

## **ABSTRACT**

*Telecommunications business opportunities in Indonesia is growing to make this land increasingly tight competition. Various attempts were made to improve the service provider and the quality are included in the frequencies to be more efficient utilization. Where efficiency is carried out by several operators, namely the incorporation of frequency resources among operators.*

*One case is the operator Telkom Flexi close of business in the sector of CDMA (Code Division Multiple Access) hers, the process of moving or consolidating Telkom Flexi will be gradual to infrastructure and services. Consolidating operator Telkom to Telkom Flexi and Telkomsel in this research and the transfer of the frequency bandwidth. In this study will be carried out optimization and reconstruction on the E-GSM 850Mhz network operator Telkomsel / Telkom Flexi Bandung. Previously in this area has been operating cellular systems of the two operators is that in this study the existing condition will be processed by conventional methods such as optimization of radio coverage in terms of access.*

*From this study it was found that the results of coverage and capacity, the merger of the two operators is good enough where the predicted outcome of Flexi pretty good, and the predicted results of Telkomsel less well, the percentage of Telkomsel is under Flexi and of merging the two operators have predicted results 99.6% , flexi megimbangi Telkomsel unfavorable. Results Rx Level and C / I of the merger is between -70dBm to -65 dBm. The results obtained from this study is the recommendation to be implemented on the actual network and produce good quality in serving customers of Telkom Flexi and Telkomsel.*

*Keyword: DCS1800, GSM 900, E-GSM 850 Mhz, RXLEV, C/I, coverage.*