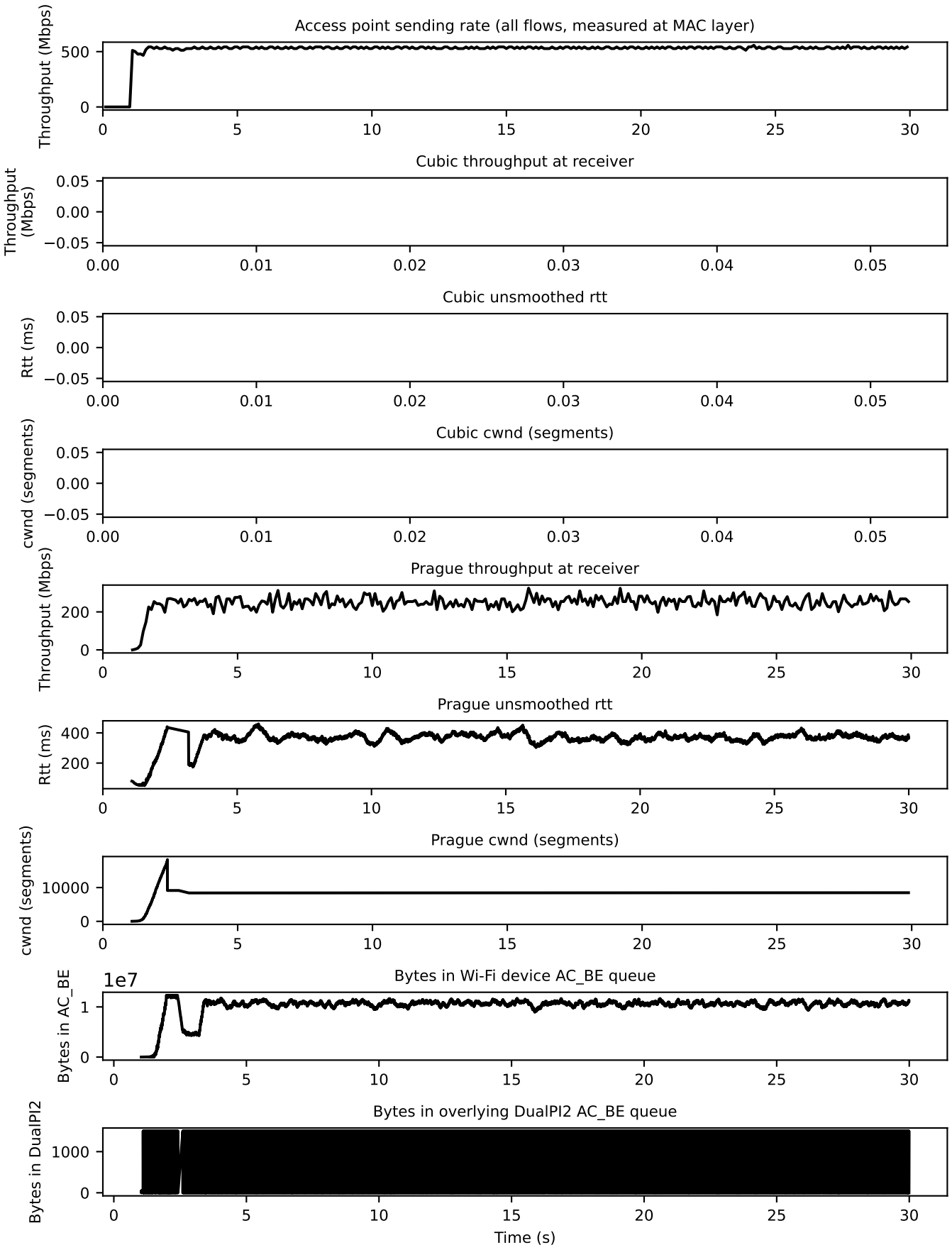Simulation ED3-MS1-AP0-LS2-TC2-TS3