



FY10 UAF OIT Operating Request (with narrative):
Infrastructural Fixed Costs and Critical Security Remediation Items (1-3)
• **\$223,000 GF; \$160,000 OTO**

Listed in priority order by OIT Director with reference to SW Planning Group initiative

Fred Smits: Infrastructural Fixed Costs and Critical Security Remediation Items

1) Technology Fixed Costs: Roxen & eLive! SW Renewal and Network & Server Maintenance Contracts \$198,000 GF

OIT has several campus licensing agreements and core hardware and software maintenance contract renewal fees that are currently not part of the OIT base budget. This request is written as a UAF technology fixed cost request to address the ongoing funding needs that occur after initiatives are funded. In previous years, funding of software or hardware purchases were often done using one time only funding sources. This is a good method to initiate a new technical function or service; however, typically software must be annually renewed and/or maintained. Ongoing service, licensing, and maintenance fees (and/or hardware refresh on a planned cycle) are difficult to fund after the first year. This request compiles a list of one time only funded items that have no base funding to meet the ongoing obligations, maintenance, and licensing needs.

Roxen Software Annual Renewal - \$45K

UAF appropriated one time funds in FY07 to establish an institutional web presence and infrastructure. This request is ongoing for the maintenance of the entire UAF web presence. Content Management software provides simple user friendly tools for UAF web developers to produce, distribute, deploy and maintain internal and external web sites. Many UAF web sites are now migrating to the new Roxen templates; maintenance costs are critical to sustain and grow this web infrastructure.

Network and Server Hardware and Software Maintenance - \$115K

This request will support multiple hardware items that are coming off vendor support and moving to contract support for maintenance and parts. Additionally, it will support software maintenance renewals for core network infrastructure, monitoring systems (e.g., Active Directory/Hardware), applications software, and MS Windows server licenses. Failure to support this increased funding will result in multiple hardware systems being without support and could result in critical services not being available to the UAF community in the event of hardware failures. Non-support of the software contracts could result in lowered visibility of problem areas within OIT, resulting in reduced response time and inadequate proactive focus to preclude major failures, resulting in critical services not being available to the UAF community.

eLive! Software Renewal and Campus Support - \$30K

eLive! is a web-based course instructional tool used in conjunction with Blackboard. This web interface allows educators to add real-time interaction to distance learning. It extends the boundaries of the traditional classroom and engages more students in more ways by incorporating voice, messaging, shared desktop and whiteboard capabilities. Currently, UAA, UAS, and UAF are in a joint agreement to provide eLive! distance delivery services across the system. This was formerly supported through one time funding allocated to the Center for Distance Education. OIT is now responsible for maintaining these services. The UAF portion of this shared system support is approximately \$30,000 and includes 30%

*Denotes partnership or association with capital request of similar nature/phased capital project.

FTE(s) effort (located in Anchorage) plus the proportional UAF share (based on eLive! use statistics) of the annual system eLive! software renewal fees.

Campus Pack - \$8K

Campus Pack is a suite of application tools that improve and enhance the Blackboard learning experience. These tools include Podcasting, ePortfolios, Wikis, Blogs, Webspaces and Course search. The learning applications in the Campus Pack suite allow users to easily create and share content, engage students in active and collaborative learning, and expand the channels of interaction among students and instructors. By enhancing the online learning experience for end-users, Campus Pack bolsters educational outcomes.

IT fixed costs of this nature may increase over time (as software annual renewals incrementally increase and/or more services and applications are provided to the broad UAF campus community, etc.). An efficient method (i.e. a centrally funded, annually adjusted software renewal percentage increase) to increase the OIT allocation for central IT fixed costs is recommended.

2) Security Improvement and Remediation Items

\$25,000 GF; \$60,000 OTO

UAF OIT worked with an external consultant to conduct a review of UAF security in FY08. Post review, there are several critical security items that must be refreshed, maintained, and addressed in the near future. This list includes funding for equipment that will be used to scan for UAF security vulnerabilities, will increase the funding available when OIT is required to provide electronic information to the UAF Office of the General Counsel (when UAF is facing potential litigation), and to refresh existing security infrastructure.

Vulnerability Management Maintenance - \$15K GF

This request will provide ongoing subscriptions to update vulnerability databases for use in scanning for vulnerabilities on UAF systems.

Forensics and Litigation Hold Equipment - \$10K GF

This request will address the increase in forensic and litigation holds that UAF has been receiving from the Office of the General Counsel.

Security Equipment Refresh - \$60K OTO

This request will replace and upgrade security infrastructure on the UAF campus.

This request refreshes critical security equipment that is nearing its end-of-life. Such equipment includes monitoring, firewall, and support servers. The monitoring equipment will provide visibility to the network for security staff. The firewall equipment will provide firewall protection to server, wireless, and student areas. The vulnerability subscription will provide updated signatures, information, and maintenance for the vulnerability scanner (similar to virus updates for a virus scanner). The forensics increment will address the increasing number of forensic and litigation hold requests (from the Office of the General Counsel) to which the OIT Security team must respond.

Post UAF Security Review, there may be other security remediation items that emerge as OIT continues to address the issues that surfaced through the FY08 review process. These items will be requested in FY11 (or jumpstarted if critical or possible) in FY09 and/or FY10 depending on the request prioritization, etc.

**3) Bunnell HUB Room Infrastructure Upgrade
for Telecommunications Equipment***

\$100,000 OTO

This request will provide for upgrading the infrastructure in the UAF Bunnell Hub Room (230A). There is also an FY10 capital request submitted by OIT that will make additional capital renovations and improvements to the Bunnell Hub Room; this portion of the request addresses only the Telecommunications infrastructure.

Infrastructure support for the UAF Bunnell Hub Room (230A) is being revised as part of the re-purposing of the Bunnell Machine Room B (MRB). MRB supplies power and limited cooling for the adjacent Telecommunications Hub Room (comprising 236 square feet). Alternate and permanent means of providing power and cooling will be required for the telecommunications equipment installed therein. That equipment cannot be moved since it is critical to supplying network services to the Bunnell Building. This request will provide engineering design, a small uninterruptible power supply, an electrical circuit, cooling, and access card equipment to support the Bunnell Hub Room.