**3GPP TSG-RAN WG1 Meeting #**

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| *CR-Form-v12.1* | | | | | | | | |
| **CHANGE REQUEST** | | | | | | | | |
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|  |  | **CR** |  | **rev** |  | **Current version:** | **16.6.0** |  |
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| *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 | **X** | Core Network |  |

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| ***Title:*** |  | | | | | | | | | |
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| ***Source to WG:*** | vivo | | | | | | | | | |
| ***Source to TSG:*** | R1 | | | | | | | | | |
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| ***Work item code:*** |  | | | | |  | ***Date:*** | | |  |
|  |  | | | |  | |  | | |  |
| ***Category:*** | F |  | | | | | ***Release:*** | | |  |
|  | *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)* | |
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| ***Reason for change:*** | | Since sidelink type2 HARQ-ACK codebook with HARQ-ACK for multiple resource pools containing PSFCHs is not supported in R16, the set of PDCCH monitoring occasions used for type2 sidelink codebook determination should be pool specific, it should be determined based on a single pool bitmap. However, according to the current spec, the set of PDCCH monitoring occasions is determined based on a set of pool bitmaps and can be interpreted as a collection of PDCCH monitoring occasions corresponding to multiple pools. | | | | | | | | |
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| ***Summary of change:*** | | Clarify that the set of PDCCH monitoring occasions used for type2 sidelink codebook determination is pool-specific and is determined based on a single pool bitmap. | | | | | | | | |
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| ***Consequences if not approved:*** | | It remains unclear how to construct the set of PDCCH monitoring occasions used for type2 sidelink codebook determination. | | | | | | | | |
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| ***Clauses affected:*** | | 16.5.2.1 | | | | | | | | |
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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 ... | | |
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| ***Other comments:*** | | **Isolated impact analysis:**  This CR aligns with RAN1 common understanding. | | | | | | | | |
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| ***This CR's revision history:*** | |  | | | | | | | | |

16.5.2.1 Type-2 HARQ-ACK codebook in physical uplink control channel

For a sidelink resource pool, a UE determines monitoring occasions for PDCCH with DCI format 3\_0 for scheduling PSSCH transmissions with associated PSFCH reception occasions on an active DL BWP of a serving cell , as described in clause 10.1, and for which the UE transmits HARQ-ACK information in a same PUCCH in slot based on

- PSFCH-to-HARQ\_feedback timing indicator field values, or a value provided by *sl-PSFCH-ToPUCCH-CG-Type1*, for PUCCH transmission with HARQ-ACK information in slot in response to PSFCH receptions;

- time gap field in DCI format 3\_0 for scheduling PSSCH transmissions with associated PSFCH receptions;

- time resource assignment in DCI format 3\_0 for scheduling PSSCH transmissions with associated PSFCH receptions;

- a configured sidelink resource pool bitmap;

- a value of a period of PSFCH resources provided in *sl-PSFCH-Period*;

- a value of a minimum time gap provided in *sl-MinTimeGapPSFCH*.

For the sidelink resource pool, the set of PDCCH monitoring occasions for DCI format 3\_0 for scheduling PSSCH transmissions with associated PSFCH reception occasions is defined as the PDCCH monitoring occasions in the active DL BWP of the configured serving cell, indexed in ascending order of start time of the associated search space sets. The cardinality of the set of PDCCH monitoring occasions defines a total number of PDCCH monitoring occasions