

**Information Technology Plan
2007 – 2008**



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INFORMATION TECHNOLOGY OVERVIEW

Chapter One

OVERVIEW OF INFORMATION TECHNOLOGY PLANNING PROCESS

Producing the Information Technology Plan helps develop a systematic strategy to address the rapidly changing technological needs of students, faculty and staff at Austin Peay State University. This document is linked with the university's formal strategic plan as well as the budget process and is submitted to the Tennessee Board of Regents with the university's annual budget.

The Office of Information Technology develops the Information Technology Plan with input from the Strategic Planning Committee and the Technology Committee.

The Strategic Planning Committee consists of individuals who broadly represent the university's faculty, administration, staff, students and community. The purpose of the committee is to develop the university's five-year comprehensive strategic plan and to advise on all aspects of institutional planning.

The Technology Committee serves as the university's primary focus for the dissemination of information on technology and for the distribution and implementation of the means for technologically enhanced teaching and learning. Responsibilities of the Technology Committee include reviewing, establishing, and maintaining the goals, objectives, strategies and activities in the university's Five Year Strategic Plan so that they will lead the university to a place of technological excellence and accessibility. Another responsibility of the Technology Committee is to make recommendations to the President regarding the use of the technology access fees (TAF) that are consistent with the university's Technology Plan, Five Year Strategic Plan and the Tennessee Board of Regents Guidelines for Technology Access Fees. Membership of the Technology Committee is composed of four faculty members, four staff members, one student, one Dean, the Director of Information Technology, the Vice President for Finance and Administration, the Assistant Vice President for Finance and Administration and four alternates.

DEVELOPMENT OF THE INFORMATION TECHNOLOGY PLAN

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AUSTIN PEAY STATE UNIVERSITY

STATEMENT OF VISION AND MISSION

VISION

Austin Peay State University's vision is to create a collaborative, integrative learning community, instilling in students habits of critical inquiry as they gain knowledge, skills, and values for life and work in a global society.

MISSION

Austin Peay State University is a comprehensive university committed to raising the educational attainment of citizenry, developing programs and services that address regional needs, and providing collaborative opportunities that connect university expertise with private and public resources. Collectively, these endeavors contribute significantly to the intellectual, economic, social, physical, and cultural development of the region. APSU prepares students to be engaged and productive citizens, while recognizing that society and marketplace require global awareness and continuous learning. This mission is accomplished by:

- Offering undergraduate, graduate, and student support programs designed to promote critical thinking, communication skills, creativity, and leadership;
- Expanding access opportunities and services to traditional and nontraditional students, including the use of multiple delivery systems, flexible scheduling, and satellite locations;
- Promoting equal access, diversity, an appreciation of all cultures, and respect for all persons;
- Serving the military community at Fort Campbell through complete academic programs;
- Providing academic services that support student persistence to graduation;
- Fostering a positive campus environment that encourages active participation in university life; and
- Developing programs (credit and noncredit), conducting research, and providing services that contribute significantly to the quality of life, learning, and workforce development needs of the region.

AUSTIN PEAY STATE UNIVERSITY STRATEGIC PLAN FOR 2005 - 2010

TBR Leadership Priority

The Tennessee Board of Regents System will provide leadership in promoting educational aspirations and accomplishments for Tennesseans that further economic development and improve the quality of life for the citizens of the State.

1.0 TBR Leadership Goal

The TBR System and its institutions will promote, document, and communicate to all stakeholders the value of higher education's outreach, educational, and research capacity to the economic development and quality of life for the citizens of the State.

1.1 Goal: APSU Leadership

APSU will disseminate to all stakeholders information that documents the benefits of its programs and services and their contribution to the state's economic and quality of life of its citizens.

1.1.1 Objective: APSU K-12 System Partnerships

APSU will work with schools in the region to facilitate the learning process and transition from K-12 to college. Specific activities and initiatives:

1. Develop intervention programs that target math, reading, and writing deficiencies in the junior year of high school.
2. Strengthen and streamline its teacher education program to ensure future teachers are equipped with the skills and values to improve success of K-12 students.
3. Expand and coordinate efforts to encourage college participation rates in the region (e.g. AVIDS, H.S Upward Bound, etc.).

1.1.2 Objective: APSU Preparation of Students

APSU will prepare students for a global society through the integration of critical thinking, communication, leadership, and creativity across the curriculum.

Specific activities and initiatives:

1. Increase emphasis on international affairs, study abroad in multiple majors and multi-cultural awareness.
2. Adjusted balance in theory and application in all disciplines, preparing students to apply new knowledge and skills in future situations and settings through a strengthened emphasis on practicum and experiential opportunities.
3. Emphasis on civic engagement and social responsibility.
4. Create a plan for academic excellence that will purposefully and forcefully assess and strengthen quality of learning experience and improve student success.
5. Emphasize integrated out of classroom learning experiences and strengthen the aforementioned learning outcomes.

1.1.3 Objective: APSU Regional Development Initiatives

APSU will develop programs and services that contribute significantly to the development of the region. Specific activities and initiatives:

1. Develop and revise the curricula to meet changing and emerging workforce needs;
2. Exhibit civic responsibility to improve the welfare, quality of life and well-being of both campus and community residents (volunteering, cultural events, athletic events, etc.);
3. Increase cooperative efforts and partnerships with local business, industry, and education;
4. Become a national model for homeland security education and training through expansion and development of its Institute for Global Security Studies.

1.1.4 Objective: APSU Technological Leadership

APSU will prepare students and exhibit best practices for ongoing technological evolution. Specific activities and initiatives:

1. Continue and expand emphasis on technology infrastructure and innovative use of teaching, learning and service;
2. Highlight discipline-specific efforts to use cutting-edge technology.

TBR Access Priority

The Tennessee Board of Regents System will strategically provide access to higher education to an increasingly diverse population.

2.0 TBR Access Goal

The TBR System and its institutions will demonstrate commitment to enhancing the rate and diversity of participation in higher education by Tennesseans.

2.1 Goal: APSU Access to Learning

APSU will demonstrate its commitment to increasing the participation rates for citizens of diverse backgrounds and will promote equal access, diversity, and appreciation of all cultures, and respect for all persons.

2.1.1 Objective: APSU Access Opportunities

APSU will expand access opportunities and services to traditional and non-traditional students, including the use of multiple delivery systems, flexible scheduling, and satellite locations. Specific activities and initiatives:

1. Expand the number of: "2+2 agreements" with community colleges, accelerated degree programs, night and weekend programs; and off-campus programs.

2.1.2 Objective: APSU Minority Recruitment and Retention

APSU will continue its minority recruitment and retention efforts for African Americans and expand these efforts to include other minorities with special emphasis on Hispanic/Latino and Asian students. Specific activities and initiatives:

1. Increase outreach activities to recruit and serve the growing minority populations in Tennessee;
2. Continue implementing the initiatives of the Minority Retention plan related to recruitment and retention as outline in the Quality Enhancement Plan.

2.1.3 Objective: APSU Admissions and Recruitment

APSU will strengthen admission standards and continue to expand the university's geographic reach in attracting first-time freshmen and transfers. Specific activities and initiatives:

1. Continue enrollment growth trends and geographic reach while increasing the quality of the student body;
2. Attain optimal enrollment based on revised and more selective admissions policies while retaining access and ensuring success of underprepared students through conditional admission strategies.

2.1.4 Objective: APSU Access for Military Population

APSU will continue to serve the military community at Fort Campbell through relevant and comprehensive academic degree programs. Specific activities and initiatives:

1. Work toward acceptance into e-Army U;
2. Assure continued and convenient access for soldiers onsite at Fort Campbell through replacement of World War II buildings slated to be demolished prior to 2010.

TBR Quality Priority

The Tennessee Board of Regents System will be accountable for the quality of programs and services in a changing and increasingly global educational market.

3.0 TBR Quality Goal

The TBR System and its institutions will define, monitor, improve, and communicate the quality of programs and services.

3.1 Goal: APSU Quality

APSU will systematically assess the quality of its programs and services and will engage in continuous improvement, demonstrating accountability to internal and external constituents.

3.1.1 Objective: APSU Excellence

APSU will promote and celebrate excellence in teaching, learning, and service. Specific activities and initiatives:

1. Institute regular and formal evaluations of all programs and services;
2. Review and refine the post-tenure review process;
3. Design and implement incentives to encourage excellence in teaching, encourage research and grant development, and provide faculty recognition activities.

3.1.2 Objective: APSU Faculty Recruitment and Retention

APSU will develop programs and services that enhance the institution's capacity to recruit and retain high-quality faculty. Specific activities and initiatives:

1. Establish a campus-wide mentoring program for tenure-track faculty (with special emphasis on minority faculty) including teaching and learning methodologies and strategies for student success;
2. Create a Center for Teaching and Learning Excellence to facilitate faculty development in methodologies and technologies that support learner-centered instruction;
3. Place a priority on compensation, recognition, and support for professional growth for all faculty and staff.

3.1.3 Objective: APSU Implementation of QEP

APSU will continue the implementation of the Quality Enhancement Plan which further develops or establishes academic support services that support student learning and persistence to graduation. Specific activities and initiatives:

1. Create easy access to accurate and timely advising that is consistent throughout students' collegiate experience through optimal delivery systems, including face-to-face and multiple media delivery systems;
2. Continue implementation of the Freshman Year Experience initiatives;
3. Continue to work toward increasing retention and graduation rates by 10 percent.

TBR Resourcefulness Priority

The Tennessee Board of Regents System will meet fiscal constraints through strategic development and management of financial, physical, human, and information resources as well as through entrepreneurial and innovative strategies built on collaboration in an increasingly deregulated environment.

4.0 TBR Resourcefulness Goal

The TBR System and its institutions will address fiscal constraints by advocating for appropriate levels of state support and by managing resources, benchmarking best practices, developing and documenting other sources of support, pursuing collaborative and entrepreneurial initiatives, and removing obstacles to competitiveness.

4.1 Goal: APSU Resourcefulness

APSU will contribute to the system's advocacy for appropriate levels of state support, will actively benchmark best practices, and will effectively manage its resources through internal and external initiatives, emphasizing collaborations and partnerships.

4.1.1 Objective: APSU Benchmarking

APSU will employ benchmarking tools in resource and management decisions. Specific activities and initiatives:

1. Continue implementation of the approved APSU Compensation Plan;
2. Establish peer benchmarks in academic program production, individual unit performance, resources availability, and workload comparisons;
3. Establish benchmarks for personnel and salary information.

4.1.2 Objective: APSU External Funding

APSU will build university support at local and national levels resulting in increased external giving and grant development. Specific activities and initiatives:

1. Progressively increase grant development and grant funding on an annual basis;
2. Progressively increase fundraising on an annual basis;
3. Increase pledges for planned/estate gifts by end of the planning period;
4. Complete a new campus master plan and promote state support and/or private funding for new and renovated facilities.

TECHNOLOGY COMMITTEE STATEMENT OF MISSION

The Technology Committee of Austin Peay State University serves as the institution's primary focus for the dissemination of information about technology and for the distribution and implementation of the means for technologically enhanced teaching and learning.

The Technology Committee supports delivery of technology for teaching and learning through technology centers, enhanced classrooms and other instructional delivery systems, library information systems, and access to intranet, Internet, and World Wide Web resources. The Technology Committee also supports the enhanced communication and services possible through technological innovation.

TECHNOLOGY COMMITTEE GOALS

The Technology Committee will promote and actively oversee the creation of a technologically unified campus through achievement of the following goals.

1. Integrate information resources across the university. At a minimum, these resources should include:
 - a. Admission application, student registration, interactive catalog, financial aid;
 - b. Course offerings including distance learning and extended education;
 - c. Course materials designed to take advantage of the unique abilities of electronic technology;
 - d. Library holdings (bound volumes, reference, and periodicals), reserve lists, books on order, new and recent acquisitions, media center services available;
 - e. Availability of grants and other forms of aid for faculty and student research;
 - f. Human resource management, job listings, on-line job applications;
 - g. Financial accounting systems;
 - h. Institutional policies and procedures;
 - i. Facilities planning, a calendar of activities, meetings, and events
 - j. Institutional, departmental, and alumni email, directories, and newsletters;
 - k. Student resource access and accountability through an institutional debit card system;
 - l. Cafeteria and food court services, menus, hours, meal and meal ticket costs;
 - m. Security access to buildings and restricted use laboratories and facilities.
2. Integrate technology resources to insure that all members of the university community can use information resources through a common interface.
 - a. Upgrade or replace all university information resources to meet a common standard.
 - b. Insure a regular schedule of repair and replacement of technology resources, including infrastructure elements, hardware, and software.
 - c. Increase the number and speed of access points to university information resources from off-campus, including access to newer graphical interface-based information and services.
 - d. Increase access to university information resources through third party sources such as America Online and local ISPs.

3. Enhance information content and interactivity of university resources by:
 - a. Reducing dependence on paper based communications and forms;
 - b. Increasing the use of interactive electronic formats;
 - c. Reducing dependence on text-only, non-interactive electronic resources;
 - d. Increasing the ability to search electronically across university information resources.

4. Educate all members of the university community in the skills and knowledge necessary to access and make use of the university's information resources.
 - a. Convene a committee of students, faculty, and other interested parties to create new internal standards for computer literacy to be incorporated into courses that meet the state's computer literacy requirement.
 - b. Provide a variety of training media ranging from workshops to individual self-help guides that will meet the time and training needs of university personnel.
 - c. Advocate an emphasis on technology training to personnel supervisors across the university.
 - d. Promote a plan to provide incentives for university personnel to obtain and maintain the training necessary to optimize their use of university information and technology resources.
 - e. Promote the training of faculty in the development of courses and materials to be delivered to remote sites using interactive, real-time distance learning technology.
 - f. Create and maintain an easily accessible central guide for using university technology resources and a central point for technology assistance.
 - g. Recommend to the university that it take the position, embodied in policy, that university information resources are intended for teaching, learning, and research. The use of university technology resources for personal business and entertainment should be discouraged.

5. Extend access to university information resources to members of the university community both on- and off-campus.
 - a. Increase the number of access points to technology-based information services throughout the university, including but not limited to classrooms, offices and workrooms, student support and activity facilities, the Woodward library, computer labs, departmental and residence hall computer clusters.
 - b. Promote the development of courses that are delivered to remote sites through the use of interactive, real-time distance learning technology.

OFFICE OF INFORMATION TECHNOLOGY (OIT) STATEMENT OF MISSION

The mission of the Office of Information Technology is to enable and enhance essential university processes using technology. This includes taking a progressive stance in providing students, faculty and staff with reliable technology tools.

OFFICE OF INFORMATION TECHNOLOGY CORE VALUES

Resourcefulness

Addressing university community technology initiatives through the use of ingenuity, imagination, and innovation

Security

Protecting university technology and information by being ever vigilant against internal and external threats

Service

Providing the university community with dependable, responsible and accurate technology support

Integrity

Cultivating an environment of respect within the university through honest and trustworthy interactions

OFFICE OF INFORMATION TECHNOLOGY 2007-2008 OBJECTIVES

1. Upgrade for Exchange 2003 to Exchange 2007
2. Implement Banner Human Resources, Finance, Advancement, Student, Workflow, ODS/EDW, and Discoverer.
3. Roll out integrated messaging to faculty and staff.
4. Implement student logons and home directories.
5. Complete the coverage of the campus wireless network to include all buildings not currently covered, complete coverage within all buildings with partial coverage, and complete outside coverage to all main campus property to common areas and parking lots.

6. Transition local learning management systems from Blackboard and WebCT to local Luminis Course Studio and hosted Desire2Learn systems.
7. Convert campus computer inventory into OIT computer inventory through the use of bar-coding technology.

OFFICE OF INFORMATION TECHNOLOGY ANALYSIS OF CURRENT ENVIRONMENT

FORCES IN THE ENVIRONMENT IMPACTING IMPLEMENTATION OF TECHNOLOGY PLAN

Along with other public higher education institutions, Austin Peay State University faces a number of challenges related to the implementation of technology initiatives. Some of the major factors impacting these implementations are described below:

Opportunities for Information Technology

- Relocate the campus helpdesk to be in a better position to serve the university community and to promote the Information Technology department.
- Improve student, staff and faculty experience with the university through the successful implementation of Banner.
- Work closely with other TBR institutions for the exchange of ideas.

Threats to Information Technology

- There are non-competitive salaries on campus, with inequities between administration, classified and professional staff.
- As the university community grows, threats from viruses, spyware, spam and data security breaches due to employee error and malicious intrusion may lead to lowered network and computing resources security. A major contributing factor to this threat is the lack of standard procedures for applying updates, archiving log files and backing up data.
- There is the risk of a decline in services due to the continuing changes in technology and a rapidly growing university community combined with the understaffing of the Information Technology (IT) department. This risk is compounded by the lack of overlap in staff knowledge and skills in IT as well as a lack of adequate IT staff training.

STRENGTHS AND WEAKNESSES OF INFORMATION TECHNOLOGY

Developing a support mechanism for technology is a complex process. Technology changes rapidly and the support mechanism must change rapidly to keep pace. As a result, policies, procedures, systems, and even the mind-set of how projects are approached are often revised before the projects are completed. Upon analysis, this process often yields strengths and weaknesses in how the university manages complexity.

Following are some of the strengths and weaknesses identified by the Information Technology staff of the department.

Strengths of Information Technology

- Information Technology staff is professional, Knowledgeable, experienced, cooperative and dedicated.
- Information Technology staff is motivated and flexible, willing to take on additional responsibilities, learn new programs and technologies, and assist the university, TBR, and TBR institutions.
- Information Technology staff has a good working relationship with the campus community, TBR, and other universities.
- Customer satisfaction is a priority for Information Technology staff.

Weaknesses of Information Technology

- Information Technology staff are spread throughout the campus with poor office space. This situation impacts inter-departmental communications.
- The Information Technology department is under-staffed; staff is not cross-trained. Too few staff manages too many resources.
- A lack of respect from other departments creates a poor image of the Information Technology department.
- Staff pay is lower than market, with no in-house incentives.

ORGANIZATION OF INFORMATION TECHNOLOGY

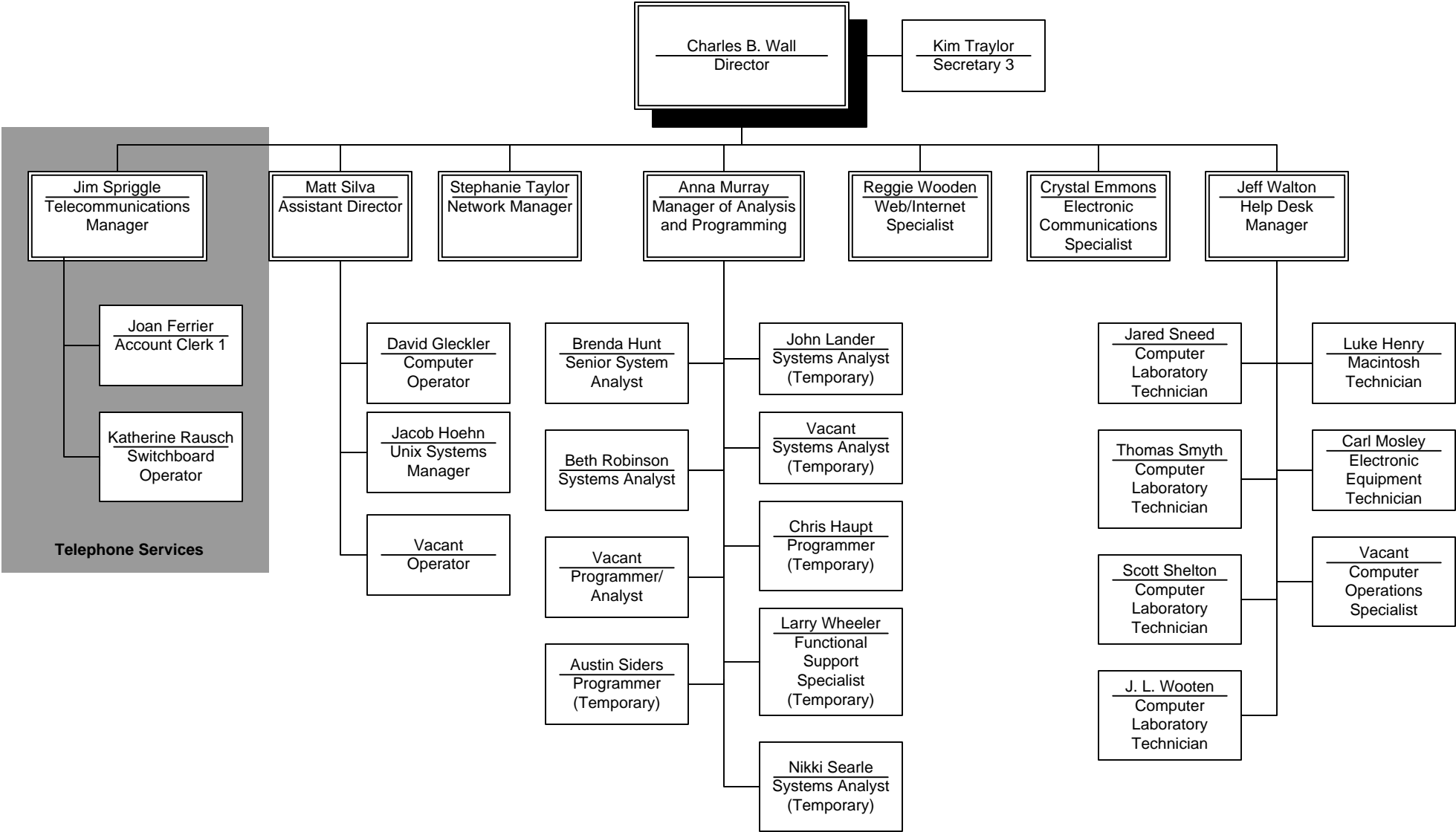
The Office of Information Technology (OIT) provides support for both administrative and academic computing. OIT is supervised by a Director and guided by the Technology Committee. The Office of Information Technology reports directly to the Vice President of Finance and Administration along with the offices of Budget and Planning, Business Office, Physical Plant, Post Office, Purchasing and Public Safety. Within the Office of Information Technology, an Assistant Director, Telecommunications Manager, Network Services Manager, Manager of Analysis and Programming, Web/Internet Specialist, Help Desk Manager, and Electronic Communications Specialist report to the OIT Director.

An organization chart for the Office of Information Technology is shown on page 20 as figure 1.

Organizational Chart

Office of Information Technology (OIT)

July 1, 2007



CURRENT ENVIRONMENT, ACCOMPLISHMENTS AND DIRECTION

Chapter Two

NETWORK INFRASTRUCTURE

The university completed a major network infrastructure upgrade and dismantled the legacy network infrastructure during the 2001-2002 fiscal year. Beginning in December 2000, three Cisco 6509 core switch/routers were installed in Browning, Harned Hall and the Sundquist Science Complex. These three devices provide the high speed 4 gigabit core infrastructure for the university. Every academic and administrative building on the university's campus as well as Fort Campbell facilities and the downtown Extended Education facility have switched Cisco network electronics installed in one or more communications closets. Every building is connected to one of the three core switches as determined by their fiber path or other access mode. This network provides gigabit speed access between all university buildings and 100 megabit switched access from workstations, servers and printers to the building switched network electronics. As well as providing increased network speed, the new network infrastructure segments campus traffic eliminating unnecessary broadcast traffic between buildings and sites.

Along with the upgrade, the university implemented several other significant upgrades to the campus network technology. A redundant Cisco PIX firewall was installed between the campus network and the Internet which provided increased security from outside attacks on campus computer resources. A Network Address Translator (NAT) was implemented as part of the Cisco PIX firewall. This device allows the university to use a private network addressing scheme, eliminating the dependence on increasingly scarce TCP/IP addresses provided by the Internet. All internal campus network traffic uses private addressing. When a workstation or server needs to access a resource on the Internet, the NAT dynamically assigns an Internet provided TCP/IP address to the device needing Internet access for the duration of that session. Campus resources needing to be accessed by users on the Internet, such as e-mail and web servers, have a permanently assigned Internet address as well as a private address. The use of NAT enhances the ability of the new infrastructure to segment network traffic by providing enough TCP/IP subnets to assign a class B TCP/IP subnet per building. Private addressing increases campus network security as it is much less possible for a hacker outside the campus network to access a device using a private address only.

Another upgrade to the campus network technology occurring with the equipment upgrade was the implementation of two servers providing dynamic TCP/IP addressing to workstations, eliminating the need to statically assign TCP/IP addresses to every workstation on campus. Dynamic addressing also eliminates the network difficulty caused when two workstations inadvertently receive the same TCP/IP address. And, should the university decide to change the TCP/IP structure, changes would be made in the two servers providing TCP/IP addresses rather than requiring a technician to visit each of approximately 1,900 workstations on campus.

The university installed a Packeteer packetshaper during the 2002 – 2003 fiscal year. The packetshaper was installed on the campus infrastructure between the campus firewall and the Internet router to allow for efficient management of the Internet bandwidth.

Beginning in the 2002 – 2003 fiscal year and completed during the 2003-2004 fiscal year, the University connected all student residences to the campus infrastructure with switched Cisco network electronics. All student residents have the capability to connect to the campus infrastructure at the same level of access as academic and administrative users of the network.

During the 2003-2004 fiscal year, the university installed a firewall system between the residence hall network and the campus network to protect the campus network from virus attacks and other potential hack attacks emanating from student owned computers in the residence hall network. The university also upgraded the Internet bandwidth from 10 megabits per second to 16 megabits per second to accommodate the increased Internet use by the residence hall network. The university also installed a virtual private network (VPN) concentrator to provide outside access to the university network to university employees needing secure and encrypted access to internal network resources.

During the 2004-2005 fiscal year, the university replaced the external DNS services being provided by the remaining AlphaServer to answer Internet requests with two Dell PowerEdge 750 Windows 2003 servers. Also during this year, the university installed a Storage Area Network (SAN) for the new campus email system. As part of this project, the university's file servers were replaced with a new server participating in the SAN.

During the 2005-2006 fiscal year, the university replaced the campus print server with a redundant, load balanced clustered system as well as replacing one of the domain controllers and DNS/DHCP servers. The university was able to upgrade the campus T1 bandwidth link from 16 Mbs to 25Mbs. Also during this fiscal year, the university installed a new telephone system with Voice over IP (VoIP) capability. The telephone system infrastructure consists of three Cisco switches in a redundant fiber ring, one each in Browning, Shasteen, and Hand Village, with access mode connectivity to the campus data infrastructure occurring in Browning and Hand Village. Connectivity to the two campus remotes sites, Fort Campbell and downtown public square, were increased to 4 T1's and 2 T1's respectively, and these sites are currently using VoIP technology to provide phone and data access to the campus network.

During the 2006-2007 fiscal year, the university implemented an Intrusion Prevention System (IPS) and replaced the perimeter and residence halls firewalls with the installation of a Cisco ASA 5510 primary/failover system with IPS modules as well as a Cisco 4255 and two Cisco 4240 IPS appliances installed at each of the three Cisco 6509 core switch/routers. The university increased the Internet bandwidth through T1 to 45 Mbps and replaced the existing Packeteer Packshaper with a Packetshaper 7500. Other infrastructure projects that occurred during the 2006-2007 fiscal year included the replacement of 114 Cisco Catalyst 3548, 3524, and 3508 switches with the Cisco Catalyst 3560 Power Over Ethernet (POE) product line, the installation of a Cisco web cache appliance, the installation of a Cisco Wireless LAN Solution Engine (WLSE) appliance to manage the campus wireless infrastructure, the installation of the Cisco Clean Access system to provide network access control (NAC) for the residence hall network and the wireless network, and the replacement of one third of the UPS' supporting network electronics in building communication closets. Network equipment was also installed in the renovated McCord building and the newly built Foy Fitness Center during this fiscal year.

During the 2007-2008 fiscal year, the university plans to upgrade one of the three Cisco 6509 core switch/routers, upgrade the radius system for wireless and VPN authentication to redundant Cisco appliances, and upgrade the Internet bandwidth to 100 Mbps.

WIRELESS NETWORK

During the 2002–2003 fiscal year, the university completed three wireless pilot projects. Buildings that received wireless access to the campus network and the Internet through this project are the Library, the Sundquist Science Complex, and the Math and Computer Science area of Claxton. Access to the wireless network is provided with a Radius server doing MAC authentication. The library received four access points covering most of the building, the Sundquist Science Complex received 10 access points, covering the atrium area and several classrooms, and Claxton received 2 access points, covering the third floor mathematics and computer science area only.

During the 2004-2005 fiscal year, the university expanded the campus wireless network provide access to the University Center (10 access points), the Music/Mass Communication building (9 access points), Kimbrough (6 access points) and the remainder of Claxton (5 access points). Coverage to these buildings is essentially total, with particular attention to student gathering areas and classrooms. An access point was also installed in Archwood and three in Browning.

During the 2005-2006 fiscal year, the university upgraded the wireless access points installed during the 2002-2003 fiscal year to the 802.11g standard. This project increased the capability and speed of these devices to the same level as the devices installed during the 2004-2005 fiscal year. The university also installed wireless access to the remaining academic buildings on the campus. These buildings are: Browning (7 additional access points), McReynolds (6 access points), Clement (9 access points), outside the Book Store for courtyard access (1 access point), Dunn Center (15 access points), Harned (10 access points), Marks (4 access points) and Trahern (9 access points).

During the 2006-2007 fiscal year, the university installed 28 additional access points in the Sundquist Science Complex to provide coverage to the remainder of the building. Wireless access was also added to the renovated Marks building (22 access points) and the newly built Foy Fitness Center (13 access points). Wireless access points were placed in all residence hall lobbies, for a total of 13 additional access points. The Cisco Wireless LAN Solution Engine (WLSE) appliance was installed to provide central management for the university's wireless network.

Currently, the wireless network consists of 185 access points providing coverage in all academic buildings and many administrative buildings on the campus as well as some outside coverage in common areas and coverage in residence hall lobbies. During the 2007-2008 fiscal year, the university plans to complete the wireless coverage in all buildings, including several buildings that have no coverage, as well as complete the residence hall wireless coverage and provide more complete coverage of the outside green spaces and parking areas on the university's campus. The university also plans to convert the current wireless authentication system from MAC address authentication to an encrypted method that will utilize the Windows Active Directory (AD) database, requiring wireless users to authenticate with their AD username and password.

ADMINISTRATIVE SYSTEMS

In the 2006/2007 fiscal year, the university began the process of moving administrative systems to SunGardHE's Banner system. The Banner system currently consists of five v240, seven v440, and two v490 Sun Sunfire servers. In additions, these servers are supported by a Sun 6130 SAN array and a Sun tape backup system. Student, Human resources, Finance and Advancement run under the following configuration:

- Database Server: Sunfire v490, Solaris 9, Oracle 10g, Banner 7.3
- Core Applications Server: Sunfire v440, Solaris 9, Oracle 10g, Banner 7.3
- Self Services Server: Two Sunfire v440s, Solaris 9, Oracle 10g, Banner 7.3

The Oracle Discoverer reporting tool will run against an ODS/EDW system that is currently being evaluated for purchase. Hardware specifications are unknown at this time.

The SunGardHE's Student Information System (SIS) runs on an Alphaserver 4100 running OpenVMS 7.2. Registration and grading will continue using SIS for the summer 2007 semester with Banner ST beginning for fall 2007.

Six Dell Windows 2003 PowerEdge 1855 blade servers support the University's Touchnet Informations Systems applications. These applications include: Payment Gateway, Bill+ Payment Suite, Cashiering (to be installed), and Marketplace. These systems will be migrated to Touchenet Informations Systems' hosted solution during the 2007-2008 fiscal year. TouchNet Marketplace enables Austin Peay to build and operate secure, web-based shopping cart applications beginning with ticket sales for Advancement. The system connects buyers and sellers electronically, making it easy for students, parents, alumni, and the community to do business with the university. Another product, TouchNet Cashiering, is a comprehensive software application for accepting student payments and departmental deposits via checks, cash or credit cards. It integrates with campus ERP systems, modern Point-of-Sale devices and the TouchNet Payment Gateway system. A third product from Touchnet, eBill, provides an alternative to standing in line to pay bills by providing online reviews of billing history and fast, easy-to-use web interface payments.

Systems supporting the SunGardHE Plus Self Service modules reside on two Dell Windows 2003 servers (PowerEdge 1750 and PowerEdge 750). These modules are being phased out with the Banner Self-Service system; the employee functionality has been implemented on the Banner system, with Student and Faculty to be completed by fall 2007.

Local systems integrated with SunGardHE's SIS include cash receipts, degree application, admissions prospects, traffic fines, Student Health Services, Child Learning Center, university loans, instructional assessment, cost study, schedule preparation and others. Local systems integrated with Student Self Service include housing, direct deposit, university withdrawals, veteran affairs, loan check inquiry and others. Future plans will replace the local cash receipt system with TouchNet Cashiering. Student Self Service is enhanced with TouchNet Webcheck.

Local systems supporting the Physical Plant include inventory control, work orders, keys and physical facilities.

Local systems supporting Campus Police include parking decals, temporary decals, traffic warnings, and trespass warnings.

A menu system is in place on the Alphaserver 411 to allow users to process virtually all reports and system updates. Updates to the systems residing on the server are generally accomplished with transactions that are processed with the next batch processing cycle.

All local systems have been defined for the FOCUS reporting tool and a menu option is in place to allow users to develop and run their own reports.

The AlphaServer 2100 running OpenVMS 7.1, which was discontinued during the 2003-2004 fiscal year as the Academic System, was moved to the Sundquist Science Complex during the 2004-2005 fiscal year to be used as the disaster recovery administrative system if a catastrophic event destroys the existing administrative system.

ENTERPRISE RESOURCE PLANNING SYSTEM (ERP)

All Tennessee Board of Regents (TBR) institutions have used the SunGardHE Plus technology for their administrative software needs for a number of years. By participating in this model of executing the same administrative software systems on the same hardware platform, TBR has saved millions of dollars in software license fees, maintenance and training expenses. TBR institutions have benefited from a reliable and stable operating environment.

The administrative systems based on SunGardHE Plus technology is over 30 years old and no longer meets the information technology needs of the TBR institutions. The systems lack sufficient support for the availability, reporting, and data exchange requirements that TBR institutions are increasingly called upon to deliver. TBR institutions are also being asked to provide learning technology and student services on-line twenty-four hours a day, seven days a week. These systems cannot deliver this level of service. Finally, the SunGardHE Plus system will undoubtedly be phased out by SunGardHE within the next few years as more and more higher education customers migrate to relational database systems.

TBR and SunGardHE signed a new master agreement December 22, 2004 to migrate all TBR institutions from the Plus system to the Banner system as the next ERP system for the TBR system. This is expected to be a five year migration process for the TBR system with project migration costs associated with each year of the migration and recurring costs for each year thereafter. SUN was awarded the TBR hardware bid with a significant number of servers to be dedicated to the implementation of the Banner system.

TBR institutions are divided into cohorts for training and migration. The university is migrating and training with three other institutions as cohort 1B: East Tennessee State University (ETSU), Northeast State Technical Community College and Nashville State Technical Community College. All SunGardHE training is between the institutions with a majority of the training sites shared between Austin Peay State University and ETSU. For cohort 1B, Banner Human Resources (HR) was the first system implemented with a January 2006 "go-live" date. Banner Finance (FI) and Banner Advancement were live in July 2006. Banner Student (ST) is being implemented in several phases. Banner Admissions was implemented in September 2006, Banner Financial Aid in February 2007,

and students pre-registered for the Fall 2007 semester using Banner Self Service in April 2007.

The Banner systems are enhanced with various other products.

Evisions provides two products to enhance the Banner environment. Intellectcheck provides processing for Banner HR and FI checks and direct deposits/ FormFusion provides templates and tools by merging Banner reports and templates to produce special forms for Banner purchase orders, 1099 forms and W-2s. In the future, student bills and transcripts will also be created using these same tools.

AppWorx assists in building application, operating system, and database level interfaces. Utilizing these interfaces, AppWorx can run, monitor, and control Banner jobs. Also, AppWorx can communicate with the Banner database and execute queries against that database to pull values into the AppWorx environment for use in job parameters and job controls. Online Job Capture is a Banner and AppWorx interface that allows for a seamless environment. As part of this package, jobs that are submitted with the Banner jobsub forms are captured and controlled from the AppWorx environment. Beginning in August 2007, approximately 40 processes with over 600 individual steps will be automated.

CLEAN_Address() is a development component for easily verifying and standardizing global addresses for Banner applications. Addresses are verified real-time and batch. CLEAN_Address() saves on data-entry time, protects against fraud, reduces the costs of re-shipping, and allows duplicate address detection. This product was designed specifically for Oracle databases and provides pre-built interfaces for Banner. CLEAN_Address() will be implemented in September 2007 to assist all areas with address verification.

RMS is a web-based system which provides solutions to manage the campus Housing and Residence Life operation. RMS integrates with Banner through data extracts to provide access to all areas including Finance, Admissions and the Registrar. RMS was implemented in March 2007 along with Banner Student.

Lastly, SunGardHE e-Print Reports is a web-based report distribution and archiving system. The university uses e-Print to distribute reports across the campus. Each Banner area has a separate repository for the reports to be uploaded from the Banner systems to e-Print. Additional archiving of reports will provide a future reference for information currently available through the Alphaserver 4100.

LUMINIS PORTAL AND CONTENT MANAGEMENT SYSTEM

Along with the SunGardHE Banner implementation, the university is also implementing the Luminis Portal and Content Management System (CMS). Luminis is a vendor supplied web portal that integrates disparate web systems into one interface. The Luminis systems are highly integrated with the university's Banner implementation. These applications reside on five Sun servers running Solaris 9:

- Core: Sunfire V490
- Mail: Sunfire V440
- Content: Sunfire V240
- Studio: Sunfire V240
- Test: Sunfire V490

The Luminis Portal will allow centralized access to various resources through a single sign-on. In addition to being able to access shares resources such as library databases, discussion groups, movie schedules, Banner Self Service, and campus announcements and events, employees will have easy access to Outlook Web Access, Peaybay and Banner. Students will have access to student email, online courses and registration information.

The CMS separates content creation from the design of web pages. Using this system, the Site Manager component can enforce design templates that apply to all sites located on the CMS server. Content creators can then modify the information contains within those web pages without affecting the design and flow of that site.

WINDOWS DOMAINS

The University migrated the established Windows NT 4.0 Domain to a Windows 2000 domain (APSU.EDU) during the 2002-2003 fiscal year. The established LIBRARY domain was also migrated into the Windows 2000 domain as a child domain (ILIB.APSU.EDU) of APSU.EDU. The university upgraded the Windows 2000 domain to a Windows 2003 domain during the 2004-2005 fiscal year. This upgrade was not as complex as the NT to Windows 2000 migration. As part of the upgrade, a second domain controller was installed and the internal DNS servers were upgraded to be domain controllers as well as active-directory integrated.

By migrating over to a Windows 200X environment, the university gained a multitude of features not accessible through a NT 4.0 environment. The Windows 200X domain uses Active Directory to compile, store, and maintain all of the information contained within the domain. Active Directory allows certain selected users to create or modify different users and devices easily with a minimum of confusion and time. Features such as the management of users, groups, and computers, the ability to implement policies and permissions on an infrastructure-wide scale as well as on the local scale, remote management of local system resources, better file and printer sharing management, and a stable infrastructure with less possibility of down time are just some of the many features that a Windows 200X environment offers the university.

EMAIL SYSTEMS

The university upgraded to Exchange 2003, running on a clustered Windows 2003 server with a connected SAN, during the 2004-2005 fiscal year. This system is the university's primary email system. The system consists of an active/passive cluster on two servers as well as two load balanced servers used at the gateway for spam/virus scanning and web mail. Two spam filter appliances were purchased during the summer of 2006 which reside at the university's network perimeter.

APBREXC – Virtual Exchange cluster name for the physical machines: apbrec1 and apbrec2. This name automatically fails over to the other physical machine if an exchange service fails on the currently active machine. This name is not routed through the firewall, but instead relies on the Spam filter appliances (below) to forward incoming mail and the Gateway servers (below) to forward Outlook Web Access (OWA) requests to it.

- APBREC1 (Dell PowerEdge 1750) - Physical Exchange Computer #1. Sits behind apbrexc.apsu.edu and awaits fail-over when its counterpart is turned off or crashes. Only one machine of two is active at any given point in time.
- APBREC2 (Dell PowerEdge 1750) - Physical Exchange Computer #2. Sits behind apbrexc.apsu.edu and awaits fail-over when its counterpart is turned off or crashes. Only one machine of 2 is active at any given point in time.

APBRIMV – Virtual spam filter “load balancing” name for apbrim1 and apbrim2. These are the first hop for Internet mail coming into the university. Mail is scanned for spam using a variety of techniques. IP addresses from the email header are analyzed against the IronMail vendor’s proprietary database of Internet email server history, TrustedSource. Mail is also scanned for viruses using Authenium antivirus technology. After processing, Mail is routed to the second set of gateway machine by way of the virtual name APBRGWC.

- APBRIM1 (Model 2100 IronMail Appliance) – Spam Filter Appliance #1. Handles approximately ½ (or all if the other appliance is off or has crashed) of all inbound Internet email by way of DNS “round robin” technology.
- APBRIM2 (Model 2100 IronMail Appliance) – Spam Filter Appliance 21. Handles approximately ½ (or all if the other appliance is off or has crashed) of all inbound Internet email by way of DNS “round robin” technology.

APBRGWC – Virtual Gateway “load Balancing” name for apbrgc1 and apbrgc2. These computers scan all inbound Internet email for viruses, spam and relays using Symantec for SMTP Gateway software. These computers also handle Outlook Web Access (OWA) and Outlook Mobile Access (OMA) requests.

- APBRGC1 (Dell PowerEdge 1850) – Physical Gateway Computer #1. Handles approximately ½ (or all if the other server is off or has crashed) of all inbound Internet email and OWA, OMA requests.
- APBRGC2 (Dell PowerEdge 1850) – Physical Gateway Computer #2. Handles approximately ½ (or all if the other server is off or has crashed) of all inbound Internet email and OWA, OMA requests.

The two physical Exchange servers share a single Storage Area Network (SAN) disk array where the central email database and log files are kept. This allows maintenance to be performed on one Exchange server without impacting mail service to the university. If the active server fails over to the passive server, Exchange users may see their connection drop for only five to ten seconds before being automatically restored. The Exchange system maintains approximately 1,200 mailboxes. Supported client software includes Microsoft Outlook 2000/2002/2003, Microsoft Entourage, Outlook Web Access and Outlook Mobile Access.

Students at the university are currently using the APMail email server to access their email. This is a graphical user interface (GUI) email system with point and click features, that allows the students the ability to read and insert attachments into their email. This system has been integrated with the Exchange server's LDAP (Lightweight Directory Access Protocol), giving users in both APMail and Exchange the ability to search directories on either email system. The APMail software resides on a Dell PowerEdge 6450 running Windows 2003 server and participating on the STUDENT.APSU.EDU child domain. The APMail database contains approximately 16,000 student mailboxes, accounting for 100% of the student e-mail database.

The university plans to integrate the student mail system into the Luminis portal. The Luminis portal provides integration for students with Banner applications. The Banner/Luminis project is ongoing, and slated for completion in 2007. See "Luminis Implementation" on page 28 for additional information.

The university implemented a ListServ server running the L-Soft software, during the 2003-2004 fiscal year. The system resides on a Dell PowerEdge 1855 blade server running Windows 2003 server which was placed into service in 2006 and is participating in the APSU.EDU domain. Currently there are over ten active lists with the expectation that more lists will be added. This system accounts for 100% of the lists maintained by the university. The university plans to replace the ListServ hardware and software during the 2006-2007 fiscal year.

WEB SYSTEMS

The university's primary web server system is currently installed on an active/passive Windows 2003 IIS 6.0 cluster. The cluster servers are two Dell PowerEdge 1855 blade servers that are members of the APSU.EDU domain. The two servers will share data storage by utilizing the storage area network (SAN). This system supports the official Austin Peay web pages as well as departmental, faculty and staff web pages. The system houses static HTML code as well as dynamic information, database driven web pages, interactive maps, secured, encrypted and/or validated web pages and other high-level web page applications. This system has been in production since 2006

In addition to the official university server, there are web servers located in various places around campus maintained by the departments that sponsor them. Departments with separate web servers include the Geographical Information Systems department, Communications and Theater, and the Library.

The use of the campus web systems continually grows as more areas of the university discover the advantages of moving some of their tasks to an online environment. Some successful examples are:

- Human Resources Application for Employment – Potential employees can now apply online. Using the online application, Human Resources can manage the list of employee positions published online as well as search and print both current and past applications for current and past positions. The system is expected to move to a more robust reporting system as the application has a relational database at its core.
- Human Resources Employee Clearance Form – Various offices around campus can view and clear a departing employee's status for their area using an online application. If the office does not clear an employee, a reason can be given

- instead. The employee is also able to log into the clearance application and determine the offices they still need to visit and what they need to do to clear that particular area. The employee can also provide the university with forwarding information, a new email address and choose how to have their vacation/sick leave balance paid.
- Institutional Effectiveness Tracking System (IETS) – Departments can use this system to tie their departmental objectives to the strategic objectives of the university. The system also allows a department to enter relevant information such as department chair, contact information, mission statement, books and publications, and office location. At year end, departments can report on goals. This data will be used to aid in SACS accreditation.
 - Homecoming Queen and King / SGA Online Election System - Each year, students can anonymously vote for their SGA representatives and the Homecoming Queen and King using this online system. The first year this system was available showed a dramatic increase in SGA participation.
 - Employee Incentive Program (“PeayBay”) – Employees can log into a web interface and assign points to other employees as a thank you for work related assistance. Twice a year, employees can then spend their points in an online auction system for prizes.
 - Housing Incident Reporting System – Residence assistants now report dorm room incidents using an online interface. This allows events to be reported in the middle of the night and on weekends immediately after they occur. Housing employees can then log on, review and comment on incidents.

Using these systems, savings are realized in paper and printing costs, travel time and the efficiency of interdepartmental communication.

LEARNING MANAGEMENT SYSTEMS

APSU Online

The Tennessee Board of Regents (TBR) will be migrating all institutions in the system to the use of the hosted Desire2Learn learning management system. This transition is expected to occur by January 2008.

Blackboard version 6 is currently used to deliver many of the university’s locally offered online courses. It is used to offer both online accredited and web-enhanced courses over the Internet through the university’s network. This version of the software allows the university to divide the processing between two servers. One server is a Dell PowerEdge 1850 running Windows 2003 and participating in the APSU.EDU domain. This computer serves as the web delivery/application server. The second server is a Dell PowerEdge 6850 running Windows 2003 and SQL Server 2000 as well as participating in the APSU.EDU domain. This server works in tandem with the application server to accomplish the back-end database needs of the Blackboard Learning Management System (LMS). Due to the TBR system-wide switch to Desire2Learn, the Blackboard system will be decommissioned in January 2008.

The university has a local installation of WebCT on a Dell PowerEdge 2650 running Windows 2000 and participating in the APSU.EDU domain. The addition of WebCT to the university’s complement of tools has allowed faculty to create courses that more closely match courses created for the TBR’s Regents Online Degree Program (RODP). Due to the

TBR system-wide switch to Desire2Learn, the WebCT system will be decommissioned in January 2008.

RODP

The university is participating in the Tennessee Board of Regents' (TBR) Regents Online Degree Program (RODP). This program transparently offers online courses to students enrolled in any TBR institution. RODP is a cooperative effort where provided courses are shared among the participating institutions. In June 2007, RODP courses were moved to the hosted Desire2Learn platform.

WOODWARD LIBRARY SYSTEM

Woodward Library is a multi-function facility that provides digital as well as traditional library services; serves student computing needs as the extended hours lab with 100 computers split between the Library Instruction Room (LIR) and InfoCommons, and has 10 circulating laptop computers available for student use with wireless access to the Internet; provides university students, faculty and staff with 24-hour access to essential electronic bibliographic database services; and personalized electronic reference service by library faculty and staff.

The library building, which was built in 1968 and renovated in 1985, is inadequate for the technological needs of today's Woodward Library. Facilities will need to be enhanced to accommodate collaboration and group learning activities. Funding will be required to upgrade wiring and electrical infrastructure and for the acquisition of new technology.

The library manages and maintains the lib.apsu.edu child domain consisting of eleven servers providing web services, database services, authentication services, file and print services, library specific accounts, domain controllers, and the Horizon integrated library management system and information portal. Two new domain controllers, an authentication server and a web-based digital image server approved for purchase and put into service during the summer of 2006. The InfoCommons area was expanded in August 2006 with 30 additional computers transferred from the former Clement 121 extended hours computer lab. Twenty more TAF funded computers were allocated to the InfoCommons area in December 2006 and funding was provided for computer carrels and additional data wiring. During the 2007-2008 fiscal year, the library plans to replace the current obsolete print server with two print servers, one dedicated to student printing and the other dedicated to staff printing. To improve management of student computing resources, the library is planning on implementing a PC reservation system summer 2007. The library is also planning on implementing a hosted web-based wireless printing system that will interface with the VendPrint print management system already in use. Approximately 60 InfoCommons computers are scheduled to be replaced with new computers during summer 2007.

The library serves student computing needs with 24 computers in the LIR and 76 computers in the InfoCommons area. The LIR is an instructional and general purpose lab which is open 90% of the time as an open computer lab with the remaining time uses as a classroom. The library was designated the university's extended hours lab in September 2007 and since then has remained open 1-7 hours a week. Software installed on all library student computers includes Windows XP, Office 2003, Minitab, and Microsoft Visual Studio Express. In addition, software supporting Nursing, Chemistry, Developmental Math, Computer Science and Physics is installed on all library student computers. Academic departments are encouraged to furnish the library with licensed software they

wish to have installed on library student computers. During summer 2007, Office 2007 will be installed on all LIR and InfoCommons computers.

The library web is the portal through which all electronic services are accessed. These services include access to library materials such as electronic databases, periodicals, videotapes, selected web sites, print and electronic books, and document delivery services using ILLiad. Electronic delivery of articles was implemented using ILLiad during summer 2006. Felix G. Cat is the web based user interface to the library's cataloged collection. The library currently provides patrons with access to approximately 140 subscription databases, more than half of which are full text. The library is planning to add additional subscription databases during the 2007-2008 fiscal year.

The Horizon integrated library system (ILS) has been in service since 1995. The Horizon system, both hardware and software, has been upgraded numerous times since the initial installation. Horizon 7.3 is the current version of the ILS and HIP 3.04 is the current version of the Horizon Information Portal (HIP). Some server components supporting Horizon are approaching end-of-life and are awaiting the Horizon/HIP 8.0 upgrade. Horizon/HIP 8.0 is a completely new system, written from the ground up, running on Oracle or DB2, and requires new hardware platforms to support the database, business logic, web-based user interface, and reporting system. Release of the newest version has been repeatedly delayed over the last three years. The upgrade to Horizon/HIP 8.0 or another integrated library system will mostly occur during the 2008-2009 fiscal year with installation to take place December 2008.

The library maintains an authentication server to ensure that eligible users gain access to subscription databases and services. The authentication server validates on-campus users by IP address. Eligible off-campus users, including currently enrolled students and university faculty and staff, are authenticated against the Horizon library system borrower tables. Eligible users can electronically submit interlibrary loan requests and purchase requests for new books. Anyone may submit reference questions electronically with "Ask A Librarian" using a live, interactive web based chat reference system or a form based email service.

HELP DESK

The Office of Information Technology Help Desk was established during summer 2000. The Help Desk is intended to be the central contact point for computer problems on campus. Users are encouraged to call the Help Desk and report a problem or ask functional questions about their computer or application software. The Help Desk is available from 8:00 am until 4:30 am during the week and by voicemail after business hours.

When a Help Desk call is received, a ticket is entered into the work order system. This system is an application called Track-It and was implemented in January 2006. At the time a Help Desk call is received, an attempt is made to resolve the problem or question by giving advice to the user or talking the user through a solution. If the Help Desk technician is unable to resolve the call, the ticket is forwarded to the appropriate Office of Information Technology team or personnel. When the problem is resolved, either by the Help Desk technician or other Office of Information Technology personnel, the person resolving the call will enter the relevant information into the work order system and close the call.

The Help Desk has two full time employees as well as several student assistants. Additionally, reporting to the Help Desk Manager are six full time computer technicians. The goal of the Help Desk is to be able to answer more questions and problems over the phone without having to send technicians on-site to resolve. The Help Desk currently resolves more than 50% of all incoming calls without having to forward the call to another member of the Office of Information Technology staff. Continuing training and modifications of procedures will allow the Help Desk personnel to resolve more calls without intervention from outside the Help Desk area.

Beginning during the 2007-2008 fiscal year, the Help Desk will assume responsibility for all computer inventory campus-wide. This will be implemented through the Track-It Barcode software, allowing computer inventories to be merged with Help Desk assistance requests. Help Desk personnel will keep records of every computer system owned by the university from the date of purchase to include warranty information, hardware configuration and repair history of the system.

ONE CARD SYSTEM

The One Card System is a multi-year project that began in 2000 and replaced the university's paper and film based ID card systems with a computer-based system. The current One Card System uses a Hewlett Packard R9000/800 business class server as the main component of the system. The One Card Server runs the HP-UX 11 operating system and the Optim 9000 software, which is the software product that actually runs the One Card System. Approximately 20 special point-of-sale devices such as authorization readers, activity readers, midi-wedges, and maxi-wedges are deployed throughout the university. These point-of-sale devices act much like that of a register and allow for actions, such as charging a student for a food purchase, to be taken on a student's account.

During the spring of 2006, the One Card System contract was rebid and CBORD was selected to replace the existing Blackboard Transaction System with the Odyssey PCS system. This system will reside on a Windows 2003 server. The new system is scheduled to be operational before the 2006 fall semester. Some of the improvements to the One Card System that will be available with this new system include: removal of the students' SSN as an identifier, adding a banking relationship to the card, and using the card to gain entrance into facilities. In addition, the physical card will be redesigned followed by a major re-carding event that will occur in the fall to ensure that the entire campus community has a new card.

- Card Swipe Door Access

To enhance the security of facilities and eliminate the use of outside door keys, a card swipe system is being installed on 13 academic buildings during the spring of 2006. During the summer of 2006, all residence halls will have a card swipe on major entrance doors. This system will be integrated with the One Card System and will be controlled by an individual's ID card to permit access to a facility, creating a record on who enters a building along with the time this occurred. Access permissions will be a joint operation between the University Facilities Office, Public Safety, Physical Plant, and Housing and Residence Life. A joint long-term goal will be to have all campus buildings with outside doors equipped with card swipes to enhance security of all facilities.

- Banking Relationship

To enhance the use of the ID card by the campus community, the university has entered into a relationship with a local bank to increase card use in the local community. This relationship will also allow the university to do direct deposits for financial aid disbursements, student payroll checks, and reimbursement checks. This will benefit students by reducing the time they spend waiting in lines for check and will give them quicker access to their funds.

MULTIMEDIA SMART CLASSROOMS

The university has close to 200 classrooms equipped with multimedia equipment. Each classroom is equipped with multimedia equipment consisting of 2000-lumen (or greater) LCD projectors, S-VHS VCRs, receivers, speakers, computers, DVD players, switchers, and, in some cases, document cameras and other items.

Smart classrooms are located in Harned Hall, Claxton, Kimbrough, Clement, McCord, Dunn Center, Sundquist Science Complex, Fort Campbell Center, Trahern, Foy Fitness Center, Woodward Library, Hand Village and the Music/Mass Communications buildings. The university's goal is to eventually equip and maintain as many classrooms as possible with state-of-the-art equipment to enhance the depth and quality of instruction in order to provide students with a more contemporary, effective and efficient educational experience.

MICROSOFT CAMPUS AGREEMENT

The university is in the seventh year of subscribing to Microsoft's Campus Agreement. This agreement provides Microsoft Office software and Microsoft operating system upgrades to the university community. The license agreement allows the university to install any version of Microsoft Office and upgrade the operating system on any PC owned by the university. Any university employee may also install Microsoft Office on their personal home PC provided it is only used for university business. Subscription to the Microsoft Campus Agreement is provided at a cost of approximately \$45.00 per employee that uses a university-owned PC. This agreement further provides all the necessary Client Access Licenses (CALs) needed for PCs to access any of the Windows-based servers on the campus network.

APPLE MAINTENANCE PROGRAM (AMP)

The university is in the third year of subscribing to the Apple Maintenance Program (AMP). This program provides all updates to the Apple OS X system software, including major updates to the next generation of the system. The program is purchased at a cost of \$99 for each Macintosh computer at the time it is purchased. This allows all updates for a three year period ending with the warranty. This coordinates with the university's three year Technology Access Fee (TAF) replacement cycle, ensuring that all university Macintosh computers are current during the period that they are installed in student computer labs. The AMP will ensure that the university's Macintosh computers will be updated to Apple OS Tiger during the 2005-2006 fiscal year, which is the next generation of the current operating system.

NORTON ANTIVIRUS SYSTEM

The university has purchased 2,200 licenses from Symantec for Norton AntiVirus Corporate Edition (NAV CE). This product enables central management of campus-wide virus protection from centralized servers. Users retain control of their computer's virus protection, but the antivirus administrator continually ensures that all university owned computers have the latest antivirus software and virus definition files loaded on them as well as being scanned regularly. Other features of this software include the forwarding of quarantined viruses to a central server, scheduling and scanning portions of the campus as well as the entire campus, and email protection at the client and the server level.

STREAMING MEDIA SERVER

The university has a streaming media server allowing for the efficient streaming of both live and archived audio and video to on-campus as well as off-campus users. This system resides on a Windows 2000 Dell PowerEdge 1550 that participates in the APSU.EDU domain. Currently, faculty members are streaming archived audio and video lectures to their students but future usage is planned to include:

- Human Resources online orientation
- Live Internet broadcasts of local events
- Campus tours and videographies
- Archived media shows (for art, music, etc)

ACT COMPASS SYSTEM

The ACT Compass Computer Test is an adaptive testing program used to measure students' mathematics, reading and writing skills on demand and to report results for placement and advising. The test center schedules and conducts all testing and then uploads the test scores into the R/D information available through SunGardHE SIS and SunGardHE Banner ST. The ACT Compass system resides on a Dell PowerEdge 750 server running Windows 2003 participating in the APSU.EDU domain. ACT Compass has been enhanced with a web-based version of the software and university implemented this version during the fall 2006 semester.

COMPUTER SCIENCE AND INFORMATION TECHNOLOGY SYSTEMS

The Windows 2003 server housed in the Department of Computer Science and Information Technology is a Dell PowerEdge 4600 running Windows 2003 and participating in the APSU.EDU domain. It runs the IIS Web Server software and the Microsoft SQL Server database management system. Students in Computer Science 3300, Introduction to Web Development; Computer Science 4000, Advance Web Development; Computer Science 4400, Database Management; Computer Science 4420, Database Administration Using MS SQL Server; Computer Science 4630, Web Server Administration; and Computer Science 4650, Introduction to Active Server Pages, regularly use this system to complete their assignments. They are able to explore all features of SQL Server, including database manipulation and security issues. They also learn to access SQL Server databases through high-level languages such as Java, Visual BASIC and ColdFusion.

The Linux server housed in the Office of Information Technology is a Dell PowerEdge 2600. It is used to teach the Unix Operating System in Computer Science 4100 and is used in various other classes for the processing of C++ and COBOL programming. Students in a number of Computer Science classes use this server for the completion of their programming assignments.

The Linux server housed in the department of Computer Science and Information Technology is a Dell PowerEdge 1800. It is used to teach Linux, Apache Web Server, PHP, and MySQL. It is used by students in CSCI 4630, Web Server Administration, as well as several other computer science classes. This server runs all open source software.

LINUX SYSTEMS

Several Linux servers are in use on campus. The departments currently using Linux servers are the Department of Computer Science and Information Technology, the Department of Chemistry, the Department of Physics and the Office of Information Technology. All Linux servers on campus are currently running Red Hat Enterprise AS.

The Department of Chemistry uses their Linux server as a web server and as a repository for documents. The Apache web server that runs on this machine is used for the discussion board software used by many of the Chemistry classes.

The Department of Physics uses their Linux servers for application development and for classroom use. All of their Linux servers run on multi-processor machines. Currently the Linux servers are being used in conjunction with their computational methods concentration and their computational methods class (part of the physics major core).

The details for the Department of Computer Science and Information Technology can be found in the previous section titled "Computer Science and Information Technology Systems."

The Office of Information Technology uses Linux as the operating system of the SunGardHE e-Print server. e-Print is a software suite used for printing various reports from both the SunGard Plus system and the new SunGardHE Banner system currently being implemented.

THE TWENTY-FIRST CENTURY PROJECT

The Twenty-First Century Project, begun in 1992 and located in the College of Education, is a continuous multi-year project designed to integrate instructional technologies in the teaching and learning process. Participants receive advanced training and develop skills for effectively integrating instructional technologies throughout school curricula. The ultimate vision of the Twenty-First Century Project is for elementary and secondary school students to be the primary beneficiaries of this program.

The focus of the Twenty-First Century Project includes faculty and teacher development and support, and the creation and maintenance of several facilities within the College of Education. The facilities of the project include the following.

- The Twenty-First Century Classroom was the first smart classroom established at the university. It contains 27 Apple G4 eMac computers, a teaching station with computer, an LCD projector, SmartBoard, a VCR and a document camera.

- The EdTec Classroom contains 12 Apple G4 iMac computers, movable seating for 20, a teaching station, a VCR, a Laserdisc player, a document camera and a PictureTel compressed video system designed for full motion two-way video instruction.
- The student computer lab contains 28 Apple G4 iMac computers, an array of peripheral devices and a wide assortment of material from leading developers of educational software.
- The Multimedia Development Center is a space that has become the focus for the development of the Instructional Technology graduate program. It facilitates access for the development of web-based instruction utilizing web and files servers housed in the College of Education. It also contains hardware needed for digital video production.
- Students in the college have access to a 20 book iBook mobile wireless lab. This lab has been utilized in classroom use as well as for checkout with the Instructional Technology graduate program. Students also have access to digital camcorders for use in video production classes.

Plans for the Twenty-First Century Project include designing and developing an advanced computing facility for video, multimedia, web and software development, and continuing the professional development of faculty in the area of instructional technology particularly in the area of web based and web enhanced coursework.

DIGITAL MUSIC LISTENING LIBRARY SYSTEM

All recordings that belong to the Department of Music are being digitized for restricted student access at computerized listening stations. Faculty may access this database from faculty studios and from the three Smart classrooms located in the Mass Communications building.

The system consists of a Macintosh G4 server running OS X 10.1.5 with 170Gb of internal storage and two external firewire hard drives with 140Gb storage capacity. The listening library has a total of 13 Macintosh G4 eMac computers connected to the campus network and running iTunes 4.0 to access the mp3 database housed on the server. The iTunes 4.0 software is also installed on faculty computers for access of the database outside the listening library. All access to the database is controlled through secure password.

ARTLAB SERVER SYSTEM

The ARTLAB server is housed in the Art Lab in Trahern 212. The system provides a unified approach to lab maintenance and storage by giving students server space for their large art projects.

INTEGRATED BROADCAST SYSTEM

The department of Communication and Theatre's integrated broadcast facility (Cable Channel 99) connects various campus areas to the television editing studio to allow for recording, editing and the production of broadcast quality programs. The university implemented this facility during the 2001-2002 fiscal year. As a result of this facility, the

university broadcasted the President's inauguration during fall semester 2001. Also, the facility routinely broadcasts university sports events and other university events such as commencement. The department plans to run additional fiber optic cabling from the Cable Channel 99 control room to various locations on the university campus during the 2007-2008 fiscal year to provide more streaming locations to the facility.

Complementing the facility has been the addition of a new digital video editing suite with 20 Mac Mini computers and Apple Final Cut Pro Studio HD software. This suite enables both teaching/laboratories and Cable Channel 99 opportunities for editing video productions and news documentaries. The department plans to upgrade this suite during the 2007-2008 fiscal year with 25 Apple Mac Mini computers with Intel-duo-core technology. Additionally, the department plans to establish a second digital video editing suite with 15 Toshiba or Sony PC workstations.

Cable Channel 99 has been online several times by permitting video streaming to an outside company that pulls the stream and then hosts access to it on the Internet through their site. The university's spring graduation, local high school graduations and an Ohio Valley Basketball game has been accessible to the Internet by this method.

COMMUNICATION AND THEATRE WEB AND STREAMING SERVER SYSTEM

The department of Communication and Theatre established an Apple X-Serve web server housing departmental web sites during the 2005-2006 fiscal year. Web sites include a site for Communication (Comm.apsu.edu), Theatre (Thea.apsu.edu) as well as a site with details about the department's corporate communication graduate program (CorpCommMA.apsu.edu). The department plans to add additional web sites as well as update the current sites during the 2007-2008 fiscal year. These sites include details about scholarships, other forms of financial aid, assistantship opportunities, downloadable forms, faculty profiles and more. Both the www.comm.apsu.edu and www.thea.apsu.edu web sites host student resumes and portfolios for majors who have at least a junior status and seek internships or entry-level employment.

During the 2007-2008 fiscal year, the department plans to implement a streaming audio and video system with access to the Internet over a separate network consisting of a dedicated T-3 line and Cisco router. This will allow the streaming of audio and video to the Internet without disrupting the existing campus network. Along with the addition of this equipment, the department plans to purchase an additional Apple X-Server to house the streaming content from Cable Channel 99. This will include the construction of a web site for the campus radio station (WAPX-FM) to stream up to 100 simultaneous QuickTime connections to the Internet.

As the department's graduate and undergraduate programs continue to grow, the department plans to add more interactivity to the web sites to include a search engine, bulletin boards, and live chat.

GIS SYSTEM

The university houses a Geographic Information System (GIS) Center staffed by a GIS manager, GIS/GPS specialist, a GPS field technician, GIS analyst and several student aides. The GIS Center is supported with funds through contract services between the center and local municipal and private sector clients. The GIS Center's function is to provide data and/or technical assistance to contracted clients. The GIS Center currently

maintains six servers. The GIS data is created and maintained with a data warehouse residing on a Dell PowerEdge 6800 server. A Dell PowerEdge 2800 provides a web enabled Internet map server (IMS) for the viewing of map data through a client Internet service provider. A Dell PowerEdge 4400 is being used as a print server to separately manage the large print documents produced in the GIS Center. An Athlon 6300 64-bit server is intended to be used as an intranet map server. A Dell PowerEdge 6300 and 2400 are being utilized as test servers for ArcGIS Server and ArcSDE version 9.2.

The GIS system production servers were upgraded from Windows 2000 to Windows 2003 during the 2004 – 2005 fiscal year. The server resources were increased from 512 megabytes to a gigabyte of ram. The GIS Center's internet GIS Mapping portal was upgraded from ArcIMS 4.2 to ArcIMS 9.1. The Internet Server was migrated from Apache to Microsoft IIS and Servlet Exec 4.1 ASP/Java Servlet. The GIS Center also implemented Microsoft SQL Server 2000 and ESRI ARCSDE 9.0 as the RDBMS/GIS mapping management software and data warehouse repository. The GIS Center has also deployed PostgreSQL and several other local databases for internal and external use. The GIS Center will deploy ArcGIS Server 9.2 in the near future.

The GIS Center has established a physical network connection with the city and county with fiber and network electronics purchased by the GIS center, the city and the county. The goal of this connection is to provide a real-time high speed data warehouse connection to city and county employees. Currently, the connection is being used for FTP transfers to and from the GIS Center. It is the GIS Center's intension to further use this connection for ArcGIS Server and ArcSDE access for the city and county.

INTERACTIVE VIDEO SYSTEM (ITV)

The university currently uses interactive television technology to connect the main campus and facilities at Fort Campbell. This technology can also be used to connect to surrounding areas as well as around the globe. Use of this technology for delivery of courses remains below expected levels, as does the use of this technology to support other functions, due in part to the turnover in the distance education specialist position. While not yet to the desired level of use, courses have been taught, interviews conducted, a guest lecturer brought in and field trip taken using this technology. Efforts are being made to incorporate an international module into APSU 1000 to provide all students an international experience and also to enhance study abroad programs.

Two classrooms on the main campus and one classroom at the Fort Campbell Education Center are videoconference sites. Mobile solutions have been used to connect remote sites to our campus for the delivery of courses during the 2005-2006 fiscal year.

The videoconference connection between main campus and Fort Campbell utilizes IP technology exclusively. Connections with off-campus sites have also utilized IP. The use of IP provides a more stable and reliable connection. The IP connection also represents substantial savings to the university.

FACULTY MULTIMEDIA DEVELOPMENT SUITE

Distance Education maintains a Faculty Multimedia Suite in room 121 of Woodward Library. The suite is primarily used to train and support faculty teaching online courses. The suite is available to all university faculty for multimedia development, for use as a course development site and for professional development opportunities that may be

offered to or by the university. The suite enables faculty and staff to develop their knowledge, understanding and use of current instructional technologies. Limited staffing is provided by distance education personnel, student assistants and a select few faculty mentors.

Some of the facility's activities include training sessions in course management system software, online course development and the development support in the use of various software solutions used in online course delivery. These various software solutions are being encouraged for use in distance course delivery. The software currently available to faculty include: Respondus (test writing software), Impatica (Power Point compression software), FrontPage and Dreamweaver html editors, Adobe's Acrobat Writer and Photoshop, and Macromedia Studio.

The facility is populated with seven Dell and two Apple computers, flatbed and 35mm slide scanners, digital still and video equipment, and a network printer. The facility is also equipped with a portable computer station projector that is used in training and is available for use outside the room.

OTHER DISTANCE EDUCATION MEDIA SUPPORT

During the 2006-2007 fiscal year, Distance Education has increased its support of faculty in their development of online courses. This occurred through the acquisition of new and renewed software, implementation of training, and support staff assistance for course development needs.

Starting at the beginning of the 2006-2007 fiscal year, Distance Education has obtained licensure for Scantron's Class Climate (an online survey tool), and an Apple X-Server that is being used to house content for the new university iTunes contract. Distance Education has also obtained licensure for Turnitin.com, a software tool which offers a peer review of documents to help control plagiarisms as well as Smarthinking.com, an online tutoring system.

During the 2004-2005 fiscal year, Distance Education acquired a Dell PowerEdge 4600 server running Windows 2003 and participating in the APSU.EDU domain. During the 2005-2006, Distance Education will develop databases to manage the various department needs and use this server to store and run them. The new server is also being used to store faculty files which are used in online and ITV course development.

The Distance Education office has acquired the cameras and computers needed to record and digitize lectures for use in online courses and ITV for courses and conferences. They also have a CD/DVD replicator available for use with online and enhanced courses.

Distance Education is planning to implement several projects for the 2007-2008 fiscal year. The department is partnering with Library Services to develop a new training room/library instruction room in the former periodical reserve section of the library. Distance Education is also working with several other university departments to increase the content in the new APSU iTunes University. Finally, a large part of the new academic year will be devoted to conversion from the Blackboard and WebCT course management systems to the new Desire2Learn course management system.

IMAGING SYSTEM

The university is continuing to investigate the design and implementation of imaging technology with the intent of installing the first phase of the project during the 2007-2008 fiscal year. Areas of the university that are expected to participate in this project are the Admissions department, Office of the Registrar, the Financial Aid department, the Human Resources department, the Business Office, Student Affairs and the President's Office. This project will address two specific functions. The first function will copy and index documents in administrative offices for archival purposes. The second function will implement document tracking, routing and electronic approval in the daily operations of administrative offices. The end result is to move administrative functions to a more paperless environment.

SECURITY CAMERA SYSTEM

The university installed the first phase of a security camera system during the 2003-2004 fiscal year. This system was installed to replace several other smaller systems, most using VCR tape, and which were not compatible between systems and not capable of digital recording. Two 16 port digital video recorder (DVR) hubs were installed in Browning and the University Center, and cameras were placed in public areas of the University Center (to include the post office, food court, and cafeteria), Browning, Shasteen, and Ellington.

During the 2004-2005 fiscal year, the university completed the second phase of the security camera system. Four more DVR's were installed along with a total of 120 cameras with coverage expanded to include Ellington, Music/Mass Communications, the Sundquist Science Complex, and the Catherine Evans Harvill building which houses the campus bookstore.

During the 2005-2006 fiscal year, the university installed the third phase of the security camera system. Three more DVRs were installed in Clement, Woodward Library, and the Dunn Center along with 44 additional cameras to cover ingress and egress as well as common areas within and outside the buildings.

During the 2006-2007 fiscal year, the university installed a DVR and a pan/tilt/zoom camera in the Ellington building and rerouted the four existing cameras to the DVR in Ellington from the DVR in Browning. The newly renovated McCord building was equipped with a DVR and seven cameras and the newly built Foy Fitness Center was equipped with a DVR and 16 cameras, one of which is a pan/tilt/zoom camera.

Non-residence buildings without security camera coverage include Claxton, Kimbrough, Memorial Health, the Gov's Tennis Center, Marks, Harned Hall and McReynolds. The university plans to implement more security camera coverage in some portion of these buildings during the 2007-2008 fiscal year.

Images are maintained for a period of at least 30 days or more. Recorded images can be viewed by authorized personnel over the network on their personal workstations. Access to these images can be controlled to only allow the appropriate personnel to view camera images for their area.

The use of the security camera system has already proven very effective. Several felony arrests have been made and successfully prosecuted as a result of information received from the system. Additionally, several stolen items have been recovered.

The Department of Public Safety has developed a Closed Circuit Television Monitoring and Recording of Public Areas for Safety and Security Purposes policy (S.O.P. 13-6). The purpose of this policy is to regulate the use of closed circuit television (CCTV) cameras to monitor and record public areas for the purposes of safety and security. This policy applies to all personnel and property of Austing Peay State University in the use of CCTV monitoring and recording. Legitimate uses of the technology are covered by university policies governing the proper use and restrictions of the technology.

TELEPHONE SYSTEM

Beginning October 2005, the university replaced its aging telephone system with a new system from NEC. The Request for proposal was issued in March 2005, the university received six proposals, and the purchase order was issued to Southeastern Telecom (SETel) on June 8, 2006. The last portion of the installation was completed the first weekend of January 2006.

The new system consists of three NEC 2400 Univerge telephone switches located in Browning, Shasteen and Hand Village 200. The three Univerge switches are linked with three Cisco switches and fiber optic cabling. Trunking between the telephone switches is accomplished with TCP/IP. The Browning telephone switch has 3,840 available ports with 1,532 lines assigned. The Shasteen telephone switch has 768 available ports with 647 lines assigned. The Hand Village switch has 1536 available ports with 647 lines assigned. All faculty and staff members were upgraded to multi-line digital telephones. The Public Square and Fort Campbell campuses are provided with voice over IP (VoIP) telephones which are serviced from the Browning telephone switch. The Foy Fitness Center, which opened in January 2007, is also provided with VoIP phones which are serviced from the Browning telephone switch.

The versatility of the new system has allowed telephone services to be redistributed across campus. The Dunn Center, Emerald Hill, the Stadium, the Tennis Center and Sexton are now served from the Shasteen switch. Meacham Apartments, Rawlins, Cross and Killebrew, along with Hand Village, are now served from the Hand Village switch.

The Fort Campbell and Public Square campuses are connected to the campus infrastructure with point to point T-1 circuits leased from BellSouth. Public Square has two bonded T-1 circuits and Fort Campbell has four.

Local and toll-free service is provided with eight primary rate interface (PRI) circuits from US LEC. Six of these circuits are delivered to Browning and the remaining two circuits are delivered to Shasteen. Long distance service is provided by a single PRI circuit from Qwest. That circuit terminates in Browning and serves the entire university.

The university uses the AimWorX call accounting system which collects close to a million station-to-station, local, long distance, toll-free and incoming calls monthly. Long distance calls are routed to the billing module within AimWorX where they are costs are determined and stored for monthly billing. All other calls are stored for reporting and traffic study purposes. NEC has announced that AimWorx has reached end-of-life and the university will be replacing AimWorx with a different system during the 2007-2008 fiscal year.

As part of the telephone system upgrade, the university's voice mail system was upgraded to AVST CallXpress, version 7.7. This system includes integrated messaging, allowing voice mail users to obtain their voice mail messages through Outlook. The integrated messaging system also includes Captaris Right Fax, which, when fully implemented, will allow voice mail users the ability to send and receive faxes from their desktop computers.

Other systems obtained as part of the new system include:

- NEC Openworx, which includes the Business Attendant System, an operator console system controlled and monitored by a personal computer.
- NEC Conference911, which rings a line at the campus public safety office whenever a call is made to the local public safety answering point (PSAP), allowing campus security personnel to be conferenced in on emergency calls.
- NEC Global Navigator, an automatic call distribution system, which should allow for more efficient handling of large call volumes in departments such as student financial aid and the office of the registrar.
- NEC MA4000, which allows remote maintenance of the telephone switch and other peripherals.

WORKSTATION CONFIGURATIONS

There are approximately 2,600 workstations installed at the university. Of these workstations, approximately 450 are Macintosh computers (17 percent) found predominately in the Art department, Music department, the Communication and Theatre department, the College of Education and the Public Relations department. The remaining workstations are Intel based machines running the Windows operating system. The Intel based machines' operating systems are configured as follows: 98 percent run Windows XP and 2 percent run Windows 2000 Professional.

The current standard configuration for Intel based workstations is the most current Dell Optiplex system.

The current standard configuration for Apple Macintosh based workstations is a 1.8 gigahertz iMac G5. This workstation is configured with one gigabyte of memory, a 160 gigabyte hard drive, a 17 inch flat panel monitor, a CDRW-DVDR drive, a 10/100 network interface card, and running the OSX operating system.

**PROPOSED
TECHNOLOGY ACCESS FEE PROJECTS**

Chapter Three

Proposed Technology Access Fee (TAF) Projects for 2007-2008

Project Number	Department	Project Description	Proposed Revenue Allocation
Category 1 - Lab Maintenance and Support			
Ongoing	Technology Committee	FCC LRC Support	\$35,000.00
Ongoing	Technology Committee	FCC LRC Operating	\$10,000.00
Ongoing	Technology Committee	Lab Maintenance Position	\$55,000.00
Ongoing	Technology Committee	APFC Systems Analyst Position	\$46,000.00
			\$146,000.00
Category 2 - Network Infrastructure			
08-015	Information Technology	Maintenance for IronMail Appliances	\$7,500.00
08-020	Information Technology	Domain Controller Server for Student Domain	\$5,500.00
08-026	Information Technology	Maintenance for Internet Bandwidth through TNII	\$53,650.00
08-027	Information Technology	Upgrade Internet Bandwidth through TNII	\$18,850.00
08-030	Information Technology	Upgrade Radius Server	\$7,900.00
08-031	Information Technology	Upgrade Wireless Network Authentication	\$4,600.00
			\$98,000.00
Category 3 - Student Lab Workers			
Ongoing	Technology Committee	Current Lab Staffing	\$197,000.00
			\$197,000.00
Category 4 - Student Lab Operating			
Ongoing	Technology Committee	Current Lab Operating	\$140,000.00
			\$140,000.00
Category 5 - Computer Acquisitions			
Ongoing	Technology Committee	Replace PCs and MACs in student labs	\$550,000.00
			\$550,000.00
Category 6 - Hardware and Software in Existing Labs			

Project Number	Department	Project Description	Proposed Revenue Allocation
08-006	Information Technology	Email Encryption	\$34,000.00
08-010	Information Technology	Maintenance Renewal for Student Email	\$4,000.00
08-017	Information Technology	Microsoft Campus Agreement	\$22,500.00
08-022	Information Technology	Storage Area Network for Student Login	\$75,000.00
08-024	Information Technology	Symantec Antivirus Student Use Software	\$12,300.00
08-025	Information Technology	Symantec Antivirus Enterprise Software	\$13,000.00
08-091	Library	PC Reservation System for Student Computers	\$6,000.00
08-151	Allied Health	Two Microbiology Incubators	\$8,900.00
08-153	Art	Ceramics Kiln	\$4,800.00
08-154	Art	Upgrade Digital Photography Equipment	\$3,000.00
08-157	Art	Upgrade Software for Trahern Lab	\$43,300.00
08-158	Biology	Equipment for Sundquist Science Complex C111, A220, B226, C222	\$47,200.00
08-162	Biology	Electroporator	\$1,500.00
08-167	Biology	Upgrade Microbiology Labs	\$19,200.00
08-170	Biology	PCR and Biometrics Workstations for Cell and Molecular Biology Lab	\$21,900.00
08-171	Biology	Printer/Plotter for Student Presentations	\$6,500.00
08-172	Biology	Update Scientific Photographic Collections	\$3,000.00
08-174	Biology	Teaching Microbiology with Digital Camera	\$11,900.00
08-177	School of Business	Replacement Printers for Kimbrough 213 and 214 lab/classrooms	\$2,400.00
08-178	Chemistry	Fiber Optic UV/VIS Spectrometer	\$4,000.00
08-179	Chemistry	Replace damaged High Performance Liquid Chromatography Sys.	\$28,300.00
08-180	Chemistry	Four Digital pH Meters	\$1,200.00
08-181	Chemistry	Six Spectronic 20 Spectrometers	\$7,200.00
08-182	Communication	Cable 99 Broadcast Equipment	\$20,000.00
08-183	Communication	Video Camera Replacements	\$38,500.00
08-185	Computer Science and Info. Tech.	Coldfusion Web Development Software	\$700.00
08-186	Computer Science and Info. Tech.	Replace printer in student lab to provide duplex printing	\$1,800.00
08-187	Computer Science and Info. Tech.	Student Network Lab Server and three workstations	\$7,500.00
08-188	Computer Science and Info. Tech.	Microsoft Academic Alliance Software Program Renewal	\$2,600.00
08-191	Environmental Education Center	Digital Scales for Weighing Cattle	\$4,300.00
08-193	Engineering Technology	Update Software for the Auto Diagnostic Computer System	\$800.00

Project Number	Department	Project Description	Proposed Revenue Allocation
08-194	Engineering Technology	AUTOCAD Software Renewal	\$19,000.00
08-195	Engineering Technology	Replacement Laptop for the Automotive Lab	\$2,500.00
08-196	Engineering Technology	Purchase CES Edupack Materials Selection Software for Eng. Design	\$13,300.00
08-197	Engineering Technology	Ten Electronocs Lab Digital/Analog Training Kits	\$2,000.00
08-199	Engineering Technology	Electric Parallel Gripper Robot	\$4,000.00
08-201	Engineering Technology	25 MATHCAD Software Licenses	\$2,800.00
08-203	Engineering Technology	Six Electronics Lab Robot Training Kits	\$2,000.00
08-204	Engineering Technology	Server and Oracle Software for PTC ProEngineer Software	\$11,900.00
08-205	Engineering Technology	Smoke Machine for Computerized Diagnosis of Emissions Systems	\$2,500.00
08-206	Engineering Technology	Annual Update and Upgrade for Electronic Workbench - Multisim	\$4,400.00
08-207	Engineering Technology	Solidworks Software Site License	\$5,600.00
08-210	Geosciences	Instructional Software License Renewals	\$4,000.00
08-211	Geosciences	Three Replacement Printers for Computer and Microscopy Labs	\$2,000.00
08-212	Mathematics and Geosciences	SAS Network License and Server	\$4,900.00
08-213	Health and Human Performance	Three Multipack External Defibrillators	\$1,000.00
08-214	History and Philosophy	Philosopher's Index Electronic Subscription	\$1,800.00
08-216	Languages and Literature	Clean Slate Software for Harned Hall Computer Labs and Classrooms	\$600.00
08-217	Languages and Literature	Digital Camera for Student Presentations and Writing Projects	\$400.00
08-218	Languages and Literature	Multi-System VCR/DVD Player for Foreign Language Instruction	\$500.00
08-219	Languages and Literature	Eight VCR/DVD All-In-One Systems	\$4,000.00
08-223	Library	Purchase 20 Laptops for Student Use	\$19,100.00
08-225	Library	Microform Reader/Printer	\$5,400.00
08-228	Library	Dedicated Student Print Server	\$3,000.00
08-230	Mathematics	Geometer's Sketchpad Upgrade	\$400.00
08-231	Mathematics/Physics	Mathematica License Renewal	\$5,400.00
08-238	Music	Drill Writing Software	\$800.00
08-239	Music	Finale 2007 Software Upgrade	\$2,800.00
08-242	Music	Replace 12 Student Electronic Keyboards	\$19,100.00
08-243	Music	Video Camera for Conducting Program	\$1,200.00
08-244	Nursing	Student Learning Software Programs	\$9,800.00
08-245	Physics	Upgrade Electronic Circuit Simulation Software, Multisim, 25 seats	\$4,800.00

Project Number	Department	Project Description	Proposed Revenue Allocation
08-247	Physics	Renew Campus LabVIEW license	\$2,000.00
08-248	Physics	Laser and Optical Physics Lab Equipment	\$16,100.00
08-249	Physics	MATLAB for Physics and Psychology	\$400.00
08-252	Political Science and Sociology	SPSS Software Renewal and Increase	\$900.00
08-255	Psychology	Replace Three Printers	\$1,600.00
08-257	Psychology	Video Capture Card for Animal Research Workstation	\$1,000.00
08-259	Sociology	Four Digital Recorders and Digital Transcription Kit	\$1,200.00
08-261	Theatre	Portable Video Equipment for Dance Program	\$1,700.00
08-262	University Facilities	Replace Clement Auditorium Projector	\$3,500.00
08-264	African American Cultural Center	Two Computers and a Printer for student use	\$3,500.00
08-270	Engineering Technology	ProEngineer Software License Renewal	\$2,500.00
08-271	Health and Human Performance	Biofeedback Monitor and Game	\$400.00
08-273	Psychology	VCRs for Counseling Skills Lab	\$600.00
08-275	Disability Services	Upgrade Dragon Naturally Speaking Software	\$700.00
08-276	Disability Services	Upgrade JAWS Software	\$5,200.00
08-277	Disability Services	Replace Laptop Computer for Student Use	\$2,200.00
08-278	Disability Services	Two Flex-Talk Portable Recorders	\$2,000.00
08-400	Mathematics	Minitab Annual License	\$2,100.00
Ongoing	Technology Committee	Contingency fund for unexpected items	\$15,600.00
			\$681,500.00
Category 7 - New and Updated Labs and Smart Classrooms			
08-021	Information Technology	Smart Classroom Equipment and Consumable replacements	\$25,000.00
08-200	APSU at FCC	Portable Smart Kits for Classrooms	\$16,200.00
08-208	Engineering Technology	Projector and Document Camera for the Manufacturing Lab	\$9,400.00
08-209	Engineering Technology	Projectors, Document Cameras and Smart Boards for Elect Lab	\$22,600.00
08-272	Political Science and Sociology	Social Science Research Lab	\$14,300.00
			\$87,500.00
Total TAF Projects			\$1,900,000.00

**PROPOSED
NON TECHNOLOGY ACCESS FEE PROJECTS**

Chapter Four

Proposed Non TAF Projects for 2007-2008

Project Number	Department	Project Description	Proposed Revenue Allocation	Notes
Category 10a - Mandatory Projects Restricted to Partial TAF Funding by TBR Guidelines				
08-015	Information Technology	Maintenance for IronMail Appliances	7,500.00	
08-017	Information Technology	Microsoft Campus Agreement	22,500.00	
08-025	Information Technology	Symantec Antivirus Enterprise	13,000.00	
08-026	Information Technology	Maintenance for Internet Bandwidth through TNil	131,350.00	
			174,350.00	
Category 10b - Non-TAF Mandatory Projects				
08-004	Information Technology	Maintenance Spares for Network Infrastructure	30,000.00	
08-009	Information Technology	List Server Annual Maintenance	2,500.00	
08-113	University Facilities	Best Access (Door Reader System) License Renewal	20,700.00	
08-114	University Facilities	Cbord (ID Card System) License Renewal	22,000.00	Purchased with 2006/07 Year-End Funds
			75,200.00	
Category 10c - TAF Eligible Projects Not Recommended for Funding or Full Funding				
08-005	Information Technology	Complete Campus Wireless Network	372,000.00	\$150,000 Purchased with 2006/07 Year-End Funds
08-006	Information Technology	Email Encryption	34,000.00	
08-027	Information Technology	Upgrade Internet Bandwidth through TNil	46,150.00	
08-030	Information Technology	Upgrade Radius Server	7,900.00	
08-031	Information Technology	Upgrade Wireless Network Authentication	4,600.00	
08-029	Information Technology	Replace First of Three Network Core Switch/Routers	122,400.00	Purchased with 2006/07 Year-End Funds
08-150	Allied Health	AHS Computer Lab Upgrade	5,400.00	
08-154	Art	Upgrade Digital Photography Equipment	1,000.00	
08-156	Art	New Software and Equipment for Trahern Mac Lab	46,900.00	
08-163	Biology	Equipment for Preprofessional Introduction Lab Course	19,100.00	
08-166	Biology	Laboratory Equipment for Phisiology Students	11,600.00	

Project Number	Department	Project Description	Proposed Revenue Allocation	Notes
08-167	Biology	Upgrade Microbiology Labs	3,500.00	
08-169	Biology	38 Stereo Zoom Microscopes	21,700.00	
08-173	Biology	Spectrophotometer Acquisition for Biology Students, qty 3	52,000.00	
08-175	Biology	Water Bath Acquisition for Biology Students, qty 3	3,000.00	
08-183	Communication	Video Camera Replacements	32,200.00	
08-184	Communication	Sports Broadcasting Editing Bay	41,000.00	
08-189	Enrollment Management	Academic Support Center Computer Lab in Marks	43,000.00	
08-190	Enrollment Management	Furniture and Equipment for Academic Support Center Lab	208,700.00	
08-212	Mathematics and Geosciences	SAS Network License and Server	\$5,800.00	
08-214	History and Philosophy	Philosopher's Index Electronic Subscription	\$1,200.00	
08-215	Languages and Literature	Aurolog Tell Me More Software for Foreign Language Courses	20,000.00	
08-220	Library	18 Microsoft Visual Studio.net licenses	1,100.00	
08-221	Library	Purchase 200 books from ebrary	20,000.00	
08-222	Library	Electronic Back Volumes of Annual Reviews	5,000.00	
08-223	Library	Purchase 20 Laptops for Student Use	\$19,100.00	
08-226	Library	Purchase New Microform Scanner	16,100.00	
08-227	Library	Purchase Smart board 680i interactive whitboard system	9,300.00	
08-229	Library	Wireless Printing System	7,300.00	
08-236	Music	Replace Concert Hall Dimmer System	308,600.00	
08-240	Music	Four Laptop Computers for Online Courses and Student Use	4,100.00	
08-241	Music	Expand Resources in Listening Library Lab	2,600.00	
08-246	Physics	Portable ITV Unit in Sundquist Science Complex	11,400.00	
08-251	Physics	Equipment for Solid State Physics Lab Course	33,200.00	
08-252	Political Science and Sociology	SPSS Software Renewal and Increase	\$20,300.00	
08-255	Psychology	Replace Three Printers	\$3,200.00	
08-259	Sociology	Four Digital Recorders and Digital Transcription Kit	\$1,200.00	
08-262	University Facilities	Replace Clement Auditorium Projector	\$3,500.00	
			2,025,250.00	
Category 10d - Online Equipment and Software eligible for funding from Online Fees				
08-300	Distance Education	Blackboard Site License Renewal	\$33,000.00	

Project Number	Department	Project Description	Proposed Revenue Allocation	Notes
08-301	Distance Education	Camtasia Site License Renewal	\$4,000.00	
08-302	Distance Education	Desire to Learn Site License	\$62,000.00	
08-303	Distance Education	Respondus Site License	\$6,000.00	
08-304	Distance Education	Rimage Renewal CD Burner	\$2,500.00	
08-305	Distance Education	Scantron Class Climate Software License	\$34,000.00	
08-306	Distance Education	Smartthinking Site License Renewal	\$33,000.00	
08-307	Distance Education	Horizon Wimba Live Classroom	\$16,000.00	
08-308	Distance Education	Horizon Wimba Voice Tools License	\$6,000.00	
08-309	Distance Education	Portable Video Conferencing	\$7,600.00	
08-315	School of Education	Online Instructional Technology Program Equipment	\$32,400.00	
			\$236,500.00	
Category 11 - NON-TAF Eligible Projects - Faculty/Staff/Administrative Computers				
08-013	Information Technology	Computer for Macintosh Technician	2,100.00	Purchased with 2006/07 Year-End Funds
08-018	Information Technology	Eight Computers for HelpDesk Personnel and PC Techs.	20,000.00	
08-019	Information Technology	Computer for Network Manager	1,800.00	
08-041	Admissions	Laptop and Printer	3,700.00	
08-042	Alumni	Computer and Printer	2,500.00	
08-044	Athletics	Replace 3 Computers, 4 Printers and a Fax in Admin Offices	7,800.00	
08-045	Athletics	Replace 2 Computers and a Laptop in Sports Information	4,500.00	
08-048	School of Business	Replace 7 Instructors Computers with Laptops	18,900.00	
08-055	Chemistry	Replace Five Computers with Four Laptops & One Computer	11,200.00	
08-056	College of Graduate Studies	Replace One Computer with Laptop, Replace Printer	2,500.00	
08-057	College of Graduate Studies	One Computer, Laptop, Printer and Fax for Graduate Admiss.	5,000.00	
08-058	College of Prof. Prog. & Soc. Sci.	Replace One Computer with Laptop	2,300.00	
08-060	Distance Education	Faculty Training Center	79,200.00	
08-062	Educational Opportunity Center	Education Opportunity Center lab	10,900.00	
08-067	Enrollment Management	Peer Tutoring Area lab	26,600.00	
08-079	Housing & Residence Life	PDA/Tablet PC and Survey Software	4,000.00	
08-079	Housing & Residence Life	Replace Five departmental Computers	6,800.00	

Project Number	Department	Project Description	Proposed Revenue Allocation	Notes
08-092	Library	Replace Four Computers with Three Desktops, One Laptop	6,200.00	
08-099	Physical Plant	Replace Computer with Laptop for Physical Plant Director	2,300.00	
08-101	Public Relations & Marketing	Replace Student Work Computer	1,700.00	
08-102	Public Relations & Marketing	Photograph and Image Server	30,000.00	
08-104	Psychology	Three Laptops for Departmental Classes and Advising	6,900.00	
08-105	Social Work	Replacement Computer and Printer for DCS Grant	2,000.00	
08-107	Student Affairs	Replace Four SGA Computers	6,000.00	
08-109	Student Life and Leadership	Four Computers for Student Life and Leadership	8,400.00	
08-110	Student Affairs	Replace Three Office Computers	4,500.00	
08-111	Student Publications	Macintosh Computer for Coordinator	4,300.00	
08-112	Student Publications	Computer and Accounting Software for Business Manager	2,200.00	
08-115	University Facilities	Replace Two Office Computers	3,600.00	
08-120	High School Upward Bound	Two laptops and Four Printers	3,000.00	
08-176	School of Business	Laptop and Projector for Conference Room and Off-site	3,600.00	
08-265	Career, Advising and Testing	Replace Two Office Computers for Testing Center	2,800.00	
08-266	Chemistry	Replace One Faculty Computer with Laptop	2,300.00	
08-267	Austin Peay State University	Replace 100 faculty/staff computers with laptop/docking sta.	230,000.00	
			529,600.00	
Category 12 - NON-TAF Eligible Projects - Faculty/Staff Office Hardware and Software				
08-001	Information Technology	Additional Licenses for Help Desk Ticketing Software	3,200.00	
08-023	Information Technology	Symantec Antivirus Home Use	2,700.00	
08-028	Information Technology	Update Helpdesk Ticketing Software to add SelfService	3,700.00	
08-040	Academic Affairs	Color Laser Printer	1,300.00	
08-043	Alumni	Security Equipment Upgrade for Pace Alumni Center	3,200.00	Purchased with 2006/07 Year-End Funds
08-046	Athletics	VEGA for Basketball Software and Laptop	13,800.00	
08-047	Athletics	Video Exchange System Upgrade	13,400.00	
08-049	School of Business	Scanner for e-dossiers	1,200.00	
08-053	Career, Advisement & Testing	4,500 COMPASS Assessment Units and Annual License Fee	5,900.00	
08-053	Career, Advisement & Testing	DISCOVER Online Computer Assessment	900.00	

Project Number	Department	Project Description	Proposed Revenue Allocation	Notes
08-059	Extended Education	Photo Inkjet Printer for Digital Photography Class	400.00	
08-061	Distance Education	Iparadigms, LLC Turnitin License Renewal	16,000.00	
08-063	Enrollment Management	AdvisorTrac Software	4,000.00	
08-064	Enrollment Management	ConnectEd System	35,600.00	
08-065	Enrollment Management	Renewal of Netop Software	1,100.00	
08-066	Financial Aid & Veterans Affairs	Replace four Computers with Laptops, Replace a Printer	11,000.00	
08-068	GIS Center	25 ArcIMS Lab Kits	6,000.00	
08-069	GIS Center	6 Sets GPS Equipment	49,000.00	
08-070	Housing & Residence Life	Sign Making Machine/Plotter	900.00	
08-071	GIS Center	Large Format Printer	30,000.00	
08-072	Grants & Sponsored Research	Color Scanner	900.00	
08-073	Health & Human Performance	Scanner for copy room	400.00	
08-074	History & Philosophy	Transcriber and Videorecorder for Veterans Oral History Proj.	800.00	\$540 Purchased with 2006/07 Year-End Funds
08-075	Housing & Residence Life	EPIC Card Reader for Main Housing Office	2,800.00	
08-076	Housing & Residence Life	10 Computer Kiosks in Housing Areas	25,000.00	
08-077	Housing & Residence Life	Laser Printer	300.00	
08-080	Housing & Residence Life	15 Video Cameras and 10 Digital Recorders for Housing	4,000.00	
08-081	Languages & Literature	Adobe Acrobat Professional, single license	100.00	
08-083	Languages & Literature	Adobe Acrobat Professional, single license	100.00	
08-085	Languages & Literature	Replace Professor's Scanner with Printer/Scanner/Copier	300.00	
08-086	Languages & Literature	New ScanMaker i700 Scanner for Department	500.00	
08-087	Languages & Literature	Replace Damaged Scanner	200.00	
08-088	Library	Bookeye Scanner/BSCAN Software	23,100.00	
08-089	Library	Digital Camera and Copystand Kit	2,300.00	
08-090	Library	FAX Machine Replacement	1,600.00	
08-093	Library	Upgrade ILL/Document Delivery Scanner	5,500.00	
08-095	Physical Plant	Replace AutoCad Plotter	21,000.00	
08-097	Physical Plant	Thermal Imaging Camera for Electrical Safety/Leak Detection	31,700.00	
08-098	Physical Plant	Electrical Safety/Power Quality Equipment	10,800.00	
08-100	Physics	Swipe Card System for Four Internal Department Doors	20,000.00	

Project Number	Department	Project Description	Proposed Revenue Allocation	Notes
08-103	Public Relations & Marketing	Replace Video Camera for Web Video and TV Commercials	6,000.00	Purchased with 2006/07 Year-End Funds
08-106	Sociology	Shredder for faculty office	200.00	
08-108	Student Affairs	Portable Buzzer System for Academic Competitions	300.00	
08-117	University Facilities	Event Scheduling Software License Renewal	4,400.00	
08-118	University Facilities	Portable Smart Board System for University Center	17,000.00	
08-119	University Recreation	IMTrack Intramural Scheduling	2,500.00	
08-121	Social Work	Adobe and Wide Screen Monitor for eFaculty Development	959.00	
08-130	Disability Services	Copier/Scanner	3,500.00	
08-131	Disability Services	Networked Printer	1,200.00	
08-152	Allied Health	Paperless Documentation/Radiologic Technology System	16,900.00	
08-155	Art	Photography Equipment - 36 35mm Cameras	5,100.00	
08-160	Biology	Dark Field Condenser	1,000.00	
08-161	Biology	Twelve Dissecting Microscopes	7,600.00	
08-164	Biology	Flourescence Attachment for Olympus IX71 Microscope	9,800.00	
08-168	Biology	Micropipettes	7,000.00	
08-202	Engineering Technology	Mobile Robot Table	5,600.00	
08-237	Music	Studio School Pro Software	1,200.00	
08-253	Psychology	Replace High Speed Scanner	1,600.00	
08-256	Psychology	Purchase Solution-Focused Brief Counseling Video	200.00	
08-258	Agriculture/SOAG	Biodiesel Pilot Project	5,300.00	
08-260	Student Publications	Three camera lenses	4,900.00	
08-263	University Facilities	Replace Kimbrough 119 Screen	1,800.00	
08-268	Disability Services	All-in-one telephone, TY, and amplified phone	269.00	Purchased with 2006/07 Year-End Funds
08-269	Human Resources	Dell Printer	799.00	Purchased with 2006/07 Year-End Funds
08-270	Disability Services	Portable video magnifier	740.00	Purchased with 2006/07 Year-End Funds
08-271	Public Safety	Headsets	4,530.50	Purchased with 2006/07 Year-End Funds

Project Number	Department	Project Description	Proposed Revenue Allocation	Notes
08-272	Communication	Video Production Van	110,000.00	Purchased with 2006/07 Year-End Funds
			575,097.50	
Category 13 - NON-TAF Eligible Projects - Special Projects				
08-002	Information Technology	New Call Accounting Program Server and Software	70,000.00	
08-003	Information Technology	Install Cisco Security Monitoring, Analysis and Response Sys.	30,900.00	
08-011	Information Technology	Upgrade to Exchange 2007 from 2003	66,400.00	Purchased with 2006/07 Year-End Funds
08-012	Information Technology	Implement Staff/Faculty Mail Archiving	48,500.00	Purchased with 2006/07 Year-End Funds
08-014	Information Technology	Replace Obsolete UPS' on Network Infrastructure Systems	28,500.00	
08-050	Public Safety	Campus Automobile Registration System	52,300.00	
08-051	Public Safety	Security Camera System	225,500.00	
08-052	Public Safety	Campus Emergency Phones	24,200.00	
08-091	Library	PC Reservation System	6,000.00	
08-094	Office of the Registrar	Classroom Scheduler (EMS)	15,100.00	
08-095	Physical Plant	Work Order/Inventory System	83,000.00	
08-116	University Facilities	Door Reader System Expansion, Year 2	231,600.00	
			882,000.00	
Total Non TAF Projects			4,497,997.50	

