

## ABSTRACT

Badan Riset dan Inovasi Nasional (BRIN) is a non-ministerial government institution that operates under and is accountable to the President of Indonesia through the minister responsible for research and technology affairs. BRIN's Gatot Subroto Jakarta area is one of the institutions that provides *Co-Working Space* as an effort to facilitate its community to carry out their tasks and functions from anywhere or *Work From Anywhere*. Therefore, the WLAN network, especially in the Co-Working Space of BRIN Gatot Subroto Jakarta, needs to perform well. Hence, there is a need for a comprehensive measurement of WLAN network quality.

This research aims to measure the quality of the WLAN network in Co-Working Space of BRIN in the Gatot Subroto Jakarta Area. The *Quality of Service (QoS)* method employed, considering parameters such as Throughput, *Packet Loss*, *Delay* and *Jitter*. QoS is the ability to provide computer network performance in delivering services to applications within the network, thus determining the level of user satisfaction using that network.

The research is conducted by recording WLAN network traffic at Access Point located in the Co-Working Space of BRIN Gatot Subroto, Jakarta, using Wireshark software. There are 8 Access Point placed at 4 locations on the 7<sup>th</sup> floor and 4 locations on the 8<sup>th</sup> floor. Measurements are taken over 5 working days with a 3-shift schedule each day.

Through careful analysis and measurement, the conclusion of this research indicates that the WLAN network quality in the Co-Working Space of BRIN Gatot Subroto falls into the "Satisfactory" category, in accordance with the standards set by TIPHON. These results provide confidence that the WLAN network service at this location can meet the need of users effectively.

**Keywords:** BRIN, Co-Working Space, *Wireshark* software, WLAN Network, TIPHON, *Quality of Service (QoS)*