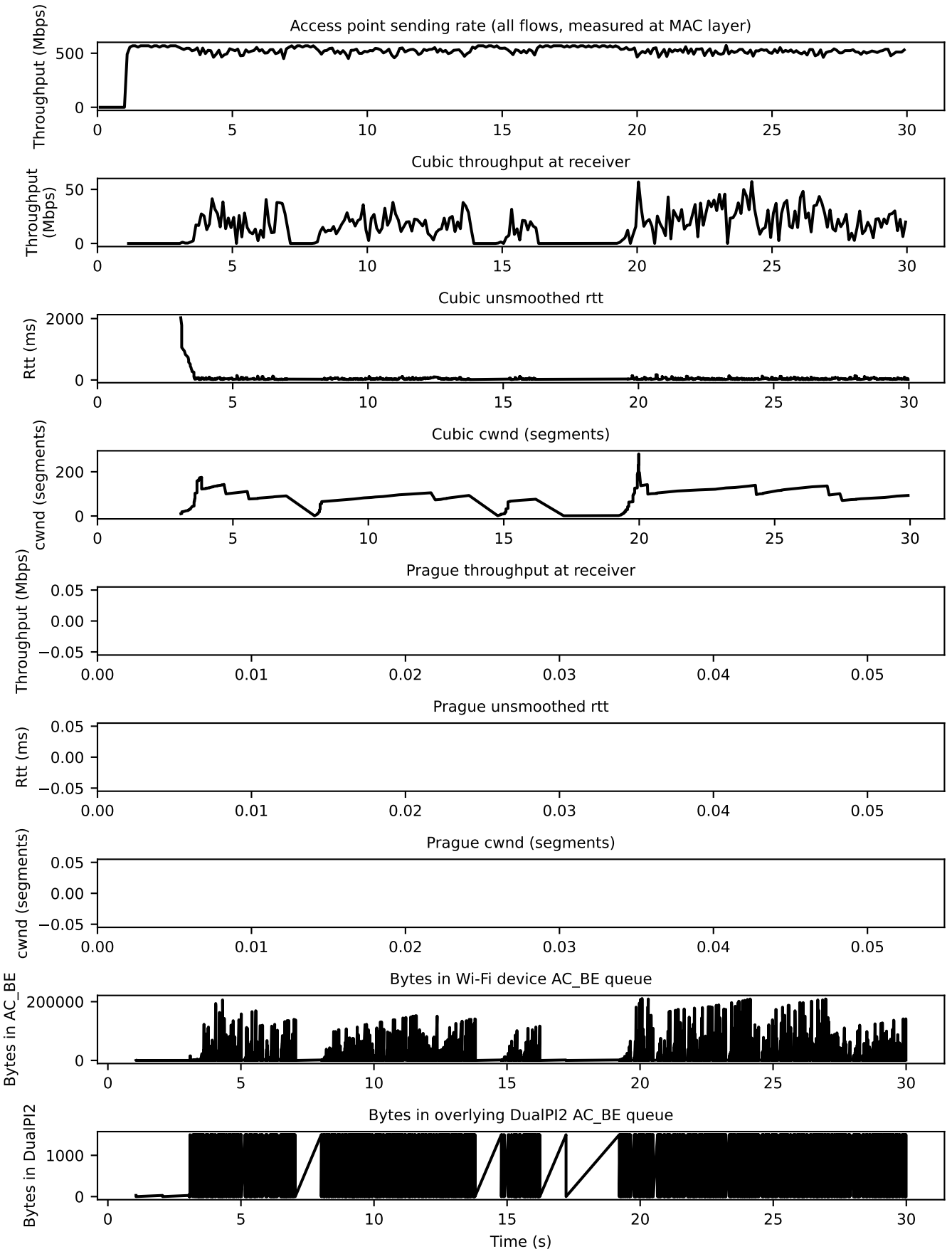Simulation ED2-MS2-AP0-LS2-TC1-TS2