ABSTRACT

The Open Source Base Transceiver Station (OpenBTS) is a replacement for

conventional infrastructure from GSM technology. OpenBTS is based on open source

software that allows GSM handsets to call without using a cellular network operator. But

in operation, special commands are needed and can only be operated on the OpenBTS

CLI terminal so that it will be difficult if operated by a layman. A solution is needed to

facilitate the operation of the *OpenBTS* system.

The solution provided is by converting the *OpenBTS* system into an application.

This final project will plan and create an application that will make it easier for users to

operate the OpenBTS system. The application in this final project is website based, the

website used in this final project is localhost web using the javascript programming

language as an interpreter from OpenBTS. The application in this final project can operate

the main functions on *OpenBTS* systeMS such as configuration, registration and database.

So that it will be easier to operate the *OpenBTS* system.

The results of testing OpenBTS management system applications that have been

made are feasible to use. This application can configure servers on the *OpenBTS* system.

This application can also display users connected to the OpenBTS network in this final

project so that it can become a user database. Based on the results of the questionnaire

with respondents 98.1% answering this system is needed for ease of operation.

Keywords: GSM, telekomunikation, opensource, *OpenBTS*.

iν