**3GPP TSG RAN WG3#114-e R3-21xxxx**

**1st November-11th November- 2021**

**Online**

**Title:** (TP for 36.420 CPAC BL CR) CPC cancel

**Source:** China Telecom

**Agenda item:** 14.3

**Document for:** Discussion and approval

# **Introduction**

This TP is based on the following CB.

**CB: # MRDC3\_CPAC**

**- Check RAN2 progress**

**- Support preparation of single T-SN in SN initiated inter-SN CPC first to progress, and then discuss how to prepare multiple T-SNs as second priority? Check RAN2 progress and focus on open issues from last meeting**

**- CPAC replace and cancel procedure?**

**- Capture agreements as stage2/stage3 CRs and check details, split work, if needed**

**- List open issues for next meeting in the summary**

(Lenovo - moderator)

Summary of offline disc [R3-215864](file:///C%3A%5CUsers%5Ckordybac%5COneDrive%20-%20Nokia%5CS%C5%82u%C5%BCbowe%5C3GPP%5CWG3%20%23114%20211101%5CPrzygotowania%5CNaSpotkaniu%5CCB%20%23%20MRDC3_CPAC%5CPhase%202%5CInbox%5CR3-215864.zip).

# **Text Proposal for TS36.423**

////////////////////////////////////////////////////////////////**Start of the change**/////////////////////////////////////////////////////////////////////

## 5.1 Function list

The list of functions on the X2 interface is the following:

- Intra LTE-Access-System Mobility Support for ECM-CONNECTED UE:

- Context transfer from source eNB to target eNB;

- Control of user plane transport bearers between source eNB and target eNB;

- Handover cancellation;

- UE context release in source eNB;

- Dual Connectivity ;

- Handover Success Indication;

- Conditional Handover cancellation.

- Load Management

- Inter-cell Interference Coordination

- Uplink Interference Load Management;

- Downlink interference avoidance.

- General X2 management and error handling functions:

- Error indication;

- Reset.

- Application level data exchange between eNBs

- Trace functions

- Data exchange for self-optimisation

- EN-DC

5.2 Function description

5.2.1 Intra LTE-Access-System mobility support for ECM-CONNECTED UE

This function allows the eNB to handover the control of a certain UE to another eNB.

5.2.1.1 Context transfer from source eNB to target eNB

This function allows transferring information required to maintain the E-UTRAN services for an UE in ECM-CONNECTED from source to target eNB.

5.2.1.2 Control of user plane transport bearers between source eNB and target eNB

This function allows establishing and releasing transport bearers between source and target eNB to allow for data forwarding. At most one user plane transport bearer per E-RAB allocated to the UE may be established for relaying DL data received from the EPC from the source eNB to the target eNB. At most one user plane transport bearer per E-RAB allocated to the UE may be established for relaying the UL data received from the UE from the source eNB to the target eNB.

5.2.1.3 Handover cancellation

This function allows informing an already prepared target eNB that a prepared handover will not take place. It allows releasing the resources allocated during a preparation.

5.2.1.4 UE context release in source eNB

This function allows the target eNB to trigger the release of the resources allocated to the UE in the source eNB.

5.2.1.5 Dual Connectivity

This function allows MeNB and SeNB to support Dual Connectivity. MeNB and SeNB manage establishment, modification and release of UE context at the SeNB, and controls user plane tunnels over X2.

5.2.1.6 EN-DC

This function allows an MeNB and en-gNB to support Dual Connectivity. MeNB and en-gNB manage establishment, modification and release of UE context at the SeNB, and controls user plane tunnels over X2. This function also enables the delivery of F1-C traffic for IAB between MeNB and en-gNB.

This function also enables the conditional PSCell change cancel from the MeNB to the source en-gNB, to inform the cancellation of a list of prepared PSCells in the target SgNB during a conditional PSCell change.

5.2.1.7 Handover Success Indication

This function allows informing a source eNB that the UE has successfully accessed a target eNB.

5.2.1.8 Conditional Handover Cancellation

This function allows informing a source eNB that resources reserved for candidate target cell(s) during a conditional handover preparation are about to be released by the target eNB.

5.2.2 Load management

This function allows exchanging overload and traffic load information between eNBs, such that the eNBs can control the traffic load appropriately. This information may be spontaneously sent to selected neighbour eNBs, or reported as configured by a neighbour eNB.

5.2.3 Inter-cell interference coordination

This function allows keeping inter-cell interference under control. For this neighbouring eNBs exchange appropriate information allowing that eNBs make radio resource assignments such that interference is mitigated.

///////////////////////////////////////////////////////////////////**End of the change /**///////////////////////////////////////////////////////////////