CSU’s Subnet Managers Meeting
Wednesday, November 16, 2011

Happy Thanksgiving!
“I thought turkeys could fly!”
Agenda

• Google Initiatives
• Site Licensing
• IT Consolidation Update
  – Identity and Access Management
  – Purchasing
  – Networking
  – Application Development
  – Data Center
• Networking Operations Center
• Security Update

November 2011
Agenda – cont.

Miscellaneous Updates

– Learning Management System
– Mobile Web – “Boopsie”
– Cell Phone
– Unified Communications
– LAMP – Linux based web services
– Lecture Capture
– Educause Resources
– PDI

November 2011
Tech Demo

• Wireless Demo, Greg Redder
  – Technology basics
  – Current deployment
  – Technical challenges
  – Troubleshooting tips n’ tricks
Google Initiatives

• David Ramsay, CSU Libraries
  – See David’s presentation under the Subnet Managers November 16, 2011 Past Meetings page:
  
  http://www.acns.colostate.edu/SubnetManagers/PastMeetings
Site Licensing – RAMTech
-Diane Noren

• SPSS

• AMOST Contract Renewal

– Check with Diane if you have question about these two licenses.
IT Consolidation Update

Identity and Access Management
  – Rusty Scott, ACNS
  – Two areas are being investigated
    • Levels of Assurance
    • Central Authorization

Purchasing
  – Dave Carpenter, CAHS
  – Goal is to choose single vendor for laptop and desktop to provide the best possible price.
  – RFP issued with Strategic Business Alliance possibilities.

November 2011
IT Consolidation Update

Networking
- Greg Redder, ACNS
- New network management model presented and accepted by IAC and will now go before the ITEC.

Application Development
- Rusty Scott, ACNS
- Focus is to eliminate duplication of effort in areas such as annual leave reporting, AP position searches, etc.
- Committee chair, Bryan Carney
- Currently looking at creating a central AP search application

November 2011
IT Consolidation Update

Data Center

– Ed Peyronnin, Agricultural Sciences
– Project will involve virtualization of disk storage
  • RFP process in progress
– Policies – Continue to work through the IAC

November 2011
NOC
(Network Operations Center)
Greg Redder

• What’s the easiest way to get rid of a network guy for days....?

• Say “I think it’s a network problem...”
Agenda

• Traffic updates
• Building updates
• Statistics and Monitoring tools
• Wireless, Wireless, Wireless, Wireless

November 2011
Traffic Update

• Internet Traffic
• “Outages”
Internet Traffic

Daily stats from last week:

Border1 - Traffic - xe-0/0/0 - All traffic to and from bor

- **Inbound**: Current: 935.77 M, Average: 851.91 M, Maximum: 1.54 G

November 2011
Outages

- **Internet**: No outage since July 6, 2011
- Oct. 13: LSC Down 2.5 hours in the early AM – looped coke machine
  - Configuration bug, not reproducible
- Oct. 25: Housing down – router failure at Palmer
  - Router engine replaced
- Oct. 25: Hartshorn down 4-5 minutes – typo
  - Human error
- Nov. 8: Wireless outages for part of morning and most of afternoon and part of evening – ran out of memory on router providing wireless NAT
  - Memory increased, router optimized
- Nov. 8: Hartshorn, UCC in Aylesworth, EMS down for about an hour due to routing issue caused by wireless router failure.
  - Memory increased, router optimized
Building updates

- CIC
- Departmentally funded
- Construction
CIC

CIC upgrades since last meeting:
- Gifford
- Aylesworth
- Eddy
- Plant Sci
- Admin (part Dept, part CIC)
Departmentally funded

- Rec Center
- Spruce/Routt
- Admin (part CIC, part department)
- Gibbons
- Wagar (pending)
- Forestry (building project)
CIC Pending

• From the subcommittee:
  – 555 S. Howes and Central Receiving (cost share)
  – Path (pending this month)
  – UCA (pending this month)
  – MRB (pending this month)
  – NR (pending order)
  – Washington (pending lead!)
  – Chemistry (cost share)
Construction

– Morgan remodel (ongoing)
– Alder Hall
– Washington Elementary
HP Big Order

• Pending...
• For Switching Equipment

• Departments can get in on good pricing.
  – Contact Greg Redder for more details.
Statistics and Monitoring tools

• Traffic graphs and switch access now available via:

secure.colostate.edu/subnetmgrs

E-mail noc@colostate.edu with questions and for login information.

Nagios monitoring tool to be available soon!
Traffic graphs
Switch access
Wireless, Wireless, Wireless, Wireless

- Saw over 7000 users at one time last week.
- One to one NAT

  Ran out of IPs
  Router that does NAT crashed

November 2011
New wireless tips & tricks

• Lion: Need latest Lion update. Reconfigured access points to deal with Lion!

• Swap between csu and csu-net

• As always: verify set-up, especially XP/Vista: use documents at http://www.acns.colostate.edu/Connect/CSU-NET

• This just in...on Lion, remove unused wireless network configurations

November 2011
• New additions to NOC: Robert Remsik, Steve Banghart

• ...Questions?

• Thank you all for your continued input, assistance in the field and overall support of the staff/students/faculty across this campus.
Security Update – Steve Lovaas

• Secure remote access
  – Use of VPN clients down.
  – Use of SSL Gateway up.

• Endpoint protection
  – Efficient and effective.
  – Time for campus review of AV product.
    • Will begin in early December.
    • Contact Steve if you would like to participate.
Security Update – Steve Lovaas

• Network access control
  – Residence Halls using new product.
  – Some other spots on campus may have the need to control access of personal laptops, etc.
  – Contact Steve if interested.
Miscellaneous Updates

• Learning Management System – Kevin Nolan
  – Transition from current RamCT to RamCT Blackboard on track for Summer term 2012.
  – Spring 2012 pilot of approx. 50 instructors, 70 courses and 3,000 students.
  – Configure computer labs to work with new LMS. Kevin will post recommended requirements in early December 2011.
Miscellaneous Updates

• Mobile Web “Boopsie” – Scott Baily, ACNS
  – Hosted solution, vendor will deliver mobile apps using CSU data.
  – UTFAB helping to fund project.
  – May see some apps by 1st quarter next year.

• Cell Phone – Scott Baily
  – Sprint contract has expired; month to month with Sprint for now.
  – RFP is out.
Miscellaneous Updates

• Unified Communications, Scott Baily
  – Phone switch at end of life.
  – Good for a few more years.
  – Goal to migrate depts. to VOIP in the next 2 years.
  – Working on a cost model for VOIP.

• LAMP – Linux based web services, Scott Baily
  – Linux, Apache, MySQL, PHP
  – ACNS has instance up and preparing to do a pilot.

November 2011
Miscellaneous Updates

• Lecture Capture – Dave Carpenter
  – CRB has endorsed Echo360 for campus.
  – Plans for deployment are in early discussion
  – Goal is to make it easy to use, financially attractive.

• Educause Resources – Scott Baily
  – CSU faculty and staff can access with eID.
  – http://www.educause.edu/resources
Miscellaneous Updates

• PDI – Rusty Scott
  – The 2012 PDI will be on Jan. 9 – 11 with many IT-based sessions.
  – [http://tilt.colostate.edu/pdi/](http://tilt.colostate.edu/pdi/)
Technical Demo

Wireless Demo – Greg Redder, ACNS

– Technology basics
– Current deployment
– Technical challenges
– Troubleshooting tips n’ tricks

– See Greg’s Prezi presentation at:
http://prezi.com/ad9jx6h-ucij/wireless-for-network-managers/

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