**3GPP TSG-RAN WG3 #108-e R3-20xxxx**

**E-meeting, 1 – 11 June 2020**

**Agenda Item: 15.3.1.4**

**Source: NEC**

**Title: (TP for NR\_Mob\_enh BL CR for TS 38.423) Conditional HO Cancel procedure and HO Success procedure in 38.423**

**Document for: discussion**

# **1. Introduction**

The baseline CR of 38.423 for CHO has included Handover Success procedure.

An editor note say

“**Interactions with other procedures**

If a CONDITIONAL HANDOVER CANCEL message was received for this UE prior the reception of the HANDOVER SUCCESS message, the source NG-RAN node shall consider that the UE successfully executed the handover.

*Editor's note: The impact on the* NG-RAN node*'s behaviour should be verified if the source* NG-RAN node *receives the HANDOVER SUCCESS message for a UE from the target* NG-RAN node *after receiving the CONDITIONAL HANDOVER CANCEL message for the same UE from the same target* NG-RAN node*.*

”

After the RAN3#108-e e-mail discussion in **CB: # 39\_MobEnh\_CHOcancel**, agree to keep the interactiion desciption, and only to remove the Editor’s note and text.

# **2. TP**

# Annex // TP for TS38.423 BLCR (based on R3-202909)

8.2.A Handover Success

8.2.A.1 General

The Handover Success procedure is used during a conditional handover or a DAPS handover, to enable a target NG-RAN node to inform the source NG-RAN node that the UE has successfully accessed the target NG-RAN node.

The procedure uses UE-associated signalling.

8.2.A.2 Successful Operation

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**Figure 8.2.A.2-1: Handover Success, successful operation**

The target NG-RAN node initiates the procedure by sending the HANDOVER SUCCESS message to the source NG-RAN node.

If late data forwarding was configured for this UE, the source NG-RAN node shall start data forwarding using the tunnel information related to the global target cell ID provided in the HANDOVER SUCCESS message.

When the source NG-RAN node receives the HANDOVER SUCCESS message, it shall consider all other CHO preparations accepted for this UE in the target NG-RAN node as cancelled and may initiate Handover Cancel procedure towards other candidate target NG-RAN nodes for this UE, if any.

**Interactions with other procedures**

If a CONDITIONAL HANDOVER CANCEL message was received for this UE prior the reception of the HANDOVER SUCCESS message, the source NG-RAN node shall consider that the UE successfully executed the handover.

8.2.A.3 Unsuccessful Operation

Not applicable.

8.2.A.4 Abnormal Conditions

If the HANDOVER SUCCESS message refers to a context that does not exist, the source NG-RAN node shall ignore the message.

8.2.B Conditional Handover Cancel

8.2.B.1 General

The Conditional Handover Cancel procedure is used to enable a target NG-RAN node to cancel an already prepared conditional handover.

The procedure uses UE-associated signalling.

8.2.B.2 Successful Operation

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**Figure 8.2.B.2-1: Conditional Handover Cancel, successful operation**

The target NG-RAN node initiates the procedure by sending the CONDITIONAL HANDOVER CANCEL message to the source NG-RAN node. The target NG-RAN node shall indicate the reason for cancelling the conditional handover by means of an appropriate cause value.

At the reception of the CONDITIONAL HANDOVER CANCEL message, the source NG-RAN node shall consider that the target NG-RAN node is about to remove any reference to, and released any resources previously reserved for candidate cells associated to the UE-associated signalling identified by the *Source NG-RAN node UE XnAP ID* IE and the *Target NG-RAN node UE XnAP ID* IE. If the *Candidate Cells To Be Cancelled List* IE is included in CONDITIONAL HANDOVER CANCEL message, the source NG-RAN node shall consider that only the resources reserved for the cells identified by the included NG-RAN CGI are about to be released.

8.2.B.3 Unsuccessful Operation

Not applicable.

8.2.B.4 Abnormal Conditions

If the CONDITIONAL HANDOVER CANCEL message refers to a context that does not exist, the source NG-RAN node shall ignore the message.

If one or more candidate cells in the *Candidate Cells To Be Cancelled List* IE included in the CONDITIONAL HANDOVER CANCEL message were not prepared using the same UE-associated signaling connection, the source NG-RAN node shall ignore those non-associated candidate cells.