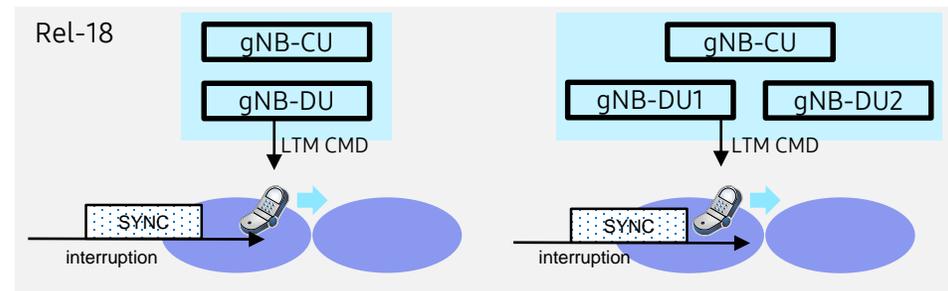


SON/MDT Enhancements in Rel-19

Background and Motivation (1/2)

SON/MDT for NR was first introduced in Rel-16. SON/MDT functions are key enablers for an autonomous network.

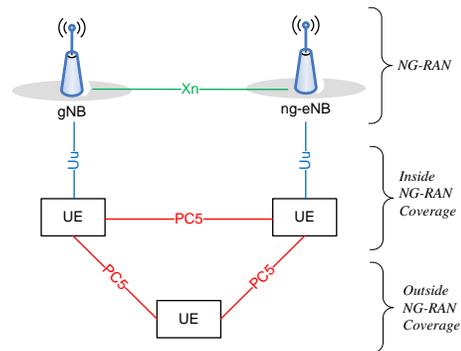
L1/L2-triggered mobility (LTM) is the new feature introduced in Rel-18. LTM supports intra-DU mobility and intra-CU inter-DU mobility to improve the mobility performance. Considering MRO is the key technology aims at detecting and enabling the correction of unnecessary handover and connection failure due to mobility. MRO for LTM should be considered in Rel-19 WI.



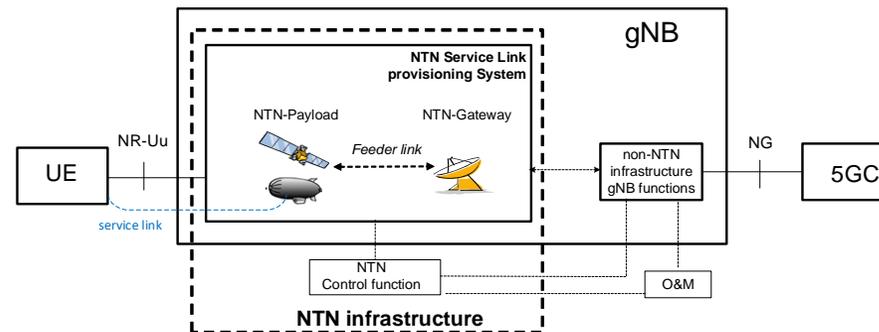
Background and Motivation (2/2)

NTN and Sidelink were introduced in Rel-17 and Rel-16 respectively. NTN supports additional trigger conditions to execute CHO, e.g. timer based trigger, location based trigger. The optimization for the NTN and Sidelink e.g. mobility related can be considered in Rel-19 SON/MDT WI.

The objectives in Rel-18 SON/MDT WI were justified. The leftovers, if any, should be continued in Rel-19.



Sidelink in NG-RAN Architecture



NTN based NG-RAN

Proposed Objectives

Support the data collection for SON enhancements for LTM. [RAN3, RAN2]

- Specification of the UE reporting to enhance the mobility parameter tuning [RAN2]
- Specification of the inter-node information exchange, including possible enhancements to interfaces [RAN3]

Specify SON/MDT enhancements for [RAN3, RAN2]

- NTN
- Sidelink

Specify the leftovers of Rel-18 SON/MDT WI, if any. [RAN3, RAN2]