

# UIUCnet Wireless

## Coming Soon to a Public Space Near You?

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# UIUCnet Wireless Coverage

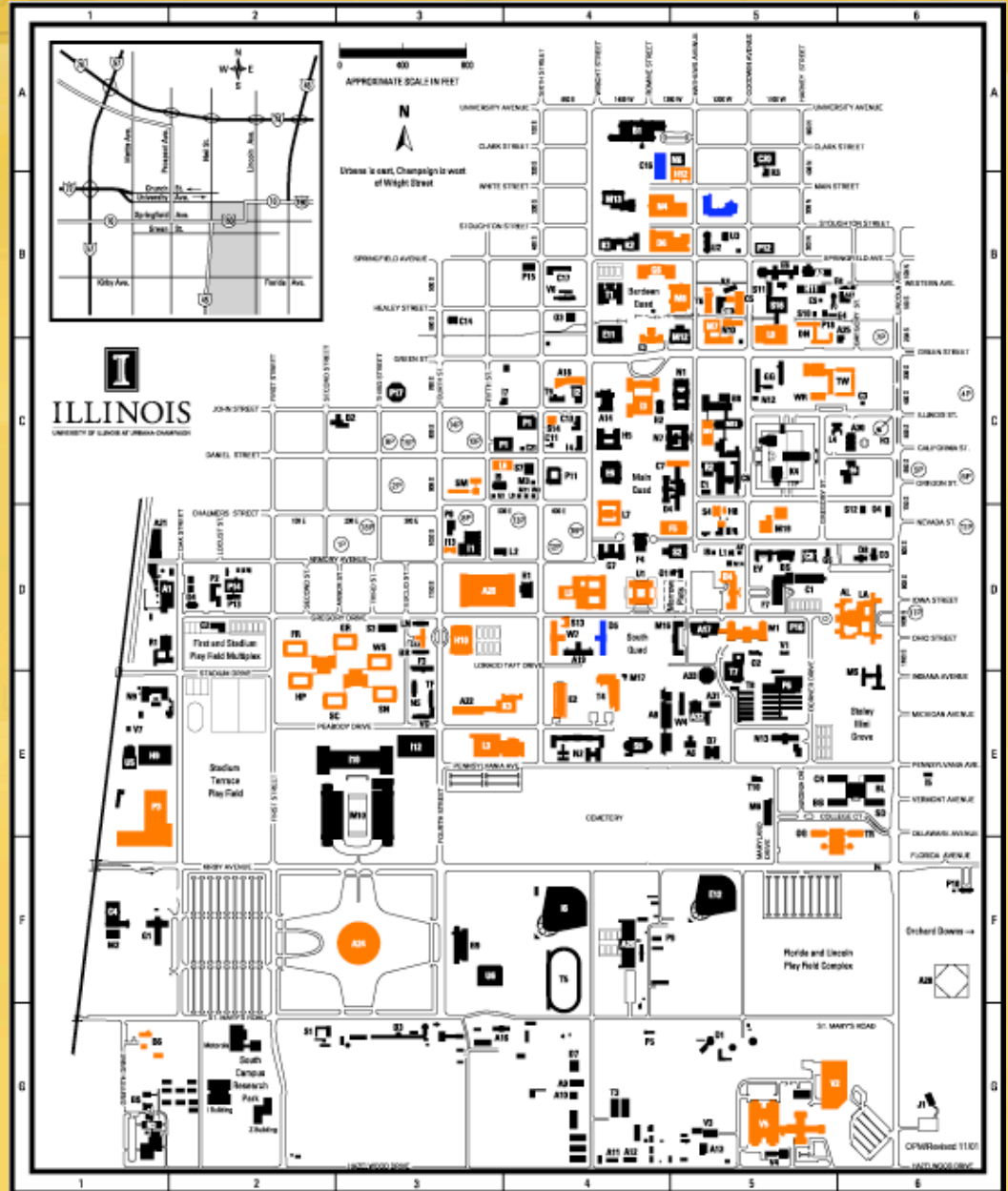
Where UIUCnet Wireless is now

What buildings the Network Design Office is currently working on

What buildings are in the Campus Upgrade pipeline



## Where UIUCnet Wireless is now



# The NDO is currently working on

701 S. Gregory  
AESB Ag Eng Sciences  
Altgeld Hall  
Alumni Center  
Animal Sciences  
Architecture  
Armory  
Art & Design  
Atmospheric Science  
Burrill Annex  
Busey-Evans  
Business Instructional  
Facility  
Campbell Hall  
Christopher Bulding  
Clark Hall  
Survey Building  
CRC  
Davenport Hall

DIA Fields  
DKH  
Education  
English Building  
ERML  
Freer Hall  
Gregory Hall  
I-Building  
Illini Hall  
Illini Union - Full  
Building  
KCPA  
Krannert Art Museum  
LAR  
Law  
Library Tunnel  
Lincoln Hall  
Main Library  
Meat Science

MEL  
Music Building  
Natural History  
PAR  
Rehab Bldg  
Social Work  
South Farms - varous  
Speech and Hearing  
Talbot Lab  
TechCom  
Temple Buell  
Turner Greenhouse  
Turner Hall  
Taft VanDoren  
Uni High  
Vet Med Basic  
Vet Med Teaching  
Willard Airport  
Z2 -Research Park



# Buildings that are in the Network Upgrade pipeline for wireless

Noyes Lab  
Medical Sciences Building  
Foellinger Auditorium  
Levis Faculty Center  
House on St. Mary's  
Ice Arena  
Illini Union  
Vet Med Surgery & Obstetrics



# What is a Public Space?

Classrooms

Lounges

Libraries

Conference Rooms

Teaching Labs

Hallways

Any Collaboration space



# What is not a Public Space?

Private Offices

Research Labs

The great outdoors



## Alphabet Soup

UIUCNet is now deploying 802.11a/b/g

Use “b/g” for maximum range

Use “a” for high density areas or for high bandwidth applications

- if you can get a good “a” signal at your location, use “a”
- otherwise use “b/g” and compete with everyone else for bandwidth



# Departmental Wireless

Can be done

Must be secure

Must not interfere with UIUCnet Wireless



## VPN

Everyone wants Windows and Mac native client VPN support

No native client capable VPN concentrator scales to 5,000 users - yet



# Centrally Managed Wireless

RFP is about to be released

Looking to solve:

- High Density areas
- Roaming
  - Intelligent hand-offs & load balancing
  - Roaming between UIUCnet nodes



# The South Farms Wireless Project

802.11L?

- Not a plan to connect Livestock

802.11.P?

- Not a plan to connect Plants

Actually just using 802.11a to bridge the campus backbone to remote buildings

Will connect UIUCnet Wireless access points and UIUCnet hard-wired connections to the backbone



## **South Farms Wireless - 2**

FAR system has been installed

- Reaches everything north of the Windsor Road tree-line

Beef-Sheep 100 foot tower to follow soon

- F&S involved in determining location
- Will reach everything south of the Windsor Road tree-line



## Wireless VOIP?

Not coming soon, but probably is coming some day.

Need better wireless QOS and density solutions in place first



## Original HP Radio Swap Outs

Just about done

- “b/g” access points are being replaced with “a/b/g” access points in same locations
  - results in “b/g” full coverage with “a” “hotspots”
  - will eventually need to redesign for full “a” coverage.



## Conference Services

Not a full-blown service, but....

- CITES can do WiFi catering in many locations that do not already have UIUCnet Wireless coverage
- Need some lead time to set up



## Guest Accounts

You too can set them up

- Guest ID authorization paperwork

Guest Accounts expire in 3 days

- But can be extended

For real long periods - get the person a  
UIUC NetID



# **Faculty who are threatened by UIUCnet Wireless in classrooms**

Campus direction is UIUCnet Wireless in  
all public spaces

Some faculty members are concerned  
about students web surfing or text  
chatting instead of listening to lectures

CITES will not selectively disable Access  
Points to darken classrooms

This is a classroom discipline issue, not a  
technology issue



# Questions?

