

STATE OF TELEPHONY: BRYN MAWR COLLEGE

DECEMBER 2008

The College owns 2,700 telephone numbers with 2,200 in active use. The appropriate number has not yet been determined as use has shifted from student to various other campus needs. As PBX support is on a per port basis, we hope to get the count close to or under 2000 active ports in order to reduce our support costs. The PBX currently has no support. We elected to not renew with our previous support provider due to cost and service level issues. We are evaluating several new vendors. Previous support costs were \$54,000 per year. Expectations are for reducing those costs, by reducing both port count and service levels, to below \$30,000 per year.

The network is comprised of approximately 300 HP ProCurve stackable switches, valued at about \$1,500 per switch, at the edge, with a single Cisco 6513, valued at about \$350,000, at the core, and a single Cisco 3745 Router, valued at \$25,000, as the Internet Gateway. A Packeteer Packet Shaper, value \$25,000, controls Internet traffic, and a Cisco VPN, Value \$15,000, handles off-campus secure access to our network file shares. We have about 70 Cisco Wireless access points, valued at about \$1,500 each, operating in thick client mode.

We have experimented with HP and Siemens access points, having about 12 of the HP , \$500 per unit, and 20 of the Siemens, \$1000 per unit, product on campus, but these have not proven to be as robust or reliable as the Cisco. Recently Haverford and Bryn Mawr jointly evaluated wireless vendors with Aruba being selected as the vendor of choice as 802.11n is deployed on campus. Bryn Mawr is not currently planning to purchase any Aruba product during this fiscal year. We currently have 6300 DHCP leases in use. This indicates that there are at least 6300 unique Network adapters routinely on campus within a given 6-hour lease period. It is likely that multiple leases are in use by individual machine as laptops have both wired and wireless network adapters. It also reflects the increase in use of iPhones and other personal electronics that support wireless networking. There are 6000 active Ethernet outlets in use on campus.