**3GPP TSG-CT WG1 Meeting #137-eC1-22xxxx**

**E-Meeting, 18th – 26th August 2022 Revision of C1-224652**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  |  | **CR** | **4472** | **rev** | **1** | **Current version:** |  |  |
|  | | | | | | | | |
| *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 | **X** |

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| ***Title:*** | Supplement to the NSAG information IE | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | China Mobile, China Southern Power Grid | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | NRslice | | | | |  | ***Date:*** | | | 2022-08-08 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | -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)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | The following requirements on NSAG priority are specified:   1. In TS 23.501 subclause 5.3.4.3.4:   *If the UE has not received any NSAG priority information from the AMF, the UE shall not use Network Slice based cell reselection at all.*   1. In TS 24.501 subclause 9.11.3.87:   *NOTE 1: The same priority for two or more NSAGs in the same TAI is not allowed.*  It is suggested to handle the problematic NSAGs to avoid discarding a whole IE.  In addition, it is suggested to correct a typo “NSSAI” in Table 9.11.3.87.1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add the requirements on handling the NSAGs with problematic NSAG priority. | | | | | | | | |
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| ***Consequences if not approved:*** | | The UE could discard the whole NSAG information IE containing the problematic NSAGs. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.11.3.87 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

#### 9.11.3.87 NSAG information

The purpose of the NSAG information information element is to provide NSAG information to the UE.

The NSAG information information element is coded as shown in figures 9.11.3.87.1, 9.11.3.87.2, 9.11.3.87.3 and table 9.11.3.87.1.

The NSAG information information element can contain a maximum of 32 NSAG entries.

The NSAG information is a type 6 information element, with a minimum length of 10 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| NSAG information IEI | | | | | | | | octet 1 |
| Length of NSAG information contents | | | | | | | | octet 2  octet 3 |
| NSAG 1 | | | | | | | | octet 4  octet m |
| NSAG 2 | | | | | | | | octet m+1\*  octet n\* |
| … | | | | | | | | octet n+1\*  octet u\* |
| NSAG x | | | | | | | | octet u+1\*  octet v\* |

Figure 9.11.3.87.1: NSAG information information element

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Length of NSAG | | | | | | | | octet 4 |
| octet 5 |
| NSAG identifier | | | | | | | | octet 6 |
| S-NSSAI list of NSAG | | | | | | | | octet 7  octet j |
| NSAG priority | | | | | | | | octet j+1 |
| TAI list | | | | | | | | octet j+2\*  octet m\* |

Figure 9.11.3.87.2: NSAG

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| Length of S-NSSAI list of NSAG | | | | | | | | octet 7 |
| S-NSSAI value 1 | | | | | | | | octet 8  octet k |
| S-NSSAI value 2 | | | | | | | | octet k+1\*  octet s\* |
| … | | | | | | | | octet s+1\*  octet i-1\* |
| S-NSSAI value x | | | | | | | | octet i\*  octet j\* |

Figure 9.11.3.87.3: S-NSSAI list of NSAG

Table 9.11.3.87.1: NSAG information information element

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| --- |
| NSAG part of the NSAG information information element (octet 4 to m)  Each entry of the NSAG information information element consists of one NSAG in the NSAG information IE.  If there are 2 or more NSAGs associated with the same TAIs having the same NSAG priority, for the corresponding TAIs the UE shall store only one NSAG and ignore others.  If no NSAG priority set for a NSAG, the UE shall ignore this NSAG. |
| NSAG identifier(octet 6)  NSAG identifier field contains an 8 bits NSAG ID value. |
| S-NSSAI list of NSAG (octet 7 to j)  S-NSSAI list of NSAG field consists of one or more S-NSSAIs in the configured NSSAI. Each S-NSSAI value in S-NSSAI list of NSAG field is coded as the length and value part of S-NSSAI information element as specified in subclause 9.11.2.8 starting with the second octet, without the mapped HPLMN SST field and without the mapped HPLMN SD field. |
| NSAG priority (octet j+1) (see NOTE 1, NOTE 2)  The NSAG priority field indicates the priority of NSAG for cell reselection. |
| TAI list (octet j+2 to m)  The TAI list field is coded as the length and value part of the 5GS tracking area identity list IE defined in subclause 9.11.3.9 starting with the second octet. |
| NOTE 1: The same priority for two or more NSAGs in the same TAI is not allowed.  NOTE 2: The value of priority set to 0 indicates no priority set for the corresponding NSAG. |

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