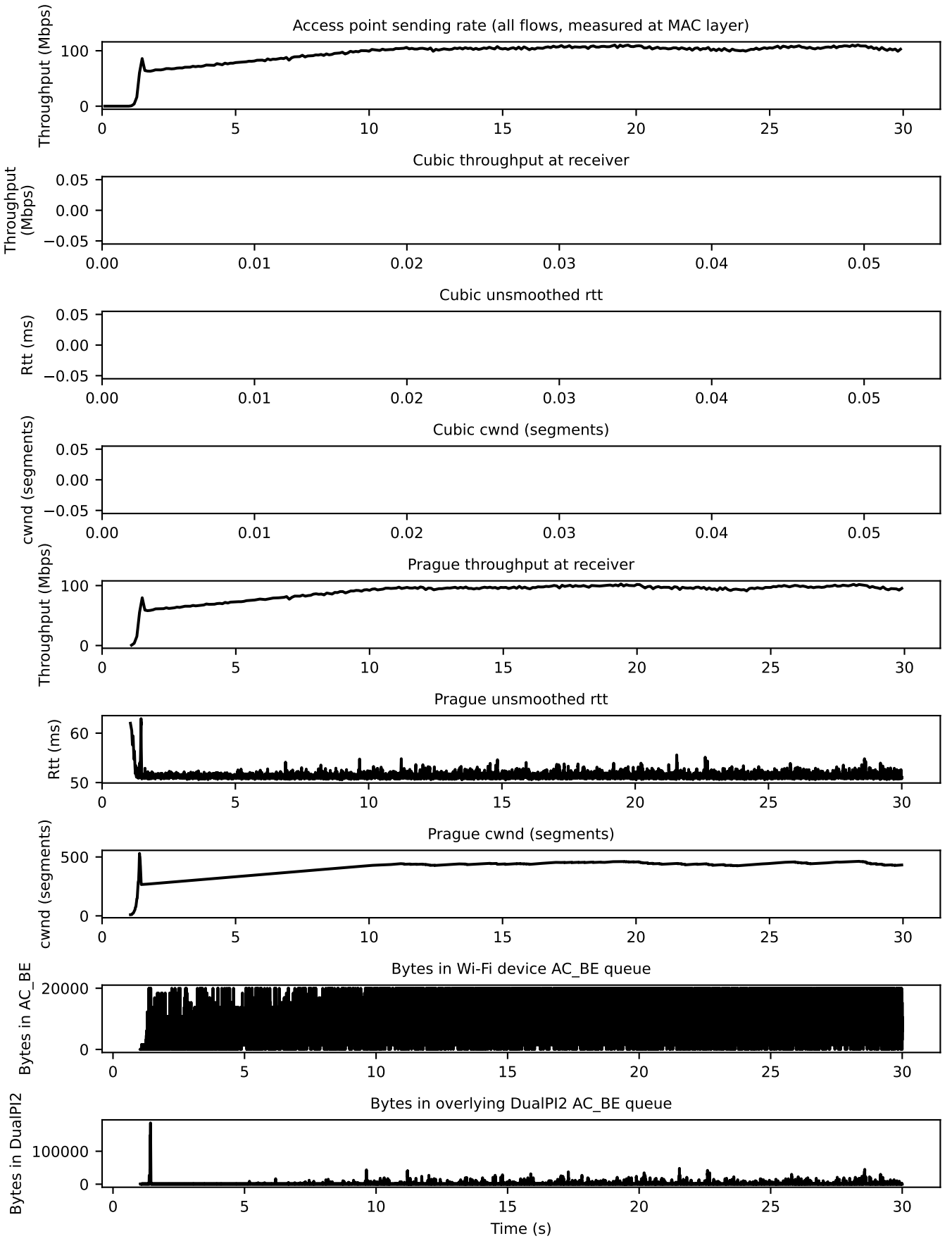Simulation ED5-MS1-AP1-LS2-TC2-TS3