



5G functionalities in 5G-EMERGE and TNO/EBU testbed

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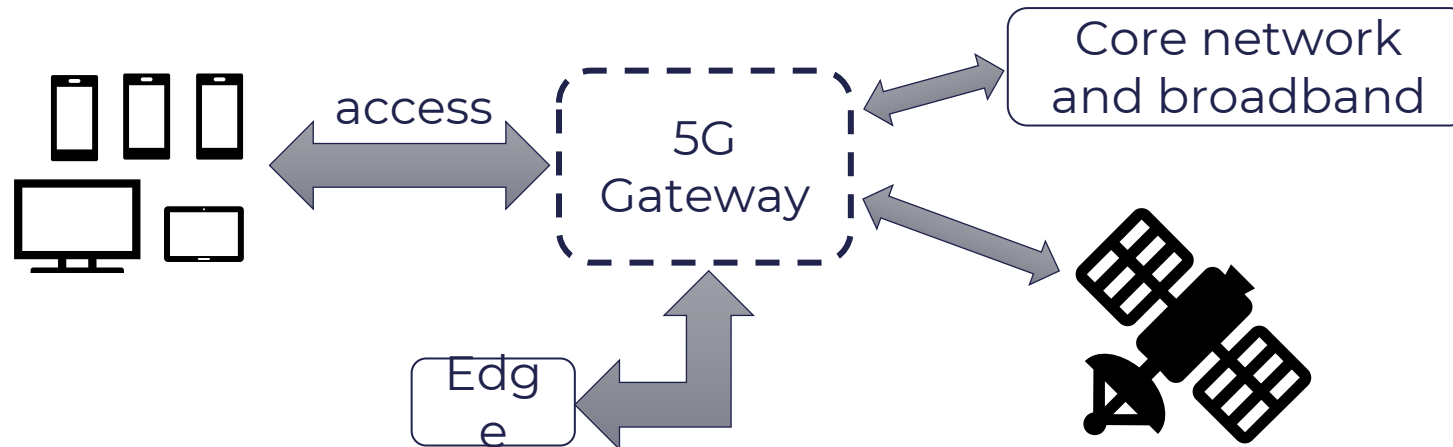
5G functionalities in 5G-EMERGE





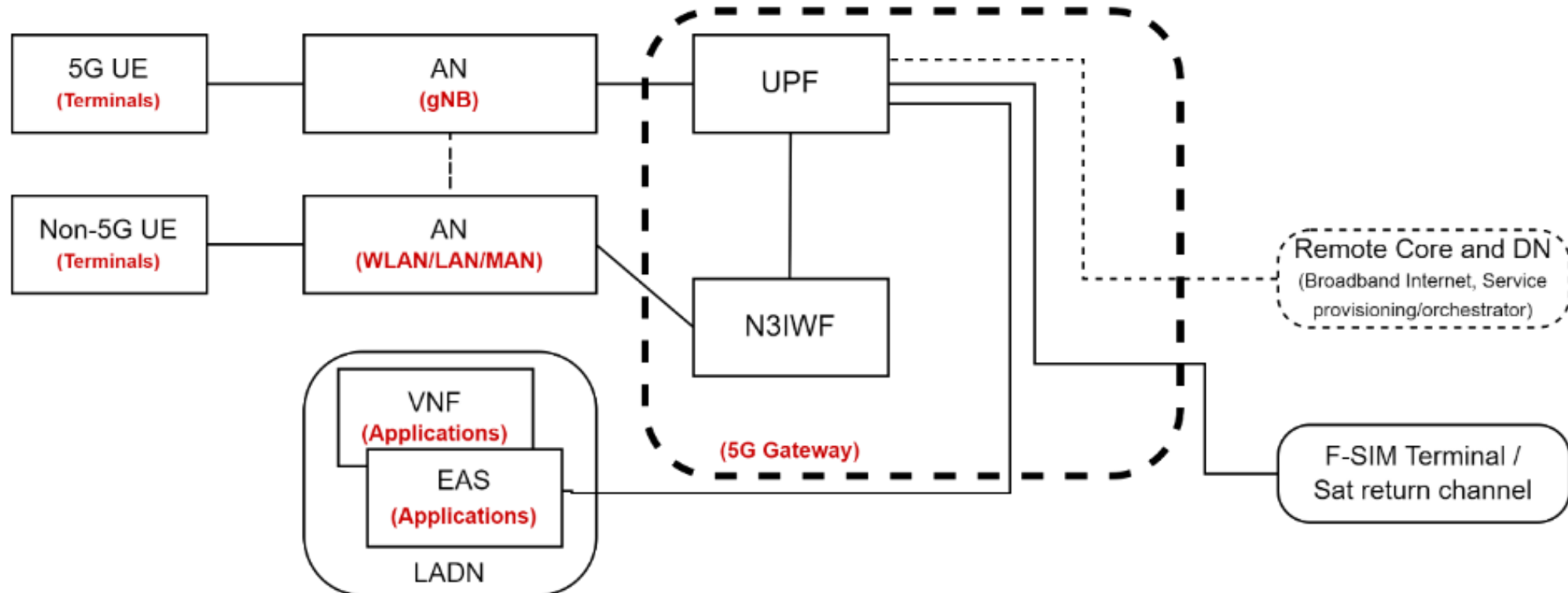
5G functionalities in the Far Edge

- 5G functionalities are aggregated together in so called “5G Gateways”
 - Located near the devices and providing access to the 5G-EMERGE system to both 5G UEs and non-5G (e.g. WiFi) UEs
 - Providing connection to edge functionalities and towards the satellite
 - Providing link to the core network and broadband Internet
- Common architecture, but with customisations specific for each use case class



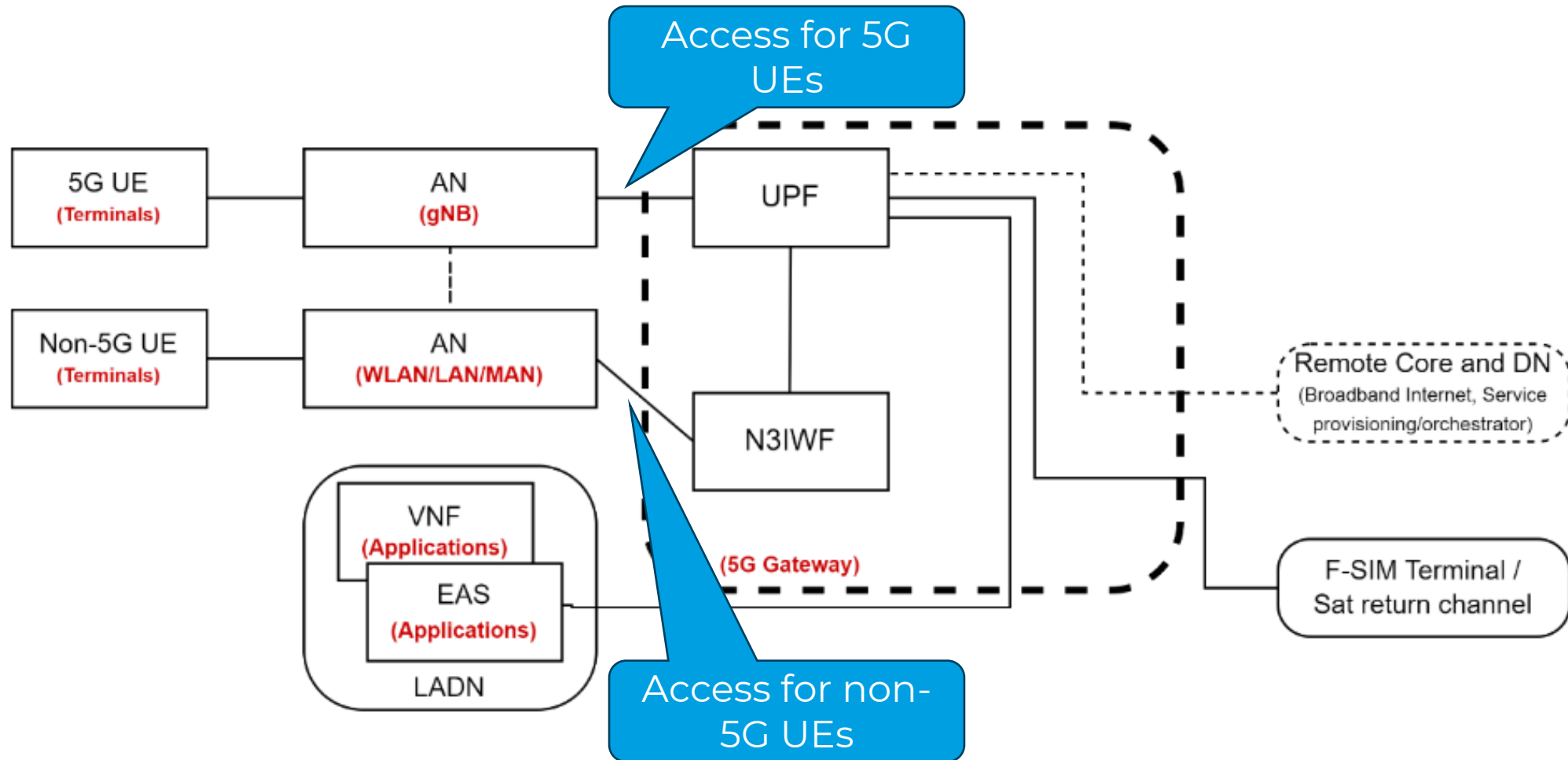


DTH Use Case



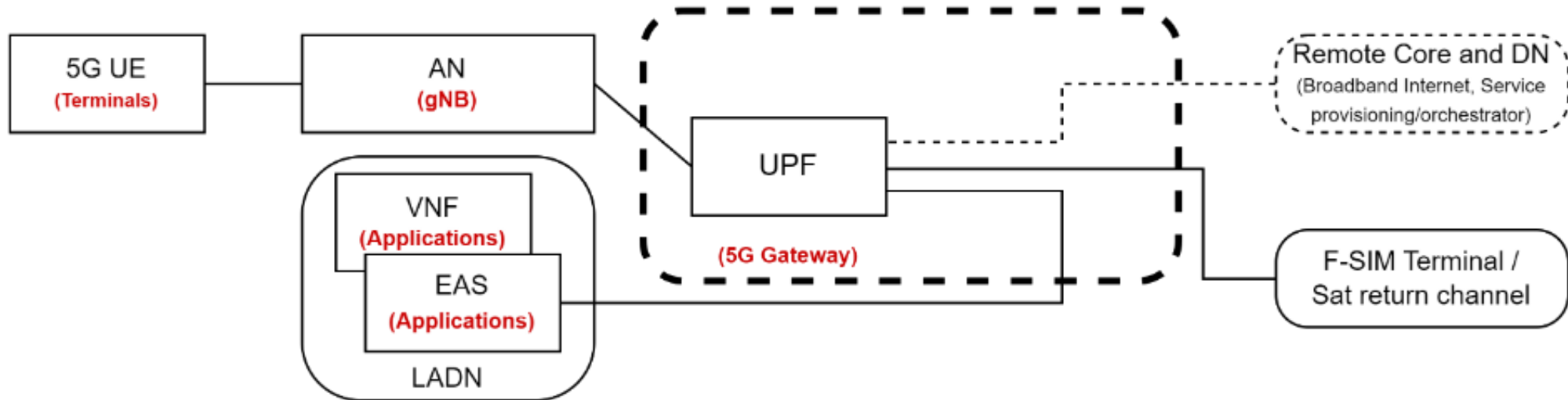


DTH Use Case



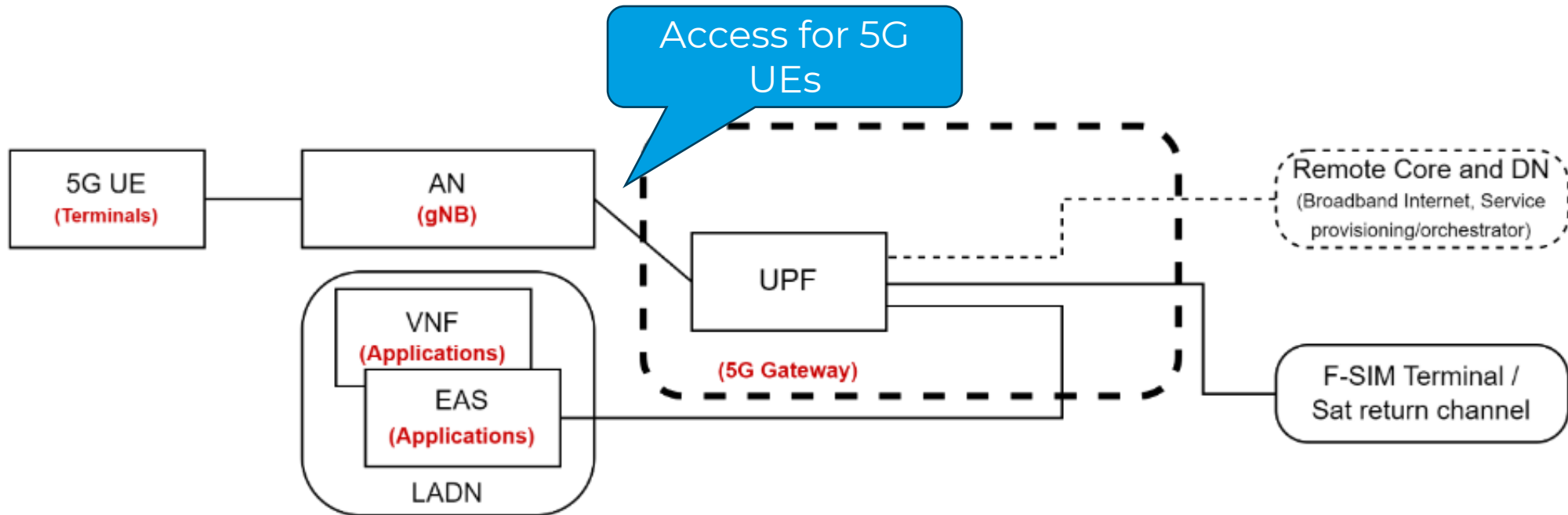


DTE Use Case



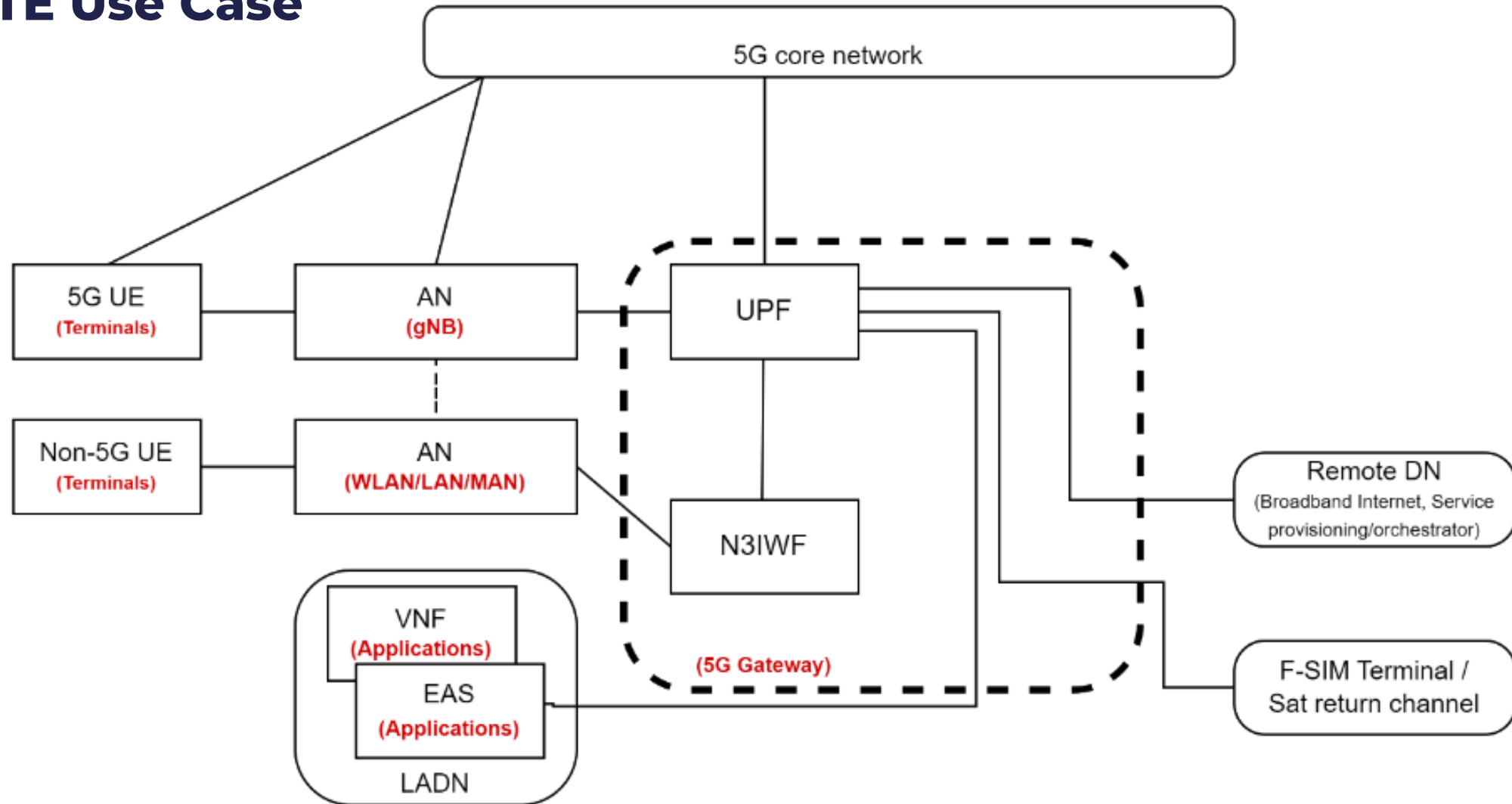


DTE Use Case



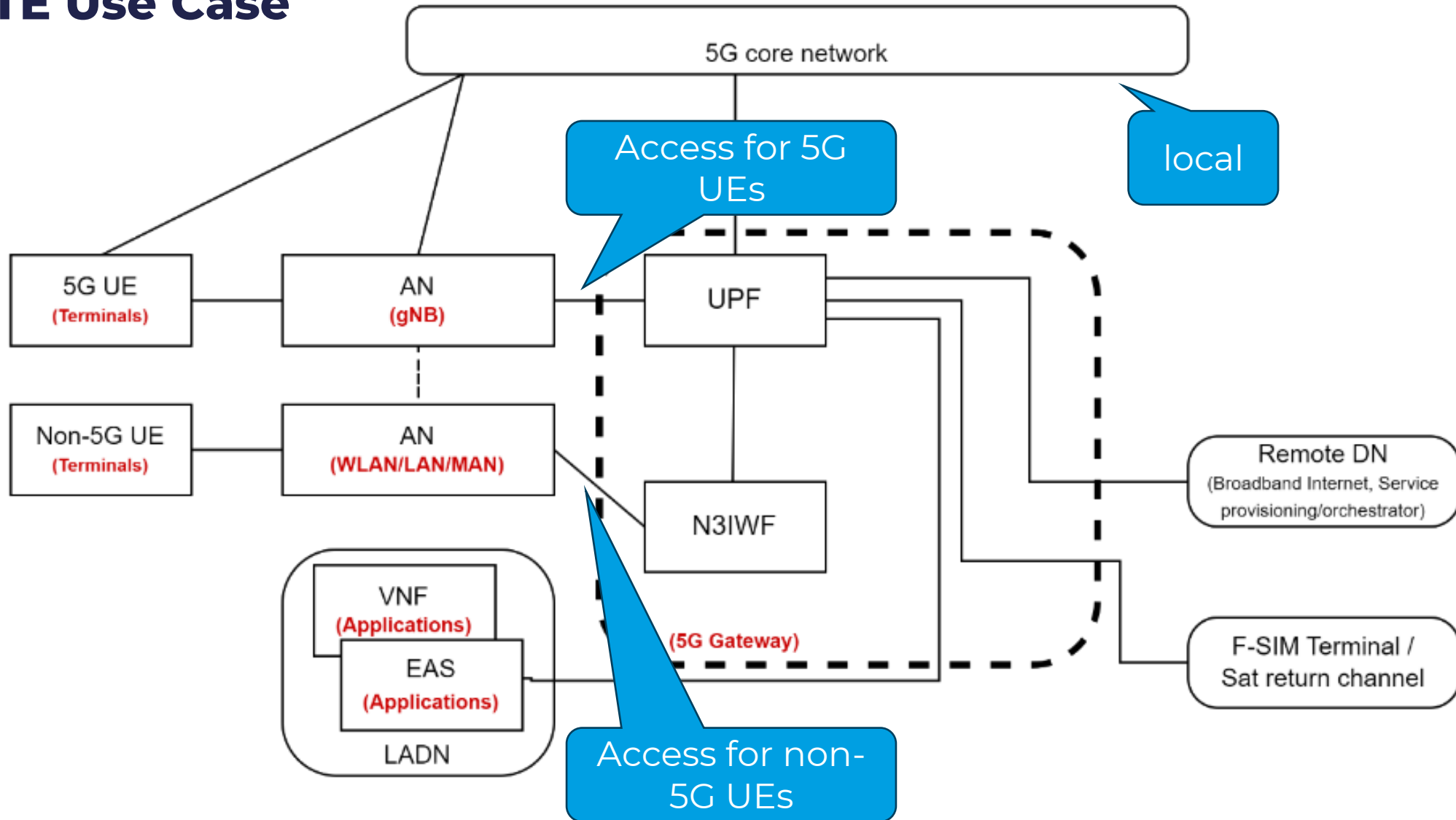


DTE Use Case





DTE Use Case





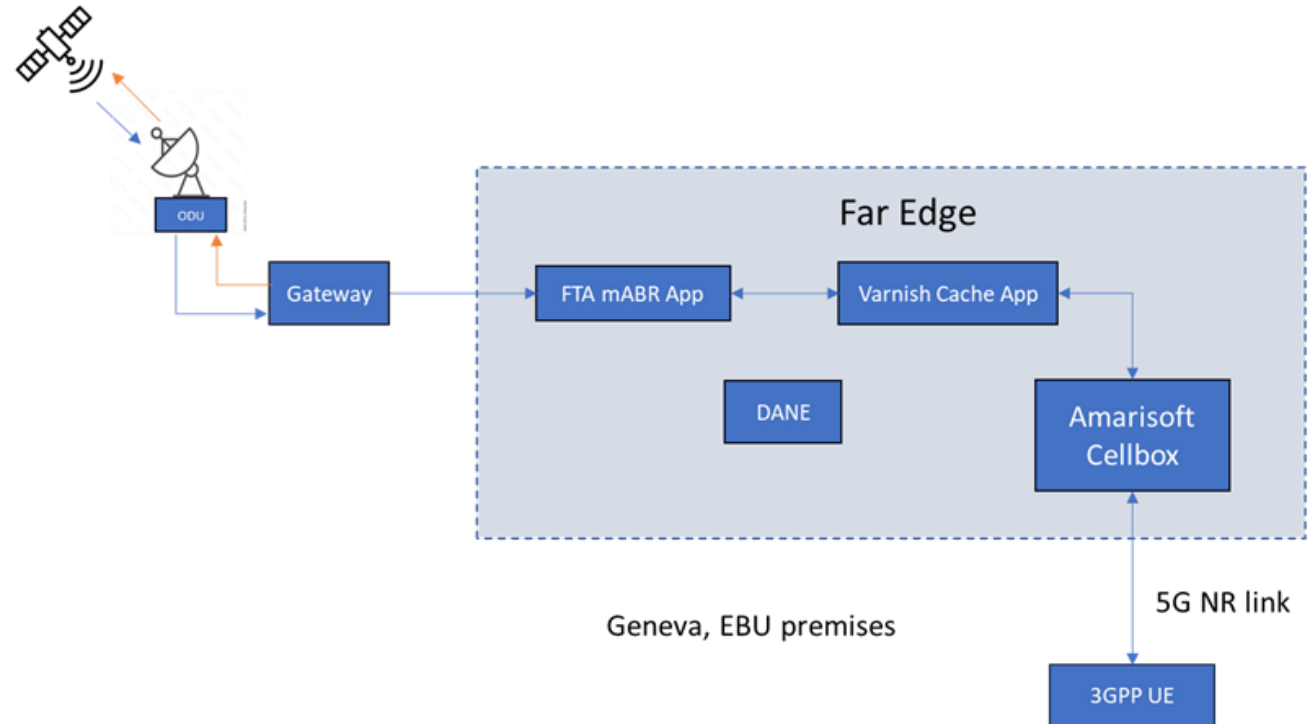
TNO/EBU testbed





DTE demonstrator by TNO/EBU

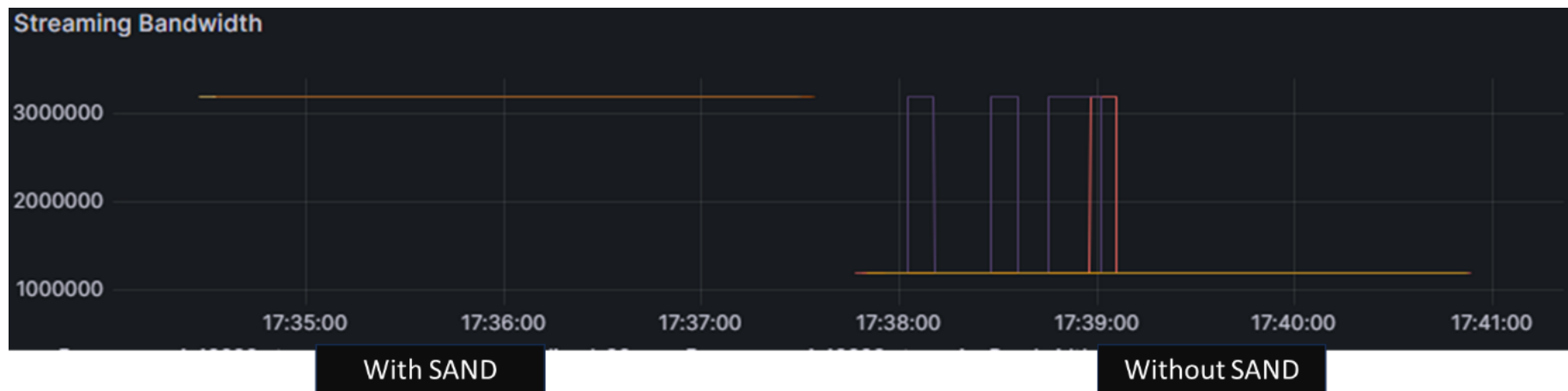
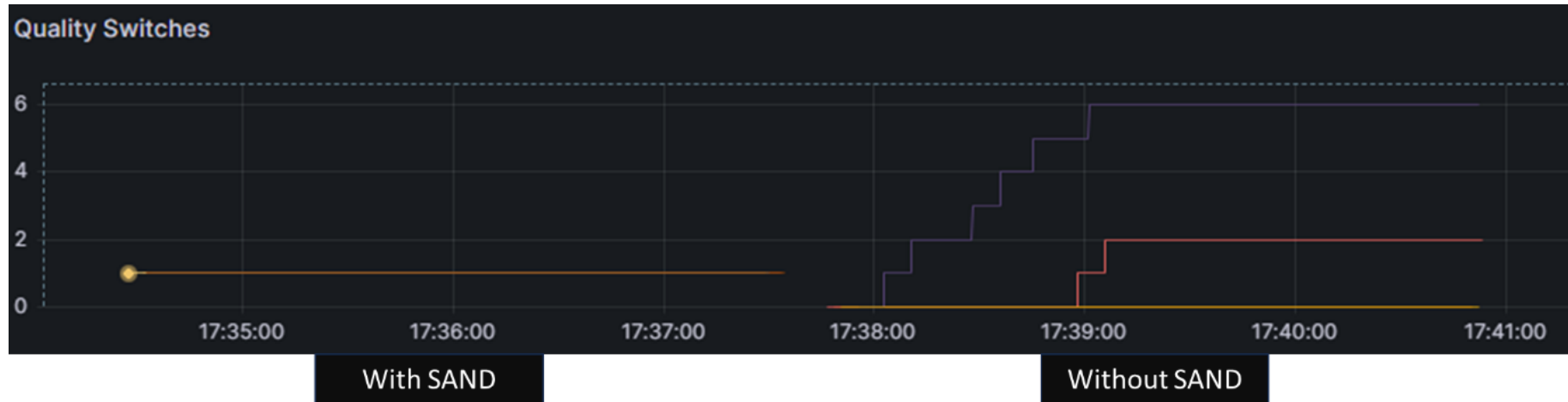
- For the demonstrator, TNO equipped the DTE testbed at EBU with 5G access via the Amarisoft Cellbox
- A DANE (DASH-Aware Network Element) was installed in the Far Edge, which communicates with the SAND (Server And Network-assisted DASH) client located in the player and provides it with bandwidth suggestions



- The goal of the demonstration was to test the results on QoS when using DANE



DTE demonstrator by TNO/EBU





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