CSU Subnet Managers
Sept. 21, 2016 Meeting

Last day of Summer!
Agenda

• IS Update – Josh Clark

• MS Azure, Amazon Web Services, Office 365 – Lance Baatz

• Listserve update – Dave Hoffman

• LMS Analytics – Kevin Nolan
• Security – Brian Dunnohew
• Software Licensing – Diane Noren
• VOIP / Telecommunications – Kyle Haefner
• Network Operations – Greg Redder
IS Update – Josh Clark

- HR upgrade
- KFS upgrade in Oct.
- Will work on timely communication
MS Azure, AWS

- Lance Baatz
- Azure agreement signed
  - Limited trial soon
- AWS agreement signed.
  - Looking at next steps.
Office 365 Update – Lance Baatz

• SharePoint Online sites available upon request
  – Departmental/User SharePoint expertise required!
  – Refer to http://help.mail.colostate.edu/o365sharepoint.aspx for more info

• Archive Mailboxes
  – User/shared mailboxes in Office 365 limited to 50GB
  – Archive mailboxes provide an additional 100GB
  – Refer to http://help.mail.colostate.edu/tt_o365_archive_mailbox.aspx
  – Available upon request.
Office 365 Update

• O365 Groups/Planner
  – Groups features include Inbox, Calendar, Library (store/share files), and Plan
  – Beta testing – shooting for Q4 general availability via Resource Coordinator request form

• Questions?
Listserv Update

• Dave Hoffman, ACNS

Change September 28, 2016, 9 am

OLD:
listname@colostate.edu
   Will bounce after this date & time.

NEW:
listname@lists.colostate.edu
LMS Analytics – Kevin Nolan

- C-ALT – Center for the Analytics for Learning & Teaching.
- What data is available for instructors.
- Canvas Analytics was on Sept 13.
- Next up: Kaltura and Echo 360 analytics – Oct 11, 2016, 2 pm Rockwell West 116

http://alt.colostate.edu/canvas-analytics-workshops/
Security

Brian Dunnohew, ACNS

• Nessus Scans
• Current Vulnerabilities
• Datacenter firewalls
• PCI
Nessus Scans

• Still running every month

• Please look at them

• New vulnerabilities are coming all the time, these are not static

• Starting w/ next meeting, we will start recognizing the “stars”
Current Vulnerabilities

• MySQL critical vulnerability
  https://www.exploit-db.com/exploits/40360/
  Patch expected Oct. 18, 2016

• Anonymous FTP Servers (not good)
New Datacenter Firewalls

• Only IS and Morgan Library so far

• Migrate others in the next couple of months
PCI

- SANS Training will be coming up
- Annual PCI meetings coming up for web app merchants
- Penetration Test coming up
Licensing Update

• Diane Noren, RAMTech

• Adobe Creative Cloud - Renews 8/28/2016
  – Cost Staying the same as last year.
  – Device license- $175.00 – for Computer Labs and Shared computers
  – Named user-$250.00- for Individual users- has online resources , online apps
Licensing Update

• Microsoft EES- Campus Agreement- renewed in July-
  – Mavenlink Project Management software – renewed in July
  – Will start billing for both in next 2 weeks.

• Mathematica- renews end of November
  – Renewal in process
Licensing Update

• Apple –
  – New iPads have arrived
  – iOS 10 released 9/13
  – MacOS Sierra released 9/22
CSU Telecom VoIP Update
Numbers

- 2,316,110 Calls for 2016
- 7281 extensions
- 6962 phones
# Upcoming Buildings

<table>
<thead>
<tr>
<th>Building Name</th>
<th>Time Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Buildings</td>
<td>Q3 2016- Q4 2016</td>
</tr>
<tr>
<td>Weber</td>
<td>Q1 2017- Q3 2017</td>
</tr>
<tr>
<td>CEMML</td>
<td>Q1 2017- Q3 2017</td>
</tr>
<tr>
<td>Upgrade</td>
<td>Winter Break</td>
</tr>
<tr>
<td>New Health Center</td>
<td>Q2 2017</td>
</tr>
<tr>
<td>New Biology</td>
<td>Q3 2017</td>
</tr>
<tr>
<td>New Chemistry</td>
<td>Q3 2017</td>
</tr>
<tr>
<td>Stadium</td>
<td>Q3 2017</td>
</tr>
<tr>
<td>Clean Up</td>
<td>Q4 2017</td>
</tr>
</tbody>
</table>
The Problem With Polycoms
Moving phones

• Phones must be moved by Telecom/ACNS
• Telecom will come and move phones for FREE in 3 days time!
  – $56 fee will be assigned to each phone that is moved by non-ACNS/Telecom staff.

• Please place a service order so we can move the phone and update 911.
• We will turn off Power over Ethernet to ports that do not need POE.
Questions?

KHAAAAAAAAAAAAAAAAAN
Network & Telecom Operations

Network Operations

— Wired infrastructure

— Wireless infrastructure

Telecom Operations

— General

— VOIP (Kyle Haefner)
Wired infrastructure

- 40G capable to FRGP! (50G with ResearchLAN)
- Current network infrastructure upgrades
- Construction projects
- NAT issues
40G capable to FRGP!

All Internet Traffic In/Out of Border Routers (bits/s)

Inbound: 5.94 G
- to Border2 Current: 2.17 G Average: 1.64 G Maximum: 4.20 G
- to Border1 Current: 3.77 G Average: 3.01 G Maximum: 5.72 G
Outbound: 1.15 G
- from Border1 Current: 906.68 M Average: 566.38 M Maximum: 1.09 G
- from Border2 Current: 238.78 M Average: 156.44 M Maximum: 607.95 M
Current network infrastructure upgrades

• West Campus
  – Atmos & Atmos Hill
  – Engineering Research Center
  – Newer bigger, better, faster routers at West Campus
  – Moving to 40G to West Campus soon!

• Physics

• “ENSB” almost fully replaced by “ENDR” after 6+ years of uptime!
Construction projects

Active

– New Stadium
– New Chemistry
– New Biology
– New Health Center
– Prospect Underpass
Construction projects

Buildings at various stages in the planning process:

– Natural Resources addition
– Animal Science addition
– Education addition
– Moby B-Wing addition
– A/Z addition
– Temple Grandin Facility @ West Campus
– 2 new buildings @ South Campus
NAT issues

All 10.x.y.z addresses get NAT’d to about 15 129.82.198.x addresses

- Blacklists
- Google Captcha
- Issues with NAT box during IOS10 release
Wireless infrastructure

• Upgrades

• Technical errata

• Facebook/Twitter feeds
Upgrades

• Outdoor wireless
  – Oval
  – Monfort Quad
  – Eddy/Clark C
  – LSC - pending
Upgrades

• Completing 802.11AC fill-in work in GA buildings through December.

• In January: start upgrading classrooms to 802.11AC “Wave 2” and moving the “Wave 1” into the rest of the building.
Upgrades

Central wireless funding spent down.

– Any trickle down gear can be placed into nonGA buildings.
Technical errata

• Turn off wireless on printers.

• Watch for personal hotspots.

• csu-eid IP ranges:
  – 10.83.x.x
  – 10.84.x.x

• csu-guest IP ranges:
  – 10.85.x.x
Facebook/Twitter feeds

- Facebook: www.facebook.com/csuwireless
- Twitter: @CSUWireless
Telecom operations

• Service order system – we’re going to work with folks to enhance/change this system.

• Project management across Telecom/NOC

• Change to charges – customers will see this on quotes

• $162 per Cat5e cable pull – this is a deal for all that is entailed with CSU standards!
Thank you.

Network Operations & Telecom Operations
Next Subnet Managers Meeting

Wednesday, November 16
10 am – noon
LSC 382