**3GPP TSG-CT WG1 Meeting #131-eC1-214008-v1**

**E-meeting, 19-27 August 2021**

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| *CR-Form-v12.1* |
| **CHANGE REQUEST** |
|  |
|  | **23.041** | **CR** | **0215** | **rev** | **3** | **Current version:** | **17.1.0** |  |
|  |
| *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 | **X** | Core Network | **X** |

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|  |
| ***Title:***  | Addition of Test Flag |
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| ***Source to WG:*** | one2many, Ericsson, KPN |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | 5GProtoc17 |  | ***Date:*** | 2021-08-19 |
|  |  |  |  |  |
| ***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 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-15 (Release 15)Rel-16 (Release 16)Rel-17 (Release 17)Rel-18 (Release 18)* |
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| ***Reason for change:*** | Any test aimed at checking that resources needed for the delivery of a PWS message are correctly operating (e.g. correct operation of nodes, interfaces, cells, availability of resources over the air) can only be done end to end, i.e. involving broadcasting over the air and decoding at the UE of test messages with specific Message Identifiers. |
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| ***Summary of change:*** | Addition of Test Flag in the message request which is processed as a normal message by the RAN nodes, but doesn't result in broadcast over the air and doesn't allocate any resources. |
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| ***Consequences if not approved:*** | When using the existing test techniques involving the air interface and UE, are:• Waste of radio resources due to potentially frequent broadcast over the air• Impact on UE battery consumption due to UEs having to decode updated SIBs. |
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| ***Clauses affected:*** | 9.2.16, 9.2.26, 9.3.x (new) |
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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 ...  |
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| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** | Revision of C1-202600, which was postponed.Revision of C1-214008: moved text from 9.3.X to NOTE2 in table in 9.2.16 |

\* \* \* First change \* \* \* \*

### 9.2.16 WRITE-REPLACE-WARNING-REQUEST Request/Indication

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| --- | --- | --- |
| PARAMETER | REFERENCE | PRESENCE |
| Message Type | 9.3.28 | M |
| Message Identifier | 9.3.1 | M |
| Serial-Number | 9.3.3 | M |
| Repetition-Period E-UTRAN | 9.3.36 | M |
| No-of-Broadcasts-Requested | 9.3.9 | M |
| List of TAIs | 9.3.29 | O |
| Warning Area List | 9.3.30 | O |
| Extended Repetition-Period | 9.3.37 | O |
| Warning-Type | 9.3.24 | O  |
| Warning-Security-Information | 9.3.25 | O  |
| Data Coding Scheme | 9.3.18 | O (NOTE 1) |
| Warning Message Content E-UTRAN | 9.3.35 | O |
| OMC ID | 9.3.31 | O |
| Concurrent Warning Message Indicator | 9.3.32 | O |
| Send Write-Replace-Warning-Indication | 9.3.39 | O |
| Global eNB ID | 9.3.46 | O |
| List of NG-RAN TAIs | 9.3.54 | O |
| Warning Area List NG-RAN | 9.3.55 | O |
| Warning Message Content NG-RAN | 9.3.51 | O |
| Global RAN Node ID | 9.3.53 | O |
| RAT Selector NG-RAN | 9.3.56 | O |
| Warning Area Coordinates | 9.3.63 | O |
| Test Flag | 9.3.x | O (NOTE 2) |
| NOTE 1: The Data Coding Scheme IE is not required for ETWS primary notification but it is mandatory for ETWS secondary notification and CMAS warning messages when Warning Message Content E-UTRAN IE is present.NOTE 2: This IE may only be included if the CBC sends the request to a PWS-IWF. |

This primitive is sent by the CBC to the MME or to the PWS-IWF.

The WRITE-REPLACE-WARNING-REQUEST Request/Indication primitive is to request the MME and the AMF to start or overwrite a warning message broadcast. The response to this Request/Indication primitive is sent by the MME or the AMF in a corresponding WRITE-REPLACE-WARNING-CONFIRM primitive.

If the message is sent to the MME, then the *List of TAIs* IE, the *Warning Area List* IE, the *Warning Message Content E‑UTRAN* IE and the *Global eNB ID* IE may be used and the *List of NG-RAN TAIs* IE, the *Warning Area List NG-RAN* IE, the *Warning Message Content NG-RAN* IE, the *Global RAN Node ID* IE and the *RAT Selector NG-RAN* IE shall not be used.

If the message is sent to the PWS-IWF, then the *List of NG-RAN TAIs* IE, the *Warning Area List NG-RAN* IE, the *Warning Message Content NG-RAN* IE, the *Global RAN Node ID* IE and the *RAT Selector NG-RAN* IE may be used and the *List of TAIs* IE, the *Warning Area List* IE, the *Repetition-Period E-UTRAN* IE, the *Extended Repetition Period* IE, the *Warning Message Content E-UTRAN* IE, and the *Global eNB ID* IE shall not be used. The WRITE-REPLACE-WARNING-REQUEST Request/Indication primitive shall then be forwarded to the AMF.

NOTE: For ETWS Primary Notification, the Repetition Period IE and the Number of Broadcasts Requested IE are ignored by eNB if included in WRITE-REPLACE-WARNING-REQUEST message (see 3GPP TS 36.413 [34]).

\* \* \* Next change \* \* \* \*

### 9.2.26 WRITE-REPLACE-WARNING-REQUEST-NG-RAN Request/Indication

|  |  |  |
| --- | --- | --- |
| PARAMETER | REFERENCE | PRESENCE |
| Message Type | 9.3.28 | M |
| Message Identifier | 9.3.1 | M |
| Serial-Number | 9.3.3 | M |
| Repetition-Period NG-RAN | 9.3.52 | M  |
| No-of-Broadcasts-Requested | 9.3.9 | M  |
| RAT Selector NG-RAN | 9.3.56 | M |
| List of NG-RAN TAIs | 9.3.54 | O |
| Warning Area List NG-RAN | 9.3.55 | O |
| Warning-Type | 9.3.24 | O  |
| Warning-Security-Information | 9.3.25 | O  |
| Data Coding Scheme | 9.3.18 | O (NOTE) |
| Warning Message Content NG-RAN | 9.3.51 | O |
| OMC ID | 9.3.31 | O |
| Concurrent Warning Message Indicator | 9.3.32 | O |
| Send Write-Replace-Warning-Indication | 9.3.39 | O |
| Global RAN Node ID | 9.3.53 | O |
| Warning Area Coordinates | 9.3.63 | O |
| Test Flag | 9.3.x | O |
| NOTE: The Data Coding Scheme IE is not required for ETWS primary notification but it is mandatory for ETWS secondary notification and CMAS warning messages when Warning Message Content NG-RAN IE is present. |
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This primitive is sent by the CBCF to the AMF to request start or overwrite of a warning message broadcast and is responded to by the AMF in a WRITE-REPLACE-WARNING-CONFIRM-NG-RAN response.

NOTE: For ETWS Primary Notification, the Repetition Period IE and the Number of Broadcasts Requested IE are ignored by NG-RAN node if included in WRITE-REPLACE-WARNING-REQUEST-NG-RAN.

\* \* \* Next change \* \* \* \*

### 9.3.x Test Flag

The *Test Flag* IE may be included to indicate to the NG-RAN node that the request is to be processed and responded to normally, but shall not result in broadcast over the air and shall not allocate any resources (i.e. the request cannot be cancelled).

\* \* \* End of changes \* \* \* \*