**3GPP TSG-RAN WG2 Meeting #131bis R2-250xxxx**

Prague, Czech Republic, Oct. 13th-17th, 2025

**Agenda item: 8.13.1**

**Source: Samsung**

**Title: Open issues on Rel-19 Relay Capability**

**WID/SID: NR\_SL\_relay\_multihop**

**Document for: Discussion and Decision**

# Introduction

This tdoc aims to collect open issues for UE capability of Rel-19 multihop relay based on the endorsed CRs R2-2506329 and R2-2506330.

## Contact information

|  |  |
| --- | --- |
| **Company** | **Name (Email)** |
| OPPO | Bingxue Leng (lengbingxue@oppo.com) |
| CATT | Hao Xu(xuhao@catt.cn) |
| Xiaomi | Shuai Gao (gaoshuai3@xiaomi.com) |
|  |  |
|  |  |
|  |  |

# Issue and discussion

In RAN2#131, we have the following agreements:

Agreements:

RAN2 confirm that UEs without Uu interface support are not in scope of this WI.

In Rel-19, the new band combination capability for multi-hop relay discovery is not needed.

In Rel-19, the new path switch capability for multi-hop relay is not needed.

In Rel-19, the L3 relay capability for multi-hop relay is not needed.

Keep relayUE-MH-Operation-L2 for both last relay UE and intermediate relay UE, while at least for intermediate relay UE, the remoteUE-MH-Operation-L2 is also indicated. Whether remote operation is a prerequisite for relay operation can be discussed in maintenance.

The only remaining issue is the highlighted part above. The current CRs implement that the remote operation is not prerequisite for relay operation. From Rapporteur’s view, this implementation provides enough flexibility for the practical UE implementation since the capability for remote UE and relay UE can be separately indicated.

*Question 1: Is the remote operation a prerequisite for relay operation?*

|  |  |  |
| --- | --- | --- |
| Company | Yes/No | Comments |
| OPPO | No | Remote and relay capability should be independent |
| CATT | No | We share the same view as Rapp that the remote operation is not prerequisite for relay operation. |
| Xiaomi | No | The last relay UE can be a FWA device which doesn’t support remote operation while only support relay operation. This case is valid when a user use XR device in his house, and he can choose fixed FWA as the last relay UE to connect to gNB for better coverage and performance. Thus, remote operation is not a prerequisite for the last relay UE. |
|  |  |  |
|  |  |  |

Except the above issue, if there is any remaining issues, please provide it in below table.

*Question 2: Please provide any remaining issues below.*

|  |  |  |
| --- | --- | --- |
| Company | Option 1 or 2 | Comments |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# 2 Conclusion

Based on the discussion above, the following proposals are produced for discussion:

TBD