



UNIVERSITY OF LA VERNE

Program Review of the Office of Information Technology

Prepared by:

Joanne Ashcroft, Director of Client Services

Todd Britton, Director of Enterprise Application Services & ISO

Dr. Clive K. Houston-Brown, AVP & Chief Information Officer

Mancin Taylor, Senior Director of Technology Infrastructure Services

Chip West, Senior Director for Central Services & Capital Projects

Faculty Advisors:

Dr. John Bartelt, Assistant Professor of Education-Technology

Dr. Kathy Duncan, Assistant Professor of Management

Dr. Lisa Rodriguez, Director of the Center for Teaching and Learning

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Table of Contents

| | |
|---|----|
| Executive Summary | 1 |
| I. Department Mission, Vision, and Tenets | 3 |
| II. Department Goals and Objectives | 4 |
| III. Description of Department Capacity | 6 |
| IV. Effectiveness Indicators | 14 |
| V. Findings..... | 18 |
| VI. Action Recommendations | 26 |
| Appendices | |

Executive Summary

The Office of Information Technology provides information technology resources and services in support of the University of La Verne educational mission. In collaboration with students, faculty and staff, we deploy appropriate technological solutions to meet unique instructional, research, and administrative needs. Technology becomes an investment in the future when we empower individuals to achieve educational and institutional goals through reliable access, accurate information, and professional services. OIT's annual goals and objectives are taken straight from the University's strategic plan and projects are funded in accordance with those goals and objectives.

The Office of Information Technology ranks last amongst its twenty peer institutions in terms of technology support staff-to-student headcount ratio, a standard measurement for University technology support staff size comparison. Despite this, ongoing and point-in-time surveys indicate the campus community feels OIT is providing a high level of service (given its staffing limitations). The Office of Information Technology has been successful at meeting most of its major goals and objectives over the past few years, although ongoing staffing issues have resulted in some major failures, such as the initial portal implementation attempt in 2007 that had to be halted two weeks from go-live because of an exodus of staff.

The University of La Verne has increased its support for technology each year over the past five years, however the technology budget still remains inadequate to properly fund the size and scope of the operation. The increase in funding has not been due to additional staffing or to support current operations, but rather to pay for numerous new campus technology initiatives and the annual hardware and software maintenance costs associated with them. As a result, each year OIT is expected to do more with less. An example of this is that in the year 2000, the Enterprise Application Services department within OIT had eight staff to support eight enterprise applications. Two years later, at its peak, it had ten staff to support ten enterprise applications. Today, it has six staff and the equivalent of one contracted FTE to support almost thirty-two enterprise applications. In addition to low staffing levels, the system replacement lifecycle budget has shrunk to a point that desktops may only be replaced every eight years rather than four and servers and critical network components every twelve years rather than six.

While selective outsourcing has been used to address some aspects of technology support rather than filling a vacant staff position, it does so in a very limited and confined manner, and often creates an additional burden on the remaining staff. Following a recent WASC visit, the write-up indicated that while OIT was managing to support the existing applications, it was unlikely it would be able to support the additional technologies campus constituents were planning to implement in the coming years. Most college and departmental strategic plans involved the implementation or enhanced use of technology in some fashion and while the University generally funds the implementation costs, ongoing support and operational costs have been lacking.

At this juncture, the University of La Verne needs to invest in the ongoing support and operation of its existing technologies and technical infrastructure or risk serious failures in its mission-critical systems.

I. Department Mission , Vision, and Tenets

1. Mission

The Office of Information Technology provides information technology resources and services in support of the University of La Verne educational mission. In collaboration with students, faculty and staff, we deploy appropriate technological solutions to meet unique instructional, research, and administrative needs. Technology becomes an investment in the future when we empower individuals to achieve educational and institutional goals through reliable access, accurate information, and professional services.

2. Vision

The Office of Information Technology will provide quality, integrated information and communication systems, and the technical support and training, that will enable a highly reliable and secure information flow and facilitate superior levels of administrative and instructional service to students.

3. Tenets

- We believe user support is the foundation of all we do as a department.
- We believe technology can either impede or enable users; we are committed to the latter.
- We believe technology is an institutional investment in the future of our students.
- We believe ubiquitous, “transparent” technology leads to user Nirvana.
- We believe attitude is the core of customer service.
- We believe that building strong partnerships with our users is essential to departmental and institutional success.
- We believe that technological proficiency empowers users and decreases their reliance on support personnel.
- We believe teamwork encourages and enhances creativity and innovation.
- We value the expertise, knowledge, and ideas each individual brings to the table and believe their contribution is worthy of recognition and appreciation.
- We believe in learning from our mistakes.
- We believe open communication promotes a climate of trust and understanding.
- We believe in a professional balance of technological currency and fiscal responsibility.

II. Department Goals and Objectives

1. University of La Verne Strategic Goal #2, Strategic Objective #1

To provide resources and support to help both full-time and part-time faculty achieve excellence in teaching in the classroom or online.

- i. **OIT Objective 1:** Provide ubiquitous and functioning Smart Classroom capability in all formal University-owned classrooms through a mix of permanently installed and portable instructional technologies.
- ii. **OIT Objective 2:** Provide faculty teaching in a Smart Classroom with the ability to contact a technology support person directly from the classroom and receive immediate remote technology support, or in person assistance within 15 minutes.

2. University of La Verne Strategic Goal #3, Strategic Objective #2

To enhance internal communications strategies to keep members of the University community better informed and apprised of key developments, accomplishments, and activities.

- i. **OIT Objective 3:** Ensure all faculty, staff, and students have a functional University email account with appropriate space allocation to conduct business.
- ii. **OIT Objective 4:** Provide the University community with various ways to communicate key campus developments, accomplishments, and activities to the University community using a variety of modalities.
- iii. **OIT Objective 5:** Communicate key technology developments, accomplishments, and activities to the University community on a regular basis.

3. University of La Verne Strategic Goal #7, Strategic Objective #4

To continue to expand the University's technology infrastructure [in a secure and managed manner] to support teaching and learning and administrative functions.

- i. **OIT Objective 6:** Provide adequate, secure, high-availability network and server infrastructures to accommodate instructional and administrative functional needs.
- ii. **OIT Objective 7:** Provide ubiquitous and high-capacity wireless capability in and outside of academic buildings.
- iii. **OIT Objective 8:** Provide adequate personal computing access to ensure all students who need to use a computer and/ or standard software are able to do so in a timely manner.

4. University of La Verne Strategic Goal #8, Strategic Objective #2

To create greater efficiency and effectiveness in academic and administrative processes.

- i. **OIT Objective 9:** Enable Technicians to access clients' computers remotely for Help Desk assistance calls and complete a minimum of 25%

of technology workorders remotely and 50% on the same day they are received.

- ii. **OIT Objective 10:** Partner with academic and administrative departments to identify and implement technological solutions that enhance the efficiency and effectiveness of their processes.

5. University of La Verne Strategic Goal #8, Strategic Objective #3

To effectively integrate our data enterprise information systems to provide a seamless, automated, user-friendly, and accurate information system for effective decision-making.

- i. **OIT Objective 11:** Simplify the process of accessing multiple data systems through the use of single or simplified sign-on capabilities.
- ii. **OIT Objective 12:** Provide data warehousing capabilities to bring operational data from disparate systems together into data repositories more conducive to supporting Business Intelligence/ Academic Analytics and end-user reporting.

6. University of La Verne Strategic Goal #9, Strategic Objective #4

To develop employee training programs and support services to enhance the ability of faculty and staff to address the needs of our students.

- i. **OIT Objective 13:** Provide online training opportunities to faculty, staff, and students for all major desktop software applications supported by the University.
- ii. **OIT Objective 14:** Facilitate administrative training and support for new and upgraded software applications used by the University in support of students.
- iii. **OIT Objective 15:** Provide OIT staff with ongoing technical training opportunities for each system they are charged with supporting and maintaining.

III. Description of Department Capacity

1. Staff and personnel

The Office of Information Technology is made up of four departments with 23 full-time personnel, 4 contracted personnel, and 5.25 student assistant Full-Time Equivalents (FTE). A full organization chart and a detailed listing of current OIT personnel can be seen in **Appendix A**. A detailed listing of all OIT personnel (as of September 2009) along with their hire date and a brief job description can be seen in **Appendix B**.

- i. The Office of the CIO (Chief Information Officer) is responsible for the overall strategic direction and performance of technology-related functions at the University, the business operations of running OIT, and the Campus Telephone Operator function. This area consists of the positions:
 - a. Chief Information Office
 - b. OIT Office Coordinator
 - c. 1.25-FTE Student Assistant (Telephone Operator)

- ii. Enterprise Applications Support (EAS) is responsible for the support and maintenance of the University's Enterprise Resource Planning software applications such as the Student system, the Financial Aid system, the Finance system, the Human Resources system, the Alumni system, and a number of smaller, departmentally-based application systems. This area consists of the following positions:
 - a. Director of Enterprise Applications Support
 - b. Senior Programmer Analyst
 - c. Programmer Analyst
 - d. Database Administrator (**contracted**)
 - e. Assistant Database Administrator
 - f. Web Developer
 - g. Web Programmer
 - h. .5-FTE Student Assistant (Web)

- iii. Technology Infrastructure Support (IS) is responsible for the support and maintenance of the University's technological infrastructure, including networks, telecommunications, and servers. This area consists of the following eight positions:
 - a. Director of Technology Infrastructure Support
 - b. Senior Network Engineer
 - c. Network Administrator
 - d. Telecommunications Engineer (**contracted**)
 - e. Windows System Administrator
 - f. Windows/Email System Administrator
 - g. Linux/Unix System Administrator
 - h. Assistant Linux/ Unix System Administrator
 - i. .5-FTE Student Assistant (Network Technician)

- iv. Client Services (CS) is responsible for the support and maintenance of the University's desktop, computer lab, and classroom technologies. This area consists of the following nine positions:
 - a. Director of Client Services
 - b. OIT Office Coordinator
 - c. Assistant Director of Client Services
 - d. Help Desk Manager
 - e. Manager of Special Projects and Asset Management
 - f. Classroom/Lab Technician
 - g. Senior Desktop Technician-PCs (**contracted**)
 - h. Senior Desktop Technician-Macs (**contracted**)
 - i. Desktop Technician (**contracted**)
 - j. 3-FTE Student Assistants (Technicians)

Although the University of La Verne ranks in the center of 20 comparison institutions with respect to student full-time equivalencies (FTE), it ranks low in the number of centralized IT staff members available to support the Institution. With just 27 FTE staff members and 5.25 FTE Student Assistants, the Office of Information Technology has one of the highest students-to-centralized-IT-support-staff ratios among its peer comparison institutions, as shown in Table 1.

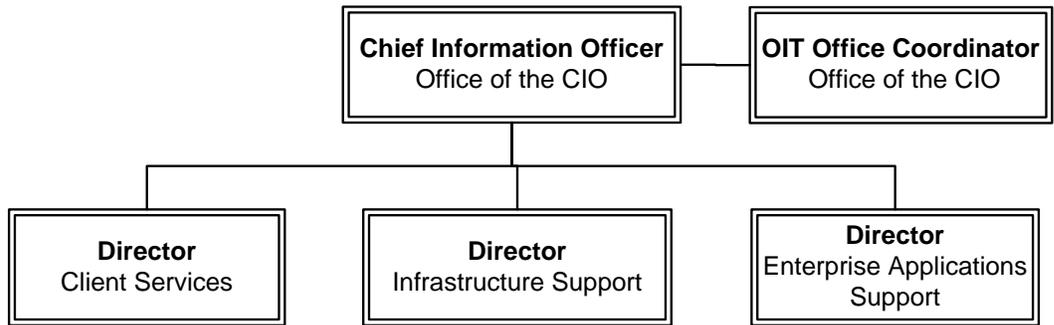
Table 1: Central IT Staffing Ratios with Comparison Institutions

| | Average of Comparison Institutions | University of La Verne | |
|---|------------------------------------|------------------------|-------|
| | Count | Count | Rank |
| 2007/2008 | | | |
| Student FTE | 4,598 | 5,230 | 9/20 |
| Central IT Staff | 43 | 27 | 14/20 |
| Student FTE Supported per IT staff member | 112 | 201 | 19/20 |
| Student Headcount Supported per IT staff member | 115 | 198 | 17/17 |

EDUCAUSE Annual CORE survey of Institutions of Higher Education

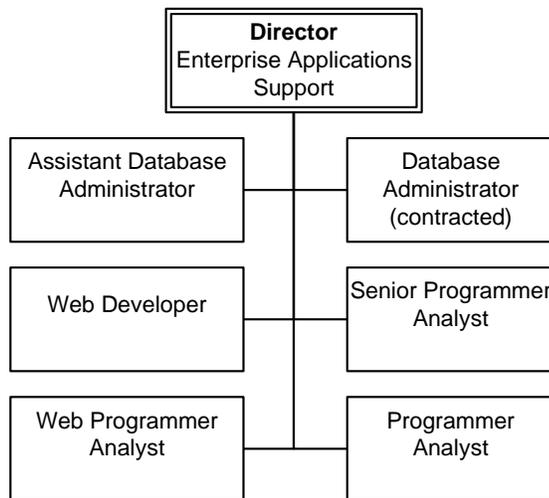
- 2. Supervisory relationships
 The Office of Information Technology is organized in a classical hierarchical fashion. The three OIT Directors and the senior OIT Office Coordinator all report directly to the Chief Information Officer, as shown in Figure 1.

Figure 1. OIT Management Supervisory Relationships



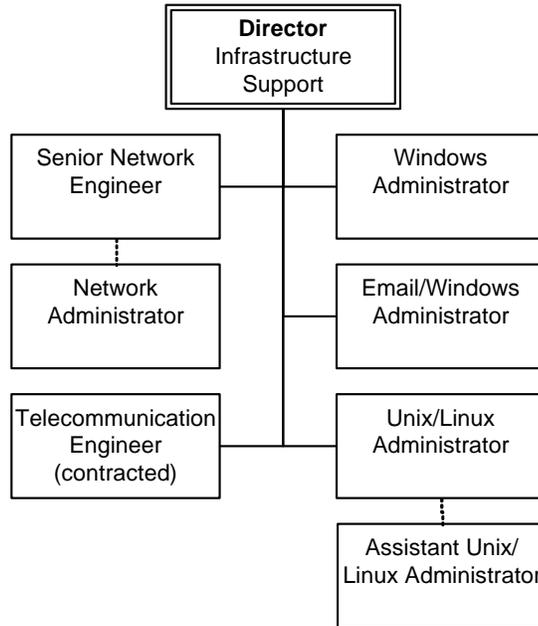
All six staff within the Enterprise Applications Support department report directly to the Director of EAS, as shown in Figure 2.

Figure 2. Enterprise Applications Support Department Supervisory Relationships



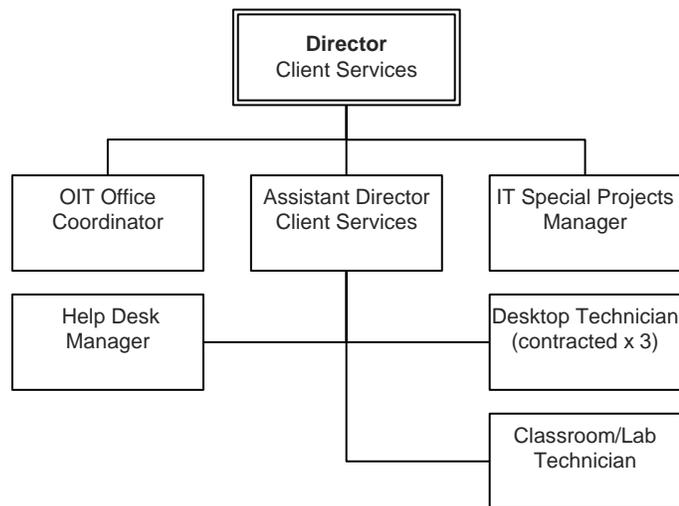
All seven staff members within the Infrastructure Support department officially report to the Director of IS, however the Senior Network Engineer manages the day-to-day duties of the Network Administrator and the Linux/Unix Administrator manages the day-to-day duties of the Assistant Linux/Unix Administrator (in transition from a Classroom/Lab Support position).

Figure 3. Infrastructure Support Department Supervisory Relationships



In Client Services, the Help Desk Manager and the Desktop Technicians report to the Assistant Director, who in turn reports to the Director of Client Services, along with the remaining Client Services staff.

Figure 4. Client Services Department Supervisory Relationships



3. Turnover of personnel

During the past five years, the Office of Information Technology has experienced turnover ranging from a low of one position (4%) in 2005/2006, to a high of six positions (26%) in 2007/2008. During the five-year period between 2004/2005 and

2008/2009, nineteen staff members have left the Office of Information Technology, as shown in the Table 2 below.

Table 2: OIT Staff Turnover, 2004-2005 through 2008/2009 (by Reason)

| Reason | 2004/ 2005 | 2005/ 2006 | 2006/ 2007 | 2007/ 2008 | 2008/ 2009 | Totals |
|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------|
| Accept other work | 1 | 0 | 1 | 6 | 0 | 8 |
| Change in residence | 1 | 0 | 0 | 0 | 0 | 1 |
| Retirement, by choice | 1 | 0 | 0 | 0 | 0 | 1 |
| Personal reasons | 0 | 1 | 0 | 0 | 2 | 3 |
| Laid off, permanent | 0 | 0 | 3 | 0 | 0 | 3 |
| End of contract | 0 | 0 | 1 | 0 | 0 | 1 |
| Breach of company rules | 1 | 0 | 0 | 0 | 0 | 1 |
| Other | 1 | 0 | 0 | 0 | 0 | 1 |
| Totals: | 5 | 1 | 5 | 6 | 2 | 19 |

Source: University of La Verne Human Resources

The most common reason recorded for staff turnover in the past five years was “accept other work”, which accounted for over 40% of the turnover. It was the main reason given by all six OIT staff members that left the University in 2007/2008. Three personnel were laid off permanently in 2006/2007 when their area (Desktop Support) was outsourced in order to improve services and coverage without filling vacated positions. Since then, two additional positions, the Telecommunications Engineer and the Database Administrator have been sourced for the same reason, but only after the positions became vacant through attrition.

With nine staff members leaving over the past five years, the Enterprise Applications Support department has experienced the most turnover in OIT, as shown in Table 3 below.

Table 3: OIT Staff Turnover, 2004-2005 through 2008/2009 (by Department)

| Department | 2004/ 2005 | 2005/ 2006 | 2006/ 2007 | 2007/ 2008 | 2008/ 2009 | Totals |
|---------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------|
| Office of the CIO | 0 | 0 | 0 | 0 | 0 | 0 |
| Enterprise Applications Support | 2 | 0 | 0 | 5 | 2 | 9 |
| Infrastructure Support | 2 | 1 | 0 | 1 | 0 | 4 |
| Client Services | 1 | 0 | 5 | 0 | 0 | 6 |
| Totals: | 5 | 1 | 5 | 6 | 2 | 19 |

Source: University of La Verne Human Resources

Of the nine staff members that left EAS, seven of them did so during the past two years. Five of the seven left within a 6-month period to accept positions with other local Universities for career and salary advancement reasons. Half of the turnover in the Client Services department was as a result of the Desktop Support function being outsourced in 2005/2006 to improve services and coverage without filling vacated positions. All staff turnover in the Infrastructure Support department over the past five years has been within the Telecommunications Team. When the Telecommunications Team joined the Office of Information Technology in

2004/2005, it had three positions: a Telecommunications Manager, a Telecommunications Technician, and a Chief Telephone Operator. As these positions became vacant over the following three years, the duties were either consolidated in the one remaining Telecommunications position - a Senior Telecommunications Specialist - or absorbed by other OIT personnel. When Senior Telecommunications Specialist accepted employment at a competitor university, OIT outsourced the University's Telecommunications Support function.

4. Inventory of basic equipment

The Office of Information Technology has a large inventory of basic equipment for internal staff use, not counting the thousands of hardware items it is responsible for in support of the campus community and enterprise technology functions (such as network routers, switches, and servers). Each OIT staff member has at a minimum at least one computer (some have more than one to allow testing, multi-tasking, etc.) a telephone, filing cabinet space, and shelving for books/parts. Other basic equipment such as printers, scanners, shredders, and copiers, are available in communal areas and shared by staff members of a particular department or team. Other equipment, such as two-way radio cell phones are assigned to OIT individuals who must be accessible on short-notice regardless of location, time-of-day or day-of-week. All OIT management, Infrastructure Support department (networks, Telecommunications, and servers), and Client Services department (Help Desk, Desktop Technicians, and Classroom/Lab Support Technicians) personnel are assigned Nextels. Only the Director and the Database Administrators in Enterprise Applications Support are assigned Nextel phones. OIT personnel have a fleet of electric golf carts available to them for the transportation of parts, as well as timely mobility purposes. An inventory of all basic equipment assigned to the Office of Information Technology can be seen in **Appendix C**.

5. Computer hardware

The Office of Information Technology is responsible for the configuration, setup, maintenance and upkeep of the University's enterprise and desktop computer hardware, including servers, network and telecommunications equipment, personal computers and peripherals, smart classroom technologies, printers, and other miscellaneous hardware. Table 4 shows a summary count of major computer hardware types supported by OIT.

Table 4: Major Computer Hardware Supported by OIT

| Type | Count |
|--|-------|
| Servers | 106 |
| Network nodes (routers/switches/hubs/other.) | 285 |
| Telephone stations (analog/digital) | 1,423 |
| Laptops and tablets (PC/Mac) | 295 |
| Desktops (PC/Mac) | 1,372 |
| Printers (Laser/DeskJet) | 224 |
| Data projectors | 72 |
| Miscellaneous technologies (faxes, PDAs, etc.) | |

Details on the University’s servers, laptop/desktop models, and printers can be found in **Appendices D, E, and F** respectively.

6. Computer software

The Office of Information Technology is responsible for the implementation, support, and upgrading of enterprise, departmental, and desktop software applications. Enterprise software applications are those that are used across the enterprise (Banner student system, BiTech financial system), while departmental application systems are those that are primarily used by one or two departments (Facilities Management System, Viking Alumni Development system). Enterprise and departmental systems in use at the University and supported by OIT, along with their relationships and integration, can be seen in **Appendix G**. There are two categories of desktop software applications: those used institution-wide and supported centrally by the Office of Information Technology (known as “*Standard*” desktop software) and those used by a department and supported by personnel in that department (known as “*Specialized*” desktop software). A detailed list of *Standard* and *Specialized* desktop software applications can be seen in **Appendix H**.

7. Workspace

The Office of Information Technology staff operates out of two buildings on the main campus: OIT North (above the University Bookstore) and OIT East (the south-eastern most building under University use), as shown in **Appendix I**. The Office of the Chief Information Officer and the Enterprise Applications Support departments occupy the second floor of the University Bookstore. The Director and the Chief Information Officer have private offices, while staff members work in two large rooms with divider furniture (cubicles) for privacy. There is a small meeting room that serves as a Web conferencing room when necessary. A floor layout of this area can be seen in **Appendix J**. The Infrastructure Support Department and Client Services occupy OIT East, which consists of a ground floor and a mezzanine second floor. The ground floor consists of Client Services functions, while the upper floor houses the Infrastructure Support functions. The Directors have private offices, but all other staff share office space or work in open technician work areas. Like OIT North, there is somewhat adequate space to house current staff, but there is no room for future growth. A floor layout of this area can be seen in **Appendix K**. Total space available to OIT personnel is shown in Table 5.

Table 5: Office of Information Workspace

| Type | Number | Adequate? (yes/no) |
|--|--------|--------------------|
| Rooms (private) | 5 | No |
| Rooms (2 or more people in open floor plan) | 5 | Yes |
| Cubicles | 10 | Yes |
| Square footage total (office space) | 3,347 | No |
| Square footage per employee (including student assistants) | 108 | No |

The University houses its computing and core networking components in two rooms, one in Woody Hall (approximately 120 square feet) and one in Founders Hall

(approximately 600 square feet). Neither of these spaces are properly designed data centers, but rather are make-shift areas in which technologies reside, in a precarious state; they both lack basic data center environmental control systems such as automatic fire detection and suppression systems and Uninterruptible Power Systems.

8. Material and equipment

The Office of Information Technology maintains an inventory of supplies and tools in order to affect repairs in a timely manner. These materials range from toolkits to network sniffers to software applications.

9. Operating budget

The operating budget for the Office of Information Technology has grown each year for the past five budget years in terms of both dollar amounts and as a percentage of the institutional budget, as shown in Table 6.

Table 6: OIT Annual Operating Budget

| | OIT Budget | Annual Increase | Institutional Budget | Annual Increase | OIT Budget as percentage of Institution's Actual |
|-----------|-------------------|------------------------|-----------------------------|------------------------|---|
| 2004/2005 | \$3,559,136 | | \$95,781,445 | | 3.72% |
| 2005/2006 | \$4,067,886 | 14.29% | \$103,606,221 | 8.17% | 3.93% |
| 2006/2007 | \$4,208,568 | 3.46% | \$107,837,389 | 4.08% | 3.90% |
| 2007/2008 | \$4,623,336 | 9.86% | \$112,807,491 | 4.61% | 4.10% |
| 2008/2009 | \$5,274,451 | 14.08% | \$116,764,128 | 3.51% | 4.52% |

Source: University of La Verne Budget Office

The budget increases reflected increased contractual costs due to major new technology initiatives (annual increases and new enterprise software/hardware implementations), as well as a concerted effort to move towards fully funding the annual technology depreciation lifecycle necessary to replace and upgrade desktop and infrastructure hardware in a consistent manner.

When measured against peer comparison institutions, the Office of Information Technology annual operating budget ranks among the lowest in terms of centralized IT funding per FTE student, as shown in Table 7.

Table 7: Centralized IT Funding Ranking Against Comparison Institutions

| 2007/2008 | Average of Comparison Institutions | University of La Verne | Ranking |
|--|---|-------------------------------|----------------|
| Student FTE | 4,598 | 5,230 | 9/20 |
| Centralized IT Funding per FTE Student | \$1,445 | \$912 | 17/19 |

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IV. Effectiveness Indicators

a. Indirect indicators

In early 2010, a survey was emailed to both **full-time faculty and faculty adjuncts** to determine their satisfaction level with technology services provided to them. The survey sought to gauge their satisfaction with the Smart Classrooms (technology-enhanced) they teach in, the technologies used to enhance campus communications, their ability to get information from the University's enterprise application systems, their use of technology training made available to them, and the level support they receive from the Office of Information Technology. Results of the faculty survey can be seen in **Appendix L**.

In early 2010, a survey was mailed to all **staff (classified and Administrative Professional employees)** to determine their satisfaction level with technology services provided to them. The survey sought to gauge their satisfaction with their technologies, the technologies used to enhance campus communications, their ability to get information from the University's enterprise application systems, their use of technology training made available to them, and the level support they receive from the Office of Information Technology. Results of the staff survey can be seen in **Appendix M**.

In early 2010, a survey was mailed to all **students** to determine their satisfaction level with technology services provided to them. The survey sought to gauge their satisfaction with the email services the University provides, the usefulness of the University's website, and the adequacy of the wireless coverage provided for their use. Results of the student survey can be seen in **Appendix N**.

As of July 2009, a short **user-satisfaction survey** has been sent to campus constituents following the closure of each workorder they call into the Technology Help Desk. This survey gives the faculty and staff members the opportunity to rate their satisfaction with the work performed with regards to the workorder. Results of the student survey can be seen in **Appendix O**.

b. Direct Indicators

The Office of Information Technology maintains and analyzes the ongoing financial, staffing, and system statistics and logs related to the support and performance of the University's technologies. These data are reviewed on a regular basis to determine operational efficiency, identify problems or bottlenecks, and measure success.

The **Budget Impact Ratio** is defined as the total institutional budget for information technology divided by the total institutional budget net of financial aid. The 2004/2005 Budget Impact Ratio Carnegie Classification Comparison for Masters institutions at the 50th percentile was 5.1%. Over the last four years the University of

La Verne has increased its ratio and is now above the 50th percentile figure, as shown in Table 8.

Table 8: Budget Impact Ratio

| | 2005/2006 | 2006/2007 | 2007/2008 | 2008/2009 |
|---|---------------|---------------|---------------|---------------|
| Total Institutional Budget | \$103,606,221 | \$107,837,389 | \$112,807,491 | \$116,764,128 |
| Student Financial Aid | \$ 18,588,984 | \$ 17,432,990 | \$ 17,632,667 | \$ 18,469,272 |
| Total Institutional Budget Net of Financial Aid | \$ 85,017,237 | \$ 90,404,399 | \$ 95,174,824 | \$ 98,294,856 |
| Total Institutional Budget for IT | \$ 4,067,886 | \$ 4,208,568 | \$ 4,623,336 | \$ 5,274,451 |
| Budget Impact Ratio | 4.8% | 4.7% | 4.9% | 5.4% |

The **Budget Support Level** is defined as the total institutional budget for information technology divided by the total headcount of employees and students. The 2004/2005 Budget Support Level Carnegie Classification Comparison for Masters institutions at the 50th percentile was \$740. The University of La Verne remains well below the 50th percentile figure, as shown in Table 9.

Table 9: Budget Support Level

| | 2005/2006 | 2006/2007 | 2007/2008 | 2008/2009 |
|--------------------------------------|-------------|-------------|-------------|-------------|
| Employee Headcount | 868 | 717 | 829 | 734 |
| Student Headcount | 8,324 | 8,328 | 8,401 | 8,853 |
| Total Headcount Employees + Students | 9,192 | 9,045 | 9,230 | 9,587 |
| Total Institutional Budget for IT | \$4,067,886 | \$4,208,568 | \$4,623,336 | \$5,274,451 |
| Budget Support Level | \$ 443 | \$ 465 | \$ 501 | \$ 550 |

The **Staff Support Level** is defined as the total headcount of employees plus students divided by the total Information Technology professional and student support staff. The 2004/2005 Staff Support Level Carnegie Classification Comparison for Masters institutions at the 50th percentile was 107. Over the last four years the University of La Verne's IT staff support level has been more than double that number and the ratio is increasing by 5-10% each year, as can be seen in Table 10.

Table 10: Staff Support Level

| | 2005/2006 | 2006/2007 | 2007/2008 | 2008/2009 |
|---------------------------------------|-----------|-----------|-----------|-----------|
| Employee Headcount | 868 | 717 | 829 | 734 |
| Student Headcount | 8,324 | 8,328 | 8,401 | 8,853 |
| Total Headcount Employees + Students | 9,192 | 9,045 | 9,230 | 9,587 |
| IT Professional Staff FTE | 27 | 26 | 24 | 27 |
| IT Student Staff FTE | 11 | 11 | 11 | 6 |
| Total IT Professional & Student Staff | 38 | 37 | 35 | 33 |
| Staff Support Level | 240 | 246 | 265 | 291 |

Computer Availability is defined as the total headcount of employees plus students divided by the total number of institutional computers. The 2004/2005 Staff Support Level Carnegie Classification Comparison for Masters institutions at the 50th percentile was 3.7. The University of La Verne's computer availability figure has been more than double that number the ratio is increasing by 5-10% each year, as can be seen in Table 11.

Table 11: Staff Support Level

| | 2005/2006 | 2006/2007 | 2007/2008 | 2008/2009 |
|---|-----------|-----------|-----------|-----------|
| Employee Headcount | 868 | 717 | 829 | 734 |
| Student Headcount | 8,324 | 8,328 | 8,401 | 8,853 |
| Total Headcount Employees + Students | 9,192 | 9,045 | 9,230 | 9,587 |
| Total Number of Institutional Computers | 1,125 | 1,217 | 1,302 | 1,512 |
| Computer Availability | 8 | 7 | 7 | 6 |

Work Orders Closed within One Hour identifies the number and percentage of workorders reporting technology problems or requests for assistance that are closed within one hour of being reported. This percentage indicates how quickly the Office of Information Technology Help Desk is able to resolve users' technology problems and issues.

Table 12: Work Orders Closed within One Hour

| | 2004/2005 | 2005/2006 | 2006/2007 | 2007/2008 | 2008/2009 |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Completed work orders | 7,054 | 8,379 | 11,250 | 11,600 | 10,408 |
| Work orders completed within one hour | 1,457 | 1,697 | 3,207 | 2,922 | 3,105 |
| Percentage completed within one hour | 20.7% | 20.5% | 28.5% | 25.2% | 29.8% |

In the first ten months of 2009/2010, following the deployment of remote-control software allowing Technicians to access users' desktops remotely, the percentage of workorders resolved within one hour has risen to 36.7% (3,139 of 8,547).

Malicious Emails Blocked Before Delivery identifies the number and percentage of incoming emails that are properly identified as spam or malicious and removed from the system rather than being delivered to users mailboxes. This reduces clutter, saves on electronic storage, and prevents malware from being introduced into the University's intranet.

Table 13: Malicious Emails Blocked Before Delivery

| | Emails Rec'd | Emails Blocked | Emails Accepted | % Blocked |
|-----------|--------------|----------------|-----------------|-----------|
| 2008/2009 | 362,816,487 | 355,560,158 | 7,256,329 | 98% |

Enterprise System Availability identifies the amount of time in a given year that the University's major enterprise systems by the Office of Information Technology are available. Unplanned downtime accounts for .

Table 14: Enterprise System Availability

| | 2004/2005* | 2005/2006* | 2006/2007* | 2007/2008* | 2008/2009 |
|-----------------------|------------|------------|------------|------------|-----------|
| Internet Connection | 97.71% | 97.96% | 98.68% | 99.92% | 99.97% |
| LeoPac Library System | 99.98% | 99.98% | 99.94% | 99.98% | 99.97% |
| Student System | 99.73% | 99.84% | 99.92% | 99.98% | 99.89% |
| Student Self-Service | 99.98% | 99.98% | 99.94% | 99.91% | 99.85% |

*Estimates

V. Findings

In July of 2009, the Office of Information Technology started conducting ongoing surveying of campus constituents each time a technology workorder was completed and closed. Surveys were returned for a little over 4% of the more than 8,400 completed workorders, however many workorders are entered by OIT personnel to track work such as the imaging of computers and the installation of technology infrastructure rather than being called in by campus constituents. OIT personnel do not complete the surveys in order to avoid skewing the results. Of the 383 surveys returned, an overwhelming majority (93%) report the campus constituent was either *satisfied* or *very satisfied* with the work performed. Looking at the extremes, 2.1% reported being *very dissatisfied*, while 87.2% reported being *very satisfied* with the work performed.

During the first quarter of 2010, the Office of Information Technology conducted three point-in-time surveys (to faculty, staff, and students) and one on-going survey (to faculty and staff who submit workorder tickets to the OIT Help Desk) designed to gauge user satisfaction with services and technologies provided by the Office of Information Technology.

During the first quarter of 2010, the Office of Information Technology sent out a point-in-time survey to full-time and adjunct faculty. One hundred and twenty six faculty members responded, representing approximately 30% (57) of the full-time and 10% (66) of the adjunct faculty. Seventy three (59.3%) of the faculty participants were male. Over 70% of the faculty participants taught predominantly at the main campus. Almost two-thirds used a desktop, rather than a laptop (although some also had a laptop) and four-fifths used a PC.

During the first quarter of 2010, the Office of Information Technology sent out a point-in-time survey to all full-time staff members (Classified and Administrative Professional). One hundred and forty one staff responded, representing a little more than one-third of the University's 418 staff. Almost three-quarters (of those who participated) were female. Fifty-eight classified and eighty-one Administrative Professional staff, representing 32.2% and 34% of their respective classifications, participated in the survey. The vast majority reported using a desktop rather than a laptop (92.8%) and a PC rather than a Mac (94.2%).

During the first quarter of 2010, the Office of Information Technology sent out a point-in-time survey to all main campus students. The Office of Information Technology provides the back-end technologies that students use (such as email), but has very little direct contact with them. Two hundred and five students responded, representing almost 6% of the registered main campus student headcount. Closely reflecting the University's gender breakdown, almost 70% of the respondents were female. Eighty-five (41.9%) were graduates, seventy-nine (38.9%) were traditional undergraduates, and forty (19.7%) were CAPA Campus Accelerated Program for Adults). Almost four-fifths were commuters, with only 20.1% reporting they lived on campus in student housing. The

majority of the students participating in the survey (83.5%) reported they use a PC and over two-thirds use a laptop, rather than a desktop.

A Comparison of the University of La Verne's support for technology with that of about twenty of its peer institutions reveals the following:

- Although the University of La Verne has been increasing both the dollar amount and the percentage of the Institution's annual budget it allocates towards the support of technology, it still lags behind the average for like-institutions. EDUCAUSE reports the average IT funding as a percentage of the institution's budget for Doctoral Intensive institutions for 2008 was 6%. At \$912 per student FTE, the University of La Verne's funding for technology is one of the lowest in its comparison group, which averages \$1,445 per student FTE. This shortfall has resulted in unmanageable timelines for the Institution's hardware replacement lifecycle;
 - A standard four-year replacement lifecycle for desktop and laptop computers extends to an eight-year timeline;
 - A standard six-year replacement lifecycle for servers and network equipment extends to a twelve-year lifecycle.
- The Office of Information Technology support-staff-to-student ratio is one of the highest in its comparison group. Although the University is right in the middle of its comparison group in terms of student FTE (5,230 compared with an average of 4,598), it ranks dead last in the number of IT support staff per student headcount. The average for the comparison institutions was 115 student FTEs per central IT support staff compared to the University of La Verne's 198. The Office of Information Technology struggles to provide technology support in those areas that are under-staffed, such as Desktop Support and Enterprise Applications Services. Limited hours of support and large backlogs of projects result in an inability to provide the level of support appropriate. WASC's recent post-visit report noted that technology staffing levels are insufficient to meet the University's stated strategic plans. The staffing issue also means OIT must run a "lights out" operation in the data centers, with no staff available in the evening and on weekends while the academic programs are in full operation.
- The University's "Data Center" has very poor environmental controls, rendering the University at risk of recurring or catastrophic system failures. As a result, a number of its critical systems (such as Finance/Human Resources, the Website, and the Learning Management System) have been moved off-campus into fully-hosted outsourcing partnerships. While this provides stronger physical environments, it puts the strategic systems of the University into the hands of non-University personnel. The Data Center lacks basic environmental controls, such as Fire suppression and Uninterruptable Power Systems. Air conditioning was only recently installed at a tonnage that can accommodate the equipment. The University has suffered a number of near catastrophic failures such as water leaking through the Data Center ceiling and air-conditioning failures that resulted in prolonged temperatures about 110 degrees in the room.

Significant progress has been made towards fulfilling the technology-related five-year strategic goals and objectives related to the University's Five-Year Plan of 2007-2011:

1. University of La Verne Strategic Goal #2, Strategic Objective #1

To provide resources and support to help both full-time and part-time faculty achieve excellence in teaching in the classroom or online.

- i. **OIT Objective 1:** *Provide ubiquitous and functioning Smart Classroom capability in all formal University-owned classrooms through a mix of permanently installed and portable instructional technologies.*

Overall, faculty reported strong satisfaction with the smart classroom technologies and services provided by the Office of Information Technology. More than 84% of faculty either *agreed* (38.1%) or *strongly agreed* (46%) that OIT provides overall technology support services that meet their instructional needs. A similar number felt there were adequate numbers of smart classrooms available, validating the fact that nearly 96% of classroom spaces on the main campus are Smart Classrooms. A majority felt that the types of hardware and software provided *always* or *often* met their instructional needs (76.4% and 71.2% respectively). Roughly 72% of faculty reported that OIT *always* or *often* maintains fully functioning equipment in the smart classrooms, with only 1 faculty member reporting the equipment was *rarely* maintained.

- ii. **OIT Objective 2:** *Provide faculty teaching in a Smart Classroom with the ability to contact a technology support person directly from the classroom and receive immediate remote technology support, or in person assistance within 15 minutes.*

Telephones have been installed in all classrooms with signs providing the OIT Technology Help Desk phone number to ensure faculty teaching a class can contact OIT personnel directly for assistance. The OIT Service Level Agreement calls for technicians to stop all but emergency work and go to the classroom to attend to a technology issue affecting the teaching environment. Most faculty felt OIT support staff *always* (51.2%) or *often* (19%) promptly and attentively remedied any technological related problems they experienced in the smart classrooms, however 14% felt they only did so *sometimes* and 5% *rarely*.

2. University of La Verne Strategic Goal #3, Strategic Objective #2

To enhance internal communications strategies to keep members of the University community better informed and apprised of key developments, accomplishments, and activities.

- i. **OIT Objective 3:** *Ensure all faculty, staff, and students have a functional University email account with appropriate space allocation to conduct business.*

All new full-time faculty are issued a University email account when upon hire, while adjunct faculty receive them when they are first authorized to teach a course for the University. Adjunct faculty may keep their account for up to two years

without teaching a course for the University. Staff members receive a University email account as soon as they are hired and are eligible to keep it so long as they are employed by the University. Students are issued a University-based Gmail account when they enroll in their first course and are eligible to keep it for life. All official University electronic communication is sent to student, faculty, and staff University-issued email accounts.

Over 80% of faculty and 78% of staff indicate their email account *always* or *often* has sufficient space for them to conduct University-related business, however about 10% of the faculty and staff respondents report their account *rarely* or *never* has enough space. When OIT migrated to the Microsoft Exchange platform for faculty and staff, email quotas were increased from 250MB to 512MB for faculty and from 30MB to 256MB for staff. The majority of students reported being *always* (53.7%) or *often* (32.2%) satisfied with their University Gmail services, with less than 4% being *rarely* or *never* satisfied. Students were migrated to the Google educational Gmail system in 2008, increasing their allotted storage quota from 30MB to 7GB, validated by the significant satisfaction with this change: 89.8% of them *strongly agree* (63.9%) or *agree* (25.9%) that their account has sufficient space to conduct University-related business and only 1% *disagreeing* or *strongly disagreeing*.

The vast majority of faculty and staff (80-86%) report their email account is *always* or *often* easy to access from both on- and off-campus.

- ii. **OIT Objective 4:** *Provide the University community with various ways to communicate key campus developments, accomplishments, and activities to the University community using a variety of modalities.*

The University community is able to communicate developments, accomplishments, and activities via email, telephone messages, and the University Website.

While almost 76% of staff *agreed* or *strongly agreed* that the new faculty/staff email Global Access List makes it easier for them to communicate with the campus community, only 53.6% of faculty felt the same way. About 15% of each group was *neutral* on the matter.

A little over half the staff (54.3%) and only one quarter of the faculty (27.7%) *agreed* or *strongly agreed* that voicemail announcements were useful in keeping them updated on urgent University events and programs. These numbers changed to 47.5% for staff and 30.1% for faculty when looking at the usefulness of the voicemail announcements for updating them on current events and programs. Only half the staff and a quarter of the faculty report listening to their voicemail messages on a regular basis (*often* or *always*).

A majority of students (77.6%), faculty (71.5%), and staff (79.3%) feel the new University website keeps them updated on current University events and programs. Almost half the faculty and staff read the website front page articles *often* or *always*, while only about 37% of students do so. An additional one-third of each population reads them at least *sometimes*. Many also felt the new website contained the resources and information they needed to conduct business (78.7% of students and 71.7% of staff) or instructional and professional needs (65.9% of faculty). While almost 67% of students and 60% of staff feel the re-designed website makes it easier for them to find the information they need, only 48.4% of faculty share this attitude. Only 15% of students and staff feel the new website has not made it easier to find the information they need, however close to one in three faculty feel that way (27.8%). Four out of five faculty and staff find the new website visually inviting (aesthetics), but less than three out of five (54.7% and 60.6% respectively) find it easy to navigate (functionality). The preponderance of students, on the other hand, find it both visually inviting (82.3%) and easy to navigate (71.5%).

- iii. ***OIT Objective 5:*** *Communicate key technology developments, accomplishments, and activities to the University community on a regular basis.*

The Chief Information Officer sends out a general semi-regular email (once or twice a month) to all faculty and staff providing regular technology updates to all faculty and staff. Other informational emails regarding specific technology issues are sent out by both the CIO and technology Directors as needed.

Many faculty (62%) and most staff (80.9%) *often* or *always* read the CIO's technology news briefs. Almost 20% of faculty and 5% of staff hardly ever read them. The majority of staff (87.3%) and faculty (69%) agreed or strongly agreed that the CIOs technology news briefs were useful to keep them updated with information related to technology services. While about 10% were ambivalent about the matter, only about 5% felt the missives were of little use to them.

3. ***University of La Verne Strategic Goal #7, Strategic Objective #4***
To continue to expand the University's technology infrastructure [in a secure and managed manner] to support teaching and learning and administrative functions.
- i. ***OIT Objective 6:*** *Provide adequate, secure, high-availability network and server infrastructures to accommodate instructional and administrative functional needs.*

The Technology Infrastructure Services department within the Office of Information Technology has migrated all the University's primary servers and networks equipment to highly redundant, robust platforms to minimize downtime. As a result, the majority of critical systems maintained by OIT were available over 99.9% of the time last year and the majority of the unplanned downtime was caused by electrical or air-conditioning failures.

- ii. **OIT Objective 7:** *Provide ubiquitous and high-capacity wireless capability in and around academic buildings.*

In June of 2010, the campus will complete one-year project to expand and install a ubiquitous, high speed (802.11n) wireless network infrastructure on the main campus. At the time of the student survey, the wireless implementation was about 70% completed and more than 80% of the students reported using it at some time, with more than 56.1% using it *often* or *always*. More than 65% of the students reported the wireless system met their needs, while 26.2% of them were *neutral* on the subject. The 8% that felt the wireless did not meet their needs were likely in the Oaks residence hall, which had not yet had wireless installed. About one-third of the staff and half the faculty use the wireless system on a fairly regular basis. The vast majority of those that do use it report the speed of the wireless system as being at least adequate.

- iii. **OIT Objective 8:** *Provide adequate personal computing access to ensure all students who need to use a computer and/or standard software are able to do so in a timely manner.*

Over one-third of students always use their personal laptop computer on campus and a further 32.7% use them *sometimes* or *often*. Only 19% of students report they never use their personal laptop on campus. A number of computer labs are maintained on campus to accommodate those students who don't have or don't bring their personal computer to campus. These labs contain 222 computers available for student use.

4. **University of La Verne Strategic Goal #8, Strategic Objective #2**

To create greater efficiency and effectiveness in academic and administrative processes.

- i. **OIT Objective 9:** *Enable Technicians to access clients' computers remotely for Help Desk assistance calls and complete a minimum of 25% of technology workorders remotely and 50% on the same day they are received.*

The Client Services department within the Office of Information Technology implemented remote control software allowing Technicians to access users' desktops remotely in early 2008 and then refined it in early 2009. During 2008/2009, almost 30% of all calls were resolved within one hour of being received. In the first ten months of 2009/2010, following the deployment of the enhanced remote-control capabilities, the percentage of workorders resolved within one hour has risen to 36.7% (3,139 of 8,547).

- ii. **OIT Objective 10:** *Partner with academic and administrative departments to identify and implement technological solutions that enhance the efficiency and effectiveness of their processes.*

During 2008/2009 the Office of Information Technology moved forward with a number of major projects to enhance the efficiency and effectiveness of administrative and academic processes, including (but not limited to):

- Expansion of the SAN disk farm to accommodate academic archiving of Communication and Photography files;
- Installation of high-speed, ubiquitous wireless on the main campus;
- University Website redesign;
- Implemented the BookNow process to allow students to see what books they would need for classes they register for and then take them to the Bookstore site to purchase them;
- Moved all credit card processing off-campus to ensure compliance with PCI-DSS legislation;
- Migrated to the Exchange email system to provide faculty and staff more email storage and access to the University's list of employee addresses via the Global Address List;
- Set up a process to enable students to sign up for emergency notification messages;
- Assisted with migration of Human Resources from FoxPro to BiTech enterprise system;
- Implementation of the Banner Operational Data Store (ODS) system and Cognos reporting system to improve reporting opportunities from Banner.

5. University of La Verne Strategic Goal #8, Strategic Objective #3

To effectively integrate our data enterprise information systems to provide a seamless, automated, user-friendly, and accurate information system for effective decision-making.

- i. OIT Objective 11: Simplify the process of accessing multiple data systems through the use of single or simplified sign-on capabilities.*

At this time, the campus has no single or simplified sign-on capabilities in place. A campus portal providing simplified sign-on capabilities to most of the enterprise application systems has been identified and obtained. It is scheduled for implementation in the latter half of 2010. The department's ability to provide ongoing support for this portal is questionable due to very limited staff in the enterprise Application Services department. The University has entered into a contractual agreement with a consortium for back-end technical support of the product.

- ii. OIT Objective 12: Provide data warehousing capabilities to bring operational data from disparate systems together into data repositories more conducive to supporting Business Intelligence/Academic Analytics and end-user reporting.*

The Office of Information Technology implemented the Banner Operational Data Store and the Cognos data analytics application as the first step towards providing full-blown data warehousing capability. Training sessions were held for OIT staff,

Institutional Research staff, and key functional users, however the system has not been used since the training. The shortage of technical support staff in the Enterprise Application Services department has meant OIT has been unable to support and market this initiative. In the year 2000, EAS had eight staff members to support eight enterprise applications. Today, they have six staff members (and .5 FTE contracted staff) to support almost thirty-two enterprise applications.

6. ***University of La Verne Strategic Goal #9, Strategic Objective #4***

To develop employee training programs and support services to enhance the ability of faculty and staff to address the needs of our students.

- i. ***OIT Objective 13:*** *Provide online training opportunities to faculty, staff, and students for all major desktop software applications supported by the University.*

The Office of Information Technology provides Computer-Based Training courses to the University community for all standard desktop software applications supported by OIT. Over 62% of the faculty and 79% of the staff are *aware* of this online training, however only 28% of faculty and 23% of staff have made use of it.

- ii. ***OIT Objective 14:*** *Facilitate administrative training and support for new and upgraded software applications used by the University in support of students.*

The Office of Information Technology works closely with the functional areas that use the major enterprise application systems at the University. They provide the facilities and access to test versions of the software applications so that training can be conducted.

- iii. ***OIT Objective 15:*** *Provide OIT staff with ongoing technical training opportunities for each system they are charged with supporting and maintaining.*

The Office of Information Technology has received increased training budget over the past two years, however the training budget per technical staff FTE is seriously underfunded when compared with peer institutions. All technical staff members in OIT are responsible for the ongoing support of a number of different applications and/or systems, yet are only able to attend either training or conferences on each of them about once every six years with current funding.

VI. Action Recommendations

Determine what additional hardware and software is needed in smart classrooms for instructional usage.

- Request the Faculty Technology Committee members poll their respective constituents to determine what additional hardware and software they feel is needed to enhance the instructional experience.
- Determine whether the hardware and software would be needed in all computer labs or just particular ones.
- Prepare funding requests for the next annual budget cycle process.

Identify financial resources to ensure appropriate system replacement lifecycles for instructional equipment in smart classrooms and computer labs.

- Advocate for additional instructional technology fee allocations at a level that ensures appropriate system replacement lifecycles of equipment.
- Advocate for current instructional technology funds being used for the operational support of the Center for Teaching and Learning to be funded out of the General Fund in order to free up funding to purchase and support additional instructional software site licenses.

Increase funding for centralized technology support to at least the average of our twenty-school peer comparison group to ensure competitiveness.

- Study EDUCAUSE data to determine breakdown of budgets at peer Doctoral-Intensive institutions to focus on areas of under-funding.
- Determine funding levels necessary to appropriately maintain current operations and provide the technology to achieve the strategic goals and objectives of the University.
- Propose a funding model that provides a set percentage of the University budget allocated towards technology support.
- Prepare funding requests for maintaining current operations/system replacements lifecycles and new initiatives involving technology.

Increase staffing for centralized technology support to at least the average of our twenty-school peer comparison group to ensure competitiveness.

- Study EDUCAUSE data to determine breakdown of staffing levels at peer Doctoral-Intensive institutions to focus on technology-support areas of under-staffing.
- Determine staffing levels necessary to appropriately maintain current operations and provide the technology support to achieve the strategic goals and objectives of the University.
- Ensure all new technology initiatives include appropriate increases in technology staffing to support them.
- Contract with an outside expert (consultant/peer institution CIO) to conduct a staffing study and make recommendations regarding staff support level needs.
- Prepare staffing requests for maintaining current operations and new initiatives involving technology.

Identify technical training budget necessary for OIT personnel to effectively support the applications and systems they are responsible for supporting.

- Develop full list of applications and systems supported by OIT staff.
- Identify training opportunities and timelines for each of the applications and systems.
- Develop training schedule and rotation to ensure each staff member receives the at least the minimum training necessary to support their areas of responsibility.

Investigate potential improvements in the campus communication capabilities.

- Consider implementing unified messaging to allow voicemails to be received and managed via email accounts..
- Implement a campus-wide general and targeted announcement system via a University Web portal.
- Implement and maintain a central events calendar for University-sponsored events.

Improve the structure of the new University website to make it easier for students, faculty, and staff to find the information they need.

- Work with the Web Committee to determine areas of weakness in the Web structure that makes it difficult for constituents to find information.
- Poll constituent groups to determine what information is difficult to find and what aspects of the website are difficult to navigate.
- Work with the Web Team to make improvements to the layout, navigation, and tools (i.e. search engine and information indexing) to make the site more intuitive.

Complete the implementation of ubiquitous, high speed wireless access on the main campus, the College of Law, and the Regional Campuses.

- Install wireless capability in the Oaks residence halls on the main campus.
- Install wireless capability in periphery buildings such as OIT north, Human Resources, and the Center for Teaching and Learning.
- Install wireless capability in Regional Campus buildings.

Address the business continuity concerns with serious environmental and space deficiencies in the Institution's data center.

- Determine feasibility and costs associated with moving all remaining critical systems into the "cloud".
- Determine the feasibility and cost of constructing a data center in existing space.
- Determine the feasibility and cost of constructing a new data center (on or off the main campus).

Appendices

Appendix A

Organizational Chart for the

OFFICE OF INFORMATION TECHNOLOGY



Green text denotes Contracted Services

Appendix B

Current Office of Information Technology Employees

September 2009

| Last Name | First Name | Title | Hire Date | Brief Job Description |
|---------------|------------|---|------------|---|
| Ashcroft | Joanne | OIT Director - Client Services | 21-Oct-87 | Manages all aspects of Client Services functions, including the Technology Help Desk, Desktop Support, and Classroom and Lab Support. |
| Benavidez | Juan | Desktop Technician | Contracted | Provide primary PC and secondary Macintosh personnel computer hardware and software installation and troubleshooting support. |
| Britton | Todd | OIT Director of Enterprise Applications Support | 19-Aug-08 | Manages all aspects of Enterprise Applications support, including Programming and Analysis, Database Administration, and Web Development. |
| Chauveau | Jeffrey | Windows Systems Administrator | 01-Jun-00 | Serves as primary systems administrator for Windows-based server systems, the enterprise anti-virus system, and the Storage Area Network systems. |
| Chin | Hoyland | Classroom-Computer Lab Equipment Technician | 02-Jan-01 | Provides technical expertise and support for computer labs and Smart Classroom technologies such as data projectors, DVD players, and controller systems. |
| Crosby | Cary | Systems and Email Administrator | 05-May-08 | Serves as primary systems administrator for email, anti-spam systems and secondary systems administrator for Windows-based servers. |
| Czerniak | Justin | IT Special Projects and Asset Manager | 12-Nov-07 | Handles special projects and asset management for the Client Services area. |
| Fernandez | Pat | Telecommunications Specialist | Contracted | Provides primary support for all telephone related systems and equipment. |
| Fredette | Michael | Desktop Technician | Contracted | Provide primary Macintosh and secondary PC personnel computer hardware and software installation and troubleshooting support. |
| Henderson | James | Help Desk Manager | 01-Mar-01 | Provides Tier 2 level technical support on the Technology Help Desk, including Remote Control troubleshooting and repair. |
| Hoang | Tung | Programmer Analyst | 15-May-08 | Provides primary programming and analysis support for web-based systems. |
| Houston-Brown | Clive | Chief Information Officer | 01-Apr-97 | Provides overall guidance and strategic direction for the University technologies. |

| | | | | |
|----------|----------|--|------------|--|
| Lai | Wayne | Network Administrator | 25-Mar-02 | Provides day-to-day operational support and administration for the network infrastructure. |
| Mantecon | Marjorie | OIT Office Coordinator | 16-Jul-01 | Provides administrative support to the CIO and the Enterprise Applications Support departments and oversees the Campus Telephone Operator function using Student Assistants. |
| Miller | Sandra | OIT Office Coordinator | 25-Sep-95 | Provides administrative support to the Client Services and the Technology Infrastructure departments and serves as Tier 1 level Technology Help Desk support. |
| Mohamed | Hany | Senior Network Engineer | 03-Dec-07 | Provides strategic and day-to-day operational support for the network infrastructure access and security. |
| Natogma | Veronica | Classroom-Computer Lab Equipment Technician | 18-Jan-05 | Provides secondary systems administrator for Linux-based server systems (position in transition from Classroom-Computer Lab Equipment Technician to Assistant Linux/Unix Systems Administrator). |
| Saghian | Rosine | Assistant Database Administrator | 01-Sep-97 | Provides primary Data Warehouse/Business Intelligence and secondary Oracle Database Administration support. |
| Shamblin | Colby | Database Administrator | Contracted | Provides primary Oracle Database Administration support. |
| Smith | Mark | Unix/Linux and Windows Systems Administrator | 20-Aug-01 | Serves as primary systems administrator for Linux- and Unix-based server systems, the enterprise LDAP authentication system, and the enterprise backup system. |
| Taylor | Mancin | OIT Director - Infrastructure Support | 27-Nov-00 | Manages all aspects of Technology Infrastructure support, including networks, telecommunications, and server system administration. |
| Tresner | Brian | Assistant Director of Client Services | 01-Aug-92 | Manages the Technology Help Desk function and supervises the Desktop Technicians. |
| Vo | Nga | Senior Programmer Analyst | 04-Sep-01 | Provides primary programming and analysis support for the enterprise-level Banner Student and Financial Aid system and secondary support for a number of departmental application systems. |
| Wilson | Aurtis | Desktop Technician | Contracted | Provide primary PC and secondary Macintosh personnel computer hardware and software installation and troubleshooting support. |

| | | | | |
|------|----------|--------------------|-----------|--|
| Wu | Xiaofeng | Programmer Analyst | 04-Jan-07 | Provides primary programming and analysis support for a number of departmental-based application systems such as the Viking Alumni Development system. |
| Zhuo | Xiaomin | Web Developer | 07-Jul-08 | Provides primary Web development support for all administrative and academic department Web presences. |

Appendix C

Inventory of Basic Equipment (Office of Information Technology)

| Type | # | Adequate? (if have) | Need (if don't have) |
|--|-----|------------------------|----------------------------|
| Desktop Computers | 37 | Yes | |
| Laptop Computers | 22 | Yes | |
| Telephones | 28 | Yes | |
| Two-way Cell Phones | 30 | Yes | |
| Printer (black/white) | 5 | Yes | Aging Fleet |
| Printer (color) | 1 | Yes | Aging Fleet |
| Faxes | 3 | Yes | |
| Fax/printer/scanner/copier (4-in-one) | 2 | Yes | |
| Scanners | 0 | No | |
| Shredders | 2 | Yes | |
| Computer Projectors | 2 | Yes | |
| Television monitors | 1 | Yes | |
| CD Players | 0 | Yes | |
| Laminating machine | 0 | N/A | |
| Speakers | 0 | N/A | |
| Microphones | 0 | N/A | |
| Desktop camera | 5 | No | |
| Electric Carts | 12 | Yes | Aging Fleet |
| Gasoline vehicles | 0 | N/A | |
| Cisco 2821 (Law School Router) | 1 | Yes | |
| HP4000PC | 12 | Yes | |
| 3com hub | 4 | Yes | |
| Cisco Switches | 110 | Yes | |
| Cisco NAC CAM (Network Admission Control) | 5 | Yes | |
| Cisco MARS 100 (Monitoring, Analysis, and Response System) | 1 | Yes | |
| Cisco Wireless LAN Controllers | 4 | Yes | |
| Cisco ACS 4.1 (Access Control Server) | 1 | Yes | |
| Cisco 1841 (BiTech Router) | 1 | Yes | |
| Cisco 3745 (Internet Main Router) | 1 | Yes | |
| Cisco 3845 (Host MPLS Router) | 1 | Yes | |
| Cisco ASA 5520 (Adaptive Security Appliance) | 2 | Yes | |
| Pix 525 (Secondary Firewall) | 1 | Yes | |
| Cisco 3662 (Dial In Router) | 1 | Yes | |
| Cisco 4506 (core switch w/routing capability) | 2 | Yes | |

| | | | |
|---|-----|-----|--|
| Cisco wireless bridges | 12 | Yes | |
| Cisco IPS 4255 (Intrusion Prevention System) | 2 | Yes | |
| Cisco 3020 blade switch (Server Blade Switch) | 4 | Yes | |
| Cisco wireless APs for all campuses | 120 | Yes | |

Appendix D

University of La Verne Servers September 2009

| Count | Server Name | Purpose | O/S Platform | Location | Comments |
|-------|------------------------|---|--------------|----------------------|----------|
| 1 | ACB 110 PM | Print Manager ACB 110 | Windows 2003 | ACB 110 | |
| 2 | ACS1 | Access Control Server | Cisco NOS | FH207A | |
| 3 | ACS2 | Access Control Server | Cisco NOS | FH207A | |
| 4 | ANTIVIRUS | Anti-Virus | Windows 2003 | FH 207A | |
| 5 | BANDEVL | Test Server for Banner/Data Protector/CommandView | HP-UX 11i | FH207A | |
| 6 | BANODS | Banner - Operational Data Store (Viking DB) | HP-UX 11i | FH207A | |
| 7 | BANPROD | Production Student Information System | HP-UX 11i | FH207A | |
| 8 | BANWEB | Web Server for MyULV | HP-UX 11i | FH207A | |
| 9 | BANWEB.LaVerne.edu | Replacement Banner Web Server | HP-UX 11i | FH207A | |
| 10 | BiTech7i-1 | BITECH PRODUCTION - WINDOWS | Windows 2000 | Hosted at BiTech | |
| 11 | BiTech7i-2 | BITECH PRODUCTION - WINDOWS | Windows 2000 | Hosted at BiTech | |
| 12 | BiTech7i-Devl | BITECH DEVELOPMENT - WINDOWS | Windows 2000 | Hosted at BiTech | |
| 13 | BLACKBOARD | Blackboard - Hosted at Blackboard Corp. | RHEL3 | Hosted at Blackboard | |
| 14 | BLACKBOARDDD-SNAP SHOT | Blackboard Snap Shot Server | RHEL3 | FH207A | |
| 15 | Breeze | Presentation / Conference Software | Windows 2003 | FH 207A | |
| 16 | CAS1 | Client Access | Windows 2003 | FH207A | |
| 17 | CAS2 | Client Access | Windows 2003 | FH207A | |
| 18 | CCTV | Continuum Application | Windows 2003 | FH207A | |
| 19 | CITRIX.ulv.edu | Metaframe / FME Web /TrackITWeb/Mathe/Quark | Windows 2003 | FH 207A | |
| 20 | Citrixdev | Citrix Web devl | Windows 2003 | FH207A | |
| 21 | COMBO | Database Instances (R25,FME) | HP-UX 11i | FH207A | |
| 22 | CSMARS | Monitoring Analysis Response System | Linux | FH207B | |
| 23 | DC1 | Domain Controller | Windows 2003 | FH207A | |
| 24 | DC2 | Secondary Domain Controller | Windows 2003 | OIT East | |
| 25 | DC3 | Domain Control/Global Catalog/DNS | Windows 2003 | FH207A | |
| 26 | dcdev | DC Development | Windows 2003 | FH207A | |

| | | | | | |
|----|-----------------------------|--|----------------|------------------|--------------------|
| 27 | ELMS | ELMS - MSNDAA / DebtMaster | Windows 2003 | WH Data Room | |
| 28 | Ex1Cluster1 | Active Cluster Node | Windows 2003 | FH207A | |
| 29 | Ex1dev | Exchange Development | Windows 2003 | FH207A | |
| 30 | Ex2Cluster2 | Active Cluster Node | Windows 2003 | FH207A | |
| 31 | Ex2dev | Exchange Development | Windows 2003 | FH207A | |
| 32 | Faculty.Laverne.edu | New Faculty Server | RHEL 5 | FH207A | |
| 33 | FH207 PM | Print Manager FH 207 | Windows 2003 | FH 207 | |
| 34 | File1Cluster2 | Windows File Servers | Windows 2003 | FH207A | |
| 35 | File2Cluster2 | Windows File Servers | Windows 2003 | FH207A | |
| 36 | File3Cluster2 | Windows File Servers | Windows 2003 | FH207A | |
| 37 | File4Cluster2 | Windows File Servers | Windows 2003 | FH207A | |
| 38 | File5Cluster2 | Windows File Servers | Windows 2003 | FH207A | |
| 39 | FINDEVL | BiTech - Development Server for Finance & HR | HP-UX 11i | Hosted at BiTech | |
| 40 | FINPROD | BiTech - Production Server for Finance & HR | HP-UX 11i | Hosted at BiTech | |
| 41 | Hub1 | Hub Server Network Load Balanced | Windows 2003 | FH207A | |
| 42 | Hub2 | Hub Server Network Load Balanced | Windows 2003 | FH207A | |
| 43 | HVACdb | HVAC Monitoring | Windows 2003 | FH207A | |
| 44 | Insight Management / Altris | c7000 Blade & SAN Mgmt Server | Windows 2003 | FH207A | |
| 45 | INTBAN | Internet Native Banner Forms Server | HP-UX 11i | FH207A | |
| 46 | iSpeech | Automated Voice Response | Windows 2003 | FH Phone Rm. | |
| 47 | KULV | Audio Streaming Radio Station Server | Windows XP Pro | ACB Building | |
| 48 | LAC 240 PM | Print Manager LAC 240 | Windows 2003 | LAC 240 | |
| 49 | LEC 111 PM | Print Manager LEC 111 | Windows 2003 | LEC 111 | |
| 50 | LEOPAC | ULV Library System | HP-UX 11i | FH207A | |
| 51 | LH112 PM | Print Manager LH 112 | Windows 2003 | LH112 | |
| 52 | LH130 PM | Print Manager LH 130 | Windows 2003 | LH 130 | |
| 53 | LISTS | lists.ulv.edu mailman | RH6.2 | FH207A | |
| 54 | LMS-1 | Cisco LAN Management Server | Windows 2003 | WH Data Room | |
| 55 | LOKI | Backups - Raq 4&5 | RHEL2.1 | FH207A | To Be Discontinued |
| 56 | Luminis | Luminas Development Portal | Linux 3.0 | FH207A | |
| 57 | Lumprod.Laverne.edu | Production Luminis | RHEL4 | FH207A | |
| 58 | M4000 | Mail server | Unix | FH207B | |
| 59 | MD400 | Mail Proxy / Router | Unix | FH207B | |
| 60 | Monitor | Network Monitoring with MRTG | RHEL3 | WH Data Room | |

| | | | | | |
|----|----------------|---|---------------------|--------------|---------|
| 61 | NAC Appliance1 | Wireless-Network Admission Control | Linux | FH207B | |
| 62 | NAC Appliance2 | Wireless-Network Admission Control | Linux | FH207B | |
| 63 | NAC Appliance3 | Wireless-Network Admission Control | Berfigo | COL | |
| 64 | NAC Mgr1 | Network Admission Control Mgr1 | Linux | FH207B | |
| 65 | NAC Mgr2 | Network Admission Control Mgr2 | Linux | FH207B | |
| 66 | NTP1 | Network Time Protocol | RHEL4 | WH Data Room | |
| 67 | Open LDAP | Enterprise LDAP | RHEL4 | FH207A | |
| 68 | OTM | Telephony Manager | Windows 2003 | FH207A | |
| 69 | PFAIDS_NT | PowerFaiids Application Server / Debtmaster | Windows NT 4.0 SP6A | WH Data Room | Offline |
| 70 | Proofp-1 | ProofPoint - Anti Virus / Spam | Linux 3.0 | FH207B | |
| 71 | Proofp-2 | ProofPoint - Anti Virus / Spam | Linux 3.0 | FH207B | |
| 72 | R25ASV | Resource25 Web Viewer | Windows 2003 | WH Data Room | |
| 73 | R25Dev1 | Resource25 Development | Windows 2000 Pro | WH Data Room | Offline |
| 74 | R25WEB | Resource25 Web | Windows 2003 | WH Data Room | |
| 75 | RAQ4 | Faculty & Staff Server | Linux 2.2 | FH207A | |
| 76 | RAQ5 | Student Server (Clubs) | Linux 2.2 | FH207A | |
| 77 | Sassafrass | Key Server for Desktop Applications | RHEL3 | FH207A | |
| 78 | sdxmeal | Sodexomeal Plan | Windows 2003 | FH207A | |
| 79 | Server10 | Global DHCP Server (Data, Voice, Printer) | Windows 2003 | FH207A | |
| 80 | Server11 | Cognos | Windows 2003 | FH207A | |
| 81 | Server12 | Cisco Network Analyzer | Windows 2003 | OIT East | |
| 82 | Server13 | TrackIt/Sophos | Windows 2003 | FH207A | |
| 83 | Server14 | Makau Training Server | Windows 2003 App | WH Data Room | |
| 84 | Server15 | Scholastic Achievement / Debtmaster | Windows 2003 | FH207A | |
| 85 | Server16 | Snap Survey Server | Windows 2003 | WH Data Room | |
| 86 | Server18 | NatSci Image Renderer | Windows 2003 | FH207A | |
| 87 | Server19 | Remote Desktop Control / Asset Mgmt | Windows 2003 | FH207A | |
| 88 | Server20 | Network Licenses | Windows 2003 | FH207A | |
| 89 | SQL_DB | SQL/TrackIT Database | Windows 2003 | FH207A | |
| 90 | Symposium | Telephony ACD | Windows 2003 | FH207A | |
| 91 | TOUCHNET | Hosted - Touchnet Application Server | Windows 2003 | FH 207A | |

| | | | | | |
|-----|-------------|------------------------------------|--------------|--------------|-------------------|
| 92 | TOUCHNET PG | Hosted - Touchnet Payment Gateway | Windows 2003 | FH207A | |
| 93 | ULV-WLC1 | Wireless LAN Management Controller | Aeronet | FH207A | |
| 94 | ULV-WLC2 | Wireless LAN Management Controller | Aeronet | FH207A | |
| 95 | ULV-WLC3 | Wireless LAN Management Controller | Aeronet | COL | |
| 96 | Viking | University Relations Server | Windows 2003 | WH Data Room | |
| 97 | VoIP | Telephony VoIP1 DHCP | Windows 2003 | WH Data Room | |
| 98 | WCS | Wireless LAN Solution Engine | Linux | WH Data Room | |
| 99 | WebCT 6 | Application Server for WebCT 6 | RHEL3 | FH207A | Out of Production |
| 100 | WebCT 6 | Database Server for WebCT 6 | RHEL3 | FH207A | Out of Production |
| 101 | WebCT 8 | Application Server for WebCT 6 | RHEL 4 | FH207A | |
| 102 | WebCT 8 | Database Server for WebCT 6 | RHEL 4 | FH207A | |
| 103 | WH Lobby PM | Print Manager WH Lobby | Windows 2003 | WH Lobby | |
| 104 | WWW.ULV.EDU | ULV's Main Web Server | RHEL3 | FH207A | Out of Production |
| 105 | Xenapp | Citrix XenApp | Windows 2003 | FH207A | |
| 106 | Xenappdev | Citrix XenApp devl | Windows 2003 | FH207A | |

Appendix E

Inventory of Campus Personal Computers (Desktops and Laptops)

| Make | Model | Type | Approx. Age | Lifecycle Upgrade | No Lifecycle Upgrade |
|---------|---------------|---------|-------------|-------------------|----------------------|
| Compaq | Evo D510 | Desktop | ? | 1 | |
| Compaq | Evo D510 SSF | Desktop | ? | | 1 |
| Dell | 2400 | Desktop | | 1 | |
| Dell | 4100 | Desktop | 6 years | | 12 |
| Dell | 4300 | Desktop | 5 years | 4 | 8 |
| Dell | 4400 | Desktop | 5 years | 1 | 17 |
| Dell | 4500 | Desktop | 5 years | | 4 |
| Dell | 4550 | Desktop | 5 years | 87 | 13 |
| Dell | 4600 | Desktop | 4 years | 93 | |
| Dell | 8200 | Desktop | 5 years | 6 | 1 |
| Dell | 8300 | Desktop | 5 years | 1 | |
| Dell | GX240 | Desktop | 5 years | 2 | 1 |
| Dell | GX260 | Desktop | 5 years | 1 | |
| Dell | GX270 | Desktop | 5 years | 4 | 1 |
| Dell | GX280 | Desktop | ? | 1 | |
| Dell | Precision 350 | Desktop | ? | 1 | |
| Dell | Precision 450 | Desktop | 5 years | 1 | |
| Gateway | 5200 | Desktop | ? | | 1 |
| HP | 7800 | Desktop | 3 years | 40 | |
| HP | d530 | Desktop | 4 years | 75 | |
| HP | dc2300 | Desktop | 2-3 years | 4 | |
| HP | dc5000 | Desktop | 4 years | 25 | |
| HP | dc5000 SFF | Desktop | 4 years | | 1 |
| HP | dc5100 | Desktop | 3-5 years | 157 | 30 |
| HP | dc5150 | Desktop | 3 years | 9 | |
| HP | dc5750 | Desktop | 1-3 years | 241 | |
| HP | dc5750 SFF | Desktop | 3 years | 3 | |
| HP | dc5800 | Desktop | 6 mos-2 yrs | 197 | |
| HP | dc5850 | Desktop | 1 year | 1 | |
| HP | dc7600 | Desktop | 2 years | 1 | |
| HP | dc7700 | Desktop | 3 years | 1 | |
| HP | dc7800 | Desktop | 1 year | 5 | 2 |
| HP | dc7900 | Desktop | 1 year | 2 | |
| HP | dx5150 | Desktop | 3 years | 175 | |
| HP | dx5750 | Desktop | 3 years | 1 | |

| | | | | | |
|-----------|---------------|---------|------------|----|---|
| HP | EVO d500 | Desktop | 5 years | | 1 |
| HP | EVO d510 | Desktop | 5 years | | 2 |
| HP | EVO xw4300 | Desktop | 3 years | 6 | |
| HP | Vectra | Desktop | 2 years | 1 | |
| KAT | 450 | Desktop | ? | | 1 |
| KAT | 650 | Desktop | ? | | 1 |
| KAT | 866 | Desktop | ? | | 1 |
| Macintosh | eMac | Desktop | 5 years | 8 | 1 |
| Macintosh | iMac G4 | Desktop | 2 years | 1 | 1 |
| Macintosh | iMac G5 | Desktop | 1 year | 3 | |
| Macintosh | iMac5 | Desktop | 3 years | 11 | |
| Macintosh | iMac7 | Desktop | 1 year | 24 | |
| Macintosh | iMac8 | Desktop | 1 year | 20 | |
| Macintosh | iMac9 | Desktop | 6 mos. | 3 | |
| Macintosh | Mac Mini | Desktop | 2-3 years | 11 | |
| Macintosh | Mac Pro | Desktop | ? | 2 | |
| Macintosh | MacMini 2 | Desktop | 1-2 years | 2 | |
| Macintosh | MacMini 3 | Desktop | 6 mos. | 1 | |
| Macintosh | MacPro1 | Desktop | 3 years | 3 | |
| Macintosh | MacPro3 | Desktop | 1 year | 3 | |
| Macintosh | MacPro4 | Desktop | 6 mos. | 7 | |
| Macintosh | PowerMac G4 | Desktop | 5 years | 13 | |
| Macintosh | PowerMac G5 | Desktop | 4 years | 12 | |
| Asus | Eee | Laptop | ? | 1 | |
| Dell | Inspiron 2650 | Laptop | ? | 1 | |
| Dell | Inspiron 5100 | Laptop | 5 years | 3 | |
| Dell | Inspiron 8100 | Laptop | 6 years | 1 | 1 |
| Dell | Lateral c640 | Laptop | 5 years | 7 | |
| Dell | Lateral c840 | Laptop | ? | | 3 |
| Dell | Lateral d505 | Laptop | ? | 1 | |
| Dell | Lateral d600 | Laptop | ? | | 1 |
| Dell | Lateral d800 | Laptop | 5 years | | 1 |
| Dell | Lateral d820 | Laptop | 5 years | 1 | |
| Gateway | M405 | Laptop | ? | | 1 |
| Gateway | M675 | Laptop | 4 years | 1 | |
| HP | 2710p | Laptop | 1 year | 1 | |
| HP | 6510b | Laptop | 1-2 years | 58 | |
| HP | 6515b | Laptop | 2 years | 2 | |
| HP | 6530b | Laptop | 1 year | 2 | |
| HP | 6715b | Laptop | 1 year | 14 | |
| HP | 6730b | Laptop | 6 mos-1 yr | 7 | |

| | | | | | |
|---------------|----------------|--------|-----------|--------------|------------|
| HP | 6730s | Laptop | 2 mos | 1 | |
| HP | 6820s | Laptop | 1 year | 2 | |
| HP | 8510p | Laptop | 1 year | 1 | |
| HP | 8530w | Laptop | 1 year | 1 | |
| HP | 8710p | Laptop | 1 year | 1 | |
| HP | Compaq 6110 | Laptop | 4 years | 1 | |
| HP | dx9030 | Laptop | 5 years | 1 | |
| HP | nc6000 | Laptop | 4 years | 1 | |
| HP | nc6110 | Laptop | 4 years | 2 | |
| HP | nc6230 | Laptop | 4 years | 21 | |
| HP | nc6400 | Laptop | 3 years | 43 | |
| HP | nc8000 | Laptop | 3 years | 1 | |
| HP | nc8200 | Laptop | 3 years | 3 | |
| HP | nc8230 | Laptop | 3 years | 9 | |
| HP | nc8430 | Laptop | 3 years | 1 | |
| HP | nx6110 | Laptop | 4 years | 21 | |
| HP | nx9010 | Laptop | 5 years | 3 | |
| HP | nx9030 | Laptop | 5 years | 8 | |
| HP | nx9420 | Laptop | 2-3 years | 17 | |
| HP | nx9600 | Laptop | 3 years | 1 | |
| HP | tc4400 | Laptop | 4 years | 1 | |
| HP | tc5200 | Laptop | 4 years | 1 | |
| Macintosh | MacBook 4 | Laptop | 1 year | 1 | |
| Macintosh | MacBook 5 | Laptop | 1 year | 13 | |
| Macintosh | MacBook Pro | Laptop | 1 year | 17 | |
| Macintosh | MacBook Pro 4 | Laptop | 1 year | 1 | |
| Macintosh | MacBook Pro 5 | Laptop | 6 mos. | 1 | |
| Macintosh | PowerBook 5 | Laptop | 4 years | 1 | |
| Macintosh | PowerBook G4 | Laptop | 4-5 years | 7 | |
| Toshiba | Satellite 1800 | Laptop | 5 years | 1 | |
| Toshiba | Satellite A105 | Laptop | 5 years | 1 | |
| Toshiba | t5600 | Laptop | 2 years | 1 | |
| Toshiba | Tablet | Laptop | 4 years | 1 | |
| Toshiba | Tecra M4 | Laptop | 3 years | 1 | |
| Toshiba | Tecra M9 | Laptop | 3 years | 1 | |
| | | | | | |
| TOTALS | | | | 1,560 | 107 |

Appendix F

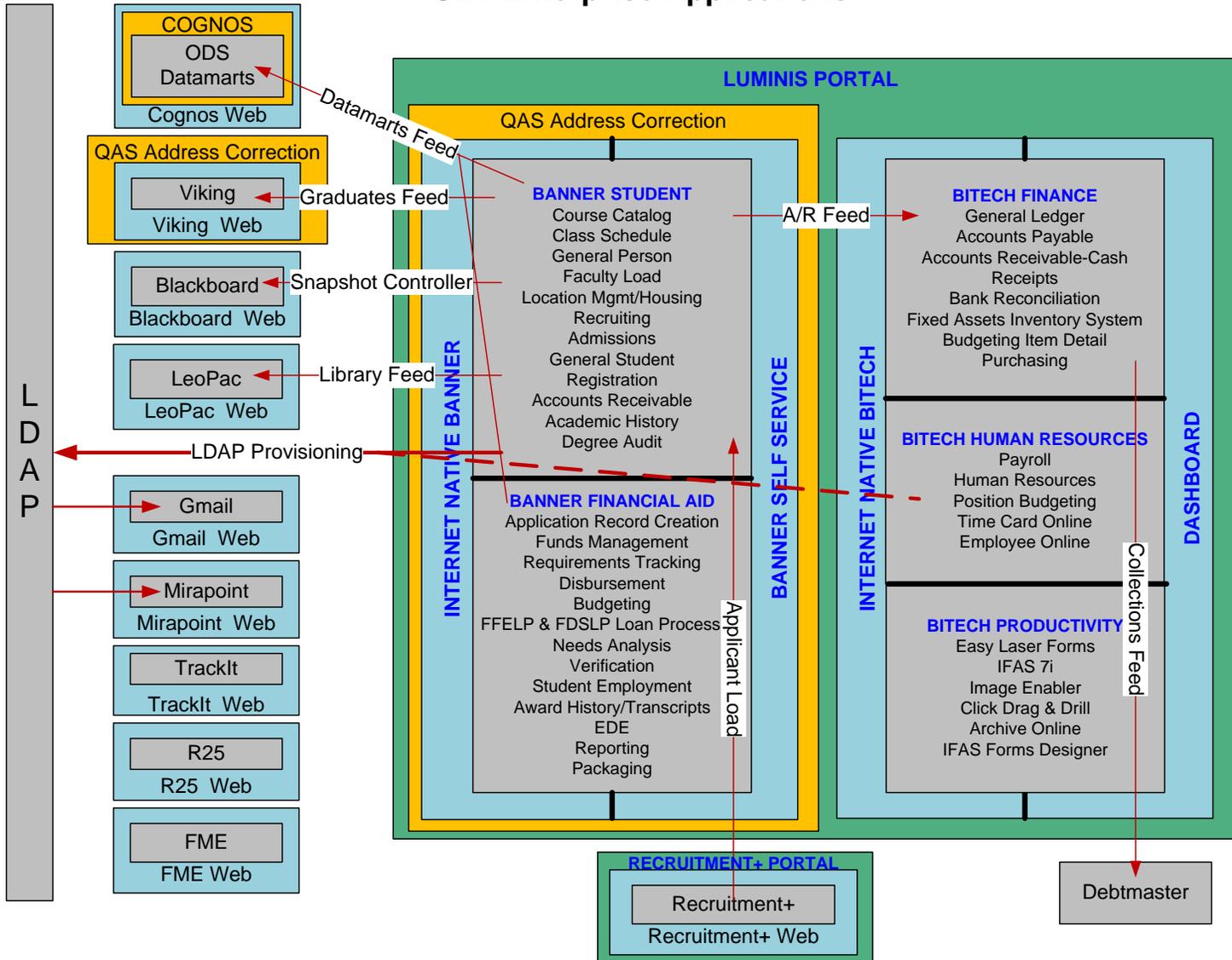
Inventory of Campus Printers

| MAKE | MODEL | TYPE | B/W or COLOR | TOTAL |
|-------|------------------|-----------|--------------|-------|
| HP | 800 | Designjet | B/W | 1 |
| HP | 5500PS | Designjet | B/W | 1 |
| HP | 650C | Designjet | Color | 1 |
| HP | Z2100 24in Photo | Designjet | Color | 1 |
| HP | 1220C | Deskjet | Color | 5 |
| HP | 990C | Deskjet | Color | 1 |
| Epson | Stylus Pro | Inkjet | Color | 1 |
| HP | 1300 | LaserJet | B/W | 1 |
| HP | 1320 | LaserJet | B/W | 6 |
| HP | 2100 | LaserJet | B/W | 2 |
| HP | 2200 | LaserJet | B/W | 3 |
| HP | 2300 | LaserJet | B/W | 13 |
| HP | 2420 | LaserJet | B/W | 2 |
| HP | 2430 | LaserJet | B/W | 3 |
| HP | 2550 | LaserJet | Color | 2 |
| HP | 3000 | LaserJet | Color | 1 |
| HP | 3500 | LaserJet | Color | 1 |
| HP | 3600 | LaserJet | Color | 5 |
| HP | 3700 | LaserJet | Color | 1 |
| HP | 4000 | LaserJet | B/W | 11 |
| HP | 4050 | LaserJet | B/W | 19 |
| HP | 4100 | LaserJet | B/W | 34 |
| HP | 4200 | LaserJet | B/W | 16 |
| HP | 4250 | LaserJet | B/W | 10 |
| HP | 4300 | LaserJet | B/W | 4 |
| HP | 4500 | LaserJet | Color | 2 |
| HP | 4550 | LaserJet | Color | 6 |
| HP | 4600 | LaserJet | Color | 3 |
| HP | 4650 | LaserJet | Color | 1 |
| HP | 4700 | LaserJet | Color | 1 |
| HP | 5000 | LaserJet | B/W | 3 |
| HP | 5100 | LaserJet | B/W | 1 |
| HP | 5200 | LaserJet | B/W | 2 |
| HP | 5550 | LaserJet | Color | 1 |
| HP | 8000 | LaserJet | B/W | 1 |
| HP | 8100 | LaserJet | B/W | 1 |

| | | | | |
|---------------|---------------------|----------|-------|------------|
| HP | 8150 | LaserJet | B/W | 10 |
| HP | 8550 | LaserJet | Color | 2 |
| HP | 1300n | LaserJet | B/W | 1 |
| HP | 2600n | LaserJet | Color | 3 |
| HP | 4 Plus | LaserJet | B/W | 1 |
| HP | CP3505 | LaserJet | Color | 1 |
| HP | CP4005 | LaserJet | Color | 2 |
| HP | P2015 Series | LaserJet | B/W | 5 |
| HP | P3005 | LaserJet | B/W | 2 |
| HP | P4015 | LaserJet | B/W | 3 |
| Lexmark | T632 | LaserJet | B/W | 2 |
| HP | 4100 MFP | MFP | B/W | 3 |
| HP | CM1312nfi MFP | MFP | Color | 1 |
| HP | CM2320fxi MFP | MFP | Color | 2 |
| HP | CM2320nf MFP | MFP | Color | 1 |
| HP | CM3530 MFP | MFP | Color | 1 |
| HP | CM6030 MFP | MFP | Color | 1 |
| HP | M1522n MFP | MFP | B/W | 1 |
| HP | M2727nf | MFP | B/W | 5 |
| HP | Officejet 6300 | MFP | Color | 1 |
| HP | Officejet 6310 | MFP | Color | 1 |
| HP | Officejet Pro 8500 | MFP | Color | 1 |
| HP | Officejet Pro L7700 | MFP | Color | 7 |
| | | | | |
| TOTALS | | | | 224 |

Appendix G

ULV Enterprise Applications



Appendix H

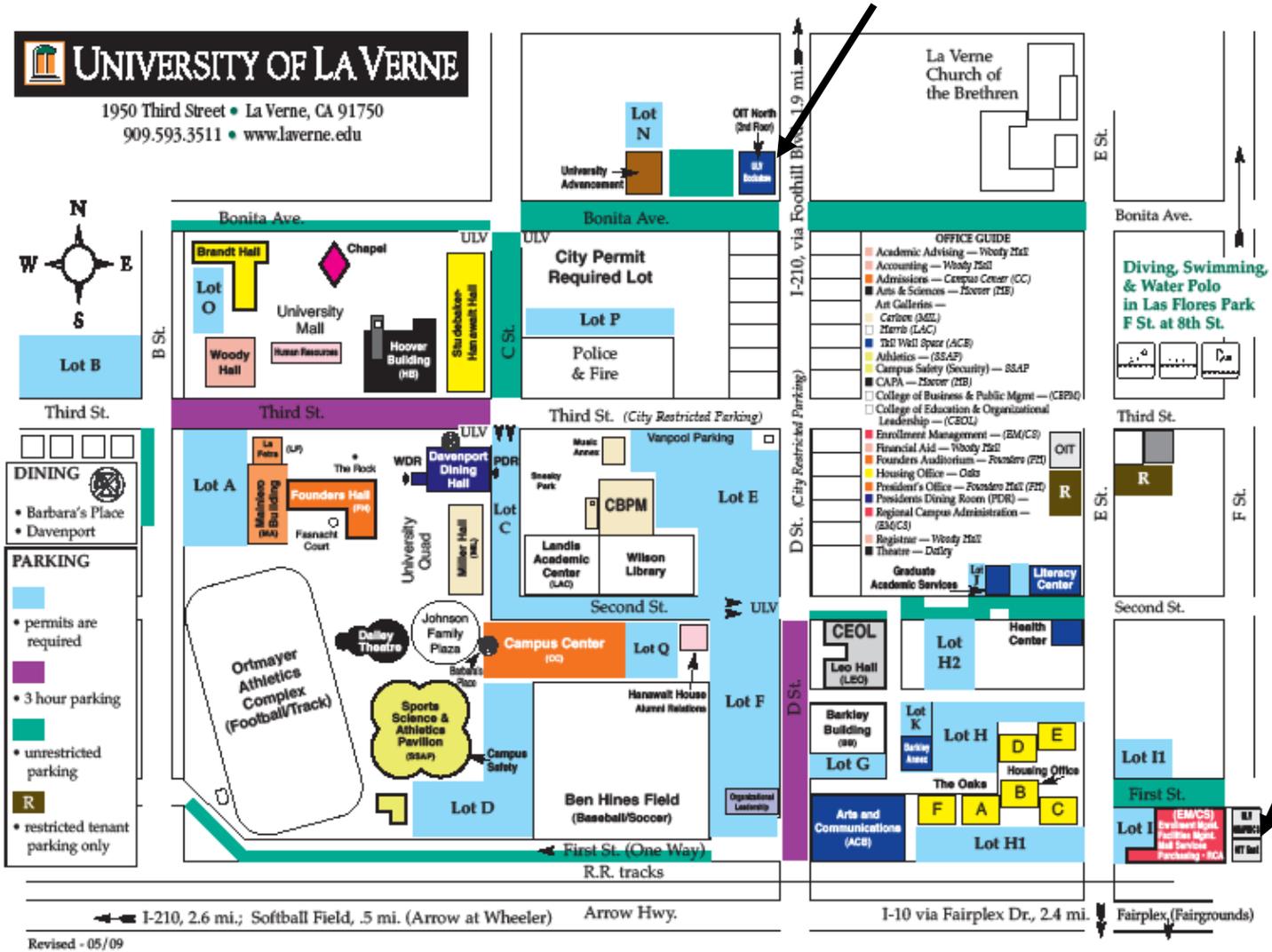
Inventory of Major University Personal Computer Software Applications

| Software Application | Number of Licenses | Standard/Specialized |
|---|---------------------------|-----------------------------|
| IFAS | Unlimited | Standard |
| Microsoft Office 2009 | Unlimited | Standard |
| MS Project | Unlimited | Standard |
| MS Vista | Unlimited | Standard |
| Office 2008 | Unlimited | Standard |
| Oracle | 1 | Standard |
| SPSS 11.0 for MAC OS X | 10 | Standard |
| SPSS 16.0 Family - MAC | 10 | Standard |
| SPSS 16.0 Family - PC | 200 | Standard |
| SPSS 16.0 Family -Amos | 200 | Standard |
| Statistics 17.0 | 38 | Standard |
| Visual Studio.net Academic/Pro | MS Licensing | Standard |
| WinZip for Windows | 1500 | Standard |
| Accutrack 8 | 1 | Specialized |
| Acrobat Professional- MAC | 6 | Specialized |
| Acrobat Professional- PC | 34 | Specialized |
| After Effects Professional - MAC | 26 | Specialized |
| ArcGIS - ArcView 9.3 | 2 | Specialized |
| ArcGIS - Data & Maps Media Kit | 2 | Specialized |
| Audition | 21 (off campus) | Specialized |
| AutoCAD 2000 | 12 | Specialized |
| BBEdit - MAC | 2 | Specialized |
| Camtasia Studio | 7 | Specialized |
| Captivate | 1 | Specialized |
| Citrix ICA Client | 1 | Specialized |
| Clean Slate | 300 | Specialized |
| Creative Suite 4 Design Premium | 16 | Specialized |
| Creative Suite 4 Web Design | 40 | Specialized |
| Creative Suite Design Premium- MAC | 30 | Specialized |
| Creative Suite Design Standard- PC | 1 | Specialized |
| Crystal Reports (For Track-it!) Pro. | 1 | Specialized |
| Crystal Reports Professional | 1 | Specialized |
| DebtMaster | 1 | Specialized |
| Derive 5 &6 | 50 | Specialized |

| | | |
|--|----|-------------|
| DiskWarrior | 2 | Specialized |
| Dragon Naturally Speaking | 2 | Specialized |
| Dragon Naturally Speaking 7,8,9 | 4 | Specialized |
| Dreamweaver - MX | 2 | Specialized |
| Dreamweaver - PC | 18 | Specialized |
| Dreamweaver 4 - Power MAC | 1 | Specialized |
| Dreamweaver 8 | 2 | Specialized |
| Dreamweaver 8 - PC/MAC | 44 | Specialized |
| Dreamweaver CS3 - PC | 8 | Specialized |
| Dreamweaver CS4 | 1 | Specialized |
| EasyRecovery Pro | 1 | Specialized |
| English Mastery Americana Inter. Level | 1 | Specialized |
| English Mastery Author's Tool Kit | 1 | Specialized |
| English Mastery High Inter. Level | 1 | Specialized |
| English Mastery Low Inter. Level | 1 | Specialized |
| English Mastery Beginning Level | 1 | Specialized |
| FileMaker Pro | 1 | Specialized |
| FileMaker Pro - MAC OS 9&10 | 1 | Specialized |
| FileMaker Pro 8 | 15 | Specialized |
| FileMaker Pro Unlimited | 1 | Specialized |
| Final Cut Pro 3 - Upgrade | 23 | Specialized |
| Final Cut Studio Pro 5.1 | 12 | Specialized |
| Fireworks CS3 - MAC | 57 | Specialized |
| Fireworks CS3 - PC | 1 | Specialized |
| Fusion - MAC | 1 | Specialized |
| iLife '08 | 3 | Specialized |
| Illustrator 9.0 - MAC | 25 | Specialized |
| Inspiration v. 8.0 | 20 | Specialized |
| iView MediaPro 3 | 4 | Specialized |
| iWork '06 | 1 | Specialized |
| Maple 12 | 50 | Specialized |
| Mathematics 6 Upgrades | 50 | Specialized |
| MathType 5- MAC | 1 | Specialized |
| MathWorks Product and Doc. CDs. | 50 | Specialized |
| MathLab & Simulink R2007a | 50 | Specialized |
| MindManager 8 for Windows | 10 | Specialized |
| Omni Professional 15 | 4 | Specialized |
| OmniForm Filler 5.0 | 4 | Specialized |
| OmniPage Pro10 | 4 | Specialized |

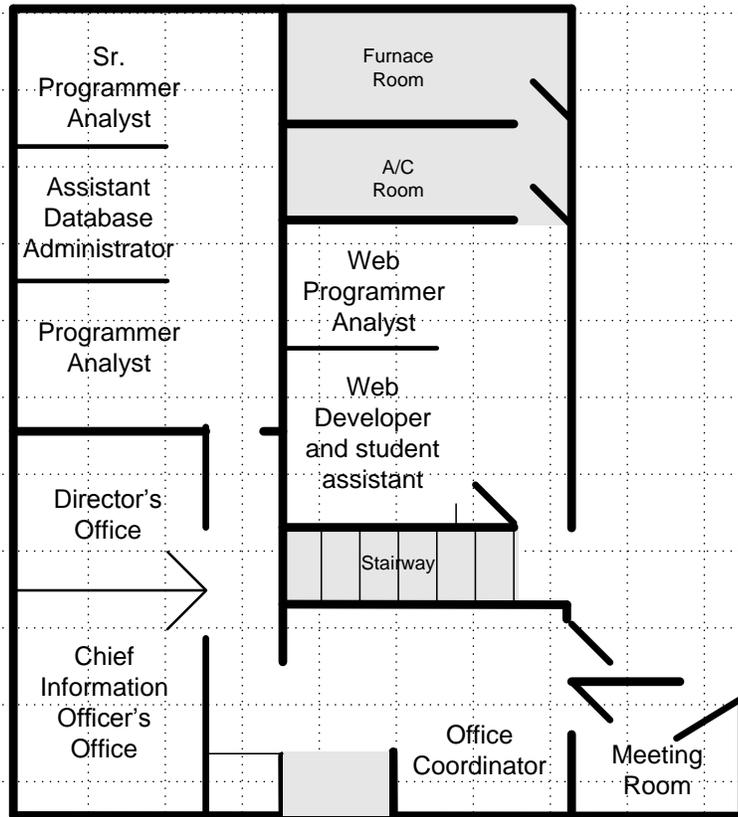
| | | |
|----------------------------------|-----------------|-------------|
| OmniPlan | 1 | Specialized |
| OneNote 2003 | 1 | Specialized |
| Pagemaker Ed. Version -PC | 1 | Specialized |
| PaintShop Pro 7 | 1 | Specialized |
| Peak DV for Final Cut Pro - MAC | 24 | Specialized |
| PGP Desktop Email | 2 | Specialized |
| PhotoDeluxe PageMill | 2 | Specialized |
| Photoshop - MAC | 13 | Specialized |
| Photoshop - PC | 1 | Specialized |
| Photoshop CS | 21 (off campus) | Specialized |
| Photoshop CS2 - MAC | 1 | Specialized |
| Photoshop CS2 - PC | 3 | Specialized |
| Photoshop CS3 | 4 | Specialized |
| Photoshop CS3 | 5 | Specialized |
| Photoshop CS3 Extended - PC | 3 | Specialized |
| Photoshop Lightroom | 13 | Specialized |
| Premiere Application - MAC | 25 | Specialized |
| Print Shop 6 | 1 | Specialized |
| QuarkXpress 7 | 62 | Specialized |
| QuarkXpress 8 | 1 | Specialized |
| Schedule it! | 1 | Specialized |
| Snagit | 6 | Specialized |
| Snap Surveys v. 9.04 | 1 | Specialized |
| Sound Forge | 12 | Specialized |
| Stuffit Deluxe | 1 | Specialized |
| Stuffit Deluxe - MAC | 1 | Specialized |
| Stuffit Deluxe 11 - MAC | 1 | Specialized |
| Stuffit Deluxe 2009 | 1 | Specialized |
| TechTool Deluxe | 1 | Specialized |
| TechTool Deluxe: Protection Plan | 2 | Specialized |
| TechTool Pro | 1 | Specialized |
| Trackit! Enterprise | 1 | Specialized |

Appendix I



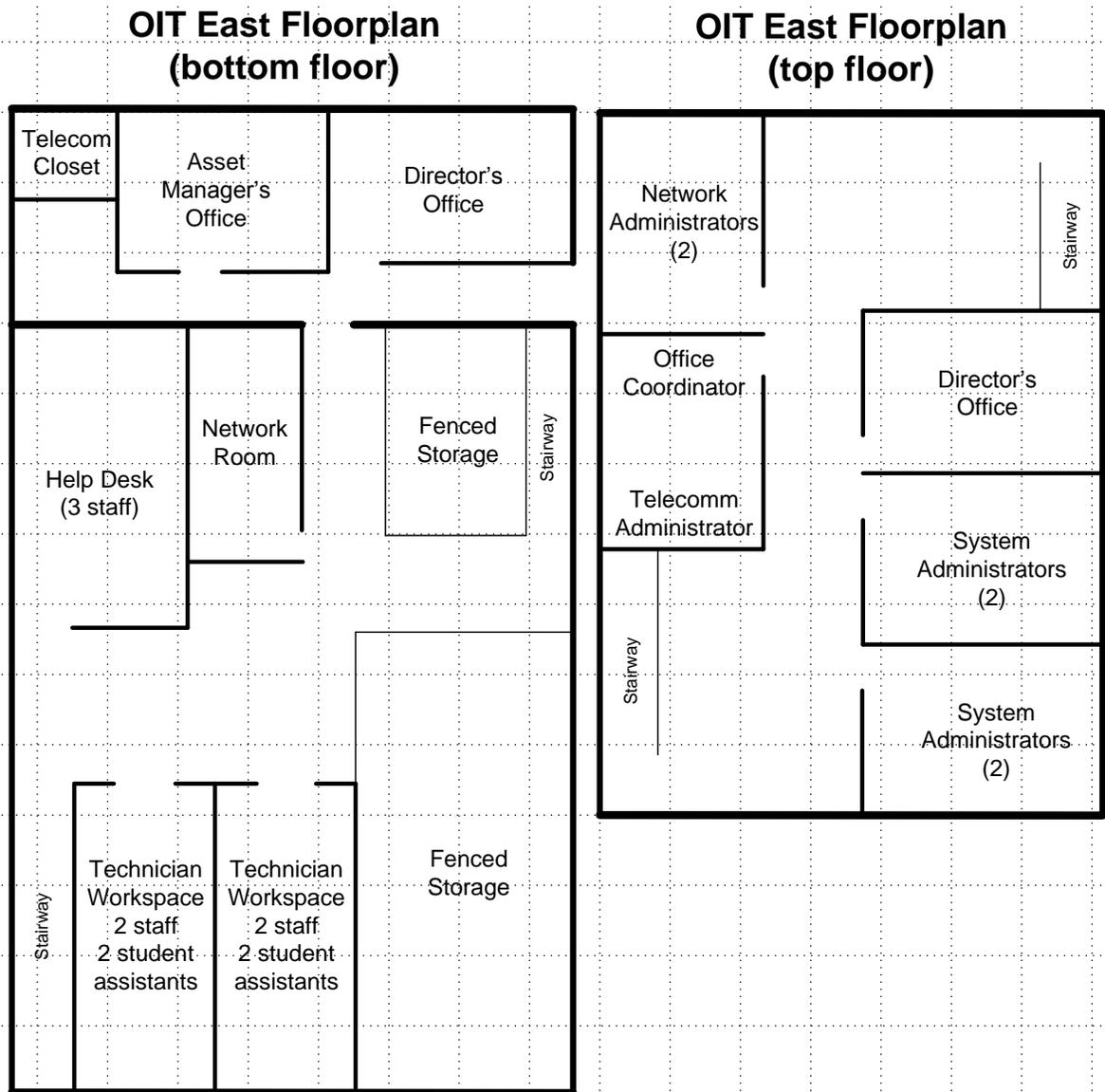
Appendix J

OIT North Floorplan



 = 5 foot square

Appendix K



= 5 foot square

Appendix L

| WASC OIT-Faculty Survey | Always | Often | Sometimes | Rarely | Never | N/A | Rating Average |
|--|--------|-------|-----------|--------|-------|-------|----------------|
| 1. OIT provides adequate smart classroom spaces (classrooms that are technology-enabled). | 53.1 % | 29.6% | 9.2% | 1.0% | 0.0% | 7.1% | 4.45 |
| 2. OIT provides the types of technological hardware in smart classroom spaces that meets my instructional needs | 50.5% | 24.7% | 14.4% | 1.0% | 1.0% | 8.2% | 4.34 |
| 3. OIT maintains fully functioning equipment in smart classroom spaces. | 42.1% | 30.5% | 18.9% | 1.1% | 0.0% | 7.4% | 4.23 |
| 4. OIT provides the software applications in smart classroom spaces that meet my instructional needs.. | 46.3% | 22.1% | 16.8% | 1.1% | 1.1% | 12.6% | 4.28 |
| 5. OIT support staff promptly and attentively remedies any technological related problems I experience in the classroom. | 51.6% | 17.9% | 14.7% | 5.3% | 0.0% | 10.5% | 4.29 |
| 6. My University e-mail account has sufficient space for me to conduct University-related business. | 60.4% | 17.7% | 7.3% | 9.4% | 2.1% | 3.1% | 4.29 |
| 7. My University e-mail account is easy to access when I am on campus. | 64.4% | 15.8% | 5.3% | 1.1% | 2.1% | 8.4% | 4.59 |
| 8. My University e-mail account is easy to access when I am off campus. | 64.2% | 21.1% | 11.6% | 11.6% | 1.1% | 1.1% | 4.48 |
| 9. I utilize the wireless access around campus. | 12.6% | 15.8% | 17.9% | 10.5% | 22.1% | 21.1% | 2.83 |
| 10. I read the website front: page articles. | 16.8% | 29.5% | 33.7% | 15.8% | 4.2% | 0.0% | 3.39 |
| 11. I listen to the University of La Verne automated voice mail announcements. | 16.7% | 9.4% | 12.5% | 12.5% | 31.3% | 17.7% | 2.61 |
| 12. I read the Chief Information Officer's (CIO) technology news briefs. | 34.7% | 30.5% | 15.8% | 11.6% | 7.4% | 0.0% | 3.74 |
| 13. I use my own personal laptop computer on campus | 12.6% | 12.6% | 13.7% | 10.5% | 29.5% | 21.1% | 2.60 |
| 14. The OIT technician(s) resolve my work order(s) on the first visit. | 27.4% | 28.4% | 18.9% | 5.3% | 1.0% | 18.9% | 3.94 |
| 15. The OIT technician(s) are professional. | 61.1% | 17.9% | 9.5% | 5.3% | 0.0% | 6.3% | 4.44 |
| 16. The OIT technician(s) are courteous. | 65.6% | 20.8% | 7.3% | 1.0% | 0.0% | 5.2% | 4.59 |
| 17. I utilize campus computer labs to teach courses.. | 13.7% | 10.5% | 12.6% | 17.9% | 29.5% | 15.8% | 2.54 |
| 18. When I call the Help Desk, they are able to resolve my issue while I am on the phone.. | 22.9% | 40.6% | 17.7% | 13.5% | 1.0% | 4.2% | 3.74 |
| 19. I can easily obtain the information I need from the Student Information System (Banner). | 20.0% | 29.5% | 10.5% | 8.4% | 3.2% | 28.4% | 3.76 |
| 20. I can easily obtain the information I information from the Alumni Management System (Viking) | 5.2% | 2.1% | 4.1% | 6.2% | 8.2% | 74.2% | 2.60 |
| 21. I can easily obtain the information I need from the Finance, Payroll and HR System (BiTech).. | 10.3% | 11.3% | 10.3% | 4.1% | 7.2% | 56.7% | 3.31 |

| | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree | N/A | Rating Average |
|--|-----------------------|--------------|----------------|-----------------|--------------------------|------------|-----------------------|
| 22. OIT provides overall technology support services that meet my instructional needs. | 47.0 % | 37.0% | 10.0% | 3.0% | 2.0% | 1.0% | 1.75 |
| 23. The new faculty/staff Global Address List makes it easier for me to communicate with the on-campus community. | 27.3% | 27.3% | 17.2% | 4.0% | 5.1% | 19.2% | 2.16 |
| 24. The new University website is visually inviting | 37.0% | 40.0% | 14.0% | 7.0% | 1.0% | 1.0% | 1.94 |
| 25. The new University website is easy to navigate. | 20.0% | 35.0% | 17.0% | 18.0% | 10.0% | 0.0% | 2.63 |
| 26. The new University website keeps me updated on current University events and programs | 28.0% | 44.0% | 16.0% | 9.0% | 3.0% | 0.0% | 2.15 |
| 27. The new University website contains the resources and information I need to meet my instructional and professional needs. | 27.0% | 39.0% | 12.0% | 12.0% | 6.0% | 4.0% | 2.28 |
| 28. The new University website makes it easier for me to find the information I need.. | 17.0% | 32.0% | 22.0% | 16.0% | 12.0% | 1.0% | 2.74 |
| 29. The speed of the University's wireless system meets my instructional and professional needs | 26.0% | 31.0% | 10.0% | 2.0% | 4.0% | 27.0% | 2.00 |
| 30. The automated voice mail announcements are useful to keep me updated on current University events and programs.. | 8.0% | 22.0% | 17.0% | 4.0% | 9.0% | 40.0% | 2.73 |
| 31. The automated voice mail announcements are useful to keep me updated on urgent campus issues. | 9.0% | 18.0% | 16.0% | 8.0% | 8.0% | 41.0% | 2.80 |
| 32. The Chief Information Officer's (CIO) technology news briefs are useful to keep me updated with information related to technology services.. | 34.0% | 34.0% | 13.0% | 6.0% | 1.0% | 12.0% | 1.93 |
| 33. My University-provided computer meets my instructional and professional needs. | 32.0% | 21.0% | 7.0% | 8.0% | 8.0% | 24.0% | 2.20 |
| 34. The OIT technician(s) are knowledgeable. | 51.0% | 26.5% | 13.3% | 5.1% | 2.0% | 2.0% | 1.78 |

| | yes | No | N/A | Rating Average |
|---|------------|-----------|------------|-----------------------|
| 35. I am aware of the online training available at training.laverne.edu. | 66.0 % | 32.0% | 2.0% | 1.33 |
| 36. I make use of the online training offered by OIT (at training.laverne.edu). | 28.0% | 67.0% | 5.0% | 1.71 |
| 37. I have my own personal laptop computer. | 62.6% | 31.3% | 6.1% | 1.33 |

| Demographic Data: | Male | Female | Other | Rating Average |
|--|-------------|---------------|--------------|-----------------------|
| 35. I am aware of the online training available at training.laverne.edu. | 60.2 % | 39.8% | 0.0% | 1.40 |

Appendix M

| WASC OIT-Staff Survey | Always | Often | Sometimes | Rarely | Never | N/A | Rating Average |
|--|---------------|--------------|------------------|---------------|--------------|------------|-----------------------|
| 1. OIT support staff promptly and attentively remedies any technological problems I experience in my department. | 36.0 % | 50.0% | 12.0% | 1.0% | 0.0% | 1.0% | 4.22 |
| 2. My University e-mail account has sufficient space for me to conduct University-related business. | 45.0% | 35.0% | 9.0% | 7.0% | 4.0% | 0.0% | 4.10 |
| 3. My University e-mail account is easy to access when I am on campus. | 82.0% | 14.0% | 1.0% | 0.0% | 0.0% | 3.0% | 4.84 |
| 4. My University e-mail account is easy to access when I am off campus. | 57.0% | 22.0% | 5.0% | 3.0% | 2.0% | 11.0% | 4.45 |
| 5. I read the website front: page articles | 14.0% | 30.0% | 40.0% | 13.0% | 3.0% | 0.0% | 3.39 |
| 6. I listen to the University of La Verne automated voice mail announcements. | 31.0% | 17.0% | 14.0% | 8.0% | 15.0% | 15.0% | 3.48 |
| 7. I utilize the wireless access around campus. | 8.1% | 12.1% | 15.2% | 14.1% | 29.3% | 21.2% | 2.44 |
| 8. The speed of the University's wireless system is adequate. | 10.1% | 29.3% | 14.1% | 4.0% | 1.0% | 41.4% | 3.74 |
| 9. I read the regular Chief Information Officer (CIO)'s technology news briefs. | 56.0% | 23.0% | 16.0% | 4.0% | 1.0% | 0.0% | 4.29 |
| 10. The OIT technician(s) resolve my work order(s) on the first visit. | 15.2% | 56.6% | 16.2% | 4.0% | 1.0% | 7.1% | 3.87 |
| 11. The OIT technician(s) are professional. | 55.6% | 33.3% | 7.1% | 3.0% | 0.0% | 1.0% | 4.43 |
| 12. The OIT technician(s) are courteous. | 66.7% | 24.2% | 7.1% | 1.0% | 0.0% | 1.0% | 4.58 |
| 13. When I call the Help Desk, they are able to resolve my issue while I am on the phone | 10.0% | 40.0% | 37.0% | 4.0% | 2.0% | 7.0% | 3.56 |
| 14. I can easily obtain the information I need from the Student Information System (Banner). | 11.0% | 33.0% | 19.0% | 4.0% | 5.0% | 28.0% | 3.57 |
| 15. I can easily obtain the information I need from the Alumni Management System (Viking) | 4.0% | 4.0% | 2.0% | 3.0% | 3.0% | 84.0% | 3.19 |
| 16. I can easily obtain the information I need from the Finance, Payroll and HR System (BiTech). | 10.0% | 19.0% | 6.0% | 6.0% | 1.0% | 58.0% | 3.74 |

| | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree | N/A | Rating Average |
|---|-----------------------|--------------|----------------|-----------------|--------------------------|------------|-----------------------|
| 17. OIT provides technology support services that meet my administrative needs. | 28.3 % | 48.5% | 16.2% | 3.0% | 0.0% | 4.0% | 4.06 |
| 18. The new University website is visually inviting. | 27.6% | 56.1% | 14.3% | 1.0% | 1.0% | 0.0% | 4.08 |
| 19. The new University website is easy to navigate. | 15.6% | 41.7% | 28.1% | 13.5% | 1.0% | 0.0% | 3.57 |
| 20. The new faculty/staff Global Address List makes it easier for me to communicate with on campus community. | 30.0% | 43.0% | 18.0% | 2.0% | 2.0% | 5.0% | 4.02 |
| 21. The new University website contains resources and information I need to conduct business | 21.0% | 47.0% | 24.0% | 4.0% | 1.0% | 3.0% | 3.86 |

| | | | | | | | |
|---|-------|-------|-------|-------|------|-------|------|
| 22. The new University website keeps me updated on current University events and programs. | 28.0% | 53.0% | 16.0% | 3.0% | 0.0% | 0.0% | 4.06 |
| 23. The new University website makes it easier for me to find the information I need. | 18.0% | 39.0% | 27.0% | 12.0% | 4.0% | 0.0% | 3.55 |
| 24. The automated voice mail announcements are useful to keep me updated on current University events and programs | 17.2% | 29.3% | 18.2% | 10.1% | 1.0% | 24.2% | 3.68 |
| 25. The automated voice mail announcements are useful to keep me updated about urgent campus issues. | 27.0% | 28.0% | 14.0% | 6.0% | 0.0% | 25.0% | 4.01 |
| 26. The Chief Information Officer (CIO)'s technology news briefs are useful to keep me updated with information related to technology services. | 44.0% | 43.0% | 9.0% | 3.0% | 1.0% | 0.0% | 4.26 |
| 27. My University-provided computer meets my professional needs. | 34.0% | 41.0% | 7.0% | 13.0% | 3.0% | 2.0% | 3.92 |
| 28. The OIT technician(s) are knowledgeable. | 36.0% | 47.0% | 9.0% | 4.0% | 3.0% | 1.0% | 4.10 |

| | yes | No | N/A | Rating Average |
|---|--------|-------|------|----------------|
| 29. I am aware of the online training available at training.Laverne.edu. | 79.0 % | 21.0% | 0.0% | 1.21 |
| 30. I make use of the online training offered by OIT (at training.laverne.edu). | 24.2% | 66.7% | 9.1% | 1.73 |

| Demographic Data: | Male | Female | Other | Rating Average |
|-------------------|--------|--------|-------|----------------|
| Gender | 27.5 % | 72.5% | 0.0% | 1.73 |

Appendix N

| WASC OIT-Student Survey | Always | Often | Sometimes | Rarely | Never | N/A | Rating Average |
|--|---------------|--------------|------------------|---------------|--------------|------------|-----------------------|
| 1. I am satisfied with my University Gmail services. | 51.0 % | 35.0% | 10.0% | 3.0% | 1.0% | 0.0% | 4.32 |
| 2. I read the website front page articles. | 17.0% | 19.0% | 31.0% | 25.0% | 8.0% | 0.0% | 3.12 |
| 3. I use my own personal laptop computer on campus | 42.0% | 23.0% | 12.0% | 6.0% | 17.0% | 0.0% | 3.67 |
| 4. I utilize the wireless access around campus | 44.0% | 16.0% | 14.0% | 10.0% | 16.0% | 0.0% | 3.62 |

| | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree | N/A | Rating Average |
|---|-----------------------|--------------|----------------|-----------------|--------------------------|------------|-----------------------|
| 5. My University e-mail account has sufficient space for me to conduct University-related business. | 60.0 % | 28.0% | 10.0% | 1.0% | 1.0% | 0.0% | 4.45 |
| 6. My University e-mail account is easy to access when I am on campus | 55.0% | 32.0% | 10.0% | 2.0% | 1.0% | 0.0% | 4.38 |
| 7. My University e-mail account is easy to access when I am off campus | 57.0% | 30.0% | 8.0% | 3.0% | 2.0% | 0.0% | 4.37 |
| 8. The new University website is visually inviting. | 36.4% | 43.4% | 17.2% | 2.0% | 1.0% | 0.0% | 4.12 |
| 9. The new University website is easy to navigate. | 28.0% | 41.0% | 19.0% | 8.0% | 4.0% | 0.0% | 3.81 |
| 10. The new University website contains resources and information I need to conduct business | 30.6% | 49.0% | 16.3% | 3.1% | 1.0% | 0.0% | 4.05 |
| 11. The new University website keeps me updated on current University events and programs | 34.3% | 40.4% | 17.2% | 6.1% | 2.0% | 0.0% | 3.99 |
| 12. The new University website makes it easier for me to find the information I need. | 25.3% | 42.4% | 18.2% | 11.1% | 3.0% | 0.0% | 3.76 |
| 13. The speed of the University's wireless system meets my needs | 26.3% | 35.4% | 28.3% | 8.1% | 2.0% | 0.0% | 3.76 |

| | yes | No | N/A | Rating Average |
|---|------------|-----------|------------|-----------------------|
| I have my own personal laptop computer. | 90.0 % | 10.0% | 0.0% | |

| Demographic Data: | Male | Female | Other | Rating Average |
|--------------------------|-------------|---------------|--------------|-----------------------|
| Gender | 33.3 % | 66.7% | 0.0% | 1.67 |

Appendix O

Unified Service Desk Workorders: Client Ratings for 2009/2010

| | Very Dissatisfied | | Dissatisfied | | Neutral | | Satisfied | | Very Satisfied | | Total |
|--------------|-------------------|-------------|--------------|-------------|-----------|-------------|-----------|-------------|----------------|--------------|------------|
| | 1 | | 2 | | 3 | | 4 | | 5 | | |
| Jul-09 | 0 | | 0 | | 0 | | 0 | | 0 | | 0 |
| Aug-09 | 2 | 5.7% | 1 | 2.9% | 1 | 2.9% | 4 | 11.4% | 27 | 77.1% | 35 |
| Sep-09 | 3 | 6.3% | 1 | 2.1% | 0 | 0.0% | 1 | 2.1% | 43 | 89.6% | 48 |
| Oct-09 | 1 | 2.2% | 0 | 0.0% | 0 | 0.0% | 4 | 8.7% | 41 | 89.1% | 46 |
| Nov-09 | 0 | 0.0% | 1 | 2.6% | 2 | 5.1% | 3 | 7.7% | 33 | 84.6% | 39 |
| Dec-09 | 0 | 0.0% | 1 | 4.8% | 0 | 0.0% | 2 | 9.5% | 18 | 85.7% | 21 |
| Jan-10 | 1 | 3.6% | 0 | 0.0% | 3 | 10.7% | 2 | 7.1% | 22 | 78.6% | 28 |
| Feb-10 | 0 | 0.0% | 0 | 0.0% | 2 | 5.6% | 2 | 5.6% | 32 | 88.9% | 36 |
| Mar-10 | 0 | 0.0% | 0 | 0.0% | 3 | 5.6% | 4 | 7.4% | 47 | 87.0% | 54 |
| Apr-10 | 1 | 2.4% | 0 | 0.0% | 2 | 4.8% | 2 | 4.8% | 37 | 88.1% | 42 |
| May-10 | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 34 | 100.0% | 34 |
| Jun-10 | | | | | | | | | | | |
| Total | 8 | 2.1% | 4 | 1.0% | 13 | 3.4% | 24 | 6.3% | 334 | 87.2% | 383 |

| | Dissatisfied 1 and 2 | | Neutral 3 | | Satisfied 4 and 5 | |
|-----------|-------------------------|-------------|--------------|-------------|----------------------|--------------|
| July | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| August | 3 | 8.6% | 1 | 2.9% | 31 | 88.6% |
| September | 4 | 8.3% | 0 | 0.0% | 44 | 91.7% |
| October | 1 | 2.2% | 0 | 0.0% | 45 | 97.8% |
| November | 1 | 2.6% | 2 | 5.1% | 36 | 92.3% |
| December | 1 | 4.8% | 0 | 0.0% | 20 | 95.2% |
| January | 1 | 3.6% | 3 | 10.7% | 24 | 85.7% |
| February | 0 | 0.0% | 2 | 5.6% | 34 | 94.4% |
| March | 0 | 0.0% | 3 | 5.6% | 51 | 94.4% |
| April | 1 | 2.4% | 2 | 4.8% | 39 | 92.9% |
| May | 0 | 0.0% | 0 | 0.0% | 34 | 100.0% |
| June | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| | 12 | 3.1% | 13 | 3.4% | 358 | 93.5% |

Appendix P