**3GPP TSG-RAN WG2 #119-e *R2-220xxxx***

**E-meeting, August 2022**

Agenda Item: 6.7.1

Source: OPPO

Title: Summary of  [AT119-e][417][Relay] Communication and discovery terminology (OPPO)

Document for: Discussion, Decision

# Introduction

This is for the following email discussion

* [AT119-e][417][Relay] Communication and discovery terminology (OPPO)

      Scope: Clarify the definitions of “NR sidelink communication” and “NR sidelink discovery” across 38.300, 38.321, and 38.331.  Discussion in R2-2207021 can be used as a starting point.

      Intended outcome: Report to CB session

      Deadline: Tuesday 2022-08-23 1200 UTC

# Discussion

As raised in 7021:

Proposal 1 RAN2 discusses to clarify the definition of “NR SL communication” and “NR SL discovery” across specifications.

Email-Rapp observed CR-rapp:s have already tried to align the terminology in the Rapp-CR

For 331, 8484 proposed the following way-out

**NR sidelink communication**: AS functionality enabling at least V2X Communication as defined in TS 23.287 [55], and 5G ProSe Direct Communication and ProSe UE-to-Network Relay communication for Proximity based Services as defined in TS 23.304 [65] between two or more nearby UEs, using NR technology but not traversing any network node.

**NR sidelink discovery**: AS functionality enabling 5G ProSe Direct Discovery and ProSe UE-to-Network Relay discovery for Proximity based Services as defined in TS 23.304 [65] between two or more nearby UEs, using NR technology but not traversing any network node.

For 321, 7449 proposed the following way-out

**NR sidelink communication**: AS functionality enabling at least V2X Communication as defined in TS 23.287 [19] and ProSe communication (including ProSe Relay communication) as defined in TS 23.304 [26], between two or more nearby UEs, using NR technology but not traversing any network node.

**NR sidelink discovery**: AS functionality enabling at least ProSe discovery and ProSe UE-to-Network relay discovery as defined in TS 23.304 [26], between two or more nearby UEs, using NR technology but not traversing any network node.

**NR sidelink transmission**: All NR Sidelink-based transmissions (including transmission for both NR sidelink discovery and NR sidelink communication).For 300, V17.1.0 adopted the following definition

**NR sidelink communication**: AS functionality enabling at least V2X communication as defined in TS 23.287 [40] and the 5G Proximity based Services (ProSe) as defined in TS 23.304 [48], between two or more nearby UEs, using NR technology but not traversing any network node.

So firstly, there seems some convergence on defining “NR sidelink Communication” and “NR sidelink discovery” separately, i.e., avoid overlapping between the two terminology, and considering that, good to align the definition wording, e.g.,

**NR sidelink communication**: AS functionality enabling at least V2X Communication as defined in TS 23.287 [19] and ProSe communication (including ProSe UE-to-Network Relay and Non-Relay communication) as defined in TS 23.304 [26], between two or more nearby UEs, using NR technology but not traversing any network node.

**NR sidelink discovery**: AS functionality enabling 5G ProSe non-Relay Discovery and ProSe UE-to-Network Relay discovery for Proximity based Services as defined in TS 23.304 [65] between two or more nearby UEs, using NR technology but not traversing any network node.

Q1: Do you agree the terminology definition proposed above to be adopted by 331/321/300?

|  |  |  |
| --- | --- | --- |
| Company | Agree/Disagree | Comment |
| OPPO | Agree | No strong view yet, just some minor points:1. our SA2 colleague told me that “5G ProSe Direct Communication/discovery” (sometimes) includes relay case as well, so maybe safer to avoid it, but use relay/non-relay which is more comprehensive.2. when it comes to relay, I use UE-to-Network as the prefix, in order to be more future proof. |
| Xiaomi | Agree | Seems all possible services are covered. Maybe ‘at least’ in the definition can be removed?For 321, the ‘UE-to-Network’ is missing in NR sidelink communication. |
| Apple | Agree | We are fine to align 321 definition to 331/300 spec, if it is agreed here to use the above definitions, we will update MAC CR correspondingly. |
|  |  |  |

Secondly, since in most places in 321, there is no need to differentiate between communication and discovery, thus MAC CR-rapp suggest another term “SL transmission” to cover both.

**NR sidelink transmission**: All NR Sidelink-based transmissions (including transmission for both NR sidelink discovery and NR sidelink communication).Q2: Do you agree the terminology definition proposed above to be adopted by 321?

|  |  |  |
| --- | --- | --- |
| Company | Agree/Disagree | Comment |
| OPPO | Agree |  |
| Xiaomi | Agree |  |
| Apple  | Agree | This would also simplify the description of Uu/SL prioritization in TS 38.321 with the following word substitution:*“Transmission oof NR sidelink communication” 🡺 “NR sidelink transmission”* |
|  |  |  |

1. xxx.

# Conclusion

We have the following proposals

[Proposal 1 xxx.](#_Toc111623112)

# Reference

R2-2207021 Terminology alignment for Communication and Disocvery OPPO discussion Rel-17 NR\_SL\_relay-Core

R2-2207449 Miscellaneous corrections for NR Sidelink Relay (rapporteur CR) Apple CR Rel-17 38.321 17.1.0 1318 - F NR\_SL\_relay-Core, NR\_SL\_enh-Core

R2-2208484 RRC corrections for sidelink relay Huawei, HiSilicon CR Rel-17 38.331 17.1.0 3427 - F NR\_SL\_relay-Core