**3GPP TSG-SA1 Meeting #92e *S1-204078***

**Electronic Meeting, 11-20 November, 2020** *(revision of S1-20xxxx)*

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **22.268** | **CR** | **0067** | **rev** | **-** | **Current version:** | **16.4.0** |  |
|  | | | | | | | | |
| *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:*** | Non public network support for PWS | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Nokia, Nokia Shanghai Bell, KPN, vivo Mobile Communications Ltd, one2many, Thales | | | | | | | | | |
| ***Source to TSG:*** | SA1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TBD | | | | |  | ***Date:*** | | | 2020-11-11 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***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:*** | | Currently, is it not clear if there are no requirements for NPN support of PWS.  It is noted that some Dutch regulations on NL-Alert (the Dutch version of EU-alert) have specified that networks serving more than 25000 users must support PWS. Thus, in those scenarios (e.g. big venues or campus), NPN could not be deployed wthout support of PWS, | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding an explicit requirement for NPN support of PWS. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | NPNs will not be able to support PWS. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 4.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \*\*\*\*\*

## 4.1 Background

Recently there has been an interest to ensure that the public has the capability to receive timely and accurate alerts, warnings and critical information regarding disasters and other emergencies irrespective of what communications technologies they use. As has been learned from disasters such as earthquakes, tsunamis, hurricanes and wild fires; such a capability is essential to enable the public to take appropriate action to protect their families and themselves from serious injury, or loss of life or property.

This interest to enhance the reliability, resiliency, and security of Warning Notifications to the public by providing a mechanism to distribute Warning Notifications over 3GPP systems is the impetus for this Public Warning System Technical Specification.

## \*\*\*\*\* second change \*\*\*\*\*

## 4.2 High level general requirements for Warning Notification delivery

The following list gives the high level general requirements for Warning Notification delivery:

- PWS shall be able to broadcast Warning Notifications to multiple users simultaneously with no acknowledgement required.

- PWS shall be able to support concurrent broadcast of multiple Warning Notifications.

- Warning Notifications shall be broadcast to a Notification Area which is based on the geographical information as specified by the Warning Notification Provider.

- PWS capable UEs (PWS-UE) in idle mode shall be capable of receiving broadcasted Warning Notifications.

Note: A bandwidth reduced low complexity UE or a UE supporting eDRX may not support all requirements for PWS, including ETWS, CMAS, EU-Alert and KPAS

- PWS shall only be required to broadcast Warning Notifications in languages as prescribed by regulatory requirements.

- Warning Notifications are processed by PWS on a first in, first out basis, subject to regulatory requirements.

- Reception and presentation of Warning Notifications to the user shall not pre-empt an active voice or data session.

- Warning Notifications shall be limited to those emergencies where life or property is at imminent risk, and some responsive action should be taken.

NOTE: This requirement does not prohibit the use of the operator’s network (i.e. broadcast technology) implemented for Warning Notifications to be used for commercial services.

- Subject to local/regional regulations, the 5G system shall be able to support PWS over non-public networks.