3GPP TSG-RAN WG3 #127bis R3-252358

Wuhan, China, 7th – 11th Apr, 2025

Agenda Item: 10.2

Source: CATT

Title: (TP for 38.300) MRO for CHO with Candidate SCG(s)

Document for: other

# Introduction

MRO for CHO with Candidate SCG(s)

Add definition of too late CHO with candidate SCG(s) in 38.300

# TP for TS 38.300

##### 15.5.2.2.2 Connection failure due to intra-system mobility

One of the functions of Mobility Robustness Optimization is to detect connection failures that occur due to Too Early or Too Late Handovers, or Handover to Wrong Cell. These problems are defined as follows:

- Intra-system Too Late Handover: an RLF occurs after the UE has stayed for a long period of time in the cell; the UE attempts to re-establish the radio link connection in a different cell.

- Intra-system Too Early Handover: an RLF occurs shortly after a successful handover from a source cell to a target cell or a handover failure occurs during the handover procedure; the UE attempts to re-establish the radio link connection in the source cell.

- Intra-system Handover to Wrong Cell: an RLF occurs shortly after a successful handover from a source cell to a target cell or a handover failure occurs during the handover procedure; the UE attempts to re-establish the radio link connection in a cell other than the source cell and the target cell.

In the definition above, the "successful handover" refers to the UE state, namely the successful completion of the RA procedure.

In case of LTM cell switch, the "successful handover" in the definitions above refers to a successful completion of the RA procedure in case of RACH-based LTM or the successful reception of RRCReconfigurationComplete in case of RACH-less LTM.

In case of CHO, the Too Late Handover, Too Early Handover and Handover to Wrong Cell in the definition above means Too Late CHO Execution, Too Early CHO Execution and CHO Execution to Wrong Cell.

In case of LTM Cell switch, the Too Late Handover, Too Early Handover and Handover to Wrong Cell in the definition above means Too Late LTM cell switch, Too Early LTM cell switch and LTM cell switch to Wrong Cell.

Start of change

In case of CHO with candidate SCG(s), the Too Late Handover in the definition above means Too Late CHO with candidate SCG(s).

End of change