

ABSTRACT

Indonesia experienced a spike in COVID-19 again in mid-2021, so the government implemented the PPKM system (Enforcement of Restrictions on Community Activities). Due to the PPKM system (Enforcement of Community Activity Restrictions), the majority of the community returns to work from home and online school. Due to the large number of internet users and increasing network demand, operators will look for ways to meet the needs of the community, one of which is Indosat Ooredoo Hutchison.

To find out the effect of PPKM (Enforcement of Community Activity Restrictions) on the 4G network at Indosat Ooredoo Hutchison, an analysis was carried out in the sales area of West Jakarta. In this final project, the authors make a comparison for 4 weeks to determine the impact of network performance during PPKM (Enforcement of Community Activity Restrictions) and to determine the factors that cause a decrease in network performance. This research was conducted using quantitative methods using OSS (Operating Support System) software and Speed Test by Ookla.

Based on the results of data collection carried out for 4 weeks, namely on December 24, 2021 – January 2, 2022, February 8 - 14, 2022, and May 24 - June 6, 2022. In this study, results were obtained based on OSS (Operating Support Systems) with Download Speed of 2.25 Mbps and Upload Speed of 2.51 Mbps, while in Ookla with Download Speed of 2.01 Mbps and Upload Speed of 2.39 Mbps, as well as an increase in PRB (Physical Resource Block), RAN (Radio Access Network) by 31%, TRM (Transport Microwave) by 20%, Availability Site by 1%, and a decrease in Latency of 0,65ms. So it can be said that the network performance at PPKM (Enforcement of Community Activity Restrictions) Level 3 is better than in PPKM (Enforcement of Community Activity Restrictions) Level 1.

Keywords: PPKM (Enforcement of Restrictions on Community Activities), OSS (Operating Support System), Speed Test by Ookla.