

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



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



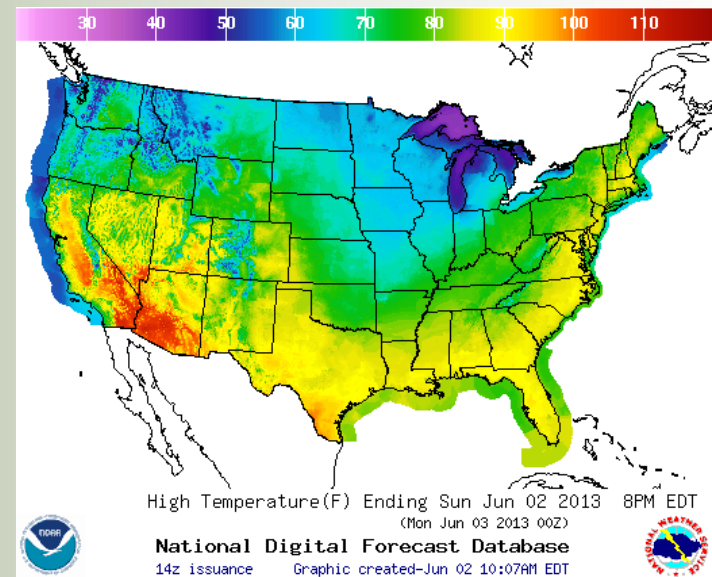
Traffic Weather Maps

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



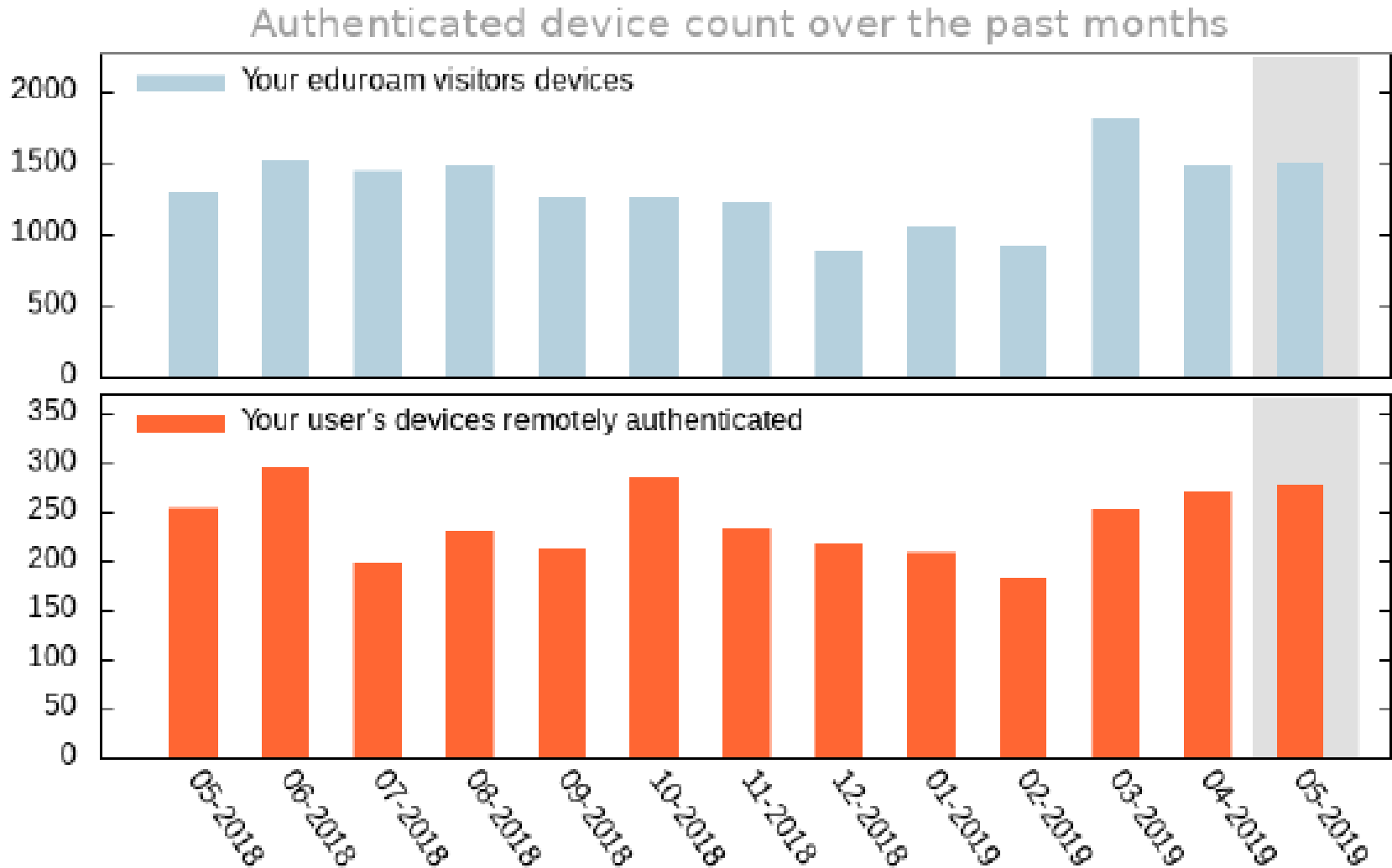
Wave 2 WiFi upgrades

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

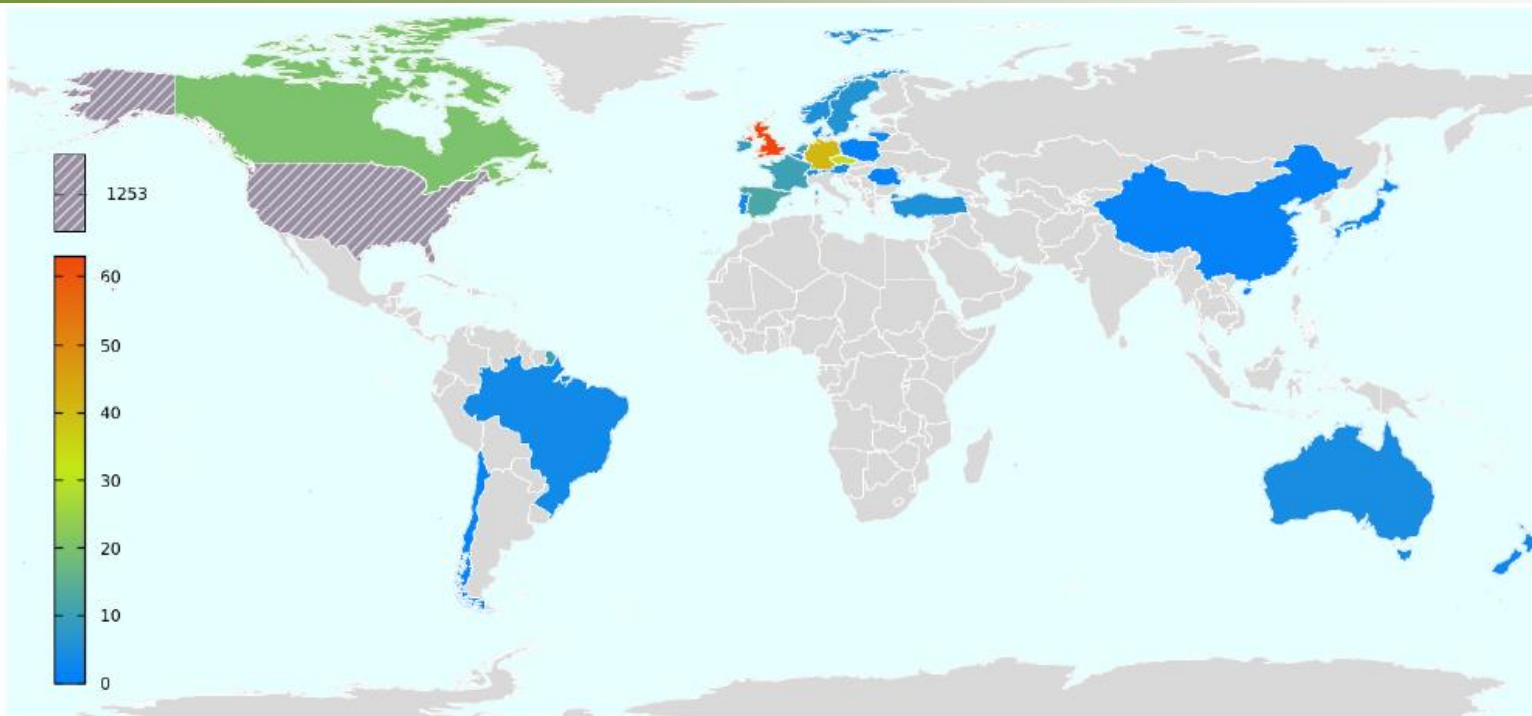
Next up 802.11AX!



Eduroam - usage



Eduroam – international logins



Number of guest devices by country of origin (unknown origin 0%)

USA	1253
United Kingdom	63
Germany	41
Czech Republic	34
Canada	20
Spain	12
Netherlands	10
France	10
Ireland	9
Sweden	6
Turkey	5
Switzerland	5
Norway	5
Austria	4
Australia	4
Portugal	3
Lithuania	3
Denmark	3
Brazil	3
Belgium	3
New Zealand	2
Japan	2
Singapore	1
Romania	1
Poland	1
Hong Kong	1
China	1
Chile	1

Where in the **world** are your **eduroam guests** coming from?



Response reminder: Level1 vs Level3

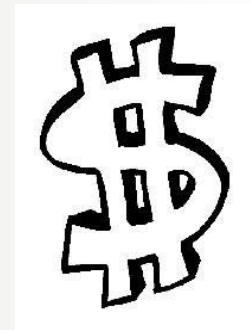
Level 1: MDFs and life-safety (24x7x365 response)



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

Primary and Secondary network managers
have Emergency contact number for NOC/Telecom.

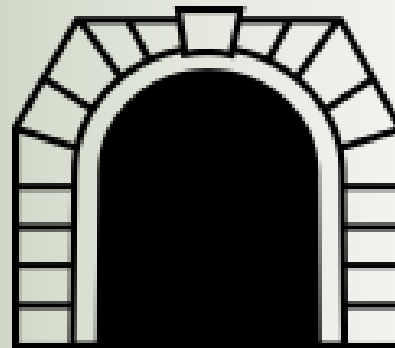
\$93/hr, minimum of 2 hours if not a central
services outage.



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 bpdv 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

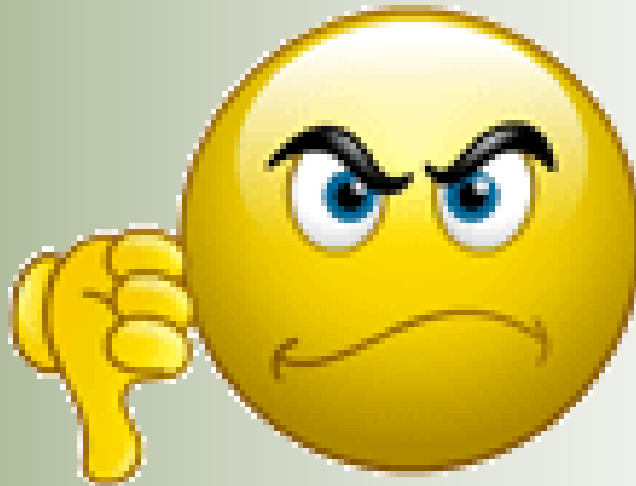
Presence – fixed!?



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

