**3GPP TSG-CT WG1 Meeting #122-eC1-200891**

**Electronic meeting, 20-28 February 2020** *(revision of C1-200443)*

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **23.041** | **CR** | **0209** | **rev** | **1** | **Current version:** | **16.2.0** |  |
|  |
| *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 | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  |  Support of a stored language-independent content referenced by a warning message |
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| ***Source to WG:*** | SyncTechno Inc. |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** |  ePWS |  | ***Date:*** |  2020-02-27 |
|  |  |  |  |  |
| ***Category:*** | **B** |  | ***Release:*** |  Rel-16 |
|  | *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-12 (Release 12)**Rel-13 (Release 13)Rel-14 (Release 14)Rel-15 (Release 15)Rel-16 (Release 16)* |
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| ***Reason for change:*** | In case of UEs with ePWS functionality and with user interface incapable of displaying text-based warning messages (e.g. devices with an augmented reality-based user interface or devices with a hologram-based user interface), it is needed to make a language-independent content stored in those UEs be referenced when a warning message is received in order to be displayed to a user of such devices based on the conclusion of 3GPP TR 23.735. |
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| ***Summary of change:*** | Addition of the support of a stored language-independent content referenced by a warning message for UEs with ePWS langauge-independent content functionality which are incapable of displaying text-based warning messages |
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| ***Consequences if not approved:*** | Missing the support of a stored language-indepenent content referenced by a warning messages for UEs with user interface and with ePWS functionality |
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| ***Clauses affected:*** | 8.3 |
|  |  |
|  | **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:*** |  |

## 8.3 ePWS functionality

The ePWS functionality consists of the ePWS language-independent content functionality and the ePWS disaster characteristics functionality as follows:

1) UEs with user interface which support the ePWS language-independent content functionality and which are capable of displaying text-based warning messages should be capable of displaying the language-independent content mapped to an event or a disaster (e.g. character such as Unicode based pictogram mapping to a disaster) that is part of user information contained in the content of a warning message transparently passed from CBC to UEs.

NOTE 1: Language-independent contents mapped to disasters need to be formatted to be suitable to be included in a warning message. It could be unicode symbol or symbol based on GSM 7 bit default alphabet. It is desirable that standardised symbols mapped to disasters are applied in all countries that provide warning messages for public safety. This will make it possible for foreigners to intuitively understand the meaning of language-independent contents displayed to their devices.

Editor’s note [WI: ePWS, CR#202]: FFS on what character(s) such as Unicode based pictogram(s) are the language-independent content mapped to an event or a disaster.

2) UEs with user interface which support the ePWS language-independent content functionality and which are incapable of displaying text-based warning messages should be capable of mapping message identifiers of received warning messages to language-independent contents stored in those UEs. When a warning message is received, such a UE should be capable of displaying of a language-independent content stored in the UE mapped from the message identifier of the received warning message.

NOTE 2: This ePWS functionality is not applied for such UEs if they are not possible to store any language-independent content due to the very limited memory size of such UEs.

3) UEs with no user interface which support the ePWS disaster characteristics functionality should be capable of identifying the characteristics of a disaster derived from the message identifier of a received warning message in order to take appropriate action.