PDSCH with MAC CE
gNB DL
Feeder link prop. delay = 3 ms
Feeder link prop. delay = 3 ms
Assumptions
1. TA = 8.5 ms
2. K1 = 2 slots
3. Koffset = 11 slots
4. RTT (UE-gNB) = 14.5 ms
Satellite DL
PDSCH with MAC CE
Service link prop. delay = 4.25 ms
Service link prop delay = 4.25 ms
TA = 8.5 ms
UE DL
PDSCH with MAC CE
ACK
3 ms to activate
Kmac=RTT = 14.5 ms
UE UL
Koffset = 11 slots
K1 = 2 slots
Service link prop. delay = 4.25 ms
Satellite UL
Received PUSCH due to large propagation delay
Feeder link prop. delay = 3 ms
3 ms to activate
gNB UL-DL offset = 7 ms
gNB UL
Time