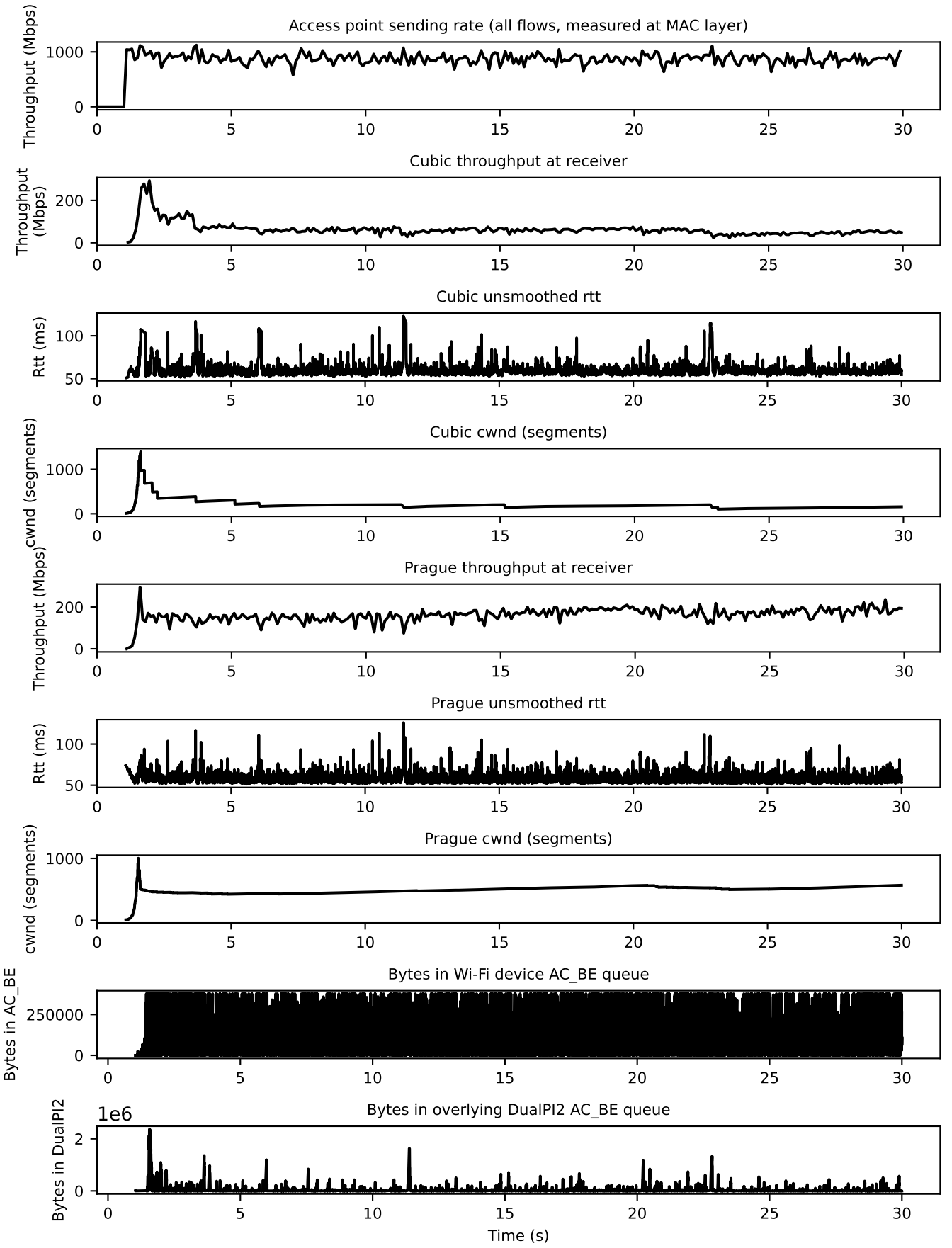Simulation ED0-MS1-AP1-LS3-TC4-TS3