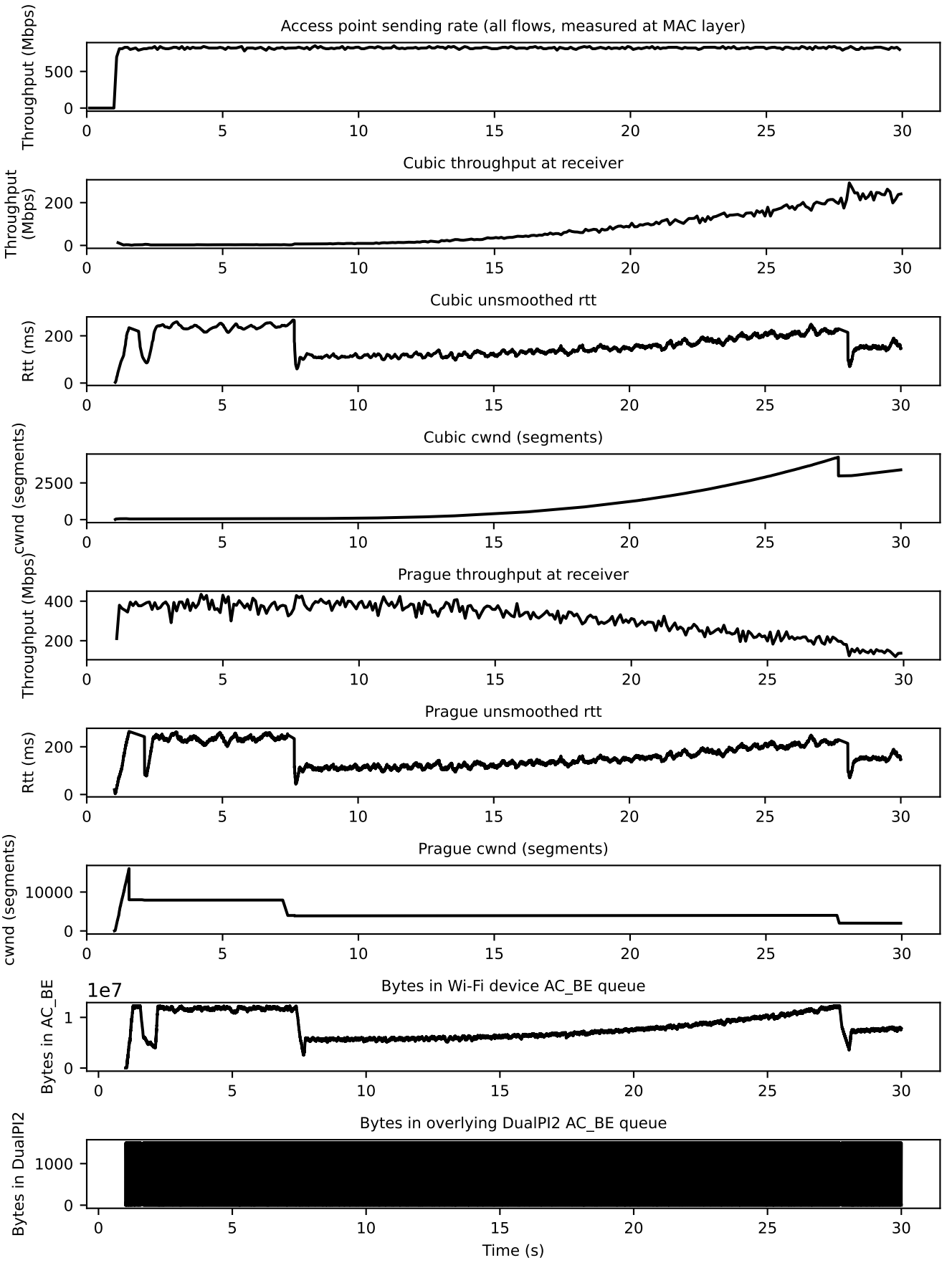Simulation ED4-MS1-AP0-LS3-TC3-TS1