

## **Abstract**

One of the problem in the operator telecommunication growth is interconnection. Interconnection is very important in order to make users communicate easily not only in one operator but to the other operator. It is also the way to solve the limited communication toward the global communication.

So, in this final project, we will discuss about roaming between GSM & ANSI-41 where the ANSI-41 subscriber roaming in GSM network and GSM subscriber roaming in ANSI-41 network. Because of the difference of the signalling protocol between GSM & ANSI-41, it needs a gateway to realize between network.

The gateway designed in this final project using a card SS7T1/E1&Hsl Interface(PC0200).