**3GPP TSG-RAN WG3 Meeting #120 R3-233358**

**Incheon, Republic of Korea, 22 – 26 May 2023**

Agenda Item: 14.3

Source: Nokia (moderator)

Title: Summary of Offline Discussion on selected aspect of the CHO with MR-DC
(CB: # MoblityEnh2\_CHO)

Document for: Approval

# Introduction

**CB: # MoblityEnh2\_CHO**

**- Avoid unnecessary signaling exchange, discuss on the down-selection of potential solutions.**

**- Avoid multiple data forwarding paths**

**- Capture the agreements**

(moderator - Nok)

# For the Chairman’s Notes

**Regarding avoiding duplication of the data forwarding:**

RAN3 confirms the problem that is to be solved is avoiding that the single T-SN receives the same data from multiple T-MNs prepared for CHO (assuming there are multiple T-MNs prepared with the same T-SN).

RAN3 agrees to enable the T-SN to let the T-MN know if it has direct path available to S-MN (or to both, T-SN and T-MN).

It is FFS if any enhancements for the case with a single T-MN are needed.

**Regarding avoiding unnecessary CHO cancellation:**

RAN3 agrees to enable the T-MN to inform the S-MN if the CHO is prepared with full or delta configuration.

# Discussion

## Avoiding duplicating data forwarding

**RAN3 confirms the problem that is to be solved is avoiding that the single T-SN receives the same data from multiple T-MNs prepared for CHO (assuming there are multiple T-MNs prepared with the same T-SN).**

RAN3 has discussed and agreed that the target SN knows the direct path availability to the source nodes.

Existing IE in ADD REQ ACK (from Rel.16) enables the T-SN to indicate to the t-MN direct path availability with the S-SN.

The T-MN knows which bearers were SN- or MN-terminated bearers at the source side, so it can decide if the S-SN’s TEIDs can be forwarded for given bearer.

Problem: the T-MN does not know if the T-SN has direct path to the S-MN 🡺 **RAN3 agrees this information needs to be provided!**

The T-MNs do not need to know if the T-SN allocated the same TEIDs.

It is FFS if the scenario with a single T-MN is relevant for the discussion?

*In case there is only one T-MN (reminder: CHO scenario!), because the S-MN doesn’t know if the TEIDs received from that MN are MN’s or SN’s and thus will not know if it can forward them to the S-SN, or has to use own TEIDs. FFS, if any enhancement in the HO REQ ACK is needed.*

## Avoiding CHO cancellation/replace

Currently, the T-MN knows if the T-SN (if there is DC configured at the target side) prepared full or delta config.

RAN3 agrees that when the S-MN knows that all prepared T-MNs use full config, any changes on the source side do not concern the target side.