

15th – 16th June 2023

SDT Enhancements in Rel-19

Agenda Item:	5
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Small Data Transmission (SDT) Operation



Background: SDT operation allows a UE in RRC_INACTIVE to perform data exchanged in DL and/or UL in any RB previously configured for SDT

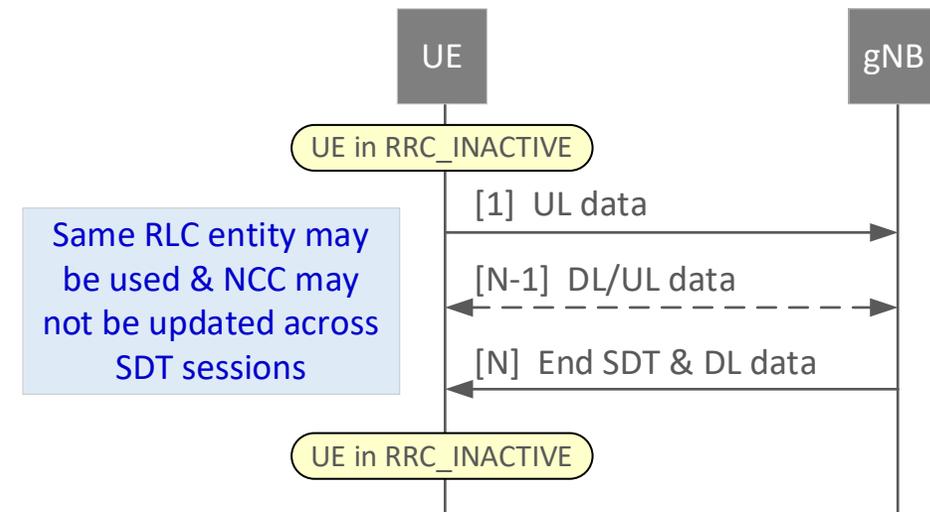
- Rel-17: UE can initiate resume via RACH or CG resources configured for SDT
- Rel-18: Network can trigger resume for MT SDT

Rel-19 proposed areas: recovery mechanism from an abrupt termination of SDT session and RRC-less enhancement for CG-SDT operation

SDT Enhancements for Rel-19 (2/2)

RRC-less Enhancement for CG-SDT Operation

- RRC-less signaling approach could enhance SDT operation when UE performs SDT under same cell/gNB where the UE AS context is stored.
- Motivation from UE side: it could provide reduction of radio, UE power saving, and latency.
- Motivation from network side: it could provide reduction of network signaling and latency considering the CU/DU split implications.
 - Example on CU-DU split implication, assuming that DU keeps the UE context or the tunnel with CU-UP, the data can be sent directly to CU-UP immediately upon receipt in DU, UP protocol can be re-used and CU-CP involvement or signalling could be minimized.



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