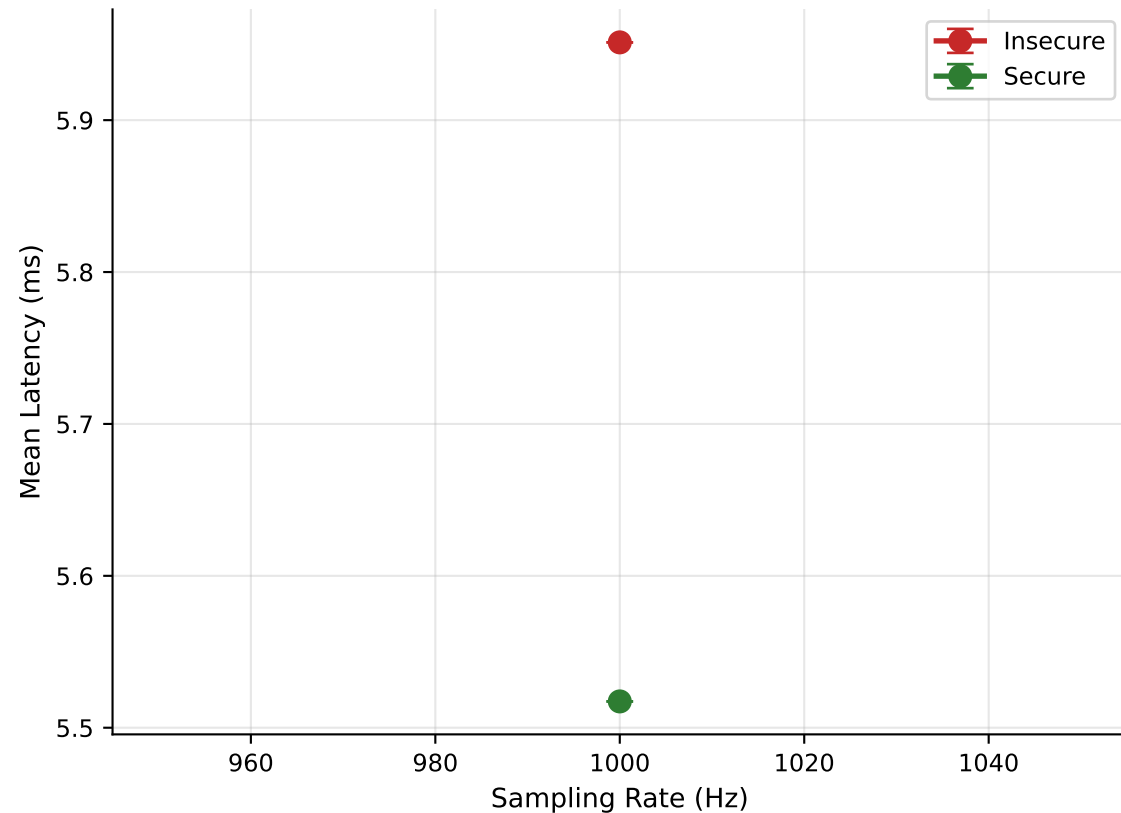Rate Sweep Analysis: Security Overhead Scaling