IT 2010-11

Infrastructure Upgrade: Network Switch replacements

Summary:

This initiative is to establish and describe the need for replacement of many of the network switches for Lane. These units monitor and direct network traffice for the campus and most of which are 10 years old and overdue for replacement.

Description

Network switches are the tool that administrators use to route and monitor network access for the campuses at Lane. These units feed information to and from the servers which contain all the necessary software and hardware that is needed to operate the network at Lane.

Approximately 200 of the existing switches at Lane are 10 years old and overdue for replacement. Also, the existing switches are not as sustainable as today's switches are. By replacing switches, we can increase the connectivity to the network from 1gb to 10gb, which positively affects EVERY classroom in a building, plus reduces the power consumption making this a green and sustainable option. Also, no funding was set aside for network technology for the new Health and Wellness building, so funding is needed to provide this technology to this new building as well.

This initiative is a core aspect for all technology initiatives on campus, as this builds the backbone of the college where all technology comes from.

Questions and Answers

How is the initiative linked to the Unit Plans most recently submitted?

1. **How does it continue the achievement of those goals?**
2. **If this is a continuation of an initiative started last year, make sure that relationship is clear.**

How is this initiative linked to the efficiencies and productivities plans you had last year?

1. **How does it continue the achievement of these plans?**
2. **If this is a continuation of an efficiency or productivity plan started last year, make sure that relationship is clear.**

This initiative is linked to all current technology related unit plans in that it is a major part of the network infrastructure backbone. All computer technology used on campus, by staff or students, links into this backbone and is a vital part of network access for the entire college.

This inititiave is linked to the efficiencies and productivities plans for last year and this year - for ALL technology related unit plan initiatives, whether they are IT's plans or any other department's plans, because it serves to provide better network access for ALL Lane staff and student users.

Describe the resources needed:

Network switches need to be replaced all over Lane. The first phase of this upgrade will include replacing switches from the server room to the building at the distribution center - router to first switch. Future phases will include replacement of switches from first switch to next switch, etc.

CISCO Switches and associated hardware to cover ALL Lane buildings (CH) $265,000.00

Request: Technology Fee (CH) $265,000.00

What specific measurable program outcomes do you expect to achieve with this initiative? The outcomes should be specific enough to be measurable. Also, outline the method that will be used to determine the results.

The outcome of funding this initiative will be increased connectivity, from 1gb to 10gb, improving the network access to ALL classrooms in each building for ALL Lane campuses. Plus the new equipment is green and sustainable, reducing power consumption across the board. ALL computer labs, computer classrooms, enhanced classrooms and wireless locations will enjoy higher bandwidth and improved services.

This can be measured by reviewing network usage logs and network access speed trends.

Department Priority:

4

Unit Resources:

Network administration staff will install the new switches, remove and repurpose or dispose of the old switches, test the new equipment and provide support for the life of the equipment.

Funding Request: Carl Perkins

Funding Request: Curriculum Development

Funding Request: Technology Fee

1. Category of request

- **Maintain existing technology**
- **Increase student access to technology**

- **New technology**

Please type in the category of the request in the field below.

Maintain existing technology and Increase student access to technology

2. Campus location

- **Main Campus**
- **Downtown Center**
- **Florence**
- **Cottage Grove**
- **CLC (list specific locations)**

Please type in the location of the request in the field below.

All campus locations

3. Names of the person(s) with more information (if needed):

Thad Cowdin
Barbara Barlow
Todd Lutz

4a. Budget ORGN

330140

4b. Budget PROG

510000

5.How many students will benefit per year?

Approximately 30,000

6. Describe the benefit?

All Lane students will benefit from this initiative through increased access to network resources. Access will be quicker, more readily available, and sustainable.

COMPUTER HARDWARE $

265000

COMPUTER SOFTWARE $

STAFFING $

INSTALLATION $

LICENSING $

Can this initiative be partially funded?

Yes

COMPUTER HARDWARE $

132500

(CH) Explanation of effect of partial funding:

Partial funding of this initiative will only allow us to do half of the planned upgrades. Failure of some switches could occur. Also, phasing in the new/updated switches will be delayed an additional year or two, due to lack of full funding.

COMPUTER SOFTWARE $

(CS) Explanation of effect of partial funding:

STAFFING $

(S) Explanation of effect of partial funding:

INSTALLATION $

(I) Explanation of effect of partial funding:

LICENSING $

(L) Explanation of effect of partial funding: