

Project Guidelines for CSC 467 students

1. All projects are individual projects. The goal of this project is that you will learn more about a QoS topic which grabbed your attention and study further (e.g., how is this feature implemented and intended to be used in data networks and equipment in order to provide services)
2. Pick one QoS topic from the following list (or suggest a topic):
 - a. WRR
 - b. WFQ
 - c. Priority Queueing
 - d. WRED
 - e. Queue management and Congestion Control
 - f. Traffic Policing/Regulation/Marking
 - g. QoS routing
 - h. Traffic Engineering with MPLS
 - i. QoS with Openflow
3. Visit one of the major vendor's webpage (e.g., Cisco, Juniper, Huawei, Alcatel, Ericsson, AT&T, Fujitsu)
4. Search on the vendor webpages about the chosen QoS topic. You will find product documentation, whitepapers, user guides, technical reports, customer support documentation etc. that describe the selected QoS topic. Go through some of the documents that you find and understand how the selected topic is implemented or intended to be used. Look for specific examples and usage scenarios provided by the vendor.
5. Write a report in your own words (you can reuse pictures from the sources, but please cite them appropriately) with the following outline:
 - a. The chosen QoS topic. What do you understand about it? How does it help manage QoS in networks?
 - b. What company/products/product suite you have chosen for your study? What is the product space (edge/core)? What is the switching/routing capacity?
 - c. How is the chosen QoS topic implemented (i.e., what features)?
 - d. Provide use cases/examples for the product QoS feature. Does it match to your understanding of the topic? Summarize with your analysis (data and graphs would be nice)
 - e. Conclusions with any critical analysis (e.g., are the product features comprehensive? Anything missing?)
6. **Please limit the page length of your reports to 15 to 20 pages. Save trees!! Submit a pdf copy. I will create a project assignment on connex and you can directly submit them there. Last day for submission is December 9, 2014.**
7. Questions/Concerns? Please send me an e-mail or discuss with me first.