Get Out your sunscreen…
And your rake!
Here We Go!

- Microsoft Teams & Voice Security – Joe Volesky, ACNS
- ACNS/Telecom Project Updates – Dave Hoffman, ACNS
- RAMtech / Licensing – Diane Noren, ACNS
- Middleware Update – Randy Miotke, ACNS
Here We Go!

- COB Azure Implementation – John Engelking, COB
- Network Operations Center Updates, Greg Redder, ACNS
- Subnet Managers Check In – Where Do We Go From Here?
Microsoft Teams Voice & Security Pilot

Background - Campus Communications Committee
Microsoft Teams Voice & Security Pilot

Additional Factors

• Microsoft Licensing Changes
• Growth of IT Security threats
Microsoft Teams Voice & Security Pilot

Pilot Proposal
(CFO & VP IT Approved)
Microsoft Teams Voice & Security Pilot

- Create a pilot of MS Teams – Voice & Security
- Comply with licensing changes (30% discount)
- Implement enhanced IT security products
Microsoft Teams Voice & Security Pilot

- Year 1 – No cost increases to campus
- Two paths: Successful/Not Successful
- Actively engaged with Microsoft Partner for Pilot
- Ask for Pilot volunteers coming – likely November
- Determination by Feb. 2020
Changes are in the air!

- Microsoft Advanced Threat Protection for eMail
- Voicemail
- Microsoft Teams Voice
- Microsoft Defender ATP
Microsoft Advanced Threat Protection for eMail.
What does this do

• Phishing Mitigation
• Attachment Scanning
• Link/URL Checking

• All in Real-Time
Why are we using ATP

- Phishing
- Malware/Virus Delivery
- Spoofed Links
Timeline

• AUG-Now: Pilot with small group in ACNS
• 9/19: Enabled for 160 people in a pilot group from across campus
• 10/21: Enable for the entire O365 Tennant
MyPhone Voicemail
Why are we changing

• Microsoft no longer supports our Session Border Controllers for sending VM to Email
• Microsoft has extended this several times
• Hard Deadline of December 1, 2019
What Stays the Same

• Traditional Voicemail Services
• Still forward voicemail MP3’s to email
• Can still dial into Voicemail at 1-5500
What Changes

• No Longer Unified Messaging
• No more Voice to Text translations
• Message Waiting Indicator will not work
Timeline

• This week: Pilot with ACNS Internal Team
• This week: Recruiting pilot participants from campus
• 10/21: All new Voicemail will be created in MyPhone Voicemail
• 11/4: New Voicemail Ready for final setup
• 11/18: Cutover to new Voicemail
Thank you
RAMtech – Diane Noren

Adobe:

**Creative Cloud**  
Renews Sept. 30  
• $263.50 per Named User  
• $199.75 per Shared-Device  
• Device licenses are for computer labs  
  • Must be installed by IT staff  
• Must notify RAMtech if computer name changes  
• Renewal emails in process.

**Acrobat Pro**  
• FTE based  
• Renews February
Adobe E-sign
Renewed
$1.55 per completed document
Invoice emails will be sent in October.

Microsoft
EES renewed July 1.
I have not started billing yet.
Invoice emails will be sent in October.
Licensing

• **Endnote**
  - Renewal notices sent
  - Version 9.0

• **Chem-Bio-Office**
  - Renewal notices sent
  - Chem-Draw 18

• **Mathematica**
  - Renews Nov.30, 2018
More Licensing!

- **Maple**
  - Renewal notices Sent

- **SPSS-Amos**
  - January 1 renewal

- **Zoom**
  - $75.00 for Zoom Pro
RAMtech

• Apple
  – Back to School Promotion ends Sept. 25, 2019
    • Personal purchases

  – Career Readiness Workshop
    • Save the Date: Thursday, October 10
      – Ten Essentials of Presentation and Storytelling
      – Career Pathways into the App Economy

Questions?
CSU System IAM Integration - Goals

- Support the Joint Banner project with a scalable Identity and Access Management (IAM) solution for the CSU System
- Provide an IAM solution that will allow students, faculty and staff to access Fort Collins or Pueblo systems with a single credential
- Simplify the eID registration and management processes for the account holder
- Improve provisioning and de-provisioning processes for both campuses
- Extend the uptime of identity systems and underlying database
- Phase I - utilize midPoint as the IAM system for the CSU Pueblo population
- Phase II - replace the eID system with midPoint
- Phase II or III: Consolidate CSU Pueblo Active Directory with CSU Fort Collins
midPoint Self-Service Experience

• When person data is ingested into midPoint from Banner, account holder will be notified to register for an identity

• Identity registration will contain these steps:
  – Agree to the Acceptable Use Policy
  – Create a password
  – Confirm or enter a recovery email address
  – Setup device(s) for two-factor authentication (if necessary)
  – Email management
CSU System Identity Format

- Existing CSU Fort Collins eIDs will be transferred into midPoint and persist
- New person records in midPoint will receive a CSU System identity in the format of C888888888
  - Numeric portion of ID matches person’s CSU ID
  - CSU IDs will be created using the same incremental value Banner generates today
- CSU Pueblo faculty/staff/students will all be transitioned to the new CSU System ID in phase I
Why change the format?

• Over 300,000 existing eIDs
  - 8 character limit
  - no reuse
  - usable friendly name space will diminish over time

• SAML federation with remote services requires persistent identifiers

• eID ename change requests are sparse but still occur
  - Provided because of health or safety issues
  - Consume 4 to 6 hours of staff time on average
  - Access to services can be interrupted
  - Access to saved resources can be completely lost

• New identity format does not have the same kind of emotional attachment to account holders and is more likely to persist
Project Timeline

• Mid-October:
  – First CSU Pueblo person load (faculty/staff) into Banner Conversion Database from CSU Pueblo AIS
  – Begin midPoint data integration with Banner Conversion and JBP1

• Oct-Dec: Full system process testing

• January 2020: Load CSU Pueblo faculty and staff to production instance of Banner general person

• Jan-Aug 2020: Faculty and staff testing of new IAM solution and Banner self-service

• August 2020: CSU Pueblo students are loaded into Banner production

• August 2020: Cutover to new IAM system for CSU Pueblo

• Phase II: Begin process to replace current eID system in fall 2020
  – Expected to take 2 years to make full transition
COB Azure File Sync for hybrid cloud – John Engelking

- A storage sync service for Windows file shares
- Centralize storage in Azure Storage Accounts, pick your data resiliency
- Automate file snapshots in Azure for backup and retention
- Standard Azure File shares max 5 TiB, 100 TiB in preview
- Sync all files, most recently used or up to your chosen GB capacity on local file server
- Install on standalone or failover cluster, supports deduplication and cloud tiering
Azure

- Migrate legacy file servers with Windows Admin Center and Storage Migration Service
- COB using 3 servers, 1 full sync, 2 cloud tier of files used in past 120 days
- Tiering server volumes are usually 97% free space for user and group files
- About 8 TiB, backups, logging and alerts for $1,200/month
Security Update

Steve Lovaas, University Information Security Officer
Network Operations Center (NOC) Telecom

- MDF upgrades for FY20
- Helpdesk <-> NOC/Telecom
- Construction
NOC/Telecom

- MDF upgrades for FY20
- Helpdesk <-> NOC/Telecom
- Construction
# MDF upgrades - Since April

<table>
<thead>
<tr>
<th>Building</th>
<th>Location</th>
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<tr>
<td>A/Z</td>
<td>BSB</td>
</tr>
<tr>
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<td>555 S. Howes</td>
</tr>
<tr>
<td>Moby</td>
<td>1304 S. Shields</td>
</tr>
</tbody>
</table>
MDF upgrades - FY20

Upgraded chassis with 2nd supervisor engine:

- MRB
- Animal Sci
- Chemistry
- Eddy
- Plant Science
NOC/Telecom <-> Helpdesk

• Border firewall changes:
  – Primary/secondary network managers

• Tickets without enough information:
  – Ticket to be updated to include college/dept IT staff.
Construction

• New and in progress
  – CVID and CSU<->CU SOM
  – AVRC
  – Western Slope (Grand Junction)

• Introducing: Matt Albertson

• Quotes: Working on a 2 week turn around
Subnet Managers Meetings
Where do we go from here?

- Name
- Purpose
- Format
- Needs
- Planning Committee
- Meeting frequency
What’s **Next...**

- **Survey**
- **Discuss at November Meeting**