

Analisis Performansi Jaringan 4G dan 5G dalam layanan *Ultra High-Definition Video*

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Abstract

Along with the development of technology, networks are increasingly evolving and getting faster. In the current era, 4G networks have been provided by many internet providers, one of which is to support the needs of a digital lifestyle that is very close to video, from entertainment, video streaming, video calls, to video conferencing. From this, many users began to feel dissatisfied with the 4G network so that the 5G network was created. The 5G network is claimed to be 20 times faster than the 4G network. Several simulations were carried out to prove service performance between 4G and 5G. The simulation was carried out using the 5G Air Simulator on 5G network performance. Other experiments were also carried out to measure and carry out simulations so that they can be compared with 4G which relies on LTE Simulator technology. From this study, it was concluded that the performance of 5G ultra HD video services is faster than 4G.

Keywords: Ultra HD Video, 4G Network, 5G Network, 5G Air Simulator

