Subnet Managers

June 3, 2020

A Bit Of A High Wire Act!

( But Our Hands Are Clean ;)
Housekeeping

Please mute your Mic unless speaking.

Please put questions in meeting Chat.

Meeting will be recorded.

Remember, it’s a feature in Teams that anyone in the group can stop the recording.

Please Don’t use this feature!
What’s On The Agenda

• IS/ACNS Campus Update – Josh Clark
• IAM Project – Dave Hoffman
• Acad. Tech – Kevin Nolan, Jamie McCue
• MS Teams Voice – Lance Baatz
What’s On The Agenda

• RAMtech / Licensing – Diane Noren, Derek Molnar
• Networking / Telecom - Jason Huitt
• Group Membership Management – Kevin Nolan
Campus IT Update

Josh Clark
Division of IT covid Prep

Divisional Documents to compliment the universities guidelines.

1). Classify Staff: Groups to determine if certain functions are essential for in person.
   a. Essential In Person Staff
   b. Faculty/Staff/Stakeholder Support
   c. Ad-Hoc
   d. Remote Workers

2). Processes/Policies
   a. Symptom Monitoring
   b. Social Distancing
   c. Office Environment
   d. Elevators
   e. Meetings
   f. Meals/Breakrooms
   g. EAP
Division of IT covid Prep

3). Return to work Scenario Planning
   a. Matrix for the Group and the Time of Return
      i. Staff classifications
      ii. Return Times:
          1. Start of Summer
          2. Start of Fall
          3. Mid Fall
          4. Start of Spring
   b. Staggered Schedules and A/B groups
Impact to Campus IT resulting from the pandemic

1) Lecture capture improvements
2) Central IT, CSU Online and TILT have collaborated to provide excellent support for Canvas.
3) A lease for Pulse secure was centrally funded so everyone can continue to have remote access to campus resources.
4) Microsoft Teams Pilot has expanded to better support collaboration in a remote environment.
Division of IT Updates

1) Brandon Bernier named VPIT, a Source Article will be coming later this week.
2) Effective June 30, ACNS/TELCOM is officially decoupled from the Library
3) Building momentum to bring ACNS/TELECOM and IS together in new ways to create efficiency and effectiveness across the division while building cohesive best practices.
   a. 6 initiatives:
      i. Research IT started in January
      ii. Peer Benchmarking in February
      iii. Infrastructure in March
      iv. Communications in May
      v. Cyber security in August
      vi. Employee engagement in October
Division of IT Updates

a. 6 initiatives:
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b. Infrastructure
   i. Bringing like services together
      1. Build cross training opportunities, enhance coverage
      2. Simplify infrastructure by consolidating IT purchases

c. To help support these efforts:
   i. Kacie Reed is joining us as a member of Citac
   ii. Dave Carpenter is joining as a member of IAC
IAM Project

Dave Hoffman
CSU System NetID

- The NetID format is the letter C followed by your 9 digit CSUID (e.g., C812345678)
- Live for all CSU-Pueblo Faculty, Staff, and Students Aug. 7, 2020
- CSU-Pueblo KFS users were converted on May 17, 2020
- CSU-Pueblo Guest Associate eID’s will be converted in July
- CSU-Fort Collins Campus will move the CSU System NetID in July, 2021
- Only new faculty, staff, and students will be affected
- Current eID owners as of July 2021 will continue to use their ename for login
IAM

WEID Users
• We are working on a replacement for WEID that will include this new information
• Target date is Sept. 2020

Duo in front of eid self-service (eid.colostate.edu)
• This will be implemented on Wednesday, June 10, 2020
• It will only ask for a second factor if the user has a registered second factor device
• Encourage anyone that is concerned about their security to register a device if they haven’t already done so
Academic Technology

Kevin Nolan, Jamie McCue
Canvas (and other web pages) DoS attack

- May 13 & 14 during finals
- ACNS, Web Communications responded

- Ramping Up Lecture Capture for Fall
MS Voice Project

Lance Baatz
Team Voice Project

• Where are we?
• What’s next?
Microsoft Voice – What can you do?

1. Teams-certified Headsets
   - Jabra Evolve 75 MS: Most commonly deployed headset at CSI
   - Poly Voyager 4220
   - Teams Certified Devices (Recommend Jabra and Poly)

2. Teams Quality of Service (QOS) Settings https://docs.microsoft.com/en-us/microsoftteams/qos-in-teams

3. Stay tuned!
M365 A5 For All!

- Teams Voice
  (Faculty/Staff)
- Power BI Pro
  (Faculty/Staff)
- Microsoft Bookings
- Advanced Analytics

Arriving in July!
Subnet Managers Microsoft Team

- Device Based Subscription
- Azure Training
  - June 23: 8am-4pm
  - AZ-900T01 Microsoft Azure Fundamentals Class
- Email security
- And more….

“I Am Root!”
Licensing

Adobe:

• Acrobat Pro
  – Named User License Model Migration
  – Testing in Final Stages
  – Derek Molnar – Project update

• Creative Cloud Grant
  – Extended to July 5
Licensing

- Adobe E-sign
  - Working on new Licensing model
  - More Departments participating

- ESRI
  - Contract renewal in process
  - Cost will remain the same
Licensing

- **Microsoft**
  - Contract renewal in process

- **Zoom**
  - Contract renewal in process
RAMtech

- Apple
  - End Of year Purchases

No Later than Noon on Friday, June 5, 2020

Questions?
Security

Steve Lovaas
Malwarebytes and other maladies

– Contacted by company.
– Consumer version cannot be used on campus machines.
– If plan to use, need to purchase a license
Upcoming Network Evolution

- Refresh cycles
  - Core infrastructure: EOL
  - Edge infrastructure: EOL++
  - Endpoint: (EOL)^-1

- New technologies
  - Cloud-based VoIP, IPv6, 100Gb

- New challenges
  - Unexpected guests
  - Use cases are changing
How to Locate Resource Constraints

1. Hold your budgets flat
2. Stick with your existing engineering
3. Explode your endpoint footprint
4. Seek shelter
Planning for the Future

- Rethinking our architecture
- Redistributing core network functions
- Investing in security
- Pursuing new technologies
Parallel Threads

Routing at the edge, instead of switching at the core, reduces load and latency, and increases capacity.

Reducing layer 2 spanning and VLAN dispersion sets the stage for routing at the edge.

Routing at the edge ensures that IP subnets exist in only one building, supporting Teams Voice and E-911 services.

Reducing layer 2 spanning and VLAN dispersion sets the stage for IPv6, which has no concept of a “flat” IP space.
Impacts on Subnet Managers or “How can I help?”

- Stand ready to work with the NOC to adopt a network topology that lends itself to edge routing
  - We know this requires compromise, but we have a six-building track record of great success in this regard

- Improve the network at the edge
  - Your advocacy for investments in our network, both wired and wireless, especially in these trying times, is greatly appreciated!

- Loop us in on any network-related projects you are considering
On the horizon…
On the horizon…

- Summer 2020:
  - Telecom billing system update
  - Lecture capture expansion and enhancement
  - Datacenter LAN upgrades

- Fall 2020:
  - Connexion peering
  - Teams Voice Pilot ramp-up
  - Security
Subnet Managers Members

• Grown to almost 300
• Upkeep a challenge
• IT Professionals?
• Student staff?
Other Topics for the Good of the Order?
Reliable Internet at home?

Must mean it’s almost time to head back to campus!

Perhaps 6 of us could meet together on campus in the fall and converse with our campus brethren via Teams.

We will keep you up to date.