

Dar es Salaam Institute of Technology



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

Communication Switching Systems Course

Course Code: ETU07402

Assignment 01

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For any switching system design, the range of signals that has to be interchanged between a terminal and system is known as Call Processing which shows the basic steps involved in processing a call. There are two types of diagrams used to represent the sequence of events between the subscriber and exchanges these are Signal Exchange Diagram and State Transition Diagram. The state transition diagram (STD); specifies the response of a control unit to any sequence of events, STD helps the Telecommunication Switching designer to consider all possibilities of event occurrence. Diagrams below shows the state transition diagram of a basic steps involved in processing a call.

In this assignment you are required to prepare the program which will provide input and output as per the given STD (flow chart).

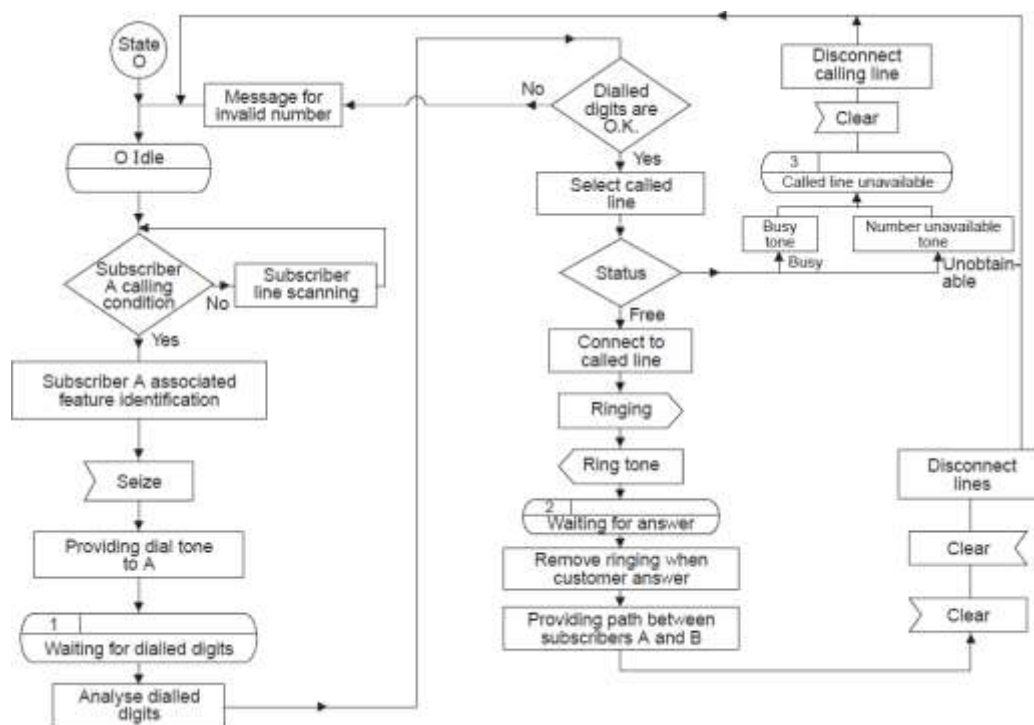


Figure 1.1: Basic Call Process state transition diagram

Take note

use programming languages of your choice.

Assignment Period : one week.