**3GPP TSG-RAN WG2 Meeting #127R2-2407784**

**Maastricht, Netherlands,** **19** **– 23 August 2024**

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| *CR-Form-v12.3* |
| **CHANGE REQUEST** |
|  |
|  | **38.306** | **CR** | **1137** | **rev** | **1** | **Current version:** | **18.2.0** |  |
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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 | **X** | Core Network |  |

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| ***Title:***  | Correction for NR UAV capabilities |
|  |  |
| ***Source to WG:*** | Huawei, HiSilicon |
| ***Source to TSG:*** | R2 |
|  |  |
| ***Work item code:*** | NR\_UAV-Core |  | ***Date:*** | 2024-08-19 |
|  |  |  |  |  |
| ***Category:*** | F |  | ***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-17 (Release 17)Rel-18 (Release 18)Rel-19 (Release 19) Rel-20 (Release 20)* |
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| ***Reason for change:*** | In the previous meeting, it has been agreed that *simulMultiTriggerSingleMeasReport* is used when the UAV is transferring measurement results to the network in TS38.331, but the description for this capability in TS38.306 has not been aligned. |
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| ***Summary of change:*** | Change the description for *simulMultiTriggerSingleMeasReport* to:Indicates whether the UE supports, for all the events of the same type for which the measurement reporting was triggered, measurement reporting considering only the configuration of the event with the smallest value between the altitude of the UE and the corresponding altitude threshold, as specified in TS 38.331 [9].**Impact Analysis**Impacted 5G architecture options: NR SAImpacted functionality: NR UAVInter-operability: Given that the signalling and the UE behavior description is present in TS 38.331, the change proposed hereby for TS 38.306 is only to maintain consistency across specifications, and there is no interoperability issue if only the NW or only the UE implements this CR. |
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| ***Consequences if not approved:*** | The description for *simulMultiTriggerSingleMeasReport* in TS 38.306is not aligned with TS 38.331. |
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| ***Clauses affected:*** | 4.2.24 |
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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:*** |  |

4.2.24 Aerial UE Parameters

| **Definitions for parameters** | **Per** | **M** | **FDD-TDD DIFF** | **FR1-FR2 DIFF** |
| --- | --- | --- | --- | --- |
| ***aerialUE-Capability-r18***Indicates whether the UE supports aerial UE communication as described in TS 38.300 [28] clause 16.18. | UE | No | No | No |
| ***altitudeMeas-r18***Indicates whether the UE supports altitude based measurement reporting as specified in TS 38.331 [9]. It is mandatory if the UE supports *aerialUE-Capability-r18*. | UE | CY | No | No |
| ***altitudeBasedSSB-ToMeasure-r18***Indicates whether the UE supports altitude based *ssb-ToMeasure* as specified in TS 38.331 [9]. | UE | No | No | No |
| ***eventAxHy-r18***Indicates whether the UE supports events A3H1, A3H2, A4H1, A4H2, A5H1, and A5H2 as specified in TS 38.331 [9]. If the UE indicates support of *eventAxHy-r18*, then the UE additionally supports *multipleCellsMeasExtension-r18* for eventA3H1, eventA3H2, eventA4H1, eventA4H2, eventA5H1, and eventA5H2 as specified in TS 38.331 [9]. | UE | No | No | No |
| ***flightPathReporting-r18***Indicates whether the UE supports reporting of the flight path plan through the procedure defined in TS 38.331 [9]. | UE | No | No | No |
| ***flightPathAvailabilityIndicationUAI-r18***Indicates whether the UE supports indication of the flight path availability through the UAI message as defined in TS 38.331 [9]. If a UE supports this capability, the UE shall also support *flightPathReporting-r18.* | UE | No | No | No |
| ***multipleCellsMeasExtension-r18***Indicates whether the UE supports measurement reporting triggered based on a number of cells for eventA3, eventA4, and eventA5 as specified in TS 38.331 [9]. It is mandatory if the UE supports *aerialUE-Capability-r18*. | UE  | CY | No | No |
| ***nr-NS-PmaxListAerial-r18***Indicates whether the UE supports the mechanisms defined for cells broadcasting *nr-NS-PmaxListAerial* and *frequencyBandListAerial* as specified in TS 38.331 [9]. It is mandatory if the UE supports *aerialUE-Capability-r18*. | UE | CY | No | No |
| ***simulMultiTriggerSingleMeasReport-r18***Indicates whether the UE supports, for all the events of the same type for which the measurement reporting was triggered, measurement reporting considering only the configuration of the event with the smallest value between the altitude of the UE and the corresponding altitude threshold, as specified in TS 38.331 [9] | UE | No | No | No |
| ***sl-A2X-Service-r18***Indicates whether the UE supports A2X service(s) which include BRID, DAA or both using A2X communication as specified in TS 38.331 [9]. This field also indicates whether the UE supports the dedicated resource pools as specified in TS 38.331 for the corresponding A2X service(s). A UE supporting this feature shall also support NR sidelink in at least one sidelink band. | UE | No | No | No |