**3GPP TSG-RAN WG3 #122 R3-237788**

**13th - 17th Nov 2023, Chicago, USA**

Agenda Item: 10.2.4

Source: ZTE (moderator)

Title: Summary of Offline Discussion on CB: # SONMDT\_NPN

Document for: Approval

# Introduction

**CB: # SONMDT3\_NPN**

**- Work on** [R3-237787](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_122%5CInbox%5CR3-237787.zip)

**- Discuss the open issue**

(moderator - ZTE)

Summary of offline disc [R3-237788](file:///D%3A%5C%E4%BC%9A%E8%AE%AE%E7%A1%AC%E7%9B%98%5CTSGR3_122%5CInbox%5CR3-237788.zip)

# For the Chairman’s Notes

# Discussion

Issue 1: Whether the PNI NPN Area Scope for MDT IE shall be ignored in absence for the Area Scope for MDT IE over Xn.

Please check draft R3-237787 in the folder.

Issue 2: Remove the SNPN TAI Based MDT and SNPN Cell Based MDT over NG/Xn.

Since NR CGI and TAI is unique in a PLMN, [R3-237515] thinks the operator can already use the legacy structure consisting of a list of NR CGIs and a list of TAIs to specify the SNPN based MDT area scope, the UE does not need the additional information of the NID. Hence, [R3-237515] proposes the following.

**Proposal: Remove the SNPN TAI Based MDT and SNPN Cell Based MDT from the Choice Area Scope of MDT in TS 38.413 and TS 38.423 agreed in this release.**

**Moderator:**

Provide corresponding RAN2 progress in RAN2#123bis as following for reference, it is noted RAN2 already agreed the 3 cases including cell based/TAI based SNPN area scope.

RAN2#123bis Agreements:

1 A critical extension (i.e. AreaConfiguration-r18) can be considered in R18 for the PNI-NPN area scope in logged MDT configuration for mistake correction and to cover all configuration possibilities.

2 Include the 3 cases of cell based/TAI based/SNPN list based SNPN related area scopes in the logged MDT configuration and a critical extension (i.e. AreaConfiguration-r18) can be considered in R18. FFS how to optimize the signalling structure to avoid much overhead.

During on-line discussion, the proponent company clarified one of the motivations is to simplify the specification design. And one company proposed additional semantic description to prevent duplicated configuration.

**Q1: Please companies provide view on the proposal?**

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| **Companies** | **Comments** |
| ZTE | Not necessary and don’t need to remove cell based/TAI based SNPN configuration.The issue of whether the legacy MDT area scope choice, such as a list of cells/TAs, can be reused for SNPN has been previously discussed by RAN3. Considering the convenience of OAM configuration, RAN3 has agreed to define a corresponding area scope specifically for SNPN, and supports restricting cells/TAs within the defined SNPN. RAN2 has agreed 3 cases including Cell based/TAI based SNPN and running 38.331 CR has already taken it into account. The current format provides clear definition for SNPN in different cases.Regarding additional semantic description, we think it is not necessary the duplicated configuration can be prevent based on OAM.  |
| CATT | Support. Without the NID information, the CGI and TAI can indicate the area uniquely. And if we based on the current construction, may make trouble in RAN2. For example, the SNPN ID consists of the NID and the PLMN. In the SNPN cell based IE, we not introduce the PLMN ID, so the PLMN ID for cell based area configuration should be retrieved from the *CGI.* However, in RAN sharing case, a cell can be shared among multiple PLMNs, and the PLMN ID in *CGI* is the first *PLMN-IdentityInfo* of *PLMN-IdentityInfoList* in SIB1 of the cell. So the SNPN ID deduced by the NID+CGI may not be a part of the UE registered SNPN or ESNPN. Basically, the procedure of identify SNPN ID is useless when we configure cell based MDT and will introduce more issue like analysed above. Thus, we suggest reusing the legacy cell based and TAI based for SNPN.  |
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# References

1. R3-237607 (TPs for MDT BLCRs for TS 38.423) MDT support in NPN (ZTE, CMCC, China Unicom)
2. R3-237206 (TP for MDT BLCR for TS 38.423): Clean-up for MDT for NPN (Huawei)
3. R3-237450 (TP for TS 38.413) Updates of MDT area scope for NPN in NGAP and XnAP (Nokia, Nokia Shanghai Bell)
4. R3-237515 (TP for SON BLCR to TS 38.413 and TS 38.423) SON enhancements for Non-public networks (Ericsson)