**3GPP TSG-RAN WG3 Meeting #120R3-233408**

**Incheon, KR, 22 May – 26 May, 2023**

**Title:** (TPs for SON BLCRs for TS 38.300) SPR

**Source:** Huawei

**Agenda item:** 10.2.1

**Document Type:** discussion

# Introduction

This document includes an agreed text proposal as inidicated in annex1Annex – TP to TS38.300 for SPR

Start of the change

15.5.2 Support for Mobility Robustness Optimization

15.5.2.1 General

Mobility Robustness Optimisation aims at detecting and enabling correction of following problems:

- Connection failure due to intra-system or inter-system mobility;

- Inter-system Unnecessary HO (too early inter-system HO from NR to E-UTRAN with no radio link failure);

- Inter-system HO ping-pong;

- PSCell change failure.

- Inter-system voice fallback failure

- Fast MCG recovery failure

MRO provides means to distinguish the above problems from NR coverage related problems and other problems, not related to mobility.

For detection of a sub-optimal successful handovers, MRO additionally enables observability of:

- Successful HO due to intra-NR mobility.

- Successful HO due to inter-RAT mobility

For detection of a sub-optimal successful PScell addition/change, MRO additionally enables observability of:

- Successful PScell addition/change

Start of next change

15.5.2.X Successful PSCell Addition/Change Report

For the analysis of successful PSCell addition/change, the UE supports Successful PSCell Addition/Change Report (SPR) based on the configuration by network, if received, and makes the SPR available to the network as specified in TS 38.331 [12].

The UE stores the SPR until the SPR is fetched by the network or for 48 hours after the SPR is recorded.

The UE only indicates SPR availability and only provides the SPR to the network if the current RPLMN is a PLMN that was present in the UE's EPLMN List or was the RPLMN at the time the SPR was generated. The UE makes the SPR available to gNB(s).

When a gNB fetches the SPR from UE, it forwards the SPR to the MN that was serving the UE at the time the SPR was generated by using the ACCESS AND MOBILITY INDICATION message over Xn or by means of the Uplink RAN configuration transfer procedure and Downlink RAN configuration transfer over NG.

End of the change