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

|  |  |  |
| --- | --- | --- |
| **Company** | **Delegate name** | **Email address** |
| ASUSTeK | Lider Pan | lider\_pan@asus.com |
| ZTE | Mengzhen Wang | Wang.mengzhen@zte.com.cn |
| CATT | Hao Xu | xuhao@catt.cn |
| Nokia | Gyuri Wolfner | gyorgy.wolfner@nokia.com |
| Apple | Zhibin Wu | Zhibin\_wu@apple.com |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# 1 Comments on CR

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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. | Right. |
| 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. | Yes, SD should be changed to SL.For the filter, the field description will be updated as suggested, given that we discussed and agreed to use SD parameter. |
| 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. | Right, the structure is updated based on ZTE and CATT’s comment. |
| 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” | *Right* |
| 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. | *Yes.* |
| 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. | Right, I tend to think for N3C, we can understand there is associated RLC (or equivalent RLC), so I agree with you that N3C does not need to be mentioned here. |
| ZTE |  | ***sl-U2U-PeerRemoteUE-ToAddModList******sl-U2U-PeerRemoteUE-ToReleaseList*** | The IE name is not updated. | Right |
| 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 | But the UE is going to idle, there is no reason to still maintain de SL indirect path. Otherwise, some UP handling need to be specified. |
| 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. | The sentence is only for MP indirect path. If the UE wants to use the N3C for other purpose it’s not in the scope of MP. |
| 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%3A%5CUsers%5Cmtk16923%5CDocuments%5C3GPP%20Meetings%5C202405%20-%20RAN2_126%2C%20Fukuoka%5CExtracts%5CR2-2405876%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. | Yes. |
| CATT | 5..8.17.4 | 5.8.17.4 Actions related to selection and reselection of NR sidelink U2U Relay UEUpon 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; | Right, the structure is updated based on ZTE and CATT’s comment. |
| 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” | *Right.* |
| 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. | Yes, you are right. |
| Nokia | Cover page | 7.1.1 is not listed in the “Clauses affected” | Add 7.1.1 | Yes, you are right. |
| Nokia | General, e.g., in 5.8.3.3 |  | Editorial: There are changes over changes. I understand that these are due to reverting some previous agreement/changes, but please do not forget to remove them when the CR is finalized. | Yes, I will clean them up in the final version. |
| Nokia | 5.2.2.4.13 | NOTE: the L2 U2U UE is allowed to use previous configuration based on SIB12 before receiving dedicated configuration during and immediately after state transition from idle/inactive to connected. | NOTE: The L2 U2U UE is allowed to Editorial: NOTE text should be started with capital | Yes, you are right. |
| Nokia | General, e.g., 5.3.5.17.3.2 | NOTE: How to detect N3C Indirect path addition/change failure is up to UE implementation. | Editorial: Between “NOTE:” and the text a [TAB] is needed instead of a [SPACE] | Yes, you are right. |
| Nokia | 7.1.1 | No description of T400-U2U | Add the description of T400-U2U (similar to T400) | Thanks for the comments. t400-U2U is to configure the value to T400, so it’s not a new timer. |
| Huawei, HiSilicon | 5.3.5.17.2.2 | H129 was agreed in RAN2 #125bis meeting, but is not included in the latest CR. | Make the following change: | Ok. |
| Apple | 5.8.9.1.2 | “i.e. the UE is performing non-L2 U2U relay NR sidelink communication with a peer UE” | “non-L2” may be confusing and misunderstood as “L3” U2U relay operation only. Suggest to change“i.e. the UE is performing ~~non-L2 U2U relay~~ NR sidelink communication with a peer UE w/o via a L2 U2U relay”  | Ok |
| Apple | 5.8.9.1.2 | 5.8.9.1.2 for SRAP local ID config:2> else if the sidelink DRB is an end-to-end sidelink DRB (i.e. the UE is acting as a L2 U2U Remote UE, and configure peer L2 U2U Remote UE with end-to-end SDAP and PDCP):3> set the *SLRB-Config* (excluding sl-RLC-ConfigPC5 and sl-MAC-LogicalChannelConfigPC5 ) included in the *slrb-ConfigToAddModList*, according to the received *sl-RadioBearerConfig* corresponding to the sidelink DRB ; | The RLC and MAC config in SLRB-config does not need to be configured “according to sl-radioBearerConfig”, so we should exclude them to ensure the correct UE behavior. | Ok |
| Apple | 5.8.9.1.2 | 3> include an entry in *sl-LocalID-PairToAddModList*, and set the fields as below:4> set *sl-RemoteUE-L2Identity* to the source L2 ID of this L2 U2U Remote UE, and set *sl-RemoteUE-LocalIdentity* to include the new local UE ID assigned to this L2 U2U Remote UE, in the *SL-SRAP-ConfigPC5*, if needed;4> set *sl-PeerRemoteUE-L2Identity* to the destination L2 ID of the peer L2 U2U Remote UE, and set *sl-PeerRemoteUE-LocalIdentity* to include the new local UE ID assigned to the peer L2 U2U Remote UE, in the *SL-SRAP-ConfigPC5*, if needed;And 5.8.9.1.3:1> if the *RRCReconfigurationSidelink* message includes the *sl-LocalID-PairToAddModList*:2> configure SRAP entity to perform NR sidelink L2 U2U relay operation accordingly for the end-to-end PC5 connection peer L2 U2U Remote UE as defined in TS 38.351 [65]; | The current procedure logic (i.e., using two separate paragraphs ended with ”if needed”) is still based on “User info ID and L2 ID” association is provided by upper layer so that setting for remote UE and setting for peer remote UE can be “optional” , or just one-sided by setting only one of them by L2 relay UE. However, based on SA2 reply LS, the L2 ID is no longer provided by upper layer, so the relay UE SHALL always provided in “pair”, i.e., including both L2 IDs to help remote UE to correctly identify the L2 ID(s) to be used for end-to-end PC5 link. If L2 ID and/or local ID is not provided for one end, then the (peer) remote UE will be left confused which L2 ID and which local ID is actually assigned, especially when multiple local ID and L2 IDs may have been assigned a priori to the same remote UE.Also, based on the Remote UE procedure in 5.8.9.1.3 after reception of this message, the “config….accordingly” won’t work if both L2 IDs and both Local IDs are not provided as a complete paired set explicitly in the message itself.To simply make the logic correct (without requiring changes in 5.8.9.1.3 to describe how remote UE shall handle an unpaired assignment), I suggest to merge two paragraph as one, and remove “if needed” phrase in 5.8.9.1.2,3> include an entry in *sl-LocalID-PairToAddModList*, and set the fields as below:4> set *sl-RemoteUE-L2Identity* to the source L2 ID of this L2 U2U Remote UE, set *sl-PeerRemoteUE-L2Identity* to the destination L2 ID of the peer L2 U2U Remote UE and set *sl-RemoteUE-LocalIdentity* and *sl-PeerRemoteUE-L2Identity* correspondingly to include the newly assigned local UE ID pair, in the *SL-SRAP-ConfigPC5*; | Ok, I also understand the relay UE needs to assign new local ID pair upon a new E2E connection setup. If there is no concern from other companies, I can remove the “if needed”. (Merging or not seems no big different, the current two sentence seems also fine.) |
| Apple | 5.8.9.1.2 | 1> if the UE is acting as L2 U2U Relay UE (i.e. Tx UE) and is in RRC\_IDLE or in RRC\_INACTIVE or out of coverage, and the procedure is initiated to release the second hop PC5 Relay RLC channel of an end-to-end sidelink DRB to the connected L2 U2U Remote UE (i.e. Rx UE) according to clause 5.8.9.7.1:2> set the *SL-RLC-ChannelID* corresponding to the PC5 Relay RLC channel in the *s**l-RLC-ChannelToReleaseListPC5*; | “;” should be “.” | Ok |
| Apple | 5.8.9.1.2 | 1> for each PC5 Relay RLC channel that is to be established or modified due to receiving *sl-ConfigDedicatedNR*:2> if a PC5 Relay RLC channel is to be established:3> assign a new logical channel identity for the logical channel to be associated with the PC5 Relay RLC channel and set *sl-MAC-LogicalChannelConfigPC5* in the *SL-RLC-ChannelConfigPC5* to include the new logical channel identity;2> set the *SL-RLC-ChannelConfigPC5* included in the *sl-RLC-ChannelToAddModListPC5* according to the received *SL-RLC-ChannelConfig* corresponding to the PC5 Relay RLC channel, including setting *sl-RLC-ChannelID-PC5* to the same value of *sl-RLC-ChannelID* received in *SL-RLC-ChannelConfig*; | “SL-RLC-ChannelConfig” is only used for L2 U2N case, sl-RLC-ChannelToAddModList-r17 SEQUENCE (SIZE (1..maxSL-LCID-r16)) OF SL-RLC-ChannelConfig-r17 OPTIONAL, -- Cond L2U2Nbut not for U2U case. Basically, we cannot use the same sentence for both U2N and U2U case because different IEs in Sl-configDedicatedNR are involved:To fix this:1> for each PC5 Relay RLC channel that is to be established or modified due to receiving *sl-ConfigDedicatedNR*:2> if a PC5 Relay RLC channel is to be established:3> assign a new logical channel identity for the logical channel to be associated with the PC5 Relay RLC channel and set *sl-MAC-LogicalChannelConfigPC5* in the *SL-RLC-ChannelConfigPC5* to include the new logical channel identity;2> if UE is operating for L2 U2N relay operation:3> set the *SL-RLC-ChannelConfigPC5* included in the *sl-RLC-ChannelToAddModListPC5* according to the received *SL-RLC-ChannelConfig* corresponding to the PC5 Relay RLC channel, including setting *sl-RLC-ChannelID-PC5* to the same value of *sl-RLC-ChannelID* received in *SL-RLC-ChannelConfig*;2> else if UE is operating for L2 U2U relay operation:3> set the *SL-RLC-ChannelConfigPC5* included in the *sl-RLC-ChannelToAddModListPC5* according to the received sl-RLC-BearerConfig corresponding to the PC5 Relay RLC channel to be established as specified in 5.8.9.7.2, including setting *sl-RLC-ChannelID-PC5* to the same value of *SL-RLC-BearerConfigIndex-r16* received in sl-RLC-BearerConfig; | Good point, so what we should do is to extend the condition L2U2N to U2U case, to align 4.4:- Configuration of SRAP entity and Uu/PC5 Relay RLC channels for the support of L2 U2N relay.-Configuration of SRAP entity and PC5 Relay RLC channels for the support of L2 U2U relay operation.  |
| Apple | 5.8.9.1.3 | 1> else:2> set the content of the *RRCReconfigurationCompleteSidelink* message;3> if the UE rejects the sidelink DRX configuration *sl-DRX-ConfigUC-PC5* received from the peer UE:4> include the *sl-DRX-ConfigReject* in the *RRCReconfigurationCompleteSidelink* message;4> consider no sidelink DRX to be applied for the corresponding sidelink unicast communication;3> submit the *RRCReconfigurationCompleteSidelink* message to lower layers for transmission; | “;” should be “.”Same problem for 5.8.9.1.8 and 5.8.9.1a.1.2 | Agree with the proposed change, but it’s to Rel-16 sentences. |
| Apple | 5.8.9.1a.1.2 | 1> for unicast, if the sidelink DRB release was triggered due to the reception of the *RRCReconfigurationSidelink* message; or1> for unicast, after receiving the *RRCReconfigurationCompleteSidelink* message, if the sidelink DRB release was triggered due to the configuration received within the *SIB12*, *SidelinkPreconfigNR* or indicated by upper layers:2> release the RLC entity and the corresponding logical channel for NR sidelink communication associated with the sidelink DRB;2> perform the sidelink UE information procedure in clause 5.8.3 for unicast if needed. | The highlighted part cannot be executed if the DRB release is for end-to-end DRB via L2 U2U relay, so we need add some additional condition here:1. for unicast, after receiving the *RRCReconfigurationCompleteSidelink* message, if the sidelink DRB release was triggered due to the configuration received within the *SIB12*, *SidelinkPreconfigNR* or indicated by upper layers:
2. if the DRB released is not an end-to-end DRB via L2 U2U relay operation:

3> release the RLC entity and the corresponding logical channel for NR sidelink communication associated with the sidelink DRB;3> perform the sidelink UE information procedure in clause 5.8.3 for unicast if needed. | Right. |
| Apple | 5.8.9.1a.2.2 | 2> for a per-hop sidelink DRB (i.e. the UE is performing non-L2 U2U relay NR sidelink communication with a peer UE): | Same concern about “non-L2” | Right. |
| Apple | 5.8.9.1a.2.2 | 2> else if the UE is in RRC\_IDLE or RRC\_INACTIVE, or out of coverage:3> perform the PC5 Relay RLC channel addition/modification as specified in clause 5.8.9.7.2 if needed, according to the derived PC5 RLC channel configuration as described in clause 5.8.9.11;3> consider the PC5 RLC channel appling the derived PC5 RLC channel configuration as the egress PC5 Relay RLC channel; 3> configure the egress PC5 Relay RLC channel for this end-to-end sidelink DRB to SRAP; | “PC5 RLC channel” highlighted shall be “ PC5 Relay RLC channel” because this is ais the channel established in the prior step in level-3 bullet. | You are right, there is no concept of PC5 RLC channel, so all the “PC5 RLC channel” should be “PC5 Relay RLC channel” in the specification. |
| Apple | 5.8.9.7.2 | 1> after receiving the *RRCReconfigurationCompleteSidelink* message, if the PC5 Relay RLC channel addition/modification was triggered for an end-to-end sidelink DRB based on the configuration in *SIB12* or *SidelinkPreconfigNR*:2> if the current configuration contains a PC5 Relay RLC channel with the received *sl-RLC-ChannelID* or *sl-RLC-ChannelID-PC5*; or2> if the configuration in *SIB12* or *SidelinkPreconfigNR* has updated, based on which the PC5 Relay RLC channel is derived:3> reconfigure the sidelink RLC entity in accordance with the received *sl-RLC-Config* or *sl-RLC-ConfigPC5*;3> reconfigure the sidelink MAC entity with a logical channel in accordance with the received *sl-MAC-LogicalChannelConfig* or *sl-MAC-LogicalChannelConfigPC5*;2> else (a PC5 Relay RLC channel with the received *sl-RLC-ChannelID* or *sl-RLC-ChannelID-PC5* was not configured before):3> establish a sidelink RLC entity in accordance with the received *sl-RLC-Config* (in *sl-ConfigDedicatedNR*, or *SIB12*, or *SidelinkPreconfigNR*) or *sl-RLC-ConfigPC5*;3> configure the sidelink MAC entity with a logical channel in accordance with the received *sl-MAC-LogicalChannelConfig* or *sl-MAC-LogicalChannelConfigPC5*. | *To avoid confusions, both RLC channel config and RLC bearer config in dedicated RRC signalling contains sl-RLC-Config. We suggest to add “*linked to sl-RadioBearerConfig *“ to clarify:*3> establish a sidelink RLC entity in accordance with the received *sl-RLC-Config* linked to sl-RadioBearerConfig(in *sl-ConfigDedicatedNR*, or *SIB12*, or *SidelinkPreconfigNR*) or *sl-RLC-ConfigPC5*; | I understand the intention, but without the change, it should be clear that all the UE behavior is for a E2E DRB, as indicated in the level-1 branch, so I tend to think the change is not so essential. In addition, “linked to xxx” is more for idle/inactive behaviour, for connected, following the configuration should be sufficient. |
| Apple | 5.8.9.11.3 | 4> if the UE is in RRC\_IDLE or RRC\_INACTIVE:5> derive the PC5 RLC channel configuration for the second PC5 hop based on the per-SLRB level QoS profile of this end-to-end sidelink DRB according to the configuration in *SIB12*;4> else if the UE is out of coverage:5> derive the PC5 RLC channel configuration for the second PC5 hop based on per-SLRB level QoS profile of this end-to-end sidelink DRB according to the configuration in *SidelinkPreconfigNR*; | *“Derive the PC5 RLC channel configuration*” part has been explicitly described in 5.8.9.7.2 with details. Why not just refer to 5.8.9.7.2? and remove the description here”4> if the UE is in RRC\_IDLE or RRC\_INACTIVE or out of coverage:5> derive the PC5 RLC channel configuration as specified in 5.8.9.7.2;~~4> else if the UE is out of coverage:~~~~5> derive the PC5 RLC channel configuration for the second PC5 hop based on per-SLRB level QoS profile of this end-to-end sidelink DRB according to the configuration in~~ *~~SidelinkPreconfigNR~~*~~;~~ | Because in the clause, the UE receive the QoS info, so it seems convenient to capture the RLC configuration derivation based on QoS, then the clause 5.8.9.7.2, if more focus on RLC establishment according to the configuration. There are some clarification about how the configuration is derived, and I agree this part seems a bit duplicated, but I understand the content is correct so it seems fine. |

# 2 Comments on RIL list

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