**3GPP TSG-CT WG1 Meeting #134-eC1-221305**

**E-Meeting, 17th – 25th February 2022**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.501** | **CR** | **4017** | **rev** | **-** | **Current version:** | **17.5.0** |  |
|  | | | | | | | | |
| *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:*** | Correct Coding of PEIPS assistance information IE | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | ZTE | | | | | | | | | |
| ***Source to TSG:*** | C1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | 5GProtoc17 | | | | |  | ***Date:*** | | | 2022-02-10 |
|  |  | | | |  | |  | | |  |
| ***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:*** | | In TS 24.501 subclause 9.11.3.80, the coding of PEIPS assistance information IE is specified as   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  | | PEIPS assistance information IEI | | | | | | | | octet 1 | | Length of PEIPS assistance information contents | | | | | | | | octet 2 | | PEIPS assistance information type 1 | | | | | | | | octet 3  octet i | | PEIPS assistance information type 2 | | | | | | | | octet i+1\*  octet l\* | | … | | | | | | | | octet l+1\*  octet m\* | | PEIPS assistance information type p | | | | | | | | octet m+1\*  octet n\* |   Figure 9.11.3.80.1: PEIPS assistance information information element   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 8 | 7 | 6 | | 5 | 4 | 3 | 2 | 1 | |  | | | Type of information | | | | Paging subgroup ID value | | | | | | octet 1 | |   Figure 9.11.3.80.2: PEIPS assistance information type –type of information= "000"  PEIPS assistance information type in PEIPS assistance information IE should start from octet 3 instead of octet 1. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Clarify that PEIPS assistance information type in PEIPS assistance information IE starts from octet 3. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | PEIPS assistance information type in PEIPS assistance information IE starts from the wrong octet. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.11.3.80 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 \* \* \* \*

#### 9.11.3.80 PEIPS assistance information

The purpose of the PEIPS assistance information, information element is to transfer the required assistance information to indicate the paging subgroup used when paging the UE.

The coding of the information element allows combining different types of PEIPS assistance information.

The PEIPS assistance information, information element is coded as shown in figure 9.11.3.80.1, figure 9.11.3.80.2 and table 9.11.3.80.1.

The PEIPS assistance information is a type 4 information element, with a minimum length of 3 octets.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |  |
| PEIPS assistance information IEI | | | | | | | | octet 1 |
| Length of PEIPS assistance information contents | | | | | | | | octet 2 |
| PEIPS assistance information type 1 | | | | | | | | octet 3  octet i |
| PEIPS assistance information type 2 | | | | | | | | octet i+1\*  octet l\* |
| … | | | | | | | | octet l+1\*  octet m\* |
| PEIPS assistance information type p | | | | | | | | octet m+1\*  octet n\* |

Figure 9.11.3.80.1: PEIPS assistance information information element

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8 | 7 | 6 | | 5 | 4 | 3 | 2 | 1 | |  | |
| Type of information | | | | Paging subgroup ID value | | | | | | octet 3 | |

Figure 9.11.3.80.2: PEIPS assistance information type –type of information= "000"

Table 9.11.3.80.1: PEIPS assistance information information element

|  |  |  |  |
| --- | --- | --- | --- |
| Value part of the PEIPS assistance information information element (octets 3 to n) | | | |
|  | | | |
| The value part of the PEIPS assistance information information element consists of one or several types of PEIPS assistance information. | | | |
|  | | | |
| PEIPS assistance information type: | | | |
|  | | | |
| Type of information (octet 3, bits 6-8) | | | |
| Bits | | | |
| 8 | 7 | 6 |  |
| 0 | 0 | 0 | Paging subgroup ID |
|  | | | |
| All other values are reserved. | | | |
|  | | | |
| Paging subgroup ID value: (octet 3, bits 1-5) | | | |
| This field contains the value (in decimal) of paging subgroup ID that is assigned by the AMF for paging the UE. This field has a valid range of values from (0-7). All other values are reserved and shall be interpreted as 0 by this version of the protocol. | | | |

Editor’s Note: The exact range to be used for paging subgroup ID is FFS.

\* \* \* End of Change \* \* \* \*