3GPP TSG-RAN WG3 #117-e R3-225018

Online, 15. – 24.08 2022

Agenda Item: 14.3

Source: Nokia (moderator)

Title: Summary of Offline Discussion on CHO with NR-DC   
(CB #MobilityEnh2\_CHO)

Document for: Approval

# Introduction

**CB: # MobilityEnh2\_CHO**

**- Focus on scenarios and potential issue, e.g. if forwarding the same data over multiple paths to the same target SN.**

**- If CHO is executed first, whether the associated CPAC config should be maintained or released?**

**- Whether to support early data forwarding, CHO in NR-DC, CHO with C-MN initiated CPA/CPC, and identify RAN3 impacts?**

**- Capture agreements and open issues**

# For the Chairman’s Notes

Propose the following:

R3-20xxxa, R3-20xxxc merged

R3-20xxxc rev [in xxxg] – agreed

R3-20xxxd rev [in xxxh] – agreed

R3-20xxxe rev [in xxxi] – agreed

R3-20xxxf rev [in xxxj] – endorsed

Propose to capture the following:

**Agreement text…**

**Agreement text…**

**WA: carefully crafted text…**

Issue 1: no consensus

**Issue 2: issue is acknowledged; need to further check the impact on xxx. May be possible to address with a pure st2 change. To be continued…**

# Discussion (1st round)

## CHO with SCG at the target (cont. of Rel.17 work)

There are three separate threads related to the continuation of the work on CHO with a classic DC operation at the target side, as started in Rel.17:

1. In [4251], it is proposed to continue the work and enhance the data forwarding from the source to the target SN.
2. In [4519], it is proposed to describe the Rel.17 signalling in more detailed form in stage-2.
3. In [4510], it is proposed to complete the Rel.17 signalling so that possible SCG reconfiguration before CHO execution is addressed (based on a decision in RAN2).

**Question 1: Please, which of the above points should further be addressed in Rel.18.**

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| --- | --- | --- |
| Company | Points (a, b, c) | Please, explain why some topics are preferred to be excluded from the Rel.18 WI. |
| Nokia | (a) | We consider (b) and (c) as corrections to the mechanism agreed in Rel.17, so we are fine to discuss these as corrections (point (c) is already addressed in CB # 10). However, data forwarding has not been addressed yet, so it should be addressed as a new feature in Rel.18. |
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## CHO with multiple SCGs at the target

In numerous papers it is acknowledged to work on CHO with multiple SCGs prepared at the target side ([4252, 4269, 4322, 4343, 4394, 4794, 4834, 4436, 4509, 4793]). However, most of them list issues that are either purely RAN2’s domain or depend on RAN2’s progress.

**Question 2: Please, comment if RAN3 can start considering particular signalling solutions without waiting for RAN2’s progress.**

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| Company | Comment |
| Nokia | At this moment, we don’t see much space for discussing principles of signalling.  We could agree some general principles like that we’ll try to reuse existing procedures defined for CHO and CPAC, but we can’t really move much further. |
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In [4394], [4794] and [4834], it is proposed to start considering early data forwarding for the CHO with multiple SCGs prepared at the target side.

**Question 3: Please, comment if RAN3 can start working on the early data forwarding for CHO with multiple SCGs prepared at the target side.**

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| --- | --- |
| Company | Comment |
| Nokia | Yes, we agree, we can start discussing principles for early data forwarding. |
|  |  |

# Conclusion, Recommendations [if needed]

If needed

# References

[4251] R3-224251, Continuation of the work on CHO with DC and optimisation of the data forwarding (Nokia, Nokia Shanghai Bell)

[4252] R3-224252, CHO with multiple candidate SCGs (Nokia, Nokia Shanghai Bell)

[4269] R3-224269, Discussion on CHO with CPA (ZTE)

[4270] R3-224270, New procedure for support of CHO with CPA feature to TS37.340 (ZTE)

[4322] R3-224322, Consideration on CHO related aspects (Huawei)

[4343] R3-224343, Support of CHO with CPAC (vivo)

[4394] R3-224394, Consideration on support of CHO including target MCG and SCGs (China Telecommunication)

[4436] R3-224436, Discussion on CHO in NR-DC (Lenovo)

[4509] R3-224509, CHO including target MCG and candidate SCGs (Qualcomm Incorporated)

[4510] R3-224510, CHO with SCG configuration (Qualcomm Incorporated)

[4519] R3-224519, Outstanding issues for CHO + MR-DC (Ericsson)

[4520] R3-224520, Introduction of signaling flows for CHO+MR-DC (Ericsson)

[4793] R3-224793, Discussion on the scenarios of CHO with multiple candidate SCGs (CATT)

[4794] R3-224794, Discussion on the procedure of CHO with multiple candidate SCGs (CATT)

[4834] R3-224834, (TP to TS37.340 on Mobility Enhancements)Considerations on CHO+CPAC procedure (Samsung)

[4835] R3-224835, (TP to TS38.423 on Mobility Enhancements) Considerations on CHO+CPAC configuration (Samsung)