



Southern Polytechnic State University
Spring Semester 2014
ECET 4840 Advanced Telecommunications

Laboratory Exercise 2: WAN Performance Analysis

Objective: To simulate some networking scenarios wherein different types of data traffic are used to evaluate network performance and utilization. Other related scenarios, such as load balancing and link failure, will be investigated to gain a better understanding the key network management functional areas: configuration, performance, and fault management.

Procedures:

- i) Visit the IT Guru OPNET website:
http://www.opnet.com/university_program/teaching_with_opnet/textbooks_and_materials/itg_panko.html
- ii) Open the Lab Manual entitled "Evaluating Application Performance across a WAN"
- iii) On your workstation start IT Guru OPNET and complete the lab. **Note:** Since you will writing a report take several screenshots of your work as you proceed through the lab.
- iv) **Turn in:** a lab report containing a coversheet (course, semester, laboratory exercise number, laboratory exercise name, your name, and due date), introduction, lab write up and results, and a conclusion. Staple all pages together in the upper left-hand corner. For the lab write up section briefly describe each of the subsequent scenarios found in the lab manual with text and screenshots. Explain which functional area(s) the given scenario is related to.