

ABSTRACT

The disaster resulted in damage to cellular communication and operator, it makes the SAR team is difficult to find victims of natural disasters. Therefore in a project the end of this was built as service Voice of using OpenBTS v5 on Beaglebone as a solution to facilitate communication during disaster. Open Base Transceiver Station (OpenBTS) is a BTS Global System for Mobile Communication (GSM) based software that enables mobile GSM can call without using the mobile operators. OpenBTS known as the implementation of the open source first of the industry standard GSM. Beaglebone is a computer board a single SBC (Single Board Circuit), which has the size of a credit card, which uses an application SoC (System on a chip).

Based on the results of the implementation of the Project the end of this should be before the implementation of the OpenBTS, is expected to pay attention to the type of support used because it affects the nervous system that was made, OpenBTS v 5.0 can be done if the construction is finished in the wake up because OpenBTS v 5.0 now still in the development and UHD is still not stable, in EttusResearch UHD was renewed.

Keywords: OpenBTS, Beaglebone, GSM