**3GPP TSG-CT WG4 Meeting #107-eC4-216034v1**

**E-Meeting, 15th – 23rd November 2021**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.168** | **CR** | **0076** | **rev** | **-** | **Current version:** | **17.0.0** |  |
|  | | | | | | | | |
| *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 |  | Radio Access Network |  | Core Network | **X** |

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|  | | | | | | | | | | |
| ***Title:*** | Resolving Editor's Note | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | one2many | | | | | | | | | |
| ***Source to TSG:*** | CT4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI17 | | | | |  | ***Date:*** | | | 2021-11-21 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | **F** |  | | | | | ***Release:*** | | | Rel-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 EN occurs 4 times:  Editor's Note: the Maxnoof5GSTAIs value is FFS in RAN3 (assumption for ASN1 is 65535).  TS 38.413 specifies the maxnoofTAIforWarning and the maxnoofCellID to be 65535 and hence this EN can be removed. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Removal of EN. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Non-compliance with 3GPP drafting rules and an unnecessary burden on the reader to verify the EN. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.3.4.2.1, 4.3.4.2.3, 4.3.4.3.11, 4.3.4.3.14 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

##### 4.3.4.2.1 WRITE-REPLACE WARNING REQUEST

This message is sent by the CBC to request start or overwrite of a warning message broadcast.

If the message is sent to the MME, then:

- the List of TAIs IE, the Warning Area List IE and the Global eNB ID IE may be used; and

- the List of 5GS TAIs IE, the Warning Area List 5GS IE, the Global RAN Node ID IE and the RAT Selector 5GS IE shall not be used.

If the message is sent to the PWS-IWF, then:

- the List of 5GS TAIs IE, the Warning Area List 5GS IE, the Global RAN Node ID IE may be used;

- the List of TAIs IE, the Warning Area List IE and the Global eNB ID IE shall not be used; and- the message shall address a Warning Area in E-UTRA or in NR, but not both simultaneously; the RAT Selector 5GS IE shall be used if the message is for the NR RAT.

Direction: CBC → MME, PWS-IWF

Table 4.3.4.2.1-1: WRITE-REPLACE WARNING REQUEST message contents

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 4.3.4.3.1 |  | YES | reject |
| Message Identifier | M |  | [7] |  | YES | reject |
| Serial Number | M |  | [7] |  | YES | reject |
| **List of TAIs** | O |  |  |  | YES | reject |
| **>TAI List Item** |  | 1 to <maxnoofTAI> |  |  |  |  |
| >>TAI | M |  | [7] |  |  |  |
| Warning Area List | O |  | [7] |  | YES | ignore |
| Repetition Period | M |  | [7] |  | YES | reject |
| Extended Repetition Period | O |  | [7] |  | YES | reject |
| Number of Broadcast Requested | M |  | [7] |  | YES | reject |
| Warning Type | O |  | [7] |  | YES | ignore |
| Warning Security Information | O |  | [7] |  | YES | ignore |
| Data Coding Scheme | O |  | [7] |  | YES | ignore |
| Warning Message Contents | O |  | [7] |  | YES | ignore |
| OMC ID | O |  | 4.3.4.3.4 |  | YES | ignore |
| Concurrent Warning Message Indicator | O |  | [7] |  | YES | reject |
| Send Write-Replace-Warning-Indication | O |  | 4.3.4.3.5 |  | YES | ignore |
| Global eNB ID | O |  | [7] |  | YES | ignore |
| List of 5GS TAIs | O |  |  |  | YES | ignore |
| >5GS TAI List Item |  | 1 to <maxnoof5GSTAIs> |  |  |  |  |
| >>5GS TAI | M |  | [17] |  |  |  |
| Warning Area List 5GS | O |  | [17] |  | YES | ignore |
| Global RAN Node ID | O |  | [17] |  | YES | Ignore |
| RAT Selector 5GS | C |  | 4.3.4.3.10 |  | YES | ignore |
| Warning Area Coordinates | O |  | [7] |  | YES | Ignore |

Table 4.3.4.2.1-2: RANGE explanation

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofTAI | Maximum no. of TAI subject for warning message broadcast in E‑UTRAN. Value is 65535. |
| Maxnoof5GSTAIs | Maximum no. of TAI subject for warning message broadcast in 5GS. Value is 65535. |

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

##### 4.3.4.2.3 STOP WARNING REQUEST

This message is sent by the CBC to stop a warning message broadcast.

If the message is sent to an MME, then:

- the List of TAIs IE and the Warning Area List IE may be used; and

- the List of 5GS TAIs IE, the Warning Area List 5GS IE and the RAT Selector 5GS IE shall not be used.

If the message is sent to the PWS-IWF, then:

- the List of 5GS TAIs IE, the Warning Area List 5GS IE may be used;

- the List of TAIs IE and the Warning Area List IE shall not be used; and

- the message shall address a Warning Area in E-UTRA or in NR, but not both simultaneously; the RAT Selector 5GS IE shall be used if the message is for the NR RAT.

Direction: CBC → MME, PWS-IWF

Table 4.3.4.2.3-1: STOP WARNING REQUEST message contents

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE type and reference | Semantics description | Criticality | Assigned Criticality |
| Message Type | M |  | 4.3.4.3.1 |  | YES | reject |
| Message Identifier | M |  | [7] |  | YES | reject |
| Serial Number | M |  | [7] |  | YES | reject |
| **List of TAIs** | O |  |  |  | YES | reject |
| **>TAI List Item** |  | 1 to <maxnoofTAI> |  |  |  |  |
| >>TAI | M |  | [7] |  |  |  |
| Warning Area List | O |  | [7] |  | YES | Ignore |
| OMC ID | O |  | 4.3.4.3.4 |  | YES | ignore |
| Send Stop Warning Indication | O |  | 4.3.4.3.7 |  | YES | ignore |
| Stop-All Indicator | O |  | 4.3.4.3.8 |  | YES | reject |
| List of 5GS TAIs | O |  |  |  | YES | ignore |
| >5GS TAI List Item |  | 1 to <maxnoof5GSTAIs> |  |  |  |  |
| >>5GS TAI | M |  | [17] |  |  |  |
| Warning Area List 5GS | O |  | [17] |  | YES | ignore |
| RAT Selector 5GS | C |  | 4.3.4.3.10 |  | YES | ignore |

Table 4.3.4.2.3-2: RANGE explanation

|  |  |
| --- | --- |
| Range bound | Explanation |
| maxnoofTAI | Maximum no. of TAI subject for warning message broadcast in E‑UTRAN. Value is 65535. |
| Maxnoof5GSTAIs | Maximum no. of TAI subject for warning message broadcast in 5GS. Value is 65535. |

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

##### 4.3.4.3.11 Unknown 5GS Tracking Area List

The Unknown 5GS Tracking Area List IE identifies the Tracking Areas that are unknown to the AMF and where the Request cannot be delivered.

This IE shall only be included if the Cause IE indicates Message accepted, which means the AMF will proceed with the request for Tracking Areas that are known to the AMF. The Cause IE indicating Tracking area not valid is used when all Tracking Areas in the Request are invalid.

Table 4.3.4.3.11-1: Failure List information element

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
| Unknown 5GS Tracking Area List |  |  |  |  |
| >Unknown 5GS TAI List Item |  | 1 to <maxnoof5GSTAIs> |  |  |
| >>5GS TAI | M |  | [17] |  |

Table 4.3.4.3.11-2: RANGE explanation

|  |  |
| --- | --- |
| Range bound | Explanation |
| Maxnoof5GSTAIs | Maximum no. of TAI subject for warning message broadcast in 5GS. Value is 65535. |

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

##### 4.3.4.3.14 Broadcast Empty Area List 5GS

The Broadcast Empty Area List 5GS IE contains the RAN Node IDs of the RAN nodes which have responded with a WRITE-REPLACE-WARNING RESPONSE message which did not contain a Broadcast Completed Area List or have responded with a PWS CANCEL RESPONSE message which did not contain a Broadcast Cancelled Area List IE.

Table 4.3.4.3.14-1: Broadcast Empty Area List 5GS information element

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IE/Group Name | Presence | Range | IE Type and Reference | Semantics Description |
| Broadcast Empty Area List 5GS |  |  |  |  |
| >Broadcast Empty Area List 5GS List Item |  | 1 to <maxnoofRANNodes> |  |  |
| >>RAN Node ID | M |  | [17] |  |

Table 4.3.4.3.14-2: RANGE explanation

|  |  |
| --- | --- |
| Range bound | Explanation |
| MaxnoofRANNodes | Maximum no. of RAN Nodes. Value is 65535. |

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