

ABSTRACT

Nowadays the internet is available in almost all relevant agencies or institutions. Such is the case in Wing 3, Department of Logistics, and 3rd Air Squadron has been a while equipped internet service. All of these places are located far apart from each other mutually, saw such conditions emerged the idea of creating VoIP services with the aim inter alia, to maximize the use of internet services and trim the cost of the use of analog phones.

Once done the analysis of the quality of VoIP are implemented in the third place, can be drawn the conclusion that VoIP services are implemented meet the standard recommended by the ITU-T's just to measure jitter which according to ITU-T G. 1010 should <1 ms still not be met.

In this final task in addition to building VoIP services on the third Squadron, will also be made an smartphone application for Android-based smartphone that can be implemented directly on VoIP services are built. Selection of the Android operating system is due to the current OS Android very rapidly and start many phone vendors are starting to use Android as the operating system. For the creation of the program, a programming language that is used is the Java programming language.

According to the results of the testing has been done on this app, it brings results stated in this application is doing well as it should. In addition, these applications can support the use of VoIP services are made.

Keyword: Android, VoIP, Softphone, Java, Smartphones