Subnet Mangers

May 18, 2011

The end of another subnet Mangers meeting year!
Agenda

- Network Operations – Greg Redder
- Security – Steve Lovaas
- IT Consolidation Update – Ed Peyronnin
- Licensing Update – Diane Noren
- ACNS Storage Project – James Cizek
- Advisory Group Updates
NOC
(Network Operations Center)
Greg Redder

Dear Grandmom, cnn.com
I hope this reddit.com letter finds you well. I wanted to say I really news.google.com enjoyed the trip you boingboing.net took us on, and am looking forward to bbc.co.uk visiting later fivethirtyeight.com this year.

Love, slashdot.org

Your grandson,

I Didn't Realize How Bad My Habit of Tabbing to Firefox Every Few Seconds to Check News Sites Had Gotten Until I Tried Writing on a Typewriter.
Agenda

• Traffic updates
• Wireless
• Building upgrades
• Subnet managers list
• Patch Cord Cable Information
Traffic Update

- Internet Traffic
- "Outages"

5/19/2011
Internet Traffic

Broke 1.6G last month

Daily stats from last week:

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

bits per second

Inbound  Current:  814.72 M  Average:  861.60 M  Maximum:  1.30 G
Outbound  Current:  259.90 M  Average:  215.49 M  Maximum:  317.64 M
```
“Outages”

• April 12 – Internet “slowdown” due to fiber cut in Boulder and throttling back to 1G
• Note: Outages for all ACNS services posted at www.acns.colostate.edu home page now.
Wireless

• UTFAB project mostly completed

• Finished since last meeting:
  – Guggenheim
  – MRB

• Pending:
  – Clark B

• Issues:
  – Depletion of IP addresses (again!)
Building Upgrades

- CIC
- Pending
CIC

Campus Infrastructure Committee

- 9 buildings initially identified
- Shepardson, OT, ARBL, Clark C completed
- Pending: A/Z, NESB, Clark A, VTH, Atmos, Engineering
- CIC to provide dual gig links to the above buildings.

5/19/2011
Pending

- CVMBS moving into Parking Garage
  - Student Center to have presence in Parking Garage
  - Morgan remodel (ongoing)
  - Alder Hall
  - Washington Elementary
Subnet Manager List

Replaces old, publicly available, static, text-based list!

For the eID that logged in, shows:
- Contact information
- Subnets responsible for
- Linked to off the ACNS home page or:
  http://www.acns.colostate.edu/SubnetManagers/NetworkManagers

Feedback welcome?

5/19/2011
Patch Cord Cable Information

- Type
- Colors
Patch Cord Cable Type

- Systimax (by Commscope)
- 6
- Red
- Available through Telecom (projects), RAMTech (non projects)

Anything else voids warranty.

5/19/2011
Patch Cord Cable Colors

- Red: Data

Following redone as NOC/Telecom go back through CIC buildings/switches/upgrades
  - White: Voice
  - Green: Security Cameras, CardKey, Meters, EMS, Facilities
  - Yellow: Wireless
  - Violet: A/V
  - Orange: Switch-switch links
• ...Questions?

• Thank you!
Security Updates

Steve Lovaas
5/18/2011
Risk Assessment

• If you’ve done yours, THANK YOU!
  – WCNR, AgSci, CAHS, ACNS, IS, IR, Audit

• If you’re working on it, please get results in
  – CoB, CVMBS, Research, CEMML, Extension

• If you haven’t done it, I’ll be calling you
  – CNS, CLA, ENGR, and other admin units
  – Need to finish this summer
New Security Tools

• **F5 Web Application Firewall**
  – Let us know if you’re interested for your web app

• **Cisco Firewall Service Module for core routers**
  – Will be replacing ACLs

• **Juniper SSL gateway upgrade**
  – No major changes, but newer hardware

• **Security Incident/Event Mgmt (Qradar)**
  – Ordered, should finish up PCI compliance

5/19/2011
Collaboration with CU

• Regular Meetings
  – I’m attending their Security Principals forum

• Shared Purchasing
  – Early exploration phase

• Current Opportunity
  – SANS awareness training, $1.25 per person
  – Who’s interested??

5/19/2011
IT Consolidation Update

- Ed Peyronnin’s presentation will be posted separately on the Subnet Managers web page.
Licensing – Diane Noren

- Endnote
- ESRI
- JMP
- Maple
- Microsoft Campus Agreement
- Qualtrics
Endnote

• New 3 year contract signed
  - Renews is July and expires on 7/31/14
• Prices will stay the same
  – Departmental lump sums payments
  – Individual License = $50.00 per year
• Endnote X 4.02 latest version
ESRI

- State wide License renewed
- 12 Schools participating
- Costs stay the same
  - $32.00 per license
- New student home use added to contract
- Online ESRI course available for FREE
- Geospatial Centroid
  - Helpdesk for GIS questions
- [http://gis.colostate.edu](http://gis.colostate.edu)
JMP

• New site license for JMP Pro and JMP Genomics
• VP of Research in conjunction with John McKay have paid for JMP Genomics
• Genomics will be available for all departments
• Need counts to determine price for JMP Pro
  – Hoping to be in the $50- $60 range
• The Stat Lab has agreed to provide consulting support for the JMP products
Maple

• Renews in September

• Have one college & possibly 2 dropping out of site license

• Do not have new Price quote

• Cost per license will more than likely increase to be able to keep the product

5/19/2011
Microsoft Campus Agreement

• Year 3 of Contract

• FTE counts remain the same as last year
  – unless Department has more than 10% increase

• Invoice will be sent next week due in July
• If you want to pay with this years funds contact Diane.Noren@colostate.edu
Qualtrics

• Did NOT have enough interest to pay for a site license.

• Needed an additional $13,000.00 to move forward.

• Departments that are currently using will keep the same type of license.
ACNS Storage Project – James Cizek

- “Silverbox” up and running with VMware
  - “Final” config
    - (Software): Open Indiana, Napp-it
    - (Hardware):
      256GB SSD for read cache (L2ARC)
      (2) mirrored 50GB SSD for write cache (ZIL)
      2TB Hitachi drives, LSI 9211 HBA (non raid)

- Still researching the need for the write cache
ACNS Storage Project (cont)

• In addition to standalone storage, we are looking at commercial products to manage “dumb” storage

• ACNS looking to build private “cloud” to offer virtualized storage for central apps

• Dovetails with server consolidation effort

• Target users of virtual storage would be:
  – Vmware cluster (Linux services)
  – Hyper V cluster (Windows services)
  – Information Systems (Database)
  – Institutional Research (Database)
  – Library applications (Digital Repository)
Advisory Group Update

• Windows – Joe Volesky
  – had to reschedule last meeting. Hope to meet in the near future.

• Mac – Jim Cox
  – Group met in early May 2011.
  – FAQ/best practices for iPad coming soon.
  – Apple coming to campus in June for Best Practices session. Date TBD

5/19/2011
Advisory Group Update

• Unix – Curtis Brown
  – Intro to CSU’s Cray computer by Richard Casey, Making email and web servers more redundant, Proofpoint Linux distributions, Mass Storage update,

• Advisory group information and minutes are posted on IAC web page, under Advisory Groups.
Any Other Items for Discussion?

• Campus standards have been updated for Mac desktops and Windows desktop and servers.

• Windows 7 is being quickly adopted on campus.

• Most units are not planning to roll out IE 9 just yet.
Next Subnet Managers Meeting

• Wednesday, September 21, 2011

• Location: TBA