**3GPP TSG-RAN WG3 #128 *draftR3-253864\_was*R3-253511**

**St. Julian’s, Malta, 19th – 23rd May, 2025**

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| *CR-Form-v12.3* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  | **0** | **CR** | **0054** | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *For* [***HELP***](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 |  |

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| ***Title:*** | Introduction of aerial UE’s altitude information reporting | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | , Nokia | | | | | | | | | |
| ***Source to TSG:*** | R3 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** |  | | | | |  | ***Date:*** | | | 2025-05-19 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***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-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)  Rel-20 (Release 20)* | |
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| ***Reason for change:*** | | Based on TS 23.256, for the aerial UEs, SA2 specified new procedures to enable the altitude reporting. Moreover, RAN3 agreed in RAN3#127 to reuse the Location Reporting Control and Location Report procedures to configure and perform the aerial UE’s altitude reporting, respectively, and that the altitude reporting can be configured to be periodic, threshold-based or event-based based on NG-RAN implementation.  This CR follows the above mentioned agreements and introduces the necessary enhancements for the Location Reporting function the purpose of aerial UE’s altitude reporting. | | | | | | | | |
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| ***Summary of change:*** | | It is clarified that the Location Reporting function and Location Reporting procedures are used for the purpose of aerial UE’s altitude reporting. | | | | | | | | |
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| ***Consequences if not approved:*** | | The aerial UE’s altitude reporting from NG-RAN to AMF is not supported. | | | | | | | | |
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| ***Clauses affected:*** | | 5.15, 6.9 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **Y** | **N** |  | | | |  | | |
| ***Other specs*** | | **X** |  | Other core specifications | | | | TS 38.413 CR 1247  TS 38.423 CR 1460  TS 38.300 draftCR | | |
| ***affected:*** | |  | **X** | Test specifications | | | | TS/TR ... CR ... | | |
| ***(show related CRs)*** | |  | **X** | O&M Specifications | | | | TS/TR ... CR ... | | |
|  | |  | | | | | | | | |
| ***Other comments:*** | |  | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev.1 – update after discussion in RAN3#128 | | | | | | | | |

**\*\*\* Start of Changes \*\*\***

## 5.15 Location Reporting function

This function enables the AMF to request the NG-RAN node to report the UE's current location, or the UE's last known location with timestamp, or the UE's presence in a configured area of interest, or the flight information reporting of aerial UE.

**\*\*\* Next Change \*\*\***

6.9 Location Reporting procedures

The following procedures are used to report the location of the UE, or the flight information reporting of aerial UE:

- Location Reporting Control;

- Location Report;

- Location Reporting Failure Indication.

**\*\*\* End of Changes \*\*\***