3GPP TSG-RAN WG3 Meeting #123 R3-240858

Athens, Greece, 26 February - 1 March, 2024

**Agenda item: 9.1.1.1**

**Source: Nokia, Nokia Shanghai Bell**

**Title: Summary of discussions on CB: # SONMDT1\_NPN**

**Document for: Approval**

# 1 Introduction

This paper provides summary of discussions at RAN3#123 on:

**CB: # SONMDT1\_NPN**

**- Check whether SNPN Cell Based MDT is needed or not？**

**- Check RRC support and LS to SA5 if agreeable**

(moderator - Nok)

# 2 For the Chairman’s Notes

**[Draft] Reply LS to SA5 on MDT for NPN in R3-241029 agreed**

# 3 Discussion

**RRC support:**

The moderator observes that the following IEs for SNPN are supported as part of logged MDT configuration in TS 38.331 v18.0.0:

SNPN-ConfigList-r18 ::= CHOICE {

 snpn-ConfigCellIdList-r18 SNPN-ConfigCellIdList-r18,

 snpn-ConfigTAIList-r18 SNPN-ConfigTAIList-r18,

 snpn-ConfigIDList-r18 SNPN-ConfigIDList-r18

}

SNPN-ConfigCellIdList-r18 ::= SEQUENCE (SIZE (1..maxSNPN-ConfigCellId-r18)) OF SNPN-ConfigCellId-r18

SNPN-ConfigCellId-r18 ::= SEQUENCE {

 cgi-Identity-r18 CGI-Info-Logging-r16,

 nid-IdentityList-r18 SEQUENCE (SIZE (1..maxNPN-r16)) OF NID-r16

}

SNPN-ConfigTAIList-r18 ::= SEQUENCE (SIZE (1..maxSNPN-ConfigTAI-r18)) OF SNPN-ConfigTAI-r18

SNPN-ConfigTAI-r18 ::= SEQUENCE {

 tai-Identity-r18 TrackingAreaIdentity-r16,

 nid-IdentityList-r18 SEQUENCE (SIZE (1..maxNPN-r16)) OF NID-r16

}

SNPN-ConfigIDList-r18 ::= SEQUENCE (SIZE (1..maxSNPN-ConfigID-r18)) OF SNPN-ConfigID-r18

SNPN-ConfigID-r18 ::= SEQUENCE {

 plmn-Identity-r18 PLMN-Identity,

 nid-IdentityList-r18 SEQUENCE (SIZE (1..maxNPN-r16)) OF NID-r16

}

This information is referenced in procedural text e.g. as follows:

1> If the UE is registered in SNPN:

2> if the *LoggedMeasurementConfiguration* message includes *snpn-ConfigList*:

3> set the *snpn-ConfigIDList* in *VarLogMeasReport* to include the current registered SNPN ID as well as SNPN IDs in *snpn-ConfigList*;

2> else:

3> set the *snpn-ConfigIDList* in *VarLogMeasReport* to include the current registered SNPN ID;

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 if the UE is in camped normally state on an NR cell and if the registered SNPN is included in *snpn-ConfigIDList* stored in *VarLogMeasReport*:

4> if *areaConfiguration* is not included in *VarLogMeasConfig*; or

4> if the serving cell is part of the area indicated by *areaConfig* in *areaConfiguration* in *VarLogMeasConfig*; or

4> if the current serving cell is part of the area indicated by *cag-ConfigList* of *areaConfiguration* in *VarLogMeasConfig,* or if the current camping cell is part of the area indicated by *snpn-ConfigList* of *areaConfiguration* in *VarLogMeasConfig*;

5> perform the logging at regular time intervals as defined by the *loggingInterval* in *VarLogMeasConfig* only when the conditions indicated by the *eventL1* are met;

NGAP currently contains the information needed to configure the UE.

As observed in R3-240365, SA5 in their CRs, e.g. CR to TS 32.422 (S5-238150), attached to their LS [1], the area scope parameter is enhanced only with the MDT SNPN List and not with SNPN Cell ID List for MDT nor with SNPN TAI List. It is therefore proposed to:

Proposal: Send LS to SA5 cc CT4, RAN2 to inform that SNPN Cell ID List for MDT and SNPN TAI List are needed information for configuration of MDT in SNPNs.

Draft LS is provided in annex of R3-240365 and uploaded to the draft folder (R3-24xxxx).

Please provide your company view on the above proposal:

|  |  |
| --- | --- |
| **Company** | **Comment** |
| Nokia | Yes, LS to SA5 is needed. |
|  |  |
|  |  |

# 4 Conclusion, Recommendations [if needed]

If needed

# 5 References

[1] S5-238101 – R3-240030, *Reply LS on MDT for NPN*, SA5#152