**3GPP TSG-CT WG1 Meeting #123-eC1-202xxx**

**Electronic meeting, 16-24 April 2020**

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| *CR-Form-v12.0* |
| **CHANGE REQUEST** |
|  |
|  | **24.301** | **CR** | **3345** | **rev** | **1** | **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 | **X** | Radio Access Network |  | Core Network | **X** |

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| ***Title:***  | Emergency PDN connection established after WUS negotiation |
|  |  |
| ***Source to WG:*** | vivo, Huawei, HiSilicon |
| ***Source to TSG:*** | C1 |
|  |  |
| ***Work item code:*** | TEI16, CIoT-CT |  | ***Date:*** | 2020-04-04 |
|  |  |  |  |  |
| ***Category:*** | **F** |  | ***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:*** | This contribution addesses the following editor’s note:Editor's note: Whether the WUS assistance can be used for a UE attached for emergency bearer services or a UE has a PDN connection for emergency bearer services is FFS. |
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| ***Summary of change:*** | When a PDN connection for emergency bearer service is successfully established after the UE received the Negotiated WUS assistance information IE during the last attach or tracking area updating procedure, the UE and the network shall not use WUS assistance information until the release of the PDN connection for emergency bearer service is synchronized between the UE and the network. |
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| ***Consequences if not approved:*** | Unspecified UE and network behavior when an emergency PDN connection is established after WUS negotiation. |
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| ***Clauses affected:*** | 5.3.21 |
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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 ...  |
|  |  |
| ***Other comments:*** |  |
|  |  |
| ***This CR's revision history:*** |  |

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

### 5.3.21 Wake-up signal assistance

A UE supporting wake-up signal (WUS) assistance can indicate its WUS assistance capability during attach or tracking area updating procedure (see 3GPP TS 23.401 [10]). The UE supporting WUS assistance may include its UE paging probability information in the Requested WUS assistance information IEduring an attach or tracking area updating procedure (see 3GPP TS 23.401 [10]). The UE and the network may negotiate the UE paging probability information during an attach or tracking area updating procedure. The UE paging probability information is an assistance information used to determine the WUS group for paging UE (see 3GPP TS 23.401 [10], 3GPP TS 36.300 [20]).

NOTE: The determination of UE paging probability information is up to UE implementation.

If the network accepts the use of the WUS assistance for the UE, the network determines the negotiated UE paging probability information for the UE based on the requested UE paging probability information, if any, local configuration or previous statistical information for the UE, and then indicates the negotiated UE paging probability information in the Negotiated WUS assistance information IE to the UE when accepting the attach or the tracking area updating procedure. The network shall store the negotiated UE paging probability information in the EMM context of the UE for paging.

The UE shall use WUS assistance only if it received the Negotiated WUS assistance information IE during the last attach or tracking area updating procedure. If the UE did not receive the Negotiated WUS assistance information IE during the last attach or tracking area updating procedure, the UE shall not use WUS assistance.

If the network did not accept the request to use WUS assistance, the network shall delete the stored negotiated UE paging probability information for the UE, if available.

When a PDN connection for emergency bearer service is successfully established after the UE received the Negotiated WUS assistance information IE during the last attach or tracking area updating procedure, the UE and the network shall not use WUS assistance information until:

- the successful completion of the PDN disconnect procedure of the PDN connection for emergency bearer services or EPS bearer context deactivation procedure of the EPS bearer context for emergency, or

- the UE receives WUS assistance information during a tracking area updating procedure with EPS bearer context synchronization or upon successful completion of a service request procedure, if the UE or the network locally releases the PDN connection for emergency bearer service.

Editor's note: Whether the WUS assistance is applied to the combined attach and combined TAU procedure is FFS.

\*\*\*\*\* end of changes \*\*\*\*\*