FY05 Technology Fee Proposal

Submitting Organization: IS&T
    Major Unit: UCCS
    Department: Information Security

Contact Person: Tammy Clark
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1. Project Short Title

    | 5-8 Word Project Title |
    |------------------------|
    | Vulnerability Scanning Software/Services To Protect University Computers |

2. Total Requested

    Fiscal Year 2005
    $ 35,000

3. Executive Summary

    Project Description (three or four sentences)
    Security incidents that have occurred over the past two years have often resulted in the temporary loss of availability of college and department critical servers and web services provided to students, faculty and staff users. In addition, the ever-present threat of sensitive data exposures of student personal and financial data is a grave concern in the event that a critical serving device storing this information becomes compromised by hackers. This proposal is to acquire a site subscription for vulnerability scanning solutions and information services that will identify and assist in mitigating threats and vulnerabilities present on University serving devices campus-wide.

4. Project Description

    This project involves renewing the site licenses for vulnerability scanning programs which identify and mitigate vulnerabilities and threats present on serving devices, databases, and workstations that provide services. Additionally, another component is a security vulnerability/threat information service which allows departmental information technology staff members to receive timely and effective information through a web portal that is customized to the operating systems, software, and applications they manage in their environment. A primary objective of this project is to prevent security compromises and intrusions on critical servers that provide services to students and faculty such as registration over the web, course schedules & content, on-line courses, research project development, email, collaborative education efforts, etc. Another facet that is of equal importance is protecting sensitive data stored and processed on a wide variety of systems at the University. By proactively scanning serving devices and databases at regular intervals, campus information technology staff members can protect them from being compromised and ensure that sensitive information is not acquired by unauthorized persons.

    Outcomes of the FY04 Techfee Project included the renewal of site licenses for vulnerability scanning products and subscriptions to vulnerability/threat assessment services that were distributed to network administrators and technology managers campus-wide. As a result of proactive scanning in the colleges
and departments, security incidents involving compromised serving devices and sensitive data exposures were reduced over 20% from the previous fiscal year.

5. Record the review numbers assigned by UCCS and Facilities. Their assessments must be included in Sections 16 and 17.

<table>
<thead>
<tr>
<th>UCCS: 05-014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Facilities: 12209-04</td>
</tr>
</tbody>
</table>

6. Relevance to Regents Guidelines

[1] Technology fee revenues should be used primarily for the direct benefit of students to assist them in meeting the educational objectives of their academic programs.

Every facet of a student's access to educational programs at the University relies on services that are provided by critical servers on the campus network. If these servers experience attacks and intrusions, their availability is threatened and countless man-hours must be spent to restore them back to health. In some cases, the servers must be rebuilt from scratch and the data contained on them, such as WebCT courses or research, is lost. This proposal's purpose is to prevent the loss of availability and preserve the integrity of the critical servers that provide students access to registration, online courseware, and information.

[3] Technology fee revenues should be used for hardware and Network related expenditures that include support of general purpose or special purpose laboratories used by students for body productivity and more discipline related activities.

This proposal supports the above objective—when expenditures are made for hardware/software that is the platform for specialized databases and other services utilized by students on a daily basis, the destruction of these databases due to hacking or intrusions is an important concern.

7. Relevance to Strategic Plan(s)

This proposal supports the University's academic strategic objectives as well as the information technology objectives. In order to offer online access to registration, Panthercard purchases, WebCT courseware, etc., University servers that these applications reside on must be available and their integrity must not be impaired. This proposal supports the University's Information Security Strategic Plan's objectives of protecting the investment in technology.

8. Impact on Students Served

This proposal serves all students at the University. Its impact extends to ensuring the continued availability of services and programs at the University that depend on the functionality and availability of college and department servers. It also extends to protecting sensitive student personal and financial information that is stored and processed on University serving devices.
Provide a specific description of the funding requirements for FY 2005 in the Microsoft Excel spreadsheet below. Itemize and total the following categories of expense. If necessary, add lines to the table below corresponding to accounting objects of expense. Please note that any equipment items less than $4,999 should be categorized as “supplies.”

<table>
<thead>
<tr>
<th>Object of Expense</th>
<th>Itemized Descriptions</th>
<th>Quantity</th>
<th>Per unit price</th>
<th>Extended Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment (Note: Use standard dollar amounts and replacement thresholds from sections 10/11, or provide explanation in sections 10/11.)</td>
<td>Item 1, Item 2, Item 3, Item 4, Item 5, Item 6, Item 7, etc</td>
<td></td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>Software</td>
<td>Item 2, etc</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maintenance or Contractual Services</td>
<td>Item 1 Internet Scanner and Fusion Maintenance</td>
<td>2</td>
<td>$9,000.00</td>
<td>$9,000.00</td>
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<tr>
<td></td>
<td>Item 2, Xforce Subscription Licenses</td>
<td>18</td>
<td>$26,000.00</td>
<td>$26,000.00</td>
</tr>
<tr>
<td>Supplies</td>
<td>Item 1, Item 2, etc, etc</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction Services</td>
<td>Item 1, Item 2, Item 3, etc, etc</td>
<td></td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>Network Connections and Infrastructure Costs (Requires review of Planning &amp; Facilities and Facilities)</td>
<td>Item 1, Item 2, Item 3, etc, etc</td>
<td></td>
<td></td>
<td>$0.00</td>
</tr>
<tr>
<td>Other Expenses (explain)</td>
<td>Item 1, Item 2, etc, etc</td>
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<td>$0.00</td>
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<tr>
<td></td>
<td></td>
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<td></td>
<td>TOTAL</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>$35,000.00</td>
</tr>
</tbody>
</table>

Board of Regents Guidelines state "Technology fee revenues may be used - with caution - for new staffing that is either temporary or ongoing." (See Attachment 1, #6)
10. Consequences of Partial Funding

State what the consequences would be on the effectiveness and viability of the proposal if it were only funded in FY 2005 at the following percentages of the requested total:

**Only 75% funded:** PROJECT WOULD NOT REMAIN VIABLE.

**Only 50% funded:** PROJECT WOULD NOT REMAIN VIABLE.

11. Standard Dollar Amounts

   **N/A**

12. Standard Replacement Thresholds

   **N/A**

13. Prerequisite, Non-Technology Fee Funding

   **N/A**

14. Matching Funds

   **N/A**

15. Staffing and Other Support Availability

   **N/A**

16. Space Availability and Impact on Facilities

   *This project does not impact facilities.*

17. Impact on Computing/Networking/Security Infrastructure

   *Operation of this scanning software will be limited to IT staff. No other impact on the University IT infrastructure.*

18. Post-Project Assessment Criteria

   1. Impact on numbers of security incidents in FY05
   2. Overall impact of Xforce subscription services in reduction of incidents and vulnerabilities

19. Review and Acknowledgements

   **N/A**