE and AMF (see clause 6.4.3 and 6.4.4 of TS 33.501 [4]).

- Integrity and confidentiality protection for ~~small user data or~~ SMS as payload of a NAS message between UE and AMF (see clause 6.4.7 of TS 33.501 [4]).

NAS security protocol employs symmetric cryptography for confidentiality and integrity protection.

**\*\*\* END OF CHANGES \*\*\***