

Proposal for Improve Wireless Coverage for Computer Science Labs and Offices

Project Description

The Computer Science department operates a secure wireless system to provide wireless network access to faculty, staff, and students. This network is configured and maintained specifically with the needs of the Computer Science department in mind. This project was initially funded with the Student Technology Fee in 2012. Since the system was installed, student enrollment has increased significantly, several new faculty members have joined the department, new office space for teaching assistants and faculty has been added, and discipline-specific labs have been created/moved. These areas, which were not associated with the department at the time of the system's initial installation, currently have very weak or no wireless coverage.

The current wireless system covers most of the rooms associated with the Computer Science department, with a few notable exceptions (see attached heat maps):

- LOV205A: Caitlin Carnahan's office. Ms. Carnahan usually teaches at least one high-enrollment (200+ students) per semester.
- LOV251: Three faculty offices and one shared research assistant office.
- LOV151: seminar room. This room is used for seminars, dissertation/thesis defenses, and workshops.
- Major's Lab: Despite its name, this lab is open to any student taking a course in the department. However, when there are insufficient machines in the lab, students must use their laptops.
- Network Lab: This lab is used by students in networking-related classes. Some work associated with these classes requires students to perform tasks that make typical computer usage on their assigned machine impossible, in which case students find it helpful to have a laptop that can connect to wireless Internet to view instructions, troubleshoot, etc.
- MCH 1000-wing: These offices are exclusively assigned to teaching assistants. Teaching assistants have reported that internet connectivity difficulties have made providing practical assistance with programming projects from these rooms infeasible as most programming projects require connection to department servers.
- MCH114: Parallel Computing lab. This room currently cannot access department wireless internet at all.

This project seeks funding to add eight wireless access points (APs) to the existing system to improve coverage of our system.

Impact of the Project

Computers and networking are central to the discipline of computer science. Almost any learning or teaching activity requires the use of some network access; for students with laptops, this is generally wireless access. Any student who attends a Computer Science class in the Love or Carothers buildings, uses a department lab, or visits a teaching assistant's office hours will benefit from the improved network.

Project Plan

We plan to add eight new APs to the existing wireless network. The eight Cisco Aironet 3702E APs cost \$995.77 each and total cost is \$7,966.

Ongoing Support

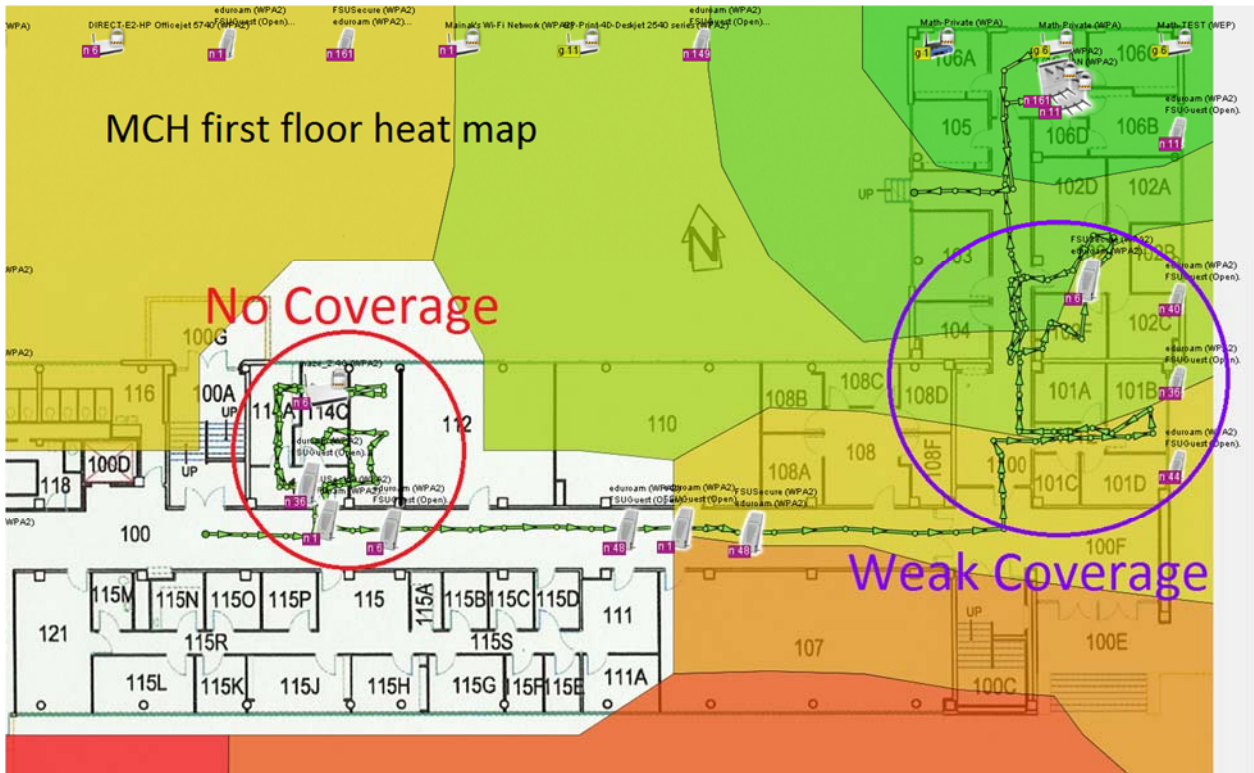
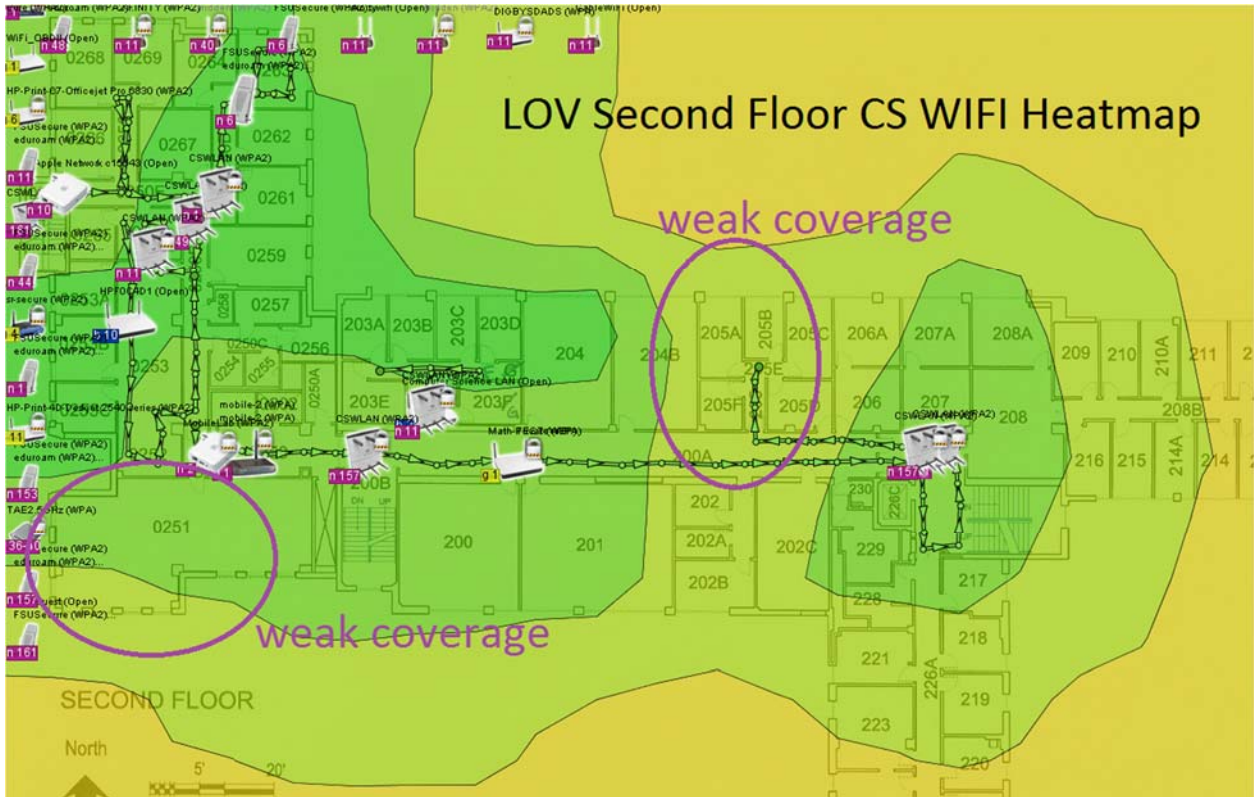
Hardware and software installation is provided by the Systems Group. Current software license covers new APs operation.

Description of the project team

The project team consists of the Systems Group of Computer Science Department. The project will be led by Yu Wang. Mr. Wang has over 16 years of experience in supporting large computer and network systems.

Supporting Documents

1. Heat maps of CS Labs and Offices (dark green means good coverage)



2. Price quote for APs



we solve IT™


[Print page](#) [E-mail page](#)

Florida State University eProcurement

Cart Detail: 1631167324

Creator: Wang Yu

<p>Billing & Payment Information</p> <p>Billing Address Information provided with Purchase Order</p> <p>Payment Method Information provided with Purchase Order</p>	<p>Shipping Information</p> <p>Shipping Address Information provided with Purchase Order</p> <p>Cart Name: <input type="text" value="1631167324"/></p>	<p>Additional Information</p> <p>Description: <input type="text" value="Wireless APs"/></p>
--	---	---

Product Description	Availability	Qty	Unit Price	Total	Select
 <u>Cisco Aironet 3702e AP w CA, 4x4:3SS, Ext Antenna, B Domain</u> Mfr: Cisco Mfg. Part #: AIR-CAP3702E-B-K9	In Stock Ships in 24 Hours Item#: 31875555	<input type="text" value="8"/>	\$995.77	\$7,966.16	<input type="checkbox"/>
UPDATE				DELETE	
Item Subtotal:				\$7,966.16	

<p>Add More Products</p> <p>ADD BY ITEM # ADD BY MFR PART #</p>	<p>QuickList</p> <p>Add product(s) from QuickList:</p> <p><input type="text" value="Group QuickLists"/> ADD</p>
--	--

Student Technology Fee Budget Template for 2016-2017 Project Funding Proposal

Project Title: Hardware upgrade for Computer Science Wireless Network

Organization or College: Arts and Sciences

Department or Unit: Computer Science

Project Period Start Date: 5/1/2017 End Date: 5/30/2017

I. Senior/Key Personnel

List senior and / or key personnel whose compensation will be funded through project non-recurring funds

First Name	Middle Name	Last Name	Project Role	Requested Salary	Fringe Benefits	Funds Requested
A.						
B.						
C.						
D.						
Total Funds Requested for Senior/Key Personnel						\$ -

II. Student & Other Personnel

	Requested Salary	Fringe Benefits	FTE	Funds Requested
Graduate Students				
Undergraduate Students				
Other Personnel				
Total Funds Requested for Students & Other Personnel				\$ -
Total Salaries, Wages & Benefits				\$ -

Student Technology Fee Budget Template for 2016-2017 Project Funding Proposal

III. Equipment

List items and dollar amounts for each item, including software, (or multiple items of the same type with a total cost of) over \$2,000 - add lines as needed

Item Description	Funds Requested
A. Cisco Aironet 3702E AP	7,966
B.	
C.	
D.	
Total for items over \$2,000	\$ 7,966.16
Total for Additional items (less that \$2,000 each)	
Total Equipment Costs	\$ 7,966.16
IV. Other Costs	
	Funds Requested
Materials & Supplies	
Consultant Services	
Equipment or Facility Rental/Use Fees	
Additional Project Costs (describe in budget justification)	
Total for Others Costs	\$ -
Total Project Cost	\$ 7,966.16