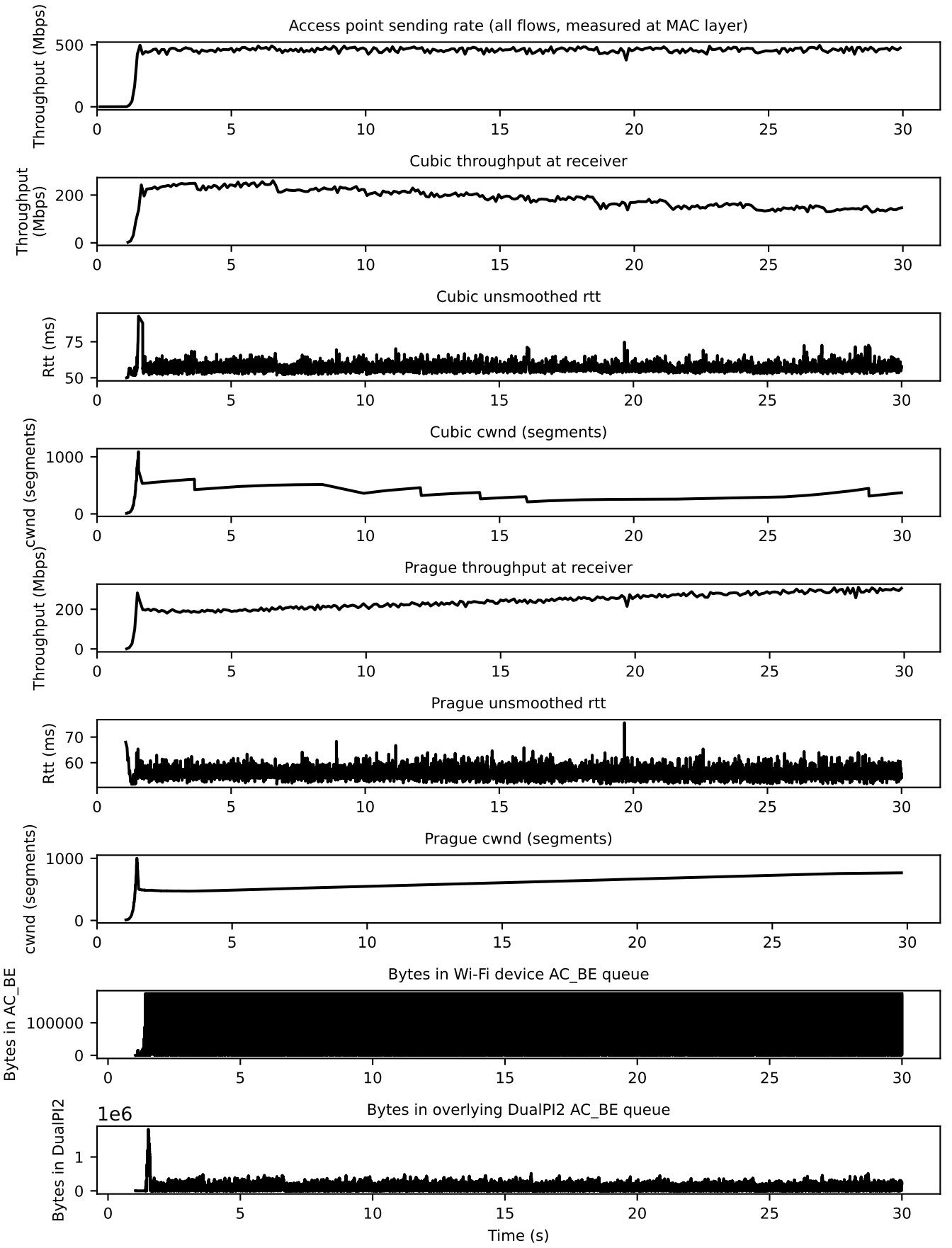Simulation ED3-MS0-AP1-LS2-TC4-TS3