**3GPP TSG-RAN WG3 #115-eR3-22xxxx**

**Online, 21st Feb – 3rd March 2022**

**Title: [Draft] Reply LS on CPAC**

**Response to: R2-2201712**

**Release:** Rel-17

**Work Item:** LTE\_NR\_DC\_enh2-Core

**Source:** Lenovo, Motorola Mobility [to be RAN3]

**To:** RAN2

**Cc:** -

**Contact Person:**

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**Attachments:**

**1. Overall description:**

RAN3 would like to thank RAN2 for the LS on CPAC in R2-2201712 and inform RAN2 about the following relevant agreements made by RAN3.

**On SN initiated CPC:**

When S-SN triggers SN initiated CPC, one SN change procedure will be used to prepare multiple target SNs.

If MN decides to indicate S-SN the candidates accepted or rejected by T-SN after receiving the SN addition acknowledge message from T-SN, RAN3 agrees to support the coordination between MN and S-SN using the following signalling:

1. After getting response from T-SN about accepted/rejected candidate PSCell(s), MN may inform the S-SN using SN MODIFICATION REQUEST message
2. S-SN may send modifications of the UE configuration to MN using SN MODIFICATION REQUEST ACKNOWLEDGE message
3. After sending CPC related RRC reconfiguration message to UE and receiving the RRC complete message from UE, MN sends a SN CHANGE CONFIRM message to S-SN conveying the RRCReconfigurationComplete message from UE.

With above agreements, RAN3 understands both messages (i.e., SN MODIFICATION REQUEST in 1) and SN MODIFICATION REQUEST ACKNOWLEDGE in 2)) will be skipped if MN decides to skip the indication to S-SN before sending the CPC configuration to the UE. In this case, after sending the CPC configuration to the UE and receiving the RRC complete message from UE, MN will still send a SN CHANGE CONFIRM message to S-SN conveying both the accepted PSCells by T-SN and RRCReconfigurationComplete message from UE.

After CPC execution, MN triggers SN release procedure and sends SN RELEASE REQUEST message to S-SN.

**On CPAC replace:**

RAN3 has also discussed and agreed to support CPAC replace, i.e., the CPAC relevant configuration may be updated/canceled before CPAC execution.

In CPA and MN/SN initiated inter-SN CPC, MN can:

* Update/modify previous CPAC configurations provided in CPAC addition using MN initiated SN modification procedure
* Cancel all prepared PSCells at target SN and release the target SN using MN initiated SN release procedure

In CPA and MN/SN initiated inter-SN CPC, target SN can:

* Update/modify previous CPAC configurations provided in CPAC addition using SN initiated SN modification procedure
* Add prepared PSCells within the limit given by the MN or source SN using SN initiated SN modification procedure
* Cancel some of the prepared PSCells using SN initiated SN modification procedure.
* Cancel all prepared PSCells using SN initiated SN release procedure

In SN initiated inter-SN CPC, source SN can:

* Update/modify previous CPC configurations provided in CPC preparation using SN initiated SN modification procedure (e.g., measurement configuration)
* Update/modify previous CPC configurations provided in CPC preparation using SN change required procedure (e.g., maximum number of PSCells can be prepared by each target SN)
* Cancel all prepared PSCells at target SN and release the target SN using SN change required procedure

**2. Actions:**

**To 3GPP RAN2**

**ACTION:**

RAN3 respectfully asks RAN2 to take the above agreements into account and provide feedback if any.

**3. Date of next TSG RAN WG3 meetings:**

RAN2#116 16th May – 27th May 2022 Online

RAN2#117 22th August – 26th August 2022 Online