**3GPP TSG RAN WG3 #111-e R3-211134**

**Online, January 25th – February 5th 2021**

**Title: [DRAFT] Reply LS on Conditional PSCell Addition/Change agreements**

**Response to: R2-2010850**

**Release: Release 17**

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

**Source: Huawei [to be RAN3]**

**To: RAN2**

Cc:

**Contact person: Yan Wang**

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**Send any reply LS to: 3GPP Liaisons Coordinator,** **mailto:3GPPLiaison@etsi.org**

**Attachments:** **None**

# 1. Overall Description

RAN3 thanks RAN2 for the LS R2-2010850 on Conditional PSCell Addition/Change agreements.

RAN3 discussed how to support CPAC in two meetings, and would like to feedback the following information.

* RAN3 Agreements and working assumptions:
	+ Target SN to make the decision on the prepared PSCells.
	+ WA: Prepare multiple PSCells in one CPAC procedure.
	+ In CPA and MN initiated inter-SN CPC, MN does not send execution condition(s) to the Target SN, Target SN provides the prepared PSCell id(s) and the corresponding RRC container (RRCReconfiguration) to the MN, and then the MN generates and transmits the conditional configuration message to the UE.
	+ WA: In SN initiated inter-SN CPC, prepare multiple PSCells in one target SN by one SN Change procedure is the baseline.
	+ Not support direct communication between S-SN and T-SN.
	+ Support Late Data Forwarding in CPAC.
	+ WA: In case of both MN and SN initiated inter-SN CPC, to support late data forwarding, it is needed to inform the source SN about the successful CPC execution and UE accesses to the target SN, details FFS. RAN3 waits for RAN2 progress before discussing further details.
	+ Support early data forwarding in CPAC.
	+ WA: in case of MN initiated inter-SN CPC, to support early data forwarding, the MN needs to inform source SN about CPC triggered (i.e. the successful reconfiguration of CPC at UE), details FFS.
* About the inter-node RRC container design
	+ In case multiple PSCells are prepared in one CPAC procedure, RAN3 would like to ask RAN2 to feedback on the inter-node RRC container design, one RRC container for one PSCell, or one RRC container for multiple PSCells, note that in RAN3 there is a preference for the first one.
* About the SN initiated inter-SN CPC, RAN3 would like to ask RAN2 to feedback on the following two alternatives:
	+ Alternative 1: MN performs the association between the execution condition received from the source SN and the RRC configuration of the candidate PSCell received from the candidate SN.
	+ Alternative 2: MN forwards the execution condition received from the source SN to the candidate SN. The candidate SN sends the execution condition and the RRC configuration of the candidate PSCell to the MN.
* About the question asked by RAN2:

*Furthermore, Rel-17 CPAC is expected to support the preparation and configuration of multiple PSCell candidate cells. RAN3 is therefore asked to check whether the legacy XnAP/ X2AP signalling is sufficient or whether it shall be extended in Rel-17.*

* + Based on the RAN3 progress above, the legacy XnAP/X2AP signalling has to be extended.

# 2. Actions

**To RAN2**

**ACTION:**  RAN3 respectfully asks RAN2 to take the above information into account, and provide feedback on the inter-node RRC container design, and the two alternatives for the SN initiated inter-SN CPC handling.

# 3. Dates of Next TSG-RAN3 Meetings

3GPP RAN3#112 -e 17 May – 28 May 2021 Electronic Meeting

3GPP RAN3#113 23 August – 27 August 2021 Toulouse, FR