

ABSTRACT

QoS Analysis on Voip Services using EVDO Network at Telkom Education Area

As the development of technology, the need for telecommunications becomes inevitable. And now the Internet 24 hours has become something common, and probably quite cheap for the Indonesian people.

SMART is a CDMA telecommunications provider that provides services Jump, the CDMA network internet service. This jump provides services including: high-speed Internet, Internet dial up, VPN (Virtual Private Network), VoIP (Voice over Internet Protocol), and others who are using technology (EVDO) Revision A.

Voice over Internet Protocol is a technology that can pass the voice traffic, video and data packet form over an IP network. IP network is a data communication network-based packet switch. So VoIP use IP networks or the Internet.

This final project integrates Voice over Internet Protocol on EVDO network using SMART providers. By implementing Voice over Internet Protocol on the EVDO network, it can be done the feasibility test of implementing such a measure QoS (Quality Of Service).

This final project showed VoIP could be intregrated on EVDO network. Some measurement of QoS parameters have been measured and got result of the delay measurement is on the average 87.56 ms, the jitter measurement is on the average 43.828 ms, and the packet loss measurement is less then 10%.

Key Words: SMART, Internet, VoIP, QoS