

## **ABSTRACT**

Seeing that Indonesia is a very large archipelagic country, equal internet access in Indonesia is urgently needed by the community. With the internet, it is hoped that it can make it easier to communicate anywhere and anytime, including when in the middle of the sea. Based on the survey results, there is a correlation between the number of people who carry out activities in the middle of the sea and the need for internet access. Therefore, the existence of Maritime Earth Stations in Motion (M-ESIM) in Indonesia is very important.

Maritime Earth Stations in Motion (M-ESIM) is one of the innovations in satellite technology, and is an important and appropriate thing for Indonesia. Maritime Earth Stations in Motion (M-ESIM) that use antennas at user locations so that they can connect moving objects, one of which is ships, while maintaining the characteristics of Fixed Satellite Services (FSS).

Maritime Earth Stations in Motion (M-ESIM) can supported by the many activities that are usually carried out by the community in the middle of the sea of Indonesia. M-ESIM can also experience interference when approaching terrestrial area where 5G User Terminal (UT) in cellular services on 28 GHz (Ka-Band frequency). Requiring Indonesia to have strong regulations to regulate the existence of ESIM itself, this can also affect the regulation that will apply in Indonesia.

**Abstract : M-ESIM, FSS, Interference, 5G UT.**