

## ABSTRACT

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*Internet at this time is needed in various requirement, internet network in Indonesia have entered 4G network which have very good speed so that almost all of Indonesia island have reached 4G network. The 4G network that spread across the islands of Indonesia is still commercial, there is still a license in it, so the testers can not do the research completely, then the 4G network in Indonesia will be developed into open source using OAI (Open Air Interface) platform because the platform has properties Which is open so that the testers can do research. In the development of 4G cellular network is needed emulation to emulate the 4G network, the package will be emulation is a package that is in eNodeB that has not been done so that the output configuration emulation of data in the package eNodeB. The testing phase of this emulation system uses the eNodeB package that has not been configured yet, the eNodeB package is obtained on OAI (Open Air Interface) platform, then after the eNodeB package is obtained then emulation using emulation package supported by OASIM.*

*Keywords: OAI, 4G, emulation*