**3GPP TSG-RAN WG2 Meeting #116-e R2-211xxxx**

**E-Meeting, November 1-12, 2021**

**Title:** LS on non-relay discovery

**Response to:**

**Release:** Rel-17

**Work Item:** NR\_SL\_Relay-Core

**Source:** RAN2

**To:** SA2

**Cc:**

**Contact Person:**

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**Attachments:** none

1. **Overall Description:**

In RAN2 #116-e meeting, RAN2 has considered non-relay discovery specific issues, as well as whether the previous RAN2 agreements particularly made for relay discovery are applicable for non-relay discovery or not.

The following agreements are made for non-relay discovery.

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| 1. **RAN2 confirm that the following relay-discovery related agreements are also applicable to non-relay discovery.**   One new SL-SRB4 is used for all discovery messages. Its parameters will be fixed and defined as SCCH configuration in 38.331. (FFS on the LCH priority in Proposal 8b)  No ciphering and integrity protection in PDCP layer is needed for the discovery messages.  The same PDCP data PDU format as SL-SRB0 is used for sidelink discovery message (SL-SRB4), and the SDU type field is not used for SL-SRB4.  RAN2 rely on SA2 on the L2 ID design for discovery message.  De-prioritize additional condition for discovery transmission/reception in Rel-17.  **2. RAN2 confirm that the following relay-discovery related agreements are not applicable to non-relay discovery.**  As in LTE, the RRC\_IDLE/RRC\_INACTIVE relay UE is able to perform discovery message transmission, in case:  Uu RSRP is above a configured minimum threshold by a hysteresis and below a configured maximum threshold by a hysteresis, or  only minimum threshold is provided and Uu RSRP is above the minimum threshold by a hysteresis, or  only maximum threshold is provided and Uu RSRP is below the maximum threshold by a hysteresis  As in LTE, the RRC\_IDLE/RRC\_INACTIVE remote UE is able to perform discovery message transmission, if and only if Uu RSRP of serving cell is below a configured minimum threshold by a hysteresis.  For determining whether remote UE and/or relay UE in RRC CONNECTED can trigger discovery message transmission, i.e., the remote UE and relay UE in the RRC\_CONNECTED can use the threshold based methods as in IDLE/INACTIVE, to determine whether it is allowed to perform discovery message transmission.  **3. RAN2 confirm that the SL-SRB4 is also applicable to group-based discovery.**  **4. RAN2 confirm not support discovery range for non-relay discovery in Rel-17.** |

In addition, to avoid repetitive discussion in the future for non-relay discovery, RAN2 has agreed on the following way forward:

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| **RAN2 confirm that since R2 #116, unless an agreement is specifically mentioned for “relay discovery” or “non-relay discovery”, it is applicable to both relay and non-relay discovery.** |

**2. Actions:**

**To SA2**: RAN2 respectfully asks SA2 to take the above agreements into account in their future work.

**3. Dates of Next TSG-RAN WG2 Meetings:**

TSG RAN WG2 Meeting #116-bis-e 17 January – 25 January 2022 Online

TSG RAN WG2 Meeting #117-e 21 February - 3 March 2022 Online