**3GPP TSG-RAN WG3 Meeting #128 R3-253753**

**Malta, MT, May 19th - May 23th, 2025**

**Agenda item: 10.3.2**

**Source: CMCC**

**Title: Summary of SONMDT for Slice**

Document for: Approval

# Introduction

This is the summary of SONMDT for Slice. Followed by meeting minutes from the chair in last meeting, this summary only focuses on Slice-based Cell Reselection and the open issues in R19 SONMDT Slicing.

|  |
| --- |
| **To filtering Slice related SHR, the MRO for Successful Case where target cell selected based on Slice instead of radio?****Option 1：To add on-going slice ID in SHR.** **Option 2: To add source C-RNTI in SHR.****Option 3: To add Mobility information in SHR to solve slice issue.****Option 4: To add source C-RNTI and Mobility information over XnAP.**1: Reporting of Rejected Slice to RAN2: Conditional Reporting of Immediate MDT (filter MDT data based on Slice usage level)**Only focus on Slice-based Cell Reselection and the above open issue in R19 SONMDT Slicing.** |

# For the Chairman’s Notes

Slice Related SHR

**Stop the discussion on enhancement for the slice related SHR in Rel-19.**

Reporting Rejected Slice

**There is no consensus on whether to do enhancement on reporting rejected slice. Final decision will be made online.**

Conditional Reporting of Immediate MDT

**No time to discuss. Final decision will be made online.**

# Discussion

## Slice Related SHR

In last RAN3 meeting, RAN3 discussed the problem of identifying slices that the UE was configured with before executing HO. If the HO results in SHR generation, the source may not be able to retrieve this information. There are four options provided in last meeting, and companies provide their preferences in the contribution.

The [1] propose to combine option 2 and option 3 to cover all the scenarios. The only concern is about the limited time to resolve the problem in Rel-19 since RAN2 does not have enough time to discuss.

The [2] supports option 4, this solution is based on the existing method used in HO report, where C-RNTI and optionally mobility info can be used to retrieve context or identify a group with certain properties attached to this group.

The [3] supports option 1 where UE can report ongoing slice ID in SHR, and it thinks this issue has been discussed in previous release with the conclusion that RAN3 do not support “UE context related method” in SHR.

The [4] supports option 3 where the Mobility information can be included in the SHR.

**Q1: Do companies agree to enhance the slice related SHR to solve the identification issue in Rel-19, if agreed, which option to be adopted?**

**Moderator summary:**

**Stop the discussion on enhancement for the slice related SHR in Rel-19.**

## Reporting Rejected Slice

In last meeting, companies proposed to reporting information about the rejected slices requested by the user but rejected by the NAS or application layer. This could be valuable for the network to understand slice demand and for network planning.

The [5] provides a UE-based solution to report the failure of slice initiation inside the UE.

The [6] provides a network-based solution to support requesting and reporting the slices rejected by NAS.

**Q2: Do companies agree to report rejected slice in Rel-19, if agreed, which solution to be adopted?**

**Moderator summary:**

**There is no consensus on whether to do enhancement on reporting rejected slice. Final decision will be made by the chair.**

## Conditional Reporting of Immediate MDT

In the recent meeting, the [9] proposes to perform enhancement on management-based and signalling-based immediate MDT, where the MDT measurement collection/reporting is conditional on slice-level utilization and/or on the selected UE having one or more active PDU sessions on the given slice(s).

**Q3: Do companies agree to enhance conditional reporting of immediate MDT in Rel-19?**

**Moderator summary:**

# Conclusion, Recommendations [if needed]

If needed

# References

|  |  |  |
| --- | --- | --- |
| 1 | [R3-253187](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_128%5CDocs%5CR3-253187.zip) | (MDT TP to BL CR to TS 38.300) Retrieval of slice information after SHR and other slice-related enhancements (Nokia) |
| 2 | [R3-253359](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_128%5CDocs%5CR3-253359.zip) | Network Slicing (Huawei) |
| 3 | [R3-253442](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_128%5CDocs%5CR3-253442.zip) | Network slicing for SONMDT (CATT) |
| 4 | [R3-253634](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_128%5CDocs%5CR3-253634.zip) | Discussion on SONMDT enhancements for network slicing (China Unicom) |
| 5 | [R3-253691](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_128%5CDocs%5CR3-253691.zip) | Discussion on SON/MDT for network slicing (CMCC) |
| 6 | [R3-253191](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_128%5CDocs%5CR3-253191.zip) | Data collection for slice coverage observability enhancement (Ericsson, BT, InterDigital, Deutsche Telekom, Jio Platforms (JPL), FiberCop) |
| 7 | [R3-253191](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_128%5CDocs%5CR3-253191.zip) | Data collection for slice coverage observability enhancement (Ericsson, BT, InterDigital, Deutsche Telekom, Jio Platforms (JPL), FiberCop) |
| 8 | [R3-253192](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_128%5CDocs%5CR3-253192.zip) | (TP for BL CR to 38.413 for SON) – Data collection for slice coverage observability enhancement (Ericsson, BT, InterDigital, Deutsche Telekom, Jio Platforms (JPL), FiberCop) |
| 9 | [R3-253193](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_128%5CDocs%5CR3-253193.zip) | MDT Enhancements for slice-focused measurement collection (Ericsson, Orange, InterDigital, Deutsche Telekom, Jio Platforms (JPL), FiberCop) |
| 10 | [R3-253194](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_128%5CDocs%5CR3-253194.zip) | (TP for BL CR to 38.413 for MDT) Deferred MDT for slice-focused measurements collection (Ericsson, InterDigital, Deutsche Telekom, Jio Platforms (JPL), FiberCop) |
| 11 | [R3-253195](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_128%5CDocs%5CR3-253195.zip) | (TP for BL CR to 38.423 for MDT) Deferred MDT for slice-focused measurements collection (Ericsson, InterDigital, Deutsche Telekom, Jio Platforms (JPL), FiberCop) |
| 12 | [R3-253006](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_128%5CDocs%5CR3-253006.zip) | Reply LS on SON for Network Slicing and Enhanced Area Scope (CT4(Ericssson)) |