

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

Agenda – cont.

Miscellaneous Updates

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

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.

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

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

Agenda

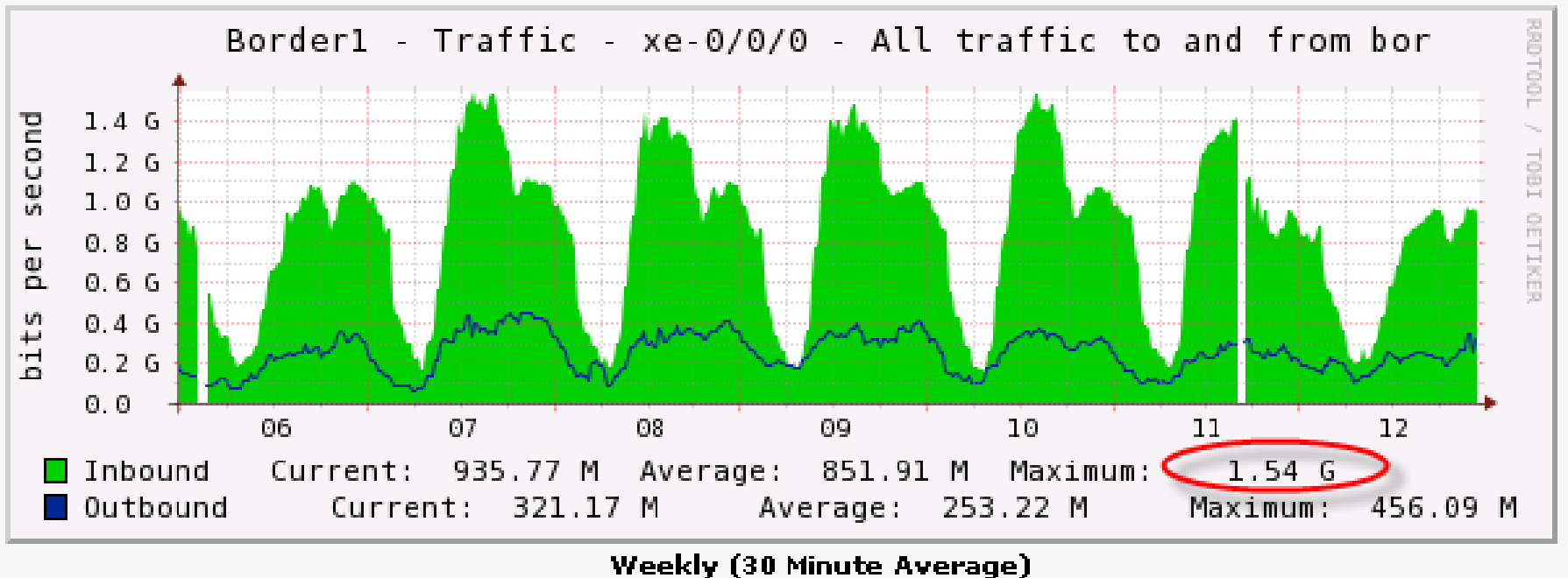
- Traffic updates
- Building updates
- Statistics and Monitoring tools
- Wireless, Wireless, Wireless

Traffic Update

- Internet Traffic
- “Outages”

Internet Traffic

Daily stats from last week:



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

The screenshot shows a web interface for Colorado State University. At the top left is the Colorado State University logo. The top right navigation bar includes links for Home, Meetings, Preferences, Session (07:59:29), Help, and Sign Out. Below the navigation bar is a search box with a 'Browse' button and a '(tips)' link. The main content area features a welcome message: 'Welcome to the Secure Access SSL VPN for Subnet Managers, redder. You last signed in on Wed, 07-Sep-2011 11:53:40 MDT from 10.84.8.54'. Below this are three sections: 'Files' with a 'Windows Files' link and 'Scan results folders' link; and 'Terminal Sessions'. A 'Web Bookmarks' section is also visible, containing a bookmark for 'Cacti' which is circled in red.

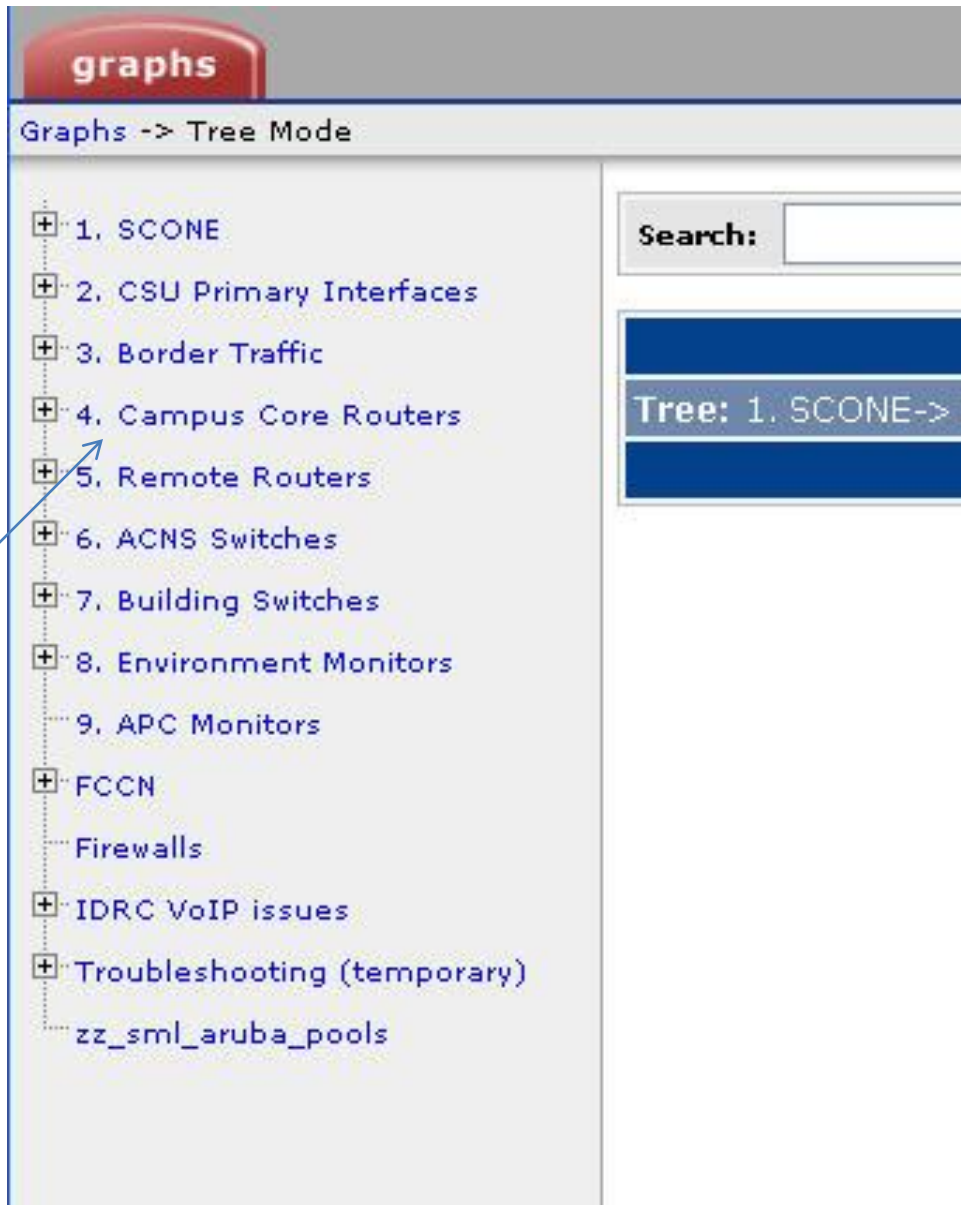
graphs

Graphs -> Tree Mode

- + 1. SCONE
- + 2. CSU Primary Interfaces
- + 3. Border Traffic
- + 4. Campus Core Routers
- + 5. Remote Routers
- + 6. ACNS Switches
- + 7. Building Switches
- + 8. Environment Monitors
- 9. APC Monitors
- + FCCN
- Firewalls
- + IDRC VoIP issues
- + Troubleshooting (temporary)
- zz_sml_aruba_pools

Search:

Tree: 1. SCONE-> L



Switch access

Colorado State University

Home Meetings Preferences Session 07:59:29 Help Sign Out

<http://10.100.x.y> Browse (tips)

Welcome to the Secure Access SSL VPN for Subnet Managers, redder. You last signed in on Wed, 07-Sep-2011 11:53:40 MDT from 10.84.8.54

Files

[Windows Files](#)

[Scan results folders](#)

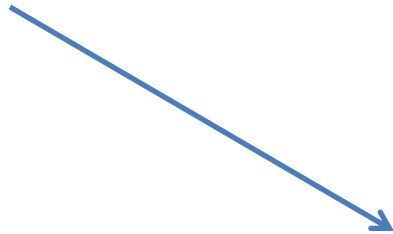
Terminal Sessions

Web Bookmarks

[Cacti](#)

Wireless, Wireless, Wireless

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



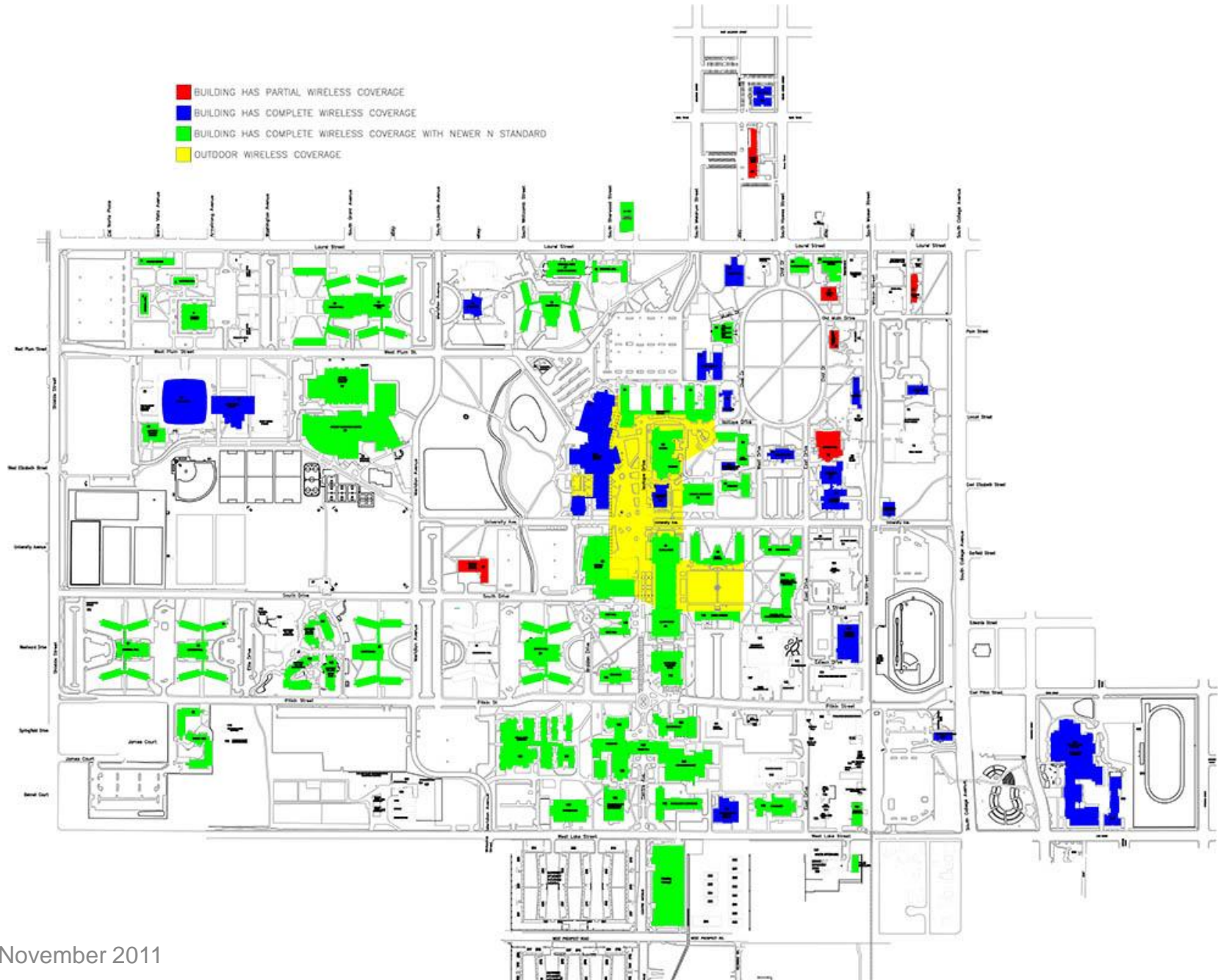
Ran out of IPs

Router that does NAT crashed

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

- BUILDING HAS PARTIAL WIRELESS COVERAGE
- BUILDING HAS COMPLETE WIRELESS COVERAGE
- BUILDING HAS COMPLETE WIRELESS COVERAGE WITH NEWER N STANDARD
- OUTDOOR WIRELESS COVERAGE



- 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.
 - Evaluate bids early 2012.

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, My SQL, PHP
 - ACNS has instance up and preparing to do a pilot.

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/>

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/>