Abstract

The development of internet technology is not only as a medium of information, but also as a medium of communication. One of them is video call based on VoIP (Voice over Internet Protocol). This technology has been used by some service provider messengers, like Yahoo Messenger, Skype, and others.

Rich Internet Application (RIA) becomes a development trend of current web technologies. By this technology, web applications are designed with a desktop application approach, prioritizing speed of access, user friendly, and interactivity. Bringing VoIP together with RIA for communication technology will improve user experience. For those reasons, Web-Based Video VoIP Phone application is created. Users can do voice and video communication without installing particular client application, just need a browser application.

Experiments and survey have been done to measure this software performance. The tests are performed to evaluate QoS (Quality of Service) of software and its compatibility towards other softphone devices. Survey is performed to evaluate MOS (Mean Opinion Score). The survey’s result shows that the software gets 4 from 4.4 of maximum scale for G.711 codec.

Keywords: Video VoIP Phone, Web, Flex, SIP, RTMP