

Control-Plane
in central cloud

Minkowski
SDN OS

Fleet Mgmt.
Telemetry &
Definitional
Mission Data

Topology & Routing SDN App

SmallWorld NetOps UI

LTE NMS / SON

holistic 4D
view of topology
& link quality

time-dynamic
topology &
routing intents

SDN Controller Layer

routing

routing &
antenna
tasking

routing &
antenna
tasking

routing &
antenna
tasking

DP Controller

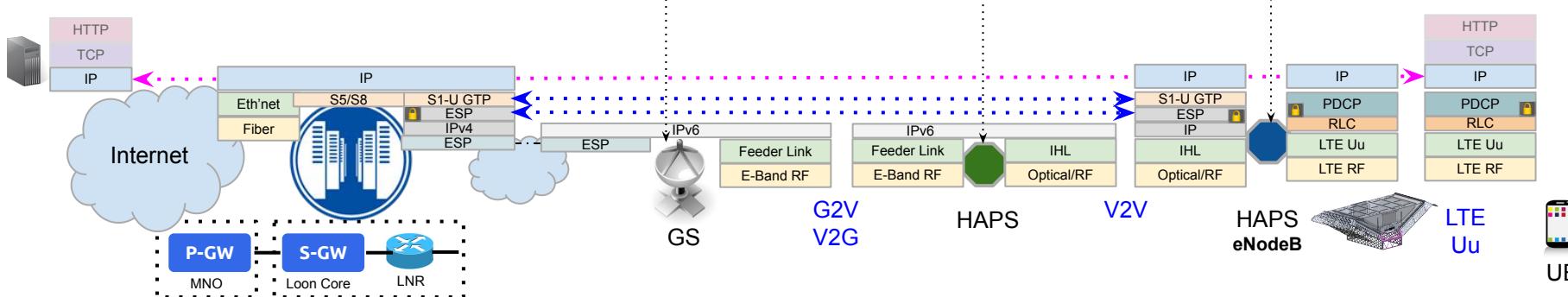
AAA

LNR Agent

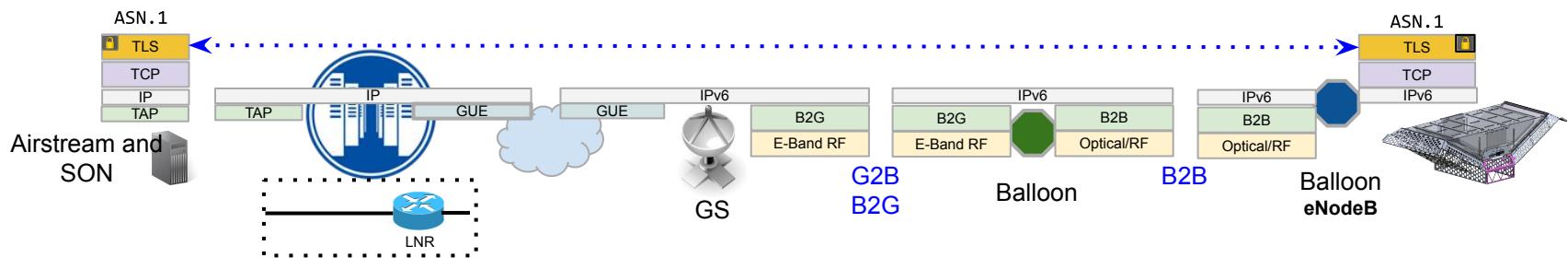
accounting &
user auth.

flow
rules

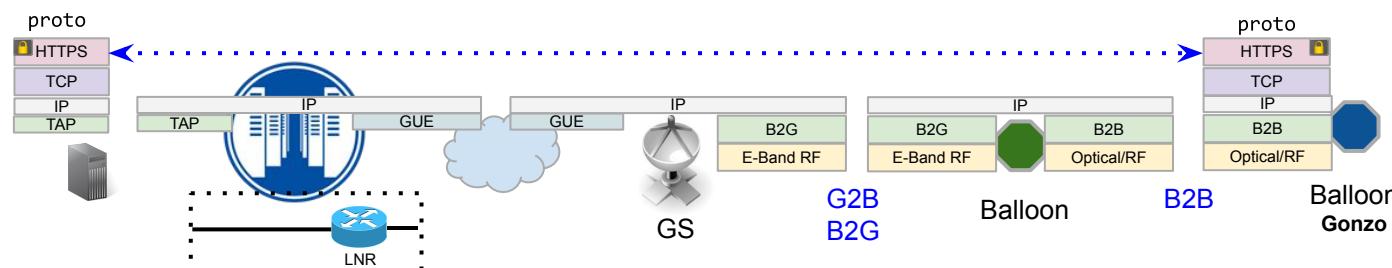
LTE
Data Plane



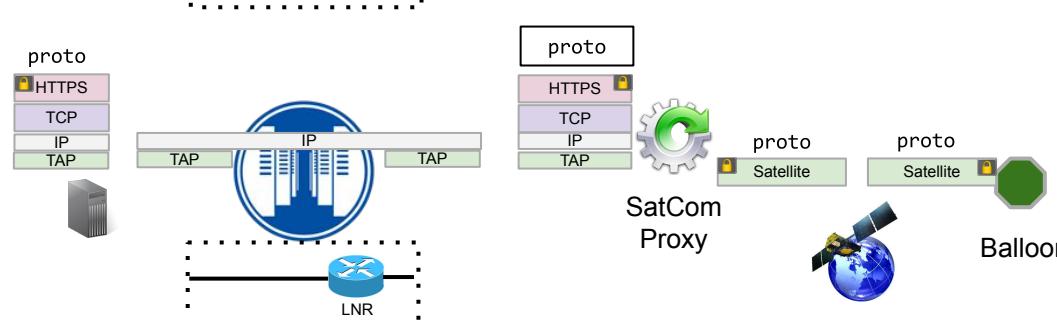
LTE RAN
Management



In-Band
Payload
Control



Out-of-Band
Payload
Control



Example HTTP application and TCP transport are to illustrate user data; Loon Network supports all types of Internet applications and transports.