CSU Subnet Managers
June 5, 2019

Summer at CSU!
Agenda

• Information Systems – Josh Clark
  - New Director of IS!
• ACNS Projects – Dave Hoffman
• Communications Committee – Dave Carpenter
• MS Teams – Lance Baatz
Agenda (cont.)

• Middleware – Randy Miotke
• Security – Greg Redder
• Network / Telecom – Greg Redder
• Adobe Creative Cloud Renewal Discussion
Information Systems

Josh Clark, newly named Director of IS.
Congratulations!

- KFS
- HR
- Banner
ACNS Projects

Dave Hoffman

• Systems IAM
• FAMweb Rollout Social Media Authentication
• Voicemail Migration
• Middleware Update
Communications Committee

• Dave Carpenter, HHS
Headless Security Update
(Most of the team is out of town at a conference, but we’re still working hard to secure your systems and your data!)

Security team expansion the past year:
• Hired Zach Campain, security analyst for business process/PCI compliance
• Hired Kelly Poto to help launch the Cybersecurity Internship program
  • 12 students in 2018-2019, 3 tracks
  • 16 students in 2019-2020, 4 tracks (+1 intern just for the summer)
• Approved: another security analyst for research compliance (posting soon)
• Approved: a security specialist for application scanning/mitigation
• In just over a year, Steve’s team grows from 1 to about 20
• The Nessus scanning refresh is just the first of the new services... stay tuned!
NOC/Telecom

The worst thing about broadcast storm jokes is that everyone’s already heard them a hundred times!
• Traffic Weather Maps
• Construction/Upgrade updates
• Response reminder: Level1 vs Level3
• VPN tunnels
• ToR switches
• VOIP
Traffic Weather Maps

Core<->Border
Data Center FW
West and South Campus
Secure Gateway
Building MDF/IDF upgrades completed since last meeting

2nd management module for redundancy and uptime (5 9's):

• AZ
• BSB
• Clark A & C
• Natural Resources
• SBB
• Shepardson
• Stadium
• Yates
Building MDF/IDF upgrades pending this FY

2nd management module for redundancy and 5 9's of uptime:

– Engineering
– Gifford
– MRB
– Rockwell
– Weber
Construction - completed
Construction - next up

• CVID
• JFEH
• Shepardson
• NWSC
• Meridian Village
Wave 2 WiFi upgrades

- Clark A, B, C
- TMI
- RDC
- A/Z HEOC
- GFIC
- Animal Science (original building)
- Glover
- Johnson Hall
- Pathology
- Physiology
- Aylesworth

Next up 802.11AX!
Eduroam - usage

Authenticated device count over the past months

- Your eduroam visitors devices
- Your user’s devices remotely authenticated
Eduroam – international logins

Where in the world are your eduroam guests coming from?
Response reminder: Level1 vs Level3

Level 1: MDFs and life-safety (24x7x365 response)

Level 3: IDFs and everything else (CSU Business hours response)

Primary and Secondary network managers have Emergency contact number for NOC/Telecom.
$93/hr, minimum of 2 hours if not a central services outage.
VPN Tunnels

– "Level 3" support (CSU Business Hours)
– Limitations on IP space
– Monitoring – will need to be able to ping something on other end

In general, procedures and processes for these might need some more attention
Top of Rack (ToR) switches

Provisions exist within the Network Operations Policy to allow for switches to be managed by the department/colleges provided:

- No central services exist on or via the switch
- The switch meets the campus standards
- The switch is typically not housed in an IDF/MDF but rather in a cabinet/rack/area in support of servers.
ToR switch expectations

- ToR switches are solely the responsibility of the department or college.
- Campus switches will not utilize bpdu packets coming from the ToR switch.
- The point of demarcation and responsibility of the NOC is the port on the campus switch for the link from the campus switch to the ToR switch.
- ToR switches will be kept-up-to date with code versions.
ToR switch expectations

• ToR switches will have adequate logins and passwords.

• The NOC will help and respond to ToR switch issues during normal University business hours as priorities permit.

• It is the department’s or college’s responsibility to monitor, backup and overall maintain the ToR switch.

• The NOC will offer advice on best practices, models, etc.
Misc.

NOC + Telecom = "netcom"
VOIP

The old SL-100 has "left the building"
(figuratively speaking)
VOIP

Presence – fixed!?
IDF Funding

Nearly $3M of funding may be available from the State of Colorado to support this refresh activity—will require co-sponsorship from CSU stakeholders starting in FY21:

– Students
– Central
– Per FTE
Questions &
Thank you
Licensing

Diane Noren

• Adobe Creative Cloud Licensing Update
See You In September!

Wednesday, Sept 18, 2019
10 – 11:30 am
LSC 304 - 306