

# Subnet Managers Meeting

May 16, 2012

The season of the orange cone!

## Agenda

- VOIP and Building Moves
- NSF Infrastructure Proposal
- IT and Purchasing
- Network Update
- Security Update
- UTFAB Summary
- Lecture Capture Update

## Agenda (con't)

- RAMTech Licensing Update
- Middleware Update
- RamCT Blackboard
- ACNS Cloud/Virtualization

## VOIP and Building Moves

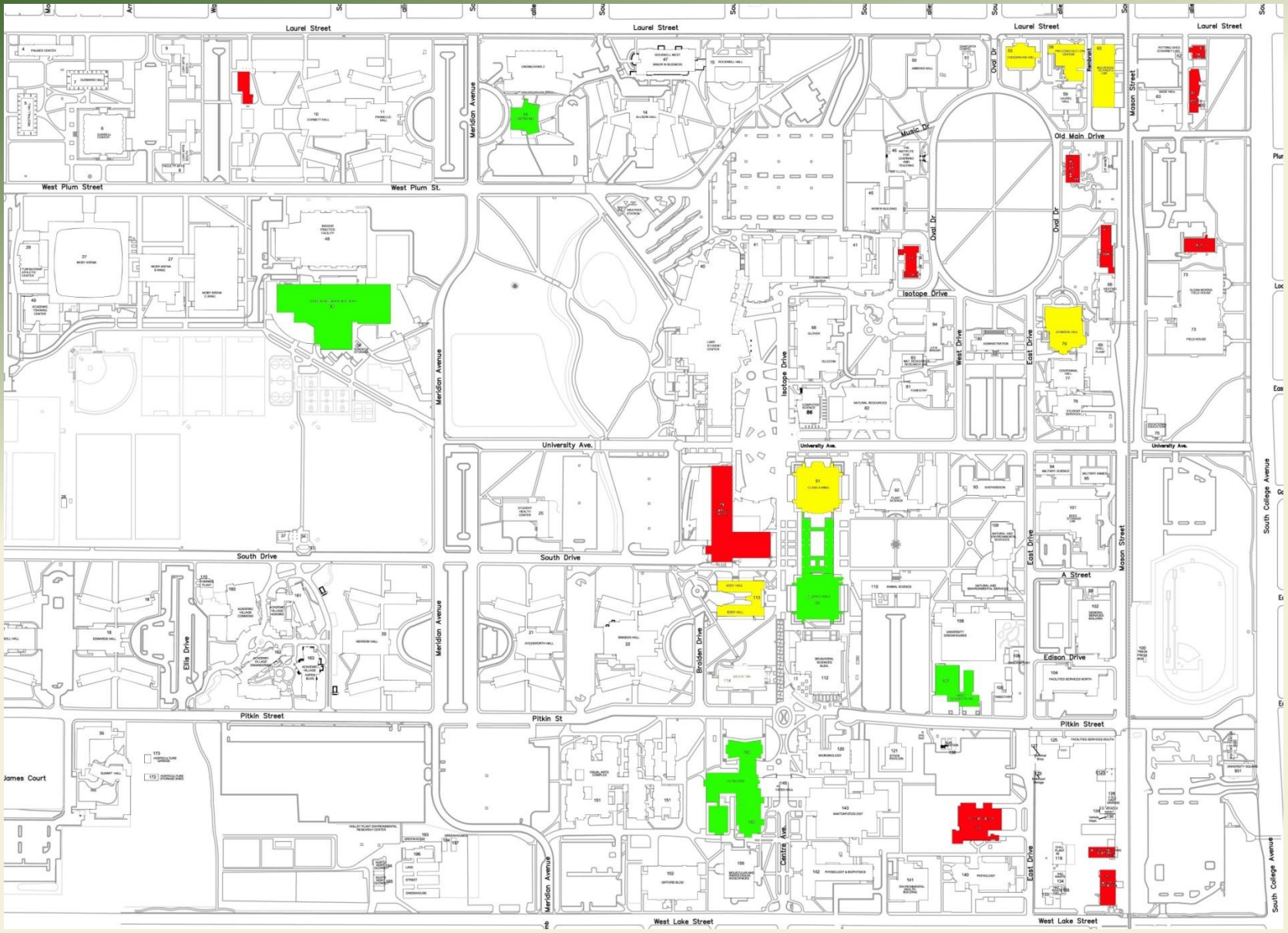
- Dave Hoffman - Telecommunications

# VoIP Project Update



## Project Goals

- Replace 9000+ phones on campus with OpenUC from SipXecs
  - 835 phones complete ( 9.2%)
- Move Analog Devices (FAX/Modem/CC/Emer) to ATA's
- Replace Call Center software with OpenACD
- Rollout Additional Functionality



## The Process

1. Determine what is needed in a building
  - Phones and Jacks
  - Data and Jacks
2. Upgrade the data network
3. Place Orders for phone Upgrades
4. Communicate and provide Training
5. Upgrade Phones



# NSF Campus Cyberinfrastructure Infrastructure Proposal

- Scott Baily - ACNS

## IT and Purchasing

- Dave Carpenter - CAHS

NOC  
(Network Operations Center)  
Greg Redder

- Quote of the year:

*"Networking went downhill after it was moved out of the math department..."* --Steve Lovaas (said in jest while trying to solve a particularly challenging networking problem.)

## Agenda

- WAN updates
- LAN/Building updates
- Wireless updates

## WAN Updates

- Outages: 0
- Exceeded "2G" from the Internet on several occasions.
- Looking to add 3<sup>rd</sup> 10G "Research" lambda to FRGP as part of NSF proposal.

## LAN/Building Updates

- Completed since last meeting
- CIC
- VOIP
- Building Projects

## Completed since last meeting...

- Painter (VOIP/Department funding)
- LSC switch upgrades and dual 1G links–  
phase 1 (Department funding)
- Central Receiving (VOIP)
- Rec Center (VOIP)
- Surplus (VOIP)
- Lake Parking Garage (VOIP)
- Morgan Cube (Building project)

## CIC Pending (this Summer)

- Dual 1G links to Core, new MDF switches, standardization:
  - Micro
  - TiLT
  - Johnson
  - Student Services
  - Chemistry (CIC/VOIP/Department funding)



## VOIP Pending (this Summer)

### Complete building upgrade/standardization:

- Clark B/C (VOIP/Department funding)
- Eddy (VOIP/Department funding)
- Guggenheim (VOIP)
- Preconstruction (VOIP)
- Ind Sci Lab (VOIP)
- Green (VOIP)
- Canyon/UVB (VOIP)
- Weed Research
- 555 S. Howes (CIC/VOIP/Department funding)
- UCA (VOIP/Department funding)

## Building Projects

- “Norlarco”
- Engineering2
- ERL
- Washington School

## Wireless updates

- Finals week went well (~2000 in Morgan)
- csu-net5:
  - Tested out csu-net5 in Morgan, Clark – hopefully deploy across campus.
- HP Laptops
  - Low end one (“Ultrabook”) does not have a 5GHz radio. Encourage Faculty/Staff to kick in the extra money and get ones with both 2.4 and 5GHz radios.

## Security Remote Access

- Steve Lovaas – ACNS
- Cisco VPN going away
  - End of life, July 2012
  - Disabling VPN client connections by August
- Juniper SSL gateway rebuild
  - Rebuild to fix cache size issue
    - Manually replace bookmarks
  - Web UI vs. Network Connect/Pulse

## UTFAB FY12 Funded projects

- Student Information System
- Classroom Technology (GA/Departmental)
- Libraries
- Lecture Capture (Echo360)
- Wireless
- Storage Virtualization
- Datacenter firewalls
- Kiosk refresh
- CSU mobile app

## UTFAB FY13 Approved projects

- Student Information System
- Classroom (GA)
- Libraries
- CSU mobile app (year 2)
- Applications programmer
- Wireless networking (Moby & UCA)
- And...
  - Not all FY13 funds allocated
  - Supplemental proposals accepted in the fall
  - See [utfab.colostate.edu](http://utfab.colostate.edu)

## Lecture Capture Update

- Lecture Capture is;
  - At minimum, audio plus electronic content (like powerpoint)
    - Known as 'vodcast'
  - Available 24 x 7
  - Synchronized and indexed for ease of navigation
  - Can also include instructor video (talking head)
- Supports 'blended learning'
  - Recorded lectures for review
  - Supplemental materials, prerecorded lectures

## Lecture Capture Momentum

- CAHS discovery landed on Echo360
- CRB endorsed
- UTFAB endorsed & funded
- Echo supports
  - Resident appliances that can be scheduled
  - Personal capture (laptop based)



## Lecture Capture Implementation

- Targeting central support, summer 2012
- Resident appliances (venues, at some cost)
- Personal capture (laptop)
  - Available to all faculty/staff, no cost
- Support
  - On-site – Classroom Support Services
  - Training – Computer Training Applications
  - Backend server/storage – ACNS
- RamCT integration

## RAMTech Licensing

- Diane Noren

## ACNS Middleware

- InCommon Assurance Program (LoA)
- Blackboard Integration update
- CSU Mobile Apps

## Levels of Assurance (LoA) at CSU

- LoA 1 (Bronze): Little or **no confidence** exists in the asserted identity
- LoA 2 (Silver): **Confidence** exists that the asserted identity is accurate
- LoA 3: There is **high confidence** in the asserted identity's accuracy
- LoA 4: There is **very high confidence** in the asserted identity's accuracy

## InCommon Assurance Program

- Bronze and Silver certification
- Silver needed for access to Federal resources
- Identity Assurance Assessment Framework
  - Provides background on the need for assurance and defines the Identity assurance trust model
- Identity Assurance Profiles
  - Describing sets of identity Provider Operator requirements for registering individuals, issuing credentials, and managing related identity management information

## InCommon Assurance Program

- Identity and Access Management committee is reviewing requirements for certification.
- Areas of discovery:
  - Business, policy and operational criteria
  - Registration and identity proofing
  - Credential technology
  - Credential issuance and management
  - Authentication process
  - Assertion content
  - Technical environment
- Certification targeted for Q1 2013

## Blackboard Integration

- SIS load in production for spring 2012
- SSO web service
- Grade retrieval web service

## CSU Mobile Apps (Boopsie)

- Soft launch in progress
- CSU Mobile app submitted to Google Play, iTunes, etc.
- Available in the stores by end of May



## Boopsie (con't)

- Contains:
  - Directory
  - Library
  - Building locator
  - Course catalog
  - Events
  - News
  - Social media
  - Giving
  - Help
- Review the demo at [colostate.boopsie.com/m](http://colostate.boopsie.com/m)

## RamCT Blackboard Transition

- Kevin Nolan – ACNS
- Transition – Live for Summer.
- Help Resources and Training
  - <https://ramct.colostate.edu> now points to new system.
  - <https://ramctold.colostate.edu> can be used to access Old RamCT

## Blackboard Mobile Learn

- Mobile Learn – contract complete this week.
- App available for Apple, Android, Blackberry, Palm.

## Leased VM service update

James Cizek, ACNS

- Committee meetings are finished
- Documents (SLA, Business Plan) are published
- All hardware is on site, most of it configured
- Pilot is in "Phase 2"
- Go live July 1

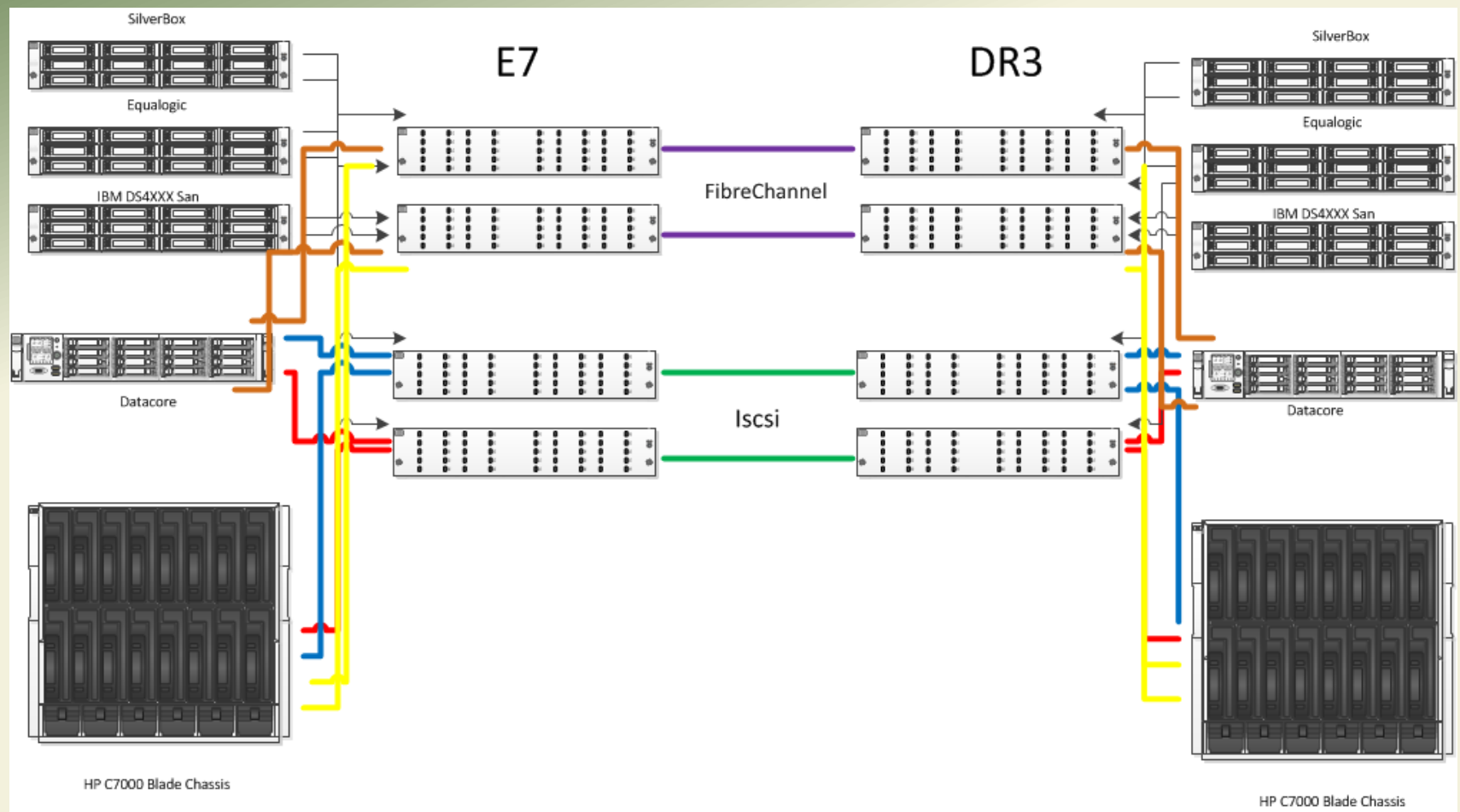
## Leased VM service update

- Datacore (Storage Virtualization) almost in place
- ACNS is developing self-service web portal for customers to use
  - Reporting
  - Monitoring
  - Billing
  - Changes to service (including adds/removes)

## Leased VM service update

- Very robust architecture
- High speed Fiber interconnects between data centers
  - Lots of dark fiber to expand bandwidth if needed
  - Multiple speeds of disk arrays allows tiering for adequate service to crucial data

# Leased VM service update



That's All Folks!

- Have a great summer
- See you next fall!