Computing and Communications Committee Meeting
March 1, 2007

Present: Scott Sutherland, Michael Zingale, Jason Torre, Wei Lin, Jolyon Jesty, Anita Lago, Harris Cohen

Meeting called to order by Chair Scott Sutherland.

Administrative Business:

Coordinating Council has requested a list of this year's action items from all standing committees. We will communicate over email to generate the list.

New Business:
CIO Rich Reeder and Behzad Barzideh (presenting) visiting guests.

State of Networking Presentation

Different network systems at SBU are broken down by need and use structure.

1. Stony Brook--Commodity Lines-Internet 1 is 300MBPS which is licensed from Cablevision. The campus will be upgrading to 600MBPS mid-summer 2007.
2. A Backup system runs at 150MBPS which we license from Keyspan in Manhattan. This system is adjustable to needs in an emergency and contains an automatic failure switch which allows it to switch over in the event of an emergency without the need of human intervention. Drop out will only be a few seconds or equivalent to refreshing your browser. It has been tested and used this past year a number of times.
3. Internet 2 is on campus and has been for 6 years. It runs at 200 MBPS capable and can be adjustable as needed as well depending upon the individual academic or research needs. Normal use is 52 MBPS currently. *There is a direct correlation to use and student activity on campus. Those weekdays that the bulk of classes are given there is a marked increase in use as well as certain periods throughout the school year.
4. Manhattan Campus—the branch runs at 100MBPS with ability to hit 1 GBPS if needed. This system is running on dark wire from the city to us and back out.
5. Southampton Campus—the campus is running at 50MBPS and is to be upgraded to 150MBPS as classes expand. Currently, it has the same criteria model as Manhattan. As the master plan for the campus is developed, technology will be worked into building designs in the final stages as it is not cost effective to price out and design a system that is 5-9 years from being built depending upon if it is remodeling or construction.
6. Tech Center (Gyrodyne)—the buildings on this new CEWIT will house a combination of research and private company personnel. Their needs will be determined and separate as companies and projects are signed onto. Administrative offices will be dark wire through Keyspan.
7. HSC/UHMC—certain parts of the east campus are treated either separately or as part of the system. All are running on the same lines but entities such as the Incubator are treated as faculty/staff connections.
8. Residential—Dorms are treated as if DOIT is their ISP. It is a dedicated system which can be separated from the main campus as needed in an emergency. For administrative purposes, they are treated as separate from the campus.
9. Buildings—all/most buildings on campus are 1GBPS connected with the exception of Roth, Roosevelt, Kelly (Kelly to be upgraded this summer).

10. Buildings currently at 1GBPS: Admin, Comp Center, Humanities, Library, Wang, Javits, Heavy & Light Engineering, UHMC. ESS and Eng. are scheduled to be upgraded.
11. 100MBPS/1 GB CAT 5E capable to desktop buildings are: ESS, Physics, Admn, SAC, Wang, Fine Arts, Psych B, Humanities, Harriman, Old Chem., Javits, USB, CMM, Heavy & Light Eng., Engineering. When any new work is done plans accommodations for the future and new technology needs are addressed.
12. Buildings with CAT 3 wiring still: Math, Chem., South Campus, Psych A. SBS, Union. Recommendation is that no one uses the CAT 3 wiring anymore because of logistical issues revolving around the location of system closets and locations. It is best of consolidate these areas and they are in the process of doing so as needed. Major issue is that all the closets are wired for analog phone service and the systems are not compatible any longer.
13. For progress reports in real time go to: status.noc.stonybrook.edu.
14. Note: Lack of finances prevents academic and individual departments from upgrading individual wiring to offices. There is no money available in the DOIT budget to accommodate their solely paying for upgrades but cost sharing is available to departments. If departments have specific student needs and can show that no other users will abuse the system they will cover costs of upgrades for student areas. Average wiring costs range from $80,000-150,000 depending upon the building and its construction (largest costs coming from labor to drill holes for wiring). $5,000 per port module for 10 GB port. /$300 per 1 GB port.
15. Wireless on campus: Math, Chem., SBS, Library, Harriman, Physics, SAC, Psych A, SB Union, Admin., Javits, Comp, Science, Heavy & Light Eng., Eng., CMM, endeavor, Wang, Humanities These wireless hotspots are created with student tech fee.
16. Additional areas with wireless: Academic Mall/Quad, Staller Plaza. Between these areas and spillover from buildings most of main campus is covered with wireless. Authentication is needed via Aranet or Guestnet. These systems treat you as part of the campus depending upon how you access them. This is particular to Aranet which treats you as an outsider if you access it via the captive portal and insider if you access it via the client. Guestnet will only allow you access to web surfing.
17. Additional items: Most people are on Core Routers 6513 SUP 720 GBPS but there are Edge Routers still around 6509 with SUP 720 WAN connectivity and 1 GB interfaces.

Note: Student tech fees only pay for those services requested by departments for their students only. No other use is allowed. Also, no Indirect Cost sharing from Research is given with fee exceptions where it is in the received grants. Costs covered by the 2006/07 Budget guide are broken down by account uses and needs. Some may cover these fees but the bulk goes to equipment and staffing.

3:15PM minute taker Jason Torre had to leave the meeting.

Additional information:

Meeting was closed at 3PM with the next meeting to be scheduled within the next 2-3 weeks.

Submitted by: Jason Torre
March 7, 2007