**3GPP TSG RAN WG2 Meeting #120R2-22xxxxx**

**Toulouse, France, 14 - 18 Nov, 2022**

**Source:** Huawei, HiSilicon

**Title:** Report of [POST120][306][NES] Merged TP (Huawei)

**Agenda Item:** 8.3.1

**WID/SID:** FS\_Netw\_Energy\_NR– Release 18

**Document for:** Discussion and decision

# 1 Introduction

This document is the report of the following discussion:

Post Meeting

* [AT120][306][NES] Merged TP (Huawei)

- Scope; agree to RAN2 TP capturing agreements from RAN2

- Agree to LS to RAN1

- Deadline - Nov 28

The aim of this discussion is to agree on a merged TP for NES capturing RAN2#120 agreements and a LS to RAN1.

Based on RAN2 agreements made online and rapporteur proposals, we provide a draft TR and LS in the following folder: www.3gpp.org / ftp / Email\_Discussions / RAN2 / [RAN2#120] / [POST120][306][NES] Merged TP (Huawei)

Please provide your comments to the TP and LS before Monday, 28th of November 23:59 UTC. Thanks!

# 2 Draft TR

**Please do not insert / make comments in the TR document, which will be hard for Rapporteur to track and respond your comments.**

**Companies are invited to share their detailed comments on the draft TR in the table below.**

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| **Company** | **Detailed comments** | **Rapporteur response** |
| Apple | 1. Section 6.1.2.x, we suggest to capture below agreement made in RAN2#120 at the end of 1st paragraph:4 It is up to RAN1/RAN4 whether it is possible for the UE to synchronize with the non-anchor cell using anchor cell SSB and the conditions to do so2. Section 6.X.2: 2-a: We prefer to align terminology of "NES state" and "NES mode", to avoid confusion. It should be the same thing. 2-b: For 2nd paragraph, we prefer to align wording of below agreement:Agreements1. Capture the solution on enhancing the CHO framework (for faster offloading/onloading during cell deactivation/activation) enabling a evaluation of CHO conditions depending on the NES state of the source/target cell. How to indicate to UE the triggering of the CHO evaluation is up to normative phase. Whenever mobility from source cell is triggered, one could also consider how UE would not select NES cell if any other cell is available when selecting the new cell. Corresponding TP for this is provided in the Annex

 Thus, we suggest below change:"Whenever mobility from source cell is triggered, the NES mode of the target cell could also be considered, e.g., to avoid UEs selecting ~~cells operating in NES mode~~ NES cells if any other cell is available."3. Section 6.X.2, "BWP adaptation with group signalling" is stated not to address in normative phase. But we think RAN2 agreement is that RAN2 don't consider it at this point (i.e. SI phase). Actually, it is still being evaluated in RAN1. It is possible that RAN1 conclude it is feasible. So, we suggest to remove this part.  | 1. This agreement was for 6.1.3 and is captured in the Ericsson TP as “How and whether the timing, synchronization and QCL relationship of the non-anchor NES cell without SSB and SIB can be determined via another cell is decided within WI.”. We have added the same sentence that for 6.1.3.x: “Feasibility of this solution is in RAN1 scope.”.2.a – OK, aligned to NES mode.2.b – OK, the change is addressed. 3. We think this is an important agreement but have changed the wording to “(…) are not considered by RAN2.” to be true with the agreements. |
| Ericsson | -On the agreement below,*It is up to RAN1/RAN4 whether it is possible for the UE to synchronize with the non-anchor cell using anchor cell SSB and the conditions to do so* we think the following sentence from the TP already captures it on a sufficient level*How and whether the timing, synchronization and QCL relationship of the non-anchor NES cell without SSB and SIB can be determined via another cell is decided within WI.*-Furthermore, we agree with Apple’s comment regarding the group HO and the BWP adaptation, i.e., we did not agree to not study the BWP adaptation and the group HO in the WI phase but captured that the BWP adaptation and the group HO were not addressed in the SI phase. As Apple clarified, RAN1 is considering BWP adaptation and hence we should not already exclude it. Therefore, we think we could either just remove this partor revert the text to the version v03Group HO (optimizing the Rel-15 HO procedure) was not considered in this study.BWP adaptation with group signalling was not considered in this study.-Regarding the feasibility, shouldn’t we have the same sentence “Feasibility of this solution is in RAN1 scope.” from 6.1.3.x in 6.1.2.x as well? -Finally, we have a small editorial suggestion to use consistently either “WI phase” or “normative phase” through the document, instead of using them interchangeably.  | For group HO and BWP adaptation we think this is an important agreement but have changed the wording to “(…) are not considered by RAN2.” to be true with the agreements.“Feasibility of this solution is in RAN1 scope.” from 6.1.3.x is added in 6.1.2.x as well.Changed “normative” to “WI” to align. |
| Intel | We also noticed that the feasibility statement is not included for 6.X.2. However, we do not agree that the same sentence “Feasibility of this solution is in RAN 1 scope” since this has no bearing with RAN1. It should just be as in the RAN2 agreement “From RAN2 perspective, CHO enhancements are feasible” | For group HO and BWP adaptation we think this is an important agreement but have changed the wording to “(…) are not considered by RAN2.” to be true with the agreements.Our feasibility agreement is only for CHO enhancements and is reflected in the TP. The RAN1 feasibility was only for the SSB/SIB-less solution(s). |
| CATT | 6.x.1For consistency, we would suggest to align “legacy devices” and “legacy UEs”, “ new NES UEs” and “NES capable UEs” as follows:From RAN2 perspective ~~legacy devices~~ legacy UEs and ~~new NES~~ NES-capable UEs can be handled via cell selection/reselection techniques. | OK – included in v03 together with rapporteur corrections. |
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# 3 Draft LS

**Companies are invited to share their detailed comments on the draft LS in the table below.**

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| **Company** | **Detailed comments** | **Rapporteur response** |
| Apple |  |  |
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