3GPP TSG-RAN WG2 #123bis R2-231nnnn

Xiamen, China, October 9th –13th, 2023

Agenda Item: 7.13.1

Source: Ericsson

Title: List of Open Issues of MRO

Document for: Discussion, Decision

# 1 Introduction

In this report we provide a survey on the open issues of the SONMDT MRO features based on the existing and unresolved FFS(es) in the running CR. The list of essential open issues can be considered as baseline for discussion in the next RAN2 meeting.

# 2 Discussion per AI

## 2.1 MRO for inter-system handover for voice fallback

Most of the open issues related to the MRO for inter-system handover for voice fallback are addressed and there is only one FFS in the running CR concerning further details of voice fallback HO failure indication in the RLF report i.e., whether the failure was due to voice call or an emergency call. In RAN2 meeting#123bis we have discussed this solution without any convergence. Although, the feature is not going to be broken without addressing this issue the importance of the emergency calls (usually life/death matter) lends it a careful considerations in particular when failure happens. Hence would like to give it another try for convergence in the meeting RAN2#124.

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| List of Essential open issues for voice fallback failure | |
| 1 | Differentiating of the emergency calls from normal voice call in the RLF report |

## 2.2 SHR and SPR

In the following we discuss the essential concerning the inter-RAT SHR and SPR.

### 2.2.1 Inter-RAT SHR

For the inter-RAT SHR RAN3 has sent an LS to RAN2 requesting to provide a solution enabling the correlation of the LTE RLF report and the inter-RAT SHR, based on the NR or LTE C-RNTIs. In RAN2 we agreed to use the target CRNTI for such correlation of the SHR and the LTE RLF report. However, RAN3 also requested RAN2 to consider the time information (e.g., time elapsed from the HO command to the retrieval of the SHR) which was not discussed and confirmed in RAN2. For the sake of completion in addressing the RAN3 LS, we can quickly address this issue in the next meeting.

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| List of Essential open issues for inter-RAT SHR | |
| 1 | Leftover issue on correlation of the SHR and LTE RLF report as requested by RAN3 LS (R3-234716)   * Logging the time information as requested by RAN3 LS |

### 2.2.1 SPR (Successful PSCell change or addition report)

For the SPR there are handful of open issues (captured as Editor note) that need to be addressed to enable the SPR feature to work properly in Rel-18. In the following, we provide a list of open issues classified as essential issues that are required to be addressed for the sake of completion of the Rel-18 SON MRO part of the running CR.

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| List of Essential open issues for SPR | |
| 1 | Which location information configurations (configured by MN or source SN or target SN) should be used to log the location information in the SPR |
| 2 | Which measurement objects (configured by the PCell or by PSCell) should be used to log the neighbouring cells measurements in the SPR |
| 3 | Logging the PCI and ARFCN of the source PScell and target PSCell if the CGI of the corresponding cell is not available |
| 4 | SPR availability indication to the SN over SRB1 and/or SRB3 |
| 5 | Setting CRNTI (configured by the MCG or by the SCG or both) |
| 6 | Other mechanism than RRCReconfigurationComplete for the SPR availability indication |

## 2.3. Others (MRO in DC)

Concerning SON/MDT features discussed on the AI Others, most of the discussions were focused on the MRO for DC scenario and in particular enhancement on the RLF report in DC scenario as well as SCGFailureInformation enhancements with CPAC related failures. Although most of the essential issues are addressed in this AI, there are still some open issues that require to be addressed in the Rel-18 time frame. Therefore, the following open issues are collected and listed.

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| List of Essential open issues for MRO in DC | |
| 1 | Logging PSCell ID upon successful MCG recovery as requested by RAN3 LS (R3-235897) |
| 2 | Logging PSCell ID upon fast MCG recovery failure due to a deactivated SCG |

# 3 Conclusion

Based on the above discussion, the following proposals are made:

1. RAN2 prioritize the following open issues to conclude the Rel-18 MRO discussion for voice fall back failure
   1. Differentiating of the emergency calls from normal voice call in the RLF report
2. RAN2 prioritize the following open issues to conclude the Rel-18 MRO discussion for inter-RAT SHR
   1. Leftover issue on correlation of the SHR and LTE RLF report as requested by RAN3 LS (R3-234716). Logging the time information as requested by RAN3 LS
3. RAN2 prioritize the following open issues to conclude the Rel-18 MRO discussion for SPR
   1. Which location information configurations (configured by MN or source SN or target SN) should be used to log the location information in the SPR
   2. Which measurement objects (configured by the PCell or by PSCell) should be used to log the neighbouring cells measurements in the SPR
   3. Logging the PCI and ARFCN of the source PScell and target PSCell if the CGI of the corresponding cell is not available
   4. SPR availability indication to the SN over SRB1 and/or SRB3
   5. Setting CRNTI (configured by the MCG or by the SCG or both)
   6. Other mechanism than RRCReconfigurationComplete for the SPR availability indication
4. RAN2 prioritize the following open issues to conclude the Rel-18 MRO discussion for MRO in DC scenarios.
   1. Logging PSCell ID upon successful MCG recovery as requested by RAN3 LS (R3-235897)
   2. Logging PSCell ID upon fast MCG recovery failure due to a deactivated SCG