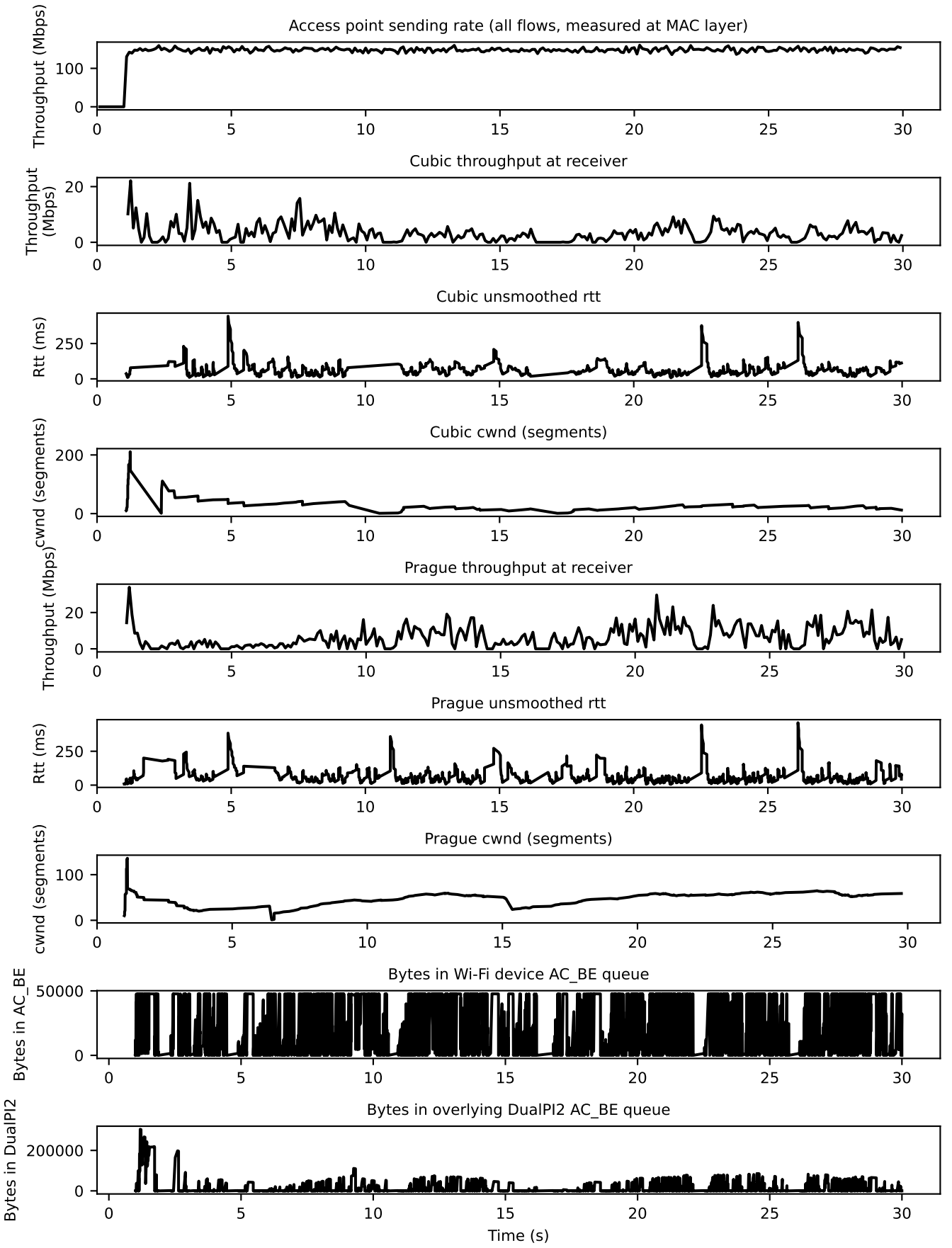Simulation ED0-MS2-AP1-LS1-TC3-TS1