ABSTRACT

Atria Hotel Gading Serpong is a new hotel operator in Indonesia which is owned by the Paramount Group and managed by the subsidiary Parador Hotel & Resort which is facilitated by various communication media with wireless LAN networks for the benefit and comfort of guests, employees and systems in the Atria building. Gading Serpong Hotel must have the implementation of quality of service (QoS) standards, the ability to provide good network traffic services.

Measurements were taken at several locations in the Atria Hotel Gading Serpong so that the performance of each test location could be compared. There are 3 parameters used as benchmarks, namely, delay, throughput, and packet loss. This measurement was carried out for 5 days with a schedule of 3 shifts every day. This measurement is to find out how much delay, throughput and packet loss are.

From the measurement results at 2 research locations, the average delay values on the 1st floor were 3.935 ms, and on the 2nd floor were 3.856 ms. The average throughput values on the 1st floor were 4,472.385 Mbps, and on the 2nd floor were 6,293.272 Mbps. The average packet loss values on the 1st floor were 0.002%, and on the 2nd floor were 0.002%.

Keywords: Wireless LAN, Delay, Throughput, Packet Loss