**3GPP TSG-CT WG1 Meeting #146C1-240xxx**

**Online, 22– 26 January 2024**

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| *CR-Form-v12.2* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
|  | | | | | | | | |
|  | **24.587** | **CR** | **0287** | **rev** | **1** | **Current version:** | **18.4.0** |  |
|  | | | | | | | | |
| *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 |  |

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|  | | | | | | | | | | |
| ***Title:*** | Adding new V2X message family encoding for supplementary RSPP signaling | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Source to WG:*** | Qualcomm Incorporated, Ericsson | | | | | | | | | |
| ***Source to TSG:*** | CT1 | | | | | | | | | |
|  |  | | | | | | | | | |
| ***Work item code:*** | Ranging\_SL | | | | |  | ***Date:*** | | | 2024-01-10 |
|  |  | | | |  | |  | | |  |
| ***Category:*** | B |  | | | | | ***Release:*** | | | Rel-18 |
|  | *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-16 (Release 16) Rel-17 (Release 17) Rel-18 (Release 18) Rel-19 (Release 19)* | |
|  |  | | | | | | | | | |
| ***Reason for change:*** | | TS 23.586 version 18.2.0 has introduced new ranging and sidelink protocol message called Supplementary RSPP signaling message. The supplementary RSPP signaling message is conveyed by PC5-U  As "Non-IP" layer-3 protocol data unit type is used for V2X capable UEs for ranging and sidelink positioning direct communication over PC5, a new message family type is needed for the supplementary RSPP signaling message. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Summary of change:*** | | Adding 'Supplementary RSPP signaling’ in the V2X message family encoding. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Consequences if not approved:*** | | Non-IP layer-3 protocol data unit type for V2X cannot be used for ranging and sidelink positioning to carry the supplementary RSPP signaling message. | | | | | | | | |
|  | |  | | | | | | | | |
| ***Clauses affected:*** | | 9.2 | | | | | | | | |
|  | |  | | | | | | | | |
|  | | **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\*\*\*\*\*

9.2 V2X message family encoding

The values are specified to identify the V2X message family according to table 9.2.1.

**Table 9.2.1: V2X message family**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| V2X message family (octet 14)  Bits | | | | | | | | | |
| **8** | **7** | **6** | **5** | **4** | **3** | **2** | **1** |  |  |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |  | IEEE 1609, see IEEE 1609.3 [13] |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |  | ISO, see ISO 29281-1 [17] |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |  | ETSI-ITS, see ETSI EN 302 636-3 [12] |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |  | CCSA, see CCSA YD/T 3707-2020 [24] |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |  | SLPP, see 3GPP TS 38.355 [30] |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |  | Supplementary RSPP signalling, see 3GPP TS 24.514 [29] |
| All other values are reserved. | | | | | | | | | |

\*\*\*\*\*End of change\*\*\*\*\*