Companies providing input to this email discussion are requested to leave contact information below.

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# 1 Comments on CR

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| **Company** | **Clause number** | **Original text in CR** | **Suggested modification or comments** | **Rapporteur response** |
| ASUSTeK | 5.8.9.2.3 | NOTE 3: It is up to UE implementation whether to include fields other than *pdcp-ParametersSidelink* in the *UECapabilityInformationSidelink* message for for end-to-end L2 U2U relay NR sidelink communication. | Since setting the contents of *UECapabilityInformationSidelink* message is specified in clause 5.8.9.2.4, the new note (i.e. NOTE 3) added in clause 5.8.9.2.3 should be moved to clause 5.8.9.2.4.  In addition, there is a redundant word (i.e. “for”) in this new note. |  |
| ZTE | 5.8.17.4 | 1> if the UE is performing U2U Relay Communication with integrated Discovery as specified in TS 23.304 [65] and has received Direct Communication Request message(s) from one or multiple NR sidelink U2U Relay UEs:  2> when evaluating the NR sidelink U2U Relay UE(s), apply layer 3 filtering as specified in 5.5.3.2 across measurements that concern the same U2U Relay UE ID and using the *sd-FilterCoefficientU2U* in *SIB12* (if in RRC\_IDLE/INACTIVE), the *sd-FilterCoefficientU2U* in *sl-ConfigDedicatedNR* (if in RRC\_CONNECTED) or the preconfigured *sd-FilterCoefficientU2U* as defined in 9.3 (out of coverage), before using the SD-RSRP measurement results;  2> consider a candidate NR sidelink U2U Relay UE for which SL-RSRP exceeds *sd-RSRP-ThreshU2U* has met the AS criteria; | As discussion online, for integrated discovery, the SL-RSRP measurement results should be used, not SD-RSRP.  In our understanding, considering the DCR message without power control, so RAN2 had agreement to use SL-RSRP measurement results but applies the SD RSRP threshold. That is, the different power control is already considered, whereas when performing SL-RSRP filtering, it is reasonable to use the SL-RSRP filtering parameters...  But if companies still think sd filtering parameter is used, the field description should be changed accordingly, i.e. **the following parameter is also used for SL-RSRP measurement results filtering for integrated discovery**.  ***sd-FilterCoefficientU2U***  Specifies L3 filter coefficient for SD-RSRP measurement results from L1 filter. |  |
| ZTE | 5.8.17.4 | 1> perform NR sidelink discovery procedure as specified in clause 5.8.13 or U2U Relay Communication with integrated Discovery as specified in clause 5.8.8, in order to search for candidate NR sidelink U2U Relay UEs;  2> when evaluating the one or more detected NR sidelink U2U Relay UEs, apply layer 3 filtering as specified in 5.5.3.2 across measurements that concern the same U2U Relay UE ID and using the *sd-FilterCoefficientU2U* in *SIB12* (if in RRC\_IDLE/INACTIVE), the *sd-FilterCoefficientU2U* in *sl-ConfigDedicatedNR* (if in RRC\_CONNECTED) or the preconfigured *sd-FilterCoefficientU2U* as defined in 9.3 (out of coverage), before using the SD-RSRP measurement results;  2> consider a candidate NR sidelink U2U Relay UE for which SD-RSRP exceeds *sd-RSRP-ThreshU2U* has met the AS criteria; | Same as above, for integrated discovery, the SL-RSRP measurement results should be used, not SD-RSRP. |  |
| ZTE | 5.8.9.1a.2.1 | The above conditions also apply to L2 U2U Remote UE for end-to-end sidelink DRB addition. For L2 U2U Relay UE, an end-to-end sidelink sidelink DRB addition is initiated only in the case it receives new end-to-end sidelink sidelink DRB information from the source L2 U2U Remote UE as in clause 5.8.9.11.3.  The above conditions also apply to L2 U2U Remote UE for end-to-end sidelink DRB modification. For L2 U2U Relay UE, an end-to-end sidelink sidelink DRB modification is initiated only in the case it receives updated end-to-end sidelink sidelink DRB information from the source L2 U2U Remote UE as in clause 5.8.9.11.3. | Redundant “sidelink” |  |
| ZTE | 5.8.9.11.3 | 3> for the end-to-end SLRB which is in the current UE configuration but not included in the *sl-E2E-QoS-InfoListPC5* that (end-to-end DRB release):  4> initiate the end-to-end sidelink DRB release procedure according to clause 5.8.9.1a.1; | Redundant “that”?  “end-to-end sidelink DRB release/ addition/ modification”, sidelink is missing. |  |
| ZTE |  | ***duplicationState***  This field indicates the uplink PDCP duplication state for the associated RLC entities at the time of receiving this IE. If set to *true,* the PDCP duplication state is activated for the associated RLC entity. The index for the indication is determined by ascending order of logical channel ID of all RLC entities other than the primary RLC entityindicated by *primaryPath* in the order of MCG and SCG, as in clause 6.1.3.32 of TS 38.321 [3]. For MP, the index for the indication is determined by ascending order of direct path (where i is ascending order of logical channel ID of secondary RLC entities) and indirect path, as in clause 6.1.3.32 of TS 38.321 [3]. If the number of associated RLC entities other than the primary RLC entity is two or if the associated with one RLC entity and the N3C, UE ignores the value in the largest index of this field. If the field is absent, the PDCP duplication states are deactivated for all associated RLC entities. | It is not clear whether the associated RLC entities including equivalent entity on N3C or not:  - if yes, the new added sentence (or if the associated with one RLC entity and the N3C) is not needed.  - if not, then the following changes are needed:  This field indicates the uplink PDCP duplication state for the associated RLC entities or N3C at the time of receiving this IE. If set to *true,* the PDCP duplication state is activated for the associated RLC entity or N3C. The index for the indication is determined by ascending order of logical channel ID of all RLC entities other than the primary RLC entityindicated by *primaryPath* in the order of MCG and SCG, as in clause 6.1.3.32 of TS 38.321 [3]. For MP, the index for the indication is determined by ascending order of direct path (where i is ascending order of logical channel ID of secondary RLC entities) and indirect path, as in clause 6.1.3.32 of TS 38.321 [3]. If the number of associated RLC entities other than the primary RLC entity/primary path is two, or if associated with one RLC entity and the N3C/SRAP other than the primary RLC entity, UE ignores the value in the largest index of this field. If the field is absent, the PDCP duplication states are deactivated for all associated RLC entities. |  |
| ZTE |  | ***sl-U2U-PeerRemoteUE-ToAddModList***  ***sl-U2U-PeerRemoteUE-ToReleaseList*** | The IE name is not updated. |  |
| CATT | Cover Sheet | *In Reason for change part, the 3rd bullet, there is one typo for the wordinging “*UEInformationRequestSidelin message*”.* | *“*UEInformationRequestSidelink message*”* |  |
| Qualcomm | 5.3.11 UE actions upon going to RRC\_IDLE | 1> if SL indirect path is configured:  2> release cell identity and relay UE ID configured in *sl-IndirectPathAddChange*;  2> indicate upper layers to trigger PC5 unicast link release of the SL indirect path; | It should be possible to keep the PC5 link for idle state relay operation |  |
| Qualcomm | 5.3.11 UE actions upon going to RRC\_IDLE | 1> if N3C indirect path is configured:  2> release *n3c-IndirectPathAddChange*;  2> consider the non-3GPP connection is not used;  1> if the UE is acting as a N3C relay UE:  2> release *n3c-IndirectPathConfigRelay*;  2> consider the non-3GPP connection is not used; | Prefer to remove the highlight part. The non-3GPP connection could be used for other purpose. Release *n3c-IndirectPathAddChange* is enough for N3C MP release. |  |
| CATT | 5..8.17.4 | 1> if the UE is performing U2U Relay Communication with integrated Discovery as specified in TS 23.304 [65] and has received Direct Communication Request message(s) from one or multiple NR sidelink U2U Relay UEs:  2> when evaluating the NR sidelink U2U Relay UE(s), apply layer 3 filtering as specified in 5.5.3.2 across measurements that concern the same U2U Relay UE ID and using the sd-FilterCoefficientU2U in SIB12 (if in RRC\_IDLE/INACTIVE), the sd-FilterCoefficientU2U in sl-ConfigDedicatedNR (if in RRC\_CONNECTED) or the preconfigured sd-FilterCoefficientU2U as defined in 9.3 (out of coverage), before using the SD-RSRP measurement results;  2> consider a candidate NR sidelink U2U Relay UE for which SL-RSRP exceeds sd-RSRP-ThreshU2U has met the AS criteria;  2> if the UE detects any suitable NR sidelink U2U Relay UE(s):  3> consider one of the available suitable NR sidelink U2U Relay UE(s) can be selected;  2> else:  3> consider no NR sidelink U2U Relay UE to be selected. | This is related to P2 in [R2-2405876](file:///C:\Users\mtk16923\Documents\3GPP%20Meetings\202405%20-%20RAN2_126,%20Fukuoka\Extracts\R2-2405876%20Report%20of%20%5bAT126%5d%5b408%5d%5bRelay%5d.docx) Report of [AT126][408][Relay] Relay RRC proposals with ASN.1 impact.  During the online discussion, the below information had been recored:  Discussion:  Nokia recall that there was an agreement to use the SD-RSRP threshold because we assume the measurement would have SD-RSRP characteristics, and they think this also means we should use the SD-RSRP filtering. They agree with the typo correction in the TP.  CATT agree with Nokia and think we can just fix the typo.  The typo fix is missed in the current CR. The below revised is for your reference:  1> if the UE is performing U2U Relay Communication with integrated Discovery as specified in TS 23.304 [65] and has received Direct Communication Request message(s) from one or multiple NR sidelink U2U Relay UEs:  2> when evaluating the NR sidelink U2U Relay UE(s), apply layer 3 filtering as specified in 5.5.3.2 across measurements that concern the same U2U Relay UE ID and using the *sd-FilterCoefficientU2U* in *SIB12* (if in RRC\_IDLE/INACTIVE), the *sd-FilterCoefficientU2U* in *sl-ConfigDedicatedNR* (if in RRC\_CONNECTED) or the preconfigured *sd-FilterCoefficientU2U* as defined in 9.3 (out of coverage), before using the SL-RSRP measurement results;  2> consider a candidate NR sidelink U2U Relay UE for which SL-RSRP exceeds *sd-RSRP-ThreshU2U* has met the AS criteria;  2> if the UE detects any suitable NR sidelink U2U Relay UE(s):  3> consider one of the available suitable NR sidelink U2U Relay UE(s) can be selected;  2> else:  3> consider no NR sidelink U2U Relay UE to be selected. |  |
| CATT | 5..8.17.4 | 5.8.17.4 Actions related to selection and reselection of NR sidelink U2U Relay UE  Upon initiation of the NR sidelink U2U Relay (re)selection procedure, the UE shall:  1> perform NR sidelink discovery procedure as specified in clause 5.8.13 or U2U Relay Communication with integrated Discovery as specified in clause 5.8.8, in order to search for candidate NR sidelink U2U Relay UEs;  2> when evaluating the one or more detected NR sidelink U2U Relay UEs, apply layer 3 filtering as specified in 5.5.3.2 across measurements that concern the same U2U Relay UE ID and using the *sd-FilterCoefficientU2U* in *SIB12* (if in RRC\_IDLE/INACTIVE), the *sd-FilterCoefficientU2U* in *sl-ConfigDedicatedNR* (if in RRC\_CONNECTED) or the preconfigured *sd-FilterCoefficientU2U* as defined in 9.3 (out of coverage), before using the SD-RSRP measurement results;  2> consider a candidate NR sidelink U2U Relay UE for which SD-RSRP exceeds *sd-RSRP-ThreshU2U* has met the AS criteria;  1> if the UE detects any suitable NR sidelink U2U Relay UE(s):  2> consider one of the available suitable NR sidelink U2U Relay UE(s) can be selected;  1> else:  2> consider no NR sidelink U2U Relay UE to be selected;  1> if the UE is performing U2U Relay Communication with integrated Discovery as specified in TS 23.304 [65] and has received Direct Communication Request message(s) from one or multiple NR sidelink U2U Relay UEs:  2> when evaluating the NR sidelink U2U Relay UE(s), apply layer 3 filtering as specified in 5.5.3.2 across measurements that concern the same U2U Relay UE ID and using the *sd-FilterCoefficientU2U* in *SIB12* (if in RRC\_IDLE/INACTIVE), the *sd-FilterCoefficientU2U* in *sl-ConfigDedicatedNR* (if in RRC\_CONNECTED) or the preconfigured *sd-FilterCoefficientU2U* as defined in 9.3 (out of coverage), before using the SD-RSRP measurement results;   |  | | --- | | 2> consider a candidate NR sidelink U2U Relay UE for which SL-RSRP exceeds *sd-RSRP-ThreshU2U* has met the AS criteria;  2> if the UE detects any suitable NR sidelink U2U Relay UE(s):  3> consider one of the available suitable NR sidelink U2U Relay UE(s) can be selected;  2> else:  3> consider no NR sidelink U2U Relay UE to be selected. | | The first and second bullet marked with gray are parallel. The first bullet is for relay (re)selection using discovery procedure and the second bullet is for relay discovery using integrated discovery procedure. But in the description of first bullet, it also mentioned the integrated discovery procedure. It will lead misunderstanding. Hence, this should be fixed.  The below revised is for your reference:  Upon initiation of the NR sidelink U2U Relay (re)selection procedure, the UE shall:  1> if the UE is performing NR sidelink discovery procedure as specified in clause 5.8.13, in order to search for candidate NR sidelink U2U Relay UEs;  2> when evaluating the one or more detected NR sidelink U2U Relay UEs, apply layer 3 filtering as specified in 5.5.3.2 across measurements that concern the same U2U Relay UE ID and using the *sd-FilterCoefficientU2U* in *SIB12* (if in RRC\_IDLE/INACTIVE), the *sd-FilterCoefficientU2U* in *sl-ConfigDedicatedNR* (if in RRC\_CONNECTED) or the preconfigured *sd-FilterCoefficientU2U* as defined in 9.3 (out of coverage), before using the SD-RSRP measurement results;  2> consider a candidate NR sidelink U2U Relay UE for which SD-RSRP exceeds *sd-RSRP-ThreshU2U* has met the AS criteria;  2> if the UE detects any suitable NR sidelink U2U Relay UE(s):  3> consider one of the available suitable NR sidelink U2U Relay UE(s) can be selected;  2> else:  3> consider no NR sidelink U2U Relay UE to be selected; |  |
| OPPO | 5.8.9.2.3 | NOTE 3: It is up to UE implementation whether to include fields other than *pdcp-ParametersSidelink* in the *UECapabilityInformationSidelink* message for for end-to-end L2 U2U relay NR sidelink communication. | During online discussion, besides pdcp-ParametersSidelink, it was also mentioned that it would be safer to also add AS release indicator, so suggest to add it.  And one typo of duplicate “for” |  |
| ASUSTeK | 5.8.3.3 | 3> if *SIB12* includes *sl-L2-U2U-Relay* and if configured by upper layers to transmit NR sidelink L2 U2U relay communication and the UE has a selected L2 U2U Relay UE:  <omitted>  5> set *sl-CapabilityInformationSidelink* to include *UECapabilityInformationSidelink* messages received from L2 U2U Relay UE and the peer L2 U2U Remote UE, if any;  5> include *sl-U2U-InfoList* and set its fields (if needed) for each entry as follows to report the related end-to-end and the first hop information for the end-to-end PC5 connection with each peer L2 U2U Remote UE:  6> set *sl-TargetUE-Identity* to the destination identity configured by upper layer for NR sidelink L2 U2U relay communication transmission to peer L2 U2U Remote UE;  6> set *sl-E2E-QoS-InfoList* to include end-to-end QoS profile(s) of the sidelink QoS flow(s) of the associated destination configured by the upper layer for the NR sidelink L2 U2U relay communication transmission to peer L2 U2U Remote UE;  6> set *sl-* *PerHop-QoS-InfoList* to include the first-hop split PDB of the sidelink QoS flow(s) received from the *sl-SplitQoS-InfoListPC5* in *UEInformationResponseSidelink* message for the associated destination in accordance with the received *sl-TargetUE-Identity*;  <omitted>  SL-U2U-Info-r18 ::= SEQUENCE {  sl-U2U-Identity-r18 CHOICE {  sl-TargetUE-Identity-r18 SL-DestinationIdentity-r16,  sl-SourceUE-Identity-r18 SL-SourceIdentity-r17  },  sl-E2E-QoS-InfoList-r18 SEQUENCE (SIZE (1.. maxNrofSL-QFIsPerDest-r16)) OF SL-QoS-Info-r16 OPTIONAL,  sl-PerHop-QoS-InfoList-r18 SEQUENCE (SIZE (1.. maxNrofSL-QFIsPerDest-r16)) OF SL-SplitQoS-Info-r18 OPTIONAL,  sl-PerSLRB-QoS-InfoList-r18 SEQUENCE (SIZE (1.. maxNrofSLRB-r16)) OF SL-PerSLRB-QoS-Info-r18 OPTIONAL,  sl-CapabilityInformationTargetRemote-r18 OCTET STRING OPTIONAL  } | A new IE *sl-CapabilityInformationTargetRemote* is added in the *SidelinkUEInformationNR* message. In our understanding, this was not reflected in clause 5.8.3.3 (Actions related to transmission of SidelinkUEInformationNR message).  Besides, since the new IE *sl-CapabilityInformationTargetRemote* is specified, some text in the previous bullet should be updated accordingly. |  |

# 2 Comments on RIL list

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| **Company** | **Suggested modification or comments** | **Rapporteur response** |
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