CASE STUDY
Modeling and Simulation
Dr. Xueping Li

THE UNIVERSITY OF TENNESSEE KNOXVILLE

Case Study: Network-based Models & 3D Animation

Goal:: *To learn the following methods/techniques:*

- How to define a connected network

- Use "MoveTo, Seize, Delay, Release, Resource Attach/Detach, Resource Pool, Resource Task Start/End" modules

- 3D animation, "3D window, light, camera"

- Source arrival: rate schedule, arrival schedule

- Update ResourcePool capacity pr

Problem Statement: In this section of the tutorial we will build a model of a typical ophthalmology unit. Patients arrive to the department to undergo the ophthalmoscopy procedure. They are held in the waiting room and wait forophthalmologists to come and make an examination. The procedure is held in the procedure room. When a doctor arrives,patient moves to empty procedure room escorted by the doctor. The procedure is performed using an ophthalmoscope. Ophthalmoscopes are stored in the storage room and are taken by doctors just before the procedure begins. Following the procedure, the doctor transports the ophthalmoscope back to the storage room and returns to the staffroom, and the patient leaves the ophthalmology department.
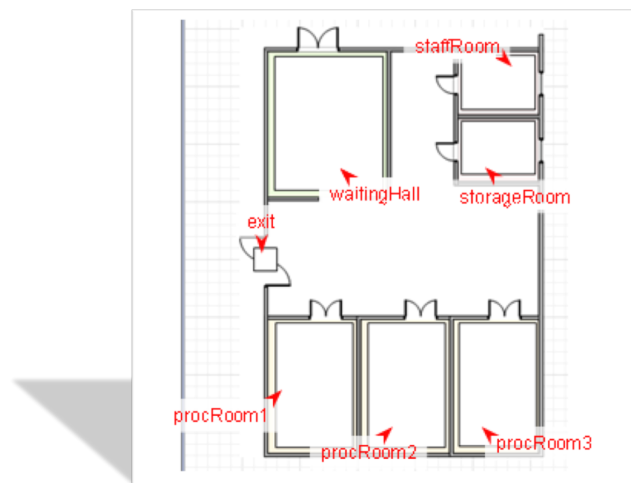

Figure 1: "Layout System": Eye Clinic