



DISTRICT WIDE

I.T. Infrastructure Goals

Presented By [Calvin Madlock](#), Associated Vice Chancellor of Information Technology & [Gina Tomlinson](#), Director of Technology Services & Calvin Madlock,



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Campus Infrastructure Concerns

- **New Technologies are in demand...**
to better enable the overall user experience for our students, faculty and staff
- **Expanded growth & use of web and cloud-based applications**
...have begun to tax our dated network infrastructure
- **Expanded growth & use of web and cloud-based applications**
Each user averages 2-3 devices on the network at one time (tablet, PC, smartphone)
- **Upgrades and replacement of key network infrastructure across the campuses is critical...**
for the colleges to attract and retain the top student body, faculty and staff.
- **Upgrades can also enable growth and expansion of new services we can deliver for future strategy**

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Critical Areas to Address

● Upgrade and replace dated network switches

- Many of the devices are 8 – 12 years old
- Many of the devices are at end-of-life and end-of-support
- Many of the devices cannot support use of higher speed network circuits

● Replace numerous aged AT&T T1 lines with robust fiber circuits

● Consolidate Active Directory environment

- All campus domains/workgroups should transition under a single master *Peralta.edu forest*
- Allows for single sign-on capability for all. Which is needed for successful PeopleSoft, and Cloud email implementations
- Each campus IT lead would admin their organizational unit (OU) for their entire campus

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Critical Areas to Address

● IT Security Assessment

- Work with CA state security program to begin security assessment program
- Perform penetration tests of server rooms and WAN
- Review assessment report, begin plan to address improvement areas to ensure the secure storage of student, faculty, and staff data residing on our systems

● BCP/DR plan

- Determine which systems are deemed business critical
 - *Build on site failover for Level 1 business critical systems*
- Implement solution
 - *Cloud DR solution with replication or*
- Leverage colocation offsite facility

3 Risks if No Upgrades are Performed

- **With continued expansion of web and cloud based solutions, we are placing additional load on our WAN infrastructure.**

Upcoming campus wide projects slated for implementation, but not limited to are:

- PeopleSoft upgrade
- DGS Radio system
- Emergency Notification System
- Lenel badge system
- Classroom Scheduling
- Smart Classrooms Technology
- Campus Mobile Apps
- Scholar Management (*SEVIS – International Student*)
- SARS (*Scheduling and Reporting System*)
- Campus wide VoIP
- Cloud based email
- Wi-Fi at all campuses
- Other departmental applications

- **Each of these implementations will cause noticeably decreased performance, and network convergence if the infrastructure is not upgraded**

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