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

5/16/2012
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

5/16/2012
NSF Campus Cyberinfrastructure Infrastructure Proposal

• Scott Baily - ACNS
IT and Purchasing

• Dave Carpenter - CAHS
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 3rd 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.

5/16/2012
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
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

5/16/2012
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
RamCT Blackboard Transition

• Kevin Nolan – ACNS

• Transition – Live for Summer.

• Help Resources and Training
  – [https://ramct.colostate.edu](https://ramct.colostate.edu) now points to new system.
  – [https://ramctold.colostate.edu](https://ramctold.colostate.edu) can be used to access Old RamCT

5/16/2012
Blackboard Mobile Learn

• Mobile Learn – contract complete this week.

• App available for Apple, Android, Blackberry, Palm.

5/16/2012
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

5/16/2012
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!