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** |
| CATT | 6.2.2 | ***n3c-Suport***This field indicates the support of N3C MP. If the field is present, the UE can perform early detection of candidate N3C relay UEs. If absent, a UE is not required to perform early detection of candidate N3C relay UEs. | ***n3c-Support***This field indicates the support of N3C MP. If the field is present, the UE can perform early detection of candidate N3C relay UEs. If absent, a UE is not required to perform early detection of candidate N3C relay UEs. |  |
| CATT | 6.3.1 | t400-U2U-r18 ENUMERATED {ms200, ms400, ms600, ms800, ms1200, ms2000, ms3000, ms4000} OPTIONAL, -- Need M | t400-U2U-r18 ENUMERATED {ms200, ms400, ms600, ms800, ms1200, ms2000, ms3000, ms4000} OPTIONAL, -- Need R |  |
| CATT | 6.3.16.3.5 |  | For the new introdeced t400-U2U-r18, just wonder any procedure text’s addition is also needed? |  |
| ASUSTeK | 5.8.9.1.2 | 5.8.9.1.2 Actions related to transmission of *RRCReconfigurationSidelink* messageThe UE shall set the contents of *RRCReconfigurationSidelink* message as follows:1> for each sidelink DRB that is to be released, according to clause 5.8.9.1a.1.1, due to configuration by *sl-ConfigDedicatedNR,* *SIB12*, *SidelinkPreconfigNR*, by upper layers, or due to end-to-end sidelink release:2> set the entryincluded in the *slrb-ConfigToReleaseList* corresponding to the sidelink DRB;… | It seems to us that the term “end-to-end sidelink release” is not used at any other places in the RRC Spec. In our understanding, this should be “end-to-end sidelink DRB release”. |  |
| ASUSTeK | 5.8.9.1a.1.2 and5.8.9.7.1 | 5.8.9.1a.1.2 Sidelink DRB release operations…1> if the sidelink radio link failure is detected for a specific destination; or1> if the sidelink DRB release is triggered by end-to-end PC5 connection failure due to per-hop PC5 link failure, in accordance with clause 5.8.9.3a:2> release the PDCP entity, RLC entity and the logical channel of the sidelink DRB for the specific destination.…5.8.9.7.1 PC5 Relay RLC channel release…1> if the PC5 Relay RLC channel release was triggered by end-to-end DRB release as specified in 5.8.9.1a.1.2; or 1> if the PC5 Relay RLC channel release was triggered by end-to-end DRB modification as specified in 5.8.9.1a.2.2:2> if the PC5 Relay RLC channel release was triggered due to per-hop PC5 link failure; or2> if the PC5 Relay RLC channel release was triggered after the reception of the *RRCReconfigurationSidelink* message; or2> after receiving the *RRCReconfigurationCompleteSidelink* message, if the PC5 Relay RLC channel release was triggered due to the configuration received within the *sl-ConfigDedicatedNR*;3> release the RLC entity and the corresponding logical channel associated with the end-to-end DRB;… | It seems the RLC channel release due to **per-hop PC5 link failure** is performed twice in clauses 5.8.9.1a.1.2 and 5.8.9.7.1. In our understanding, the cause of the PC5 Relay RLC channel release in clause 5.8.9.7.1 could be due to **end-to-end PC5 link failure** (including T400 expiry, integrity check failure, and end-to-end PC5 connection failure due to reception of *NotificationMessageSidelink*, as specified in clause 5.8.9.3a) instead of **per-hop PC5 link failure**. Besides, as specified in clause 5.8.9.1.2, the sidelink RRC reconfiguration procedure is initiated due to end-to-end sidelink DRB release. Thus, we think the action of RLC channel release should be performed after receiving the *RRCReconfigurationCompleteSidelink* message. If the above understandings are correct, the following modification is suggested:5.8.9.7.1 PC5 Relay RLC channel release…1> if the PC5 Relay RLC channel release was triggered by end-to-end DRB release as specified in 5.8.9.1a.1.2; or 1> if the PC5 Relay RLC channel release was triggered by end-to-end DRB modification as specified in 5.8.9.1a.2.2:2> after receiving the *RRCReconfigurationCompleteSidelink* message, if the PC5 Relay RLC channel release was triggered due to ~~per-hop~~end-to-end PC5 link failure; or2> if the PC5 Relay RLC channel release was triggered after the reception of the *RRCReconfigurationSidelink* message; or2> after receiving the *RRCReconfigurationCompleteSidelink* message, if the PC5 Relay RLC channel release was triggered due to the configuration received within the *sl-ConfigDedicatedNR*;3> release the RLC entity and the corresponding logical channel associated with the end-to-end DRB;… |  |
| OPPO | 5.3.7.2 | 1> release *sl-L2RelayUE-Config*, if configured;1> release *sl-L2RemoteUE-Config*, if configured;1> release the SRAP entity, if configured; | The U2U Relay configuration should not be released, suggested change as follows:1> release *sl-L2RelayUE-Config* for U2N Relay case, if configured;1> release *sl-L2RemoteUE-Config* for U2N Relay case, if configured;1> release the SRAP entity for U2N Relay case, if configured; |  |
| OPPO | 5.8.3.3/6.2.2 *SidelinkUEInformationNR* | 5.8.3.3<omit>5> set *sl-RLC-ModeIndicationistL2-U2U* to include the RLC mode(s), if the associated bi-directional PC5 RLC channel(s) has been established due to the configurationby *RRCReconfigurationSidelink*;6.2.2-*SidelinkUEInformationNR*SL-TxResourceReqL2-U2U-r18 ::= SEQUENCE { sl-DestinationIdentityL2-U2U-r18 SL-DestinationIdentity-r16 OPTIONAL, sl-TxInterestedFreqListL2-U2U-r18 SL-TxInterestedFreqList-r16, sl-TypeTxSyncListL2-U2U-r18 SEQUENCE (SIZE (1..maxNrofFreqSL-r16)) OF SL-TypeTxSync-r16, sl-CapabilityInformationSidelink-r18 OCTET STRING OPTIONAL, sl-U2U-InfoList-r18 SEQUENCE (SIZE (1.. maxNrofRemoteUE-r17)) OF SL-U2U-Info-r18 OPTIONAL, sl-RLC-ModeIndicationListL2-U2U-r18 SEQUENCE (SIZE (1.. maxNrofSLRB-r16)) OF SL-RLC-Mode-r18 OPTIONAL, ...} | Another alt is to reuse the legacy IE (sl-RLC-ModeIndicationList) and set the QFI by relay UE implementation, suggested change is as follows:***sl-RLC-ModeIndication***This field indicates the RLC mode and optionally the related QoS profiles for the sidelink radio bearer, which has not been configured by the network and is initiated by another UE in unicast. The RLC mode for one sidelink radio bearer is aligned between UE and NW by the sl-QoS-FlowIdentity. L2 U2U Relay UE set the associated sl-QoS-FlowIdentity by implementation. |  |
| OPPO | 5.8.9.1.2 | 1> for each sidelink DRB that is to be released, according to clause 5.8.9.1a.1.1, due to configuration by *sl-ConfigDedicatedNR,* *SIB12*, *SidelinkPreconfigNR*, by upper layers, or due to end-to-end sidelink release: | Can “by upper layers” already cover the end-to-end link release case? So we don’t need to add the “or due to end-to-end sidelink release” |  |
| OPPO | 5.8.9.1.2 | 1> for each sidelink DRB that is to be established or modified, according to clause 5.8.9.1a.2.1, due to receiving *sl-ConfigDedicatedNR,* *SIB12* or *SidelinkPreconfigNR*:2> if the sidelink DRB is a per-hop sidelink DRB (i.e. the UE is performing non-L2 U2U relay NR sidelink communication with a peer UE):3> if a sidelink DRB is to be established:4> assign a new logical channel identity for the logical channel to be associated with the sidelink DRB and set *sl-MAC-LogicalChannelConfigPC5* in the *SLRB-Config* to include the new logical channel identity;3> set the *SLRB-Config* included in the *slrb-ConfigToAddModList*, according to the received *sl-RadioBearerConfig* and *sl-RLC-BearerConfig* corresponding to the sidelink DRB;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> if the UE is in RRC\_CONNECTED:4> set the *SLRB-Config* included in the *slrb-ConfigToAddModList*, according to the received *sl-RadioBearerConfig* in *sl-ConfigDedicatedNR*;3> else if the UE is in RRC\_IDLE/RRC\_INACTIVE:4> set the *SLRB-Config* included in the *slrb-ConfigToAddModList*, which is derived by end-to-end QoS profile, according to the *sl-RadioBearerConfig* in *SIB12*;3> if the UE is out of coverage:4> set the *SLRB-Config* included in the *slrb-ConfigToAddModList*, which is derived by end-to-end QoS profile, according to the *sl-RadioBearerConfig* in *SidelinkPreconfigNR*; | Since “or provide the L2 U2U Relay UE with the QoS flow to end-to-end DRB mapping” is removed, there is no need to separate E2E DRB and per-hop DRB, the only difference is for U2U Relay case, the assign logical channel identity operation is not needed, suggested change is as follows:1> for each sidelink DRB that is to be established or modified, according to clause 5.8.9.1a.2.1, due to receiving *sl-ConfigDedicatedNR,* *SIB12* or *SidelinkPreconfigNR*:~~2> if the sidelink DRB is a per-hop sidelink DRB (i.e. the UE is performing non-L2 U2U relay NR sidelink communication with a peer UE):~~~~3~~2> if a sidelink DRB is to be established and if the sidelink DRB is a per-hop sidelink DRB (i.e. the UE is performing non-L2 U2U relay NR sidelink communication with a peer UE):3~~4~~> assign a new logical channel identity for the logical channel to be associated with the sidelink DRB and set *sl-MAC-LogicalChannelConfigPC5* in the *SLRB-Config* to include the new logical channel identity;2~~3~~> set the *SLRB-Config* included in the *slrb-ConfigToAddModList*, according to the received *sl-RadioBearerConfig* and *sl-RLC-BearerConfig* corresponding to the sidelink DRB;~~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> if the UE is in RRC\_CONNECTED:~~~~4> set the~~ *~~SLRB-Config~~* ~~included in the~~ *~~slrb-ConfigToAddModList~~*~~, according to the received~~ *~~sl-RadioBearerConfig~~* ~~in~~ *~~sl-ConfigDedicatedNR~~*~~;~~~~3> else if the UE is in RRC\_IDLE/RRC\_INACTIVE:~~~~4> set the~~ *~~SLRB-Config~~* ~~included in the~~ *~~slrb-ConfigToAddModList~~*~~, which is derived by end-to-end QoS profile, according to the~~ *~~sl-RadioBearerConfig~~* ~~in~~ *~~SIB12~~*~~;~~~~3> if the UE is out of coverage:~~~~4> set the~~ *~~SLRB-Config~~* ~~included in the~~ *~~slrb-ConfigToAddModList~~*~~, which is derived by end-to-end QoS profile, according to the~~ *~~sl-RadioBearerConfig~~* ~~in~~ *~~SidelinkPreconfigNR~~*~~;~~ |  |
| OPPO | 5.8.9.1a.1.2 | 1> if the sidelink DRB release is triggered by end-to-end PC5 connection failure due to per-hop PC5 link failure, in accordance with clause 5.8.9.3a: | Why only mention the per-hop PC5 link failure case? |  |
| OPPO | 5.8.9.1a.2.2 | 2> for an end-to-end sidelink DRB (i.e. the UE is acting as L2 U2U Remote UE or L2 U2U Relay UE):3> if the UE is in RRC\_CONNECTED:4> reconfigure the SRAP entity for the sidelink DRB, in accordance with the *sl-SRAP-ConfigU2U* received in *sl-ConfigDedicatedNR*, if included;3> else if the UE is in RRC\_IDLE or RRC\_INACTIVE:4> derive the PC5 RLC channel configuration based on per-SLRB QoS profile of this end-to-end sidelink DRB according to the configuration in *SIB12*;3> else if the UE is out of coverage:4> derive the PC5 RLC channel configuration based on per-SLRB QoS profile of this end-to-end sidelink DRB according to the configuration in *SidelinkPreconfigNR*;3> if the PC5 RLC channel configuration derived by per-SLRB QoS profile of this end-to-end sidelink DRB is changed:4> perform the PC5 Relay RLC channel release or addition/modification according to the derived PC5 RLC channel configuration as specified in 5.8.9.7.1 or 5.8.9.7.2; 4> consider the PC5 RLC channel applying the configuration derived by per-SLRB QoS profile of this end-to-end sidelink DRB as the egress PC5 relay RLC channel; 4> associate this end-to-end sidelink DRB with the PC5 RLC channel;4> reconfigure the SRAP entity with the mapping between the end-to-end sidelink DRB and the egress PC5 relay RLC channel for the sidelink DRB. | The wording of IDLE/INACTIVE/OOC case can be simplified/aligned with CONNECTED case as follows2> for an end-to-end sidelink DRB (i.e. the UE is acting as L2 U2U Remote UE or L2 U2U Relay UE):3> if the UE is in RRC\_CONNECTED:4> reconfigure the SRAP entity for the sidelink DRB, in accordance with the *sl-SRAP-ConfigU2U* received in *sl-ConfigDedicatedNR*, if included;3> else if the UE is in RRC\_IDLE or RRC\_INACTIVE:4> reconfigure the SRAP entity for the sidelink DRB, if the derived PC5 RLC channel configuration derived by per-SLRB QoS profile of this end-to-end sidelink DRB is changed according to he configuration in SIB12;~~derive the PC5 RLC channel configuration based on per-SLRB QoS profile of this end-to-end sidelink DRB according to the configuration in~~ *~~SIB12~~*~~;~~3> else if the UE is out of coverage:4> reconfigure the SRAP entity for the sidelink DRB, if the derived PC5 RLC channel configuration derived by per-SLRB QoS profile of this end-to-end sidelink DRB is changed according to he configuration in SidelinkPreconfigNR;~~derive the PC5 RLC channel configuration based on per-SLRB QoS profile of this end-to-end sidelink DRB according to the configuration in~~ *~~SidelinkPreconfigNR~~*~~;~~~~3> if the PC5 RLC channel configuration derived by per-SLRB QoS profile of this end-to-end sidelink DRB is changed:~~~~4> perform the PC5 Relay RLC channel release or addition/modification according to the derived PC5 RLC channel configuration as specified in 5.8.9.7.1 or 5.8.9.7.2;~~ ~~4> consider the PC5 RLC channel applying the configuration derived by per-SLRB QoS profile of this end-to-end sidelink DRB as the egress PC5 relay RLC channel;~~ ~~4> associate this end-to-end sidelink DRB with the PC5 RLC channel;~~~~4> reconfigure the SRAP entity with the mapping between the end-to-end sidelink DRB and the egress PC5 relay RLC channel for the sidelink DRB.~~ |  |
| OPPO | 5.8.9.3a | 2> discard the rest of the end-to-end NR sidelink communication related radio resources and configuration for this end-to-end PC5 connection, including local ID pair in SRAP configuration; | It is not clear what “rest of” and “radio resources” mean, prefer the original wording |  |
| OPPO | 5.8.9.3b | 2> discard rest of the the end-to-end NR sidelink communication related radio resources and configuration for this end-to-end PC5 connection, including end-to-end SRB/DRB related configuration, QoS related configuration, SRAP configuration; | It is not clear what “rest of” and “radio resources” mean, prefer the original wording |  |
| OPPO | 5.8.9.5 | 3> if MCG transmission is not suspended;4> initiate the indirect path failure information procedure as specified in 5. 7. 3c to report indirect path failure; | 3> if neither MCG transmission nor indirect path transmission is suspended;4> initiate the indirect path failure information procedure as specified in 5. 7. 3c to report indirect path failure; |  |
| OPPO | 5.8.9.5a | 2> discard all the left radio resources and the NR sidelink communication related configuration for this end-to-end PC5-RRC connection, including local ID pair in SRAP configuration; | It is not clear what “all the left radio resources” mean, prefer the original wording |  |
| OPPO | 5.8.9.7.1 | 5.8.9.7.1 PC5 Relay RLC channel releaseThe UE shall:1> if the PC5 Relay RLC channel release was triggered after the reception of the *RRCReconfigurationSidelink* message; or1> after receiving the *RRCReconfigurationCompleteSidelink* message, if the PC5 Relay RLC channel release was triggered due to the configuration received within the *sl-ConfigDedicatedNR*:2> for each *SL-RLC-ChannelID* in *sl-RLC-ChannelToReleaseList* received in *sl-ConfigDedicatedNR* within *RRCReconfiguration,* or for each *SL-RLC-ChannelID* included in the received *sl-RLC-ChannelToReleaseListPC5* that is part of the current UE sidelink configuration:3> release the RLC entity and the corresponding logical channel associated with the *SL-RLC-ChannelID*;1> if the PC5 Relay RLC channel release was triggered by end-to-end DRB release as specified in 5.8.9.1a.1.2; or 1> if the PC5 Relay RLC channel release was triggered by end-to-end DRB modification as specified in 5.8.9.1a.2.2:2> if the PC5 Relay RLC channel release was triggered due to per-hop PC5 link failure; or2> if the PC5 Relay RLC channel release was triggered after the reception of the *RRCReconfigurationSidelink* message; or2> after receiving the *RRCReconfigurationCompleteSidelink* message, if the PC5 Relay RLC channel release was triggered due to the configuration received within the *sl-ConfigDedicatedNR*;3> release the RLC entity and the corresponding logical channel associated with the end-to-end DRB;1> if the PC5 Relay RLC channel release was triggered for a specific destination by upper layers as specified in 5.8.9.5, or due to sidelink RLF as specified in 5.8.9.3:2> release the RLC entity and the corresponding logical channel associated with the *SL-RLC-ChannelID* of the specific destination; | The new added 3 bullets can be covered by existing condition so no need for this change:2> if the PC5 Relay RLC channel release was triggered due to per-hop PC5 link failure; or=> can be covered by the existing third 1> condition 2> if the PC5 Relay RLC channel release was triggered after the reception of the *RRCReconfigurationSidelink* message; or => can be covered by the existing first 1> condition2> after receiving the *RRCReconfigurationCompleteSidelink* message, if the PC5 Relay RLC channel release was triggered due to the configuration received within the *sl-ConfigDedicatedNR*; => can be covered by the second 1> condition |  |

# 2 Comments on RIL list

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