**3GPP TSG-CT WG4 Meeting #99eC4-204abc**

**E-Meeting, 18th – 28th June 2020 *was* C4-204302**

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| *CR-Form-v12.0* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **29.272** | **CR** | **0824** | **rev** | **1** | **Current version:** | **16.3.0** |  |
|  | | | | | | | | |
| *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:*** | Corrections on Broadcast-Location-Assistance-Data-Types | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Huawei | | | | | | | | | |
| ***Source to TSG:*** | CT4 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | TEI16 | | | | |  | ***Date:*** | | | 2020-08-11 |
|  |  | | | |  | |  | | |  |
| ***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 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-12 (Release 12)* *Rel-13 (Release 13) Rel-14 (Release 14) Rel-15 (Release 15) Rel-16 (Release 16)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | RAN2 TS 36.331 introduced multiple new positioning SIB Type in R16 (see TS 36.331 clause 6.2.2 and TS 37.355 clause 7.2), they should be included in Broadcast-Location-Assistance-Data-Types AVP. See the newly added SIB Type below in highlighted face.  *\ PosSIB-Type-r15 ::= SEQUENCE {*  *encrypted-r15 ENUMERATED { true } OPTIONAL, -- Need OP*  *gnss-id-r15 GNSS-ID-r15 OPTIONAL, -- Need OP*  *sbas-id-r15 SBAS-ID-r15 OPTIONAL, -- Need OP*  *posSibType-r15 ENUMERATED { posSibType1-1,*  *posSibType1-2,*  *posSibType1-3,*  *posSibType1-4,*  *posSibType1-5,*  *posSibType1-6,*  *posSibType1-7,*  *posSibType2-1,*  *posSibType2-2,*  *posSibType2-3,*  *posSibType2-4,*  *posSibType2-5,*  *posSibType2-6,*  *posSibType2-7,*  *posSibType2-8,*  *posSibType2-9,*  *posSibType2-10,*  *posSibType2-11,*  *posSibType2-12,*  *posSibType2-13,*  *posSibType2-14,*  *posSibType2-15,*  *posSibType2-16,*  *posSibType2-17,*  *posSibType2-18,*  *posSibType2-19,*  *posSibType3-1,*  *...,*  *posSibType1-8-v1610,*  *posSibType2-20-v1610,*  *posSibType2-21-v1610,*  *posSibType2-22-v1610,*  *posSibType2-23-v1610,*  *posSibType2-24-v1610,*  *posSibType2-25-v1610,*  *posSibType4-1-v1610,*  *posSibType5-1-v1610*  *},*  *...*  *}* | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Add the new SIB Type in Broadcast-Location-Assistance-Data-Types AVP. | | | | | | | | |
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| ***Consequences if not approved:*** | | Misalignment with RAN2. | | | | | | | | |
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| ***Clauses affected:*** | | 7.3.225 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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 won't introduce any impact on OpenAPI specification files. | | | | | | | | |
|  | |  | | | | | | | | |
| ***This CR's revision history:*** | | Rev1:   1. The first delimitation is not right, it changed to "The start of changes" from "For information" 2. Removed " TS 23.501 CR 2302" in Other specs affected on cover sheet. | | | | | | | | |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*The start of changes\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

### 7.3.225 Broadcast-Location-Assistance-Data-Types

The Broadcast-Location-Assistance-Data-Types AVP is of type Unsigned64. The content of this AVP is a bit mask which indicates the broadcast location assistance data types for which the UE is subscribed to receive ciphering keys used to decipher broadcast assistance data.

The meaning of the bits is defined in table 7.3.225-1:

Table 7.3.225-1: Broadcast-Location-Assistance-Data-Types

|  |  |  |
| --- | --- | --- |
| bit | name | Description |
| 0 | Positioning SIB Type 1-1 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 1-1. |
| 1 | Positioning SIB Type 1-2 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 1-2. |
| 2 | Positioning SIB Type 1-3 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 1-3. |
| 3 | Positioning SIB Type 1-4 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 1-4. |
| 4 | Positioning SIB Type 1-5 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 1-5. |
| 5 | Positioning SIB Type 1-6 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 1-6. |
| 6 | Positioning SIB Type 1-7 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 1-7. |
| 7 | Positioning SIB Type 2-1 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-1. |
| 8 | Positioning SIB Type 2-2 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-2. |
| 9 | Positioning SIB Type 2-3 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-3. |
| 10 | Positioning SIB Type 2-4 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-4. |
| 11 | Positioning SIB Type 2-5 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-5. |
| 12 | Positioning SIB Type 2-6 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-6. |
| 13 | Positioning SIB Type 2-7 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-7. |
| 14 | Positioning SIB Type 2-8 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-8. |
| 15 | Positioning SIB Type 2-9 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-9. |
| 16 | Positioning SIB Type 2-10 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-10. |
| 17 | Positioning SIB Type 2-11 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-11. |
| 18 | Positioning SIB Type 2-12 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-12. |
| 19 | Positioning SIB Type 2-13 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-13. |
| 20 | Positioning SIB Type 2-14 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-14. |
| 21 | Positioning SIB Type 2-15 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-15. |
| 22 | Positioning SIB Type 2-16 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-16. |
| 23 | Positioning SIB Type 2-17 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-17. |
| 24 | Positioning SIB Type 2-18 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-18. |
| 25 | Positioning SIB Type 2-19 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-19. |
| 26 | Positioning SIB Type 3-1 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 3-1. |
| 27 | Positioning SIB Type 1-8 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 1-8. |
| 28 | Positioning SIB Type 2-20 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-20. |
| 29 | Positioning SIB Type 2-21 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-21. |
| 30 | Positioning SIB Type 2-22 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-22. |
| 31 | Positioning SIB Type 2-23 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-23. |
| 32 | Positioning SIB Type 2-24 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-24. |
| 33 | Positioning SIB Type 2-25 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 2-25. |
| 34 | Positioning SIB Type 4-1 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 4-1. |
| 35 | Positioning SIB Type 5-1 | This bit, when set, indicates that the UE is subscribed to receive ciphering keys applicable to positioning SIB Type 5-1. |
| NOTE: Bits not defined in this table shall be cleared by the sending HSS and discarded by the receiving MME or SGSN. | | |

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