**3GPP TSG-CT WG1 Meeting #149C1-243633**

**Hyderabad, India, 27-31 May 2024 (was C1-243208)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.368** | **CR** |  | **rev** |  | **Current version:** | **18.2.2** |  |
|  | | | | | | | | |
| *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)*.* | | | | | | | | |
|  | | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Proposed change affects:*** | UICC apps |  | ME | **X** | Radio Access Network |  | Core Network | **x** |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | | | | | | | | | |
| ***Title:*** | 5GMM cause code #15 indicating "Satellite NG-RAN not allowed in PLMN" | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Apple, Google Inc. | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GSAT\_Ph2 | | | | |  | ***Date:*** | | | 2024-05-27 |
|  |  | | | |  | |  | | |  |
| ***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 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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | In certain tracking areas an operator providing Satellite NG-RAN coverage might want to restrict the access to the Satellite NG-RAN by rejecting the registration with cause code #15 "No suitable cells in tracking area". In order to avoid that the UE attempts to select a Satellite NG-RAN cell belonging to a different TAI but rather searches for cells with a RAN radio access technology different to Satellite NG-RAN, it is proposed to introduce a new Extended 5GMM cause IE which allows to indicate "Satellite NG-RAN not allowed in PLMN". If the UE receives "Satellite NG-RAN not allowed in PLMN", it shall search for a suitable cell in a RAN radio access technology different to Satellite NG-RAN.  This feature should be configurable Management Object (MO). | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add a new leaf “Satellite\_NG-RAN\_not\_allowed\_in\_PLMN” | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | The feature "Satellite NG-RAN not allowed in PLMN" could not be configured. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4, 5.10xx(new), Annex A | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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:*** | |  | | | | | | | | |

\* \* \* First Change \* \* \* \*

# 4 NAS configuration MO

The NAS configuration MO is used to manage configuration parameters related to NAS functionality for a UE supporting provisioning of such information. The presence and format of the non-access stratum configuration file on the USIM is specified in 3GPP TS 31.102 [6].

The MO identifier is: urn:oma:mo:ext-3gpp-nas-config:1.0.

The OMA DM Access Control List (ACL) property mechanism (see OMA-ERELD-DM-V1\_2 [2]) may be used to grant or deny access rights to OMA DM servers in order to modify nodes and leaf objects of the NAS configuration MO.

The following nodes and leaf objects are possible in the NAS configuration MO as described in figure 4-1:



Figure 4-1: The NAS configuration Management Object (1 of 4)



Figure 4-2: The NAS configuration Management Object (2 of 4)



Figure 4-3: The NAS configuration Management Object (3 of 4)



Figure 4-4: The NAS configuration Management Object (4 of 4)

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

## 5.10xx /*<X>*/Satellite\_Disabling\_Allowed\_for\_5GMM\_cause\_#15

This leaf indicates whether the UE is allowed to disable the satellite NG-RAN capability when it receives the Extended 5GMM cause IE with value "Satellite NG-RAN not allowed in PLMN" as described in 3GPP TS 24.501 [11].

- Occurrence: ZeroOrOne

- Format: bool

- Access Types: Get, Replace

- Values: 0, 1

0 - Indicates that "Satellite Access Disabling for 5GMM cause #15" is disabled, see 3GPP TS 24.501 [11].

1 - Indicates that "Satellite Access Disabling for 5GMM cause #15" is enabled, see 3GPP TS 24.501 [11].

If this leaf is not provisioned, the value of 0 is used.

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

Annex A (informative):  
NAS configuration MO DDF

This DDF is the standardized minimal set. A vendor can define its own DDF for the complete device. This DDF can include more features than this minimal standardized version.

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"http://www.openmobilealliance.org/tech/DTD/dm\_ddf-v1\_2.dtd">

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<DFTitle>List of {SNPN identifier, configuration parameters regarding 3GPP PS data off and other parameters, for a UE which selected an entry of "list of subscriber data" with the subscribed SNPN identified by the SNPN identifier</DFTitle>

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</DFProperties>

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<DFProperties>

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<chr/>

</DFFormat>

<Occurrence>

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</Occurrence>

<DFTitle>SNPN identity of the subscribed SNPN of an entry of "list of subscriber data", for which the 3GPP\_PS\_data\_off leaf or SM\_RetryWaitTime leaf is applicable.</DFTitle>

<DFType>

<MIME>text/plain</MIME>

</DFType>

</DFProperties>

</Node>

<Node>

<NodeName>3GPP\_PS\_data\_off</NodeName>

<DFProperties>

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<NodeName>Device\_management\_over\_PS</NodeName>

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<Occurrence>

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