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The development of telecommunications, Video of Conference non becoming overruled matter again with various its constraint. Local Access Network (LAN) in the begining didesain for the communications of data. Voice and video Communications tried to be developed at data network. Charateristic of voice and video communications which must real time and reliable become a special question to data network. Do communications voice and video at network of LAN still fulfill elegibility of quality able to be accepted?

This research analyse quality of voice and video at data network by observe the distortion of voice and video signal. Delay factor, packet loss, jitter, and throughput become analysed parameter. So that elegibility of voice and video communications at data network can assess. To test parameters of video and voice quality, writer design an data network topology which consist peripheral of Video Conference network base on SIP (Session Initiation Protocol). Writer also design some examination scenario to get parameter values.

From result of analysis and examination say that the quality of video and voice at network of LAN still competent and as according to ITU-T standard. Quality of which is obtained in applying of Video Conference over network of LAN base on SIP is good and good enough. This matter can be seen with value of MOS which have been got from some experiment which have been done that is gyrating 3.856138 to 3.997465 where the value represent good enough value and at scenario 3 in J building, result of attempt show value of MOS 4.007568 which included in the good quality.

Keyword : Video Conference, SIP, LAN