

# Interview Questions

*For Josh Fiske*

## 1. Clarkson's Internet / bandwidth purchasing:

- a. How is the bandwidth purchased from Slic? Is it based on speed, usage, both?
- b. What are other purchasing options?
- c. What sort of filtering or protection does Slic do?
- d. Are there any competitors to Slic?
- e. How does the leasing of the cable agreement from Syracuse work?
  - i. Is this something which Slic or Clarkson must negotiate?
  - ii. Are there competitors to this?
- f. Is there anything missing? - What is unsolved, what would you like to see provided?

## 2. Clarkson's Network Specifications:

- a. What is Clarkson's network built to withstand as far as bandwidth or maximum traffic?
- b. Where are the main switches and what are the specs on those?
- c. How is the downtown campus wired into the hill campus?
  - i. Is this through Slic or accomplished by Clarkson?
- d. When have you had problems with the network?
  - i. What specific problems did you have and how did you solve them?
  - ii. What interesting stories can you tell about the network?
  - iii. What would you say is the biggest problem faced when working with the network?
- e. How often is network monitoring or analysis performed?
  - i. How often in maintenance scheduled for various hardware?

## 3. Network Hardware:

- a. What hardware is used in the core?
- b. What hardware is used for the switches?
- c. I understand Clarkson purchases hardware through CDW-G, why is this?
  - i. Who sets up the hardware?
  - ii. When doing this, do you have to buy an additional service contract?
  - iii. Who is the service contract bought from?
  - iv. How much maintenance is required for the hardware?
- d. Does the ISP delegate what hardware they prefer?
- e. Do they have any say on Configurations or settings of the hardware in any way?

## 4. Wireless Network Layout / Topology:

- a. What is the scheme for the wireless router layout in campus buildings?
  - i. Do you have overlapping cells?

- ii. Do they use alternating channels?
- iii. Is it possible to maintain a constant IP address as you move through the academic buildings or the dorms?
- iv. Are the wireless routers treated as a wired device to a switch or are they set up in another way?
- b. What type of wireless technology and what devices are used (wireless g or n, generic routers or business scale routers)?
  - i. What is the maximum bandwidth that can be supported on campus (a, b, g, n)?

#### 5. Cisco Products:

- a. Why do you primarily purchase Cisco equipment?
  - i. What do you most like about Cisco and their equipment?
  - ii. What do you not like?
  - iii. What can Cisco do better with?
  - iv. Any other stories of interest regarding Cisco or their products?
- b. What features do they not have or that competitors have and you wish Cisco offered? What are tempting features you would like to see?
- c. What advice or tips can you give me for working at Cisco and with networking equipment?

Would it be possible to see the core???

NEED to ask some questions regarding these---

- Acad. Building Cores - Cisco WS-C3750G-24TS-1U
  - Cisco Catalyst 3750G-24TS-1U-24 Ethernet 10/100/1000 ports and four SFP uplinks, 1-rack unit (RU) height
  - 24 Ethernet 10/100/1000 ports
  - 4 SFP-based Gigabit Ethernet ports
  - 32-Gbps, high-speed stacking bus
  - Innovative stacking technology
  - 1 RU stackable, multilayer switch
  - Enterprise-class intelligent services delivered to the network edge
  - IP Base software feature set (IPB)
  - [http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps5023/product\\_data\\_sheet0900aecd80371991.html](http://www.cisco.com/en/US/prod/collateral/switches/ps5718/ps5023/product_data_sheet0900aecd80371991.html)
- Core Router - Cisco WS-C6509-E
  - What are the specs on this?
  - When was it purchased?
  - Is it still relatively up to date?
  - [http://www.cisco.com/en/US/products/hw/switches/ps708/prod\\_brochure\\_list.html](http://www.cisco.com/en/US/products/hw/switches/ps708/prod_brochure_list.html)