CSU Subnet Managers
November 29, 2017

Cyber Wednesday!

“Alexa, patch my servers!”
Agenda

• IS Update – Shawn Baker

• Middleware Update – Randy Miotke

• RAMtech/Licensing – Diane Noren
Agenda (cont.)

• Security – Steve Lovaas

• Network/Telecommunications/VOIP
  – Greg Redder
IS Update

Shawn Baker

- Banner 9
- KFS load balancing
- HR RUP10 patch
- Campus reporting tool (WebFocus negotiation)
Middleware – Randy Miotke, ACNS

• Shibboleth IdP software updated to 3.3.2

• eID

• WebAuth EOL – December 31

• Self-service update December 6

• Early January
eduPerson and Grouper LDAP directory updates
   External Identities project production phase one live
Licensing – Diane Noren

• Adobe
  – Acrobat Pro Campus wide
  – FTE based
  – Renews February, in Process
  – Cost same as last year

• Creative Cloud
  – Cost the same as last year
  – $250.00 per Named User
  – $175.00 per Device-must have computer name
  – Must notify RAMtech if computer name changes
Licensing

• Mathematica
  – Renews at end of the month
  - Network license- cost same as last year
  – Cost is $475.00 per licenses
  – Cost directly from Wolfram $650.00
  – Desktop License cost is $399.00 (less than last year)
  – Cost Directly from Wolfram $595.00

• Microsoft
  – Just started sending Invoices
RAMtech

- **SPSS-Amos**
  - January 1 renewal in Process
  - Departmental cost $72.75 this year
  - Same license directly from IBM cost $595.00
  - Network/Remote License cost same as last year

- **Faculty & Staff Night with the Bookstore**
  - Dec. 6, 2017,
  - IPad Pro giveaway and other prizes

- Questions
Security Chat

Steve Lovaas, Information Security Officer
No updates

• Today, rather than a list of items I could easily share via email, I want to talk about our user-device attack surface.

• We use BitSight to give visibility into what’s available from the internet, as well as the devices that are reaching out to interact with public servers.
Desktop OS versions

- Minimum supported/protected versions (top 10 in BitSight):
  - Windows 10
  - Windows 7/8.1 with latest patches (barely)
  - Mac OS X 10.13
  - Mac OS X 10.12.6
  - Too many linux variants to deal with here
Mobile OS versions

- Minimum supported/protected versions (top 10 in BitSight):
  - iOS 11.1.1
  - Android 6, 7
  - Android 4.4.4, 5.0.1
Browser versions

- Minimum supported/protected versions (top 10 in BitSight):
  - Chrome 62+
  - IE 11
  - Edge 14, 15
  - Safari 11
  - Firefox 56+
How to proceed?

• Biggest culprits:
  – Chrome (which should be auto-updating)
  – iOS
  – Older Mac OS X (update to High Sierra)
  – And be moving away from Windows 7/8.1

• Look at your Nessus scan results (you’re looking at them, right?)

• Contact soc@colostate.edu to get a login to BitSight, and look at your devices
Questions?
Network & Telecom Operations

Why are you wearing glasses?

I lost my contacts
Network & Telecom Operations

Network Operations:
- Traffic loads
- Construction
- MDF Upgrades
- Wireless update

Telecom Operations:
- Comm Room Keys
- Data patching
- Removal of analog phone switches
- VOIP
Traffic loads

Border:

- FY18: New border routers
  - 1 installed last Sunday
  - Other pending mid Jan before classes start

- FY19: 1x100G to FRGP
- FY20: 2x 100G to FRGP
MDF Upgrades

CIC Funding (new HP 5412R in MDFs)

- Centennial Hall
- SBB (condense to one 5412R)
- BSB
- EHS
- Yates
- RBL
- A/Z

“Hand me down to IDF”
Construction

Done!:
  – HPCRL

Started:
  – TMI
  – Richardson Design Center
  – WCNR Addition
  – A/Z Addition
  – Animal Science Addition
Wireless

- 24K at mid-day
- 100K over month
Wireless
“Wave2” building upgrades (FY18)

- Morgan
- Eddy
- Plant Science
- Chemistry
- Rockwell
- A/Z
- Natural Resources
- Aylesworth (C-Wing)
- Visual Arts

UTFAB Funded
Wireless
Non UTFAB upgrades

• Going through non General Assignment related buildings and replacing 1\textsuperscript{st} generation access points with 802.11ac Wave1 APs.
Wireless

• Xpressconnect configuration tool no longer available

• AdHoc WiFi networks, printers, etc. are causing interference.
“Comm Closets”….err, I mean: Communication Room Keys

Some MDFs/IDFs are keyed to building masters
- ACNS doesn’t issue building masters. We will work with network managers to share cost of re-keying communication rooms.

New buildings: cardkey for network managers
- For new buildings without cardkey – we’ll work closer with Facilities on keying properly.

Facilities is working on modernizing an aged key record system.
Data patching

Currently:

– “do it yourself” model: Network manager purchase and install red data patch cables
– “service order” model: Telecom will do work for free in 3-5 business days

Proposed:

– “Helpdesk” model: 4 business hours, free (upper limit: as yet to be determined)
– Targeted to start 1st Quarter, 2018
Removal of analog phone switches

Mid Dec:
- ERC remote switch
- ARBL remote switch

End of Dec:
- University Village remote switch

Main “SL-100” in Glover:
Main campus:
- Central: 75% completed
- East: 50% completed
- West: 25% completed
- The End!
VoIP Update

• Telecoms are losing an average of 700,000 landline customers per month.
• There will be 1 billion VoIP users by the end of 2017.
• Experts project that by the end of the year 2018 only 6 percent of the U.S. population will still be using the traditional landline phone network.

VoIP Update/Upcoming

• Working on call transfer issue.
• Continued work on presence. We think it better, but not 100%
• Last install!
  – President’s Office Mid Dec.
• Backend work
  – Long Distance
  – Voicemail
  – Phone Connections to world
• 8318 Phones on VoIP
Reminders

• Moving Phones – Don’t!
  – Telecom will move them for FREE

• Move Policy:
  – Phones can only be moved by ACNS/Telecom. To instigate a phone move by ACNS/Telecom, a service order must be placed: Service Order Form.
  – A $56 fee will be assessed for each phone that was moved without a preceding service order.
  – Turning off POE (Power over Ethernet) to non-phone ports.

• No Building Power = No network = No Phone
Thank you!

Network Operations & Telecom Operations
Next Subnet Managers Meeting

Wednesday, March 21, 2018
10 am – noon
LSC 376 - 378