Modelling and evaluation of the availability of an optical switch

Optical switches are an integral part of core networks. In this work, the student must model and evaluate the availability of the optical switch. The tasks are as follows:

- Identify subcomponents of the optical switch.
- Find the failure rates of these subcomponents based on data sheets.
- Model the subcomponents as individual Stochastic Activity Networks (using Mobius).
- Find the availability of the subcomponent and the switch.

The student is expected to use the Mobius software tool to model the Stochastic Activity Network. It is a simple tool that can be learned a week before the internship.

Prerequisites

Knowledge of any of the following is advantageous.

- Communication Network Reliability
- Analysis, Modelling, and Simulation of Networks
- Optical Networks

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