Personal Computers

H-P Blade Servers

Equipment Categories of Hardware and Software:

Desktop, laptops and tablets	Printers
Network switches & routers	Servers
Network monitoring tools	Wireless connectivity
Video conferencing	Streaming media
Generators & UPS	OptEMan WAN
25Live Room Scheduling	Portal Software
Document Imaging	Firewalls
System Redundancy	Smart Classrooms
Tape Backup	Consolidated Server Storage – SAN
Virtual Servers	Audio -Visual
DAS – cellular	Telephone systems

Avaya Telephone

Cisco 9400 Switch

IT Projects and Major Accomplishments as of July 2018:

➢**Design and Acquisition of latest industry standard 802.11ac DATA wireless equipment**

- Predictive design of wireless coverage for each building at each campus.
- Bid for new Wireless equipment and POE switches for inside building wireless. Successful bid of $872K was Board approved.
- Implementation of redundant wireless controllers at each campus for improved performance, uptime and traffic visibility.
- Cabling projects for new locations and installation of access points (APs) in campus buildings.
- Replaced old access points and added new ones.
- LPC Campus completed.
- Ekahau site surveys done to confirm coverage and service.
- Additional wiring and AP installs scheduled at Chabot.
- New equipment can handle the addition of more APs as needed.
- Expanded outdoor coverage to be a follow-on project.

➢**Distributed Antennae System (DAS) for improved cellular coverage inside buildings**

- Each campus has had a site survey to establish a baseline of carriers, frequencies and signal strength serving the campus buildings.
- Initial discussions with carriers like AT&T have begun for connection to the cellular system.
- Review and analysis of DAS system offerings that meet CLPCCD performance and topology requirements.
- Supplemental DAS connectivity added during DATA wireless improvements.
- Configuration of DAS solution for Las Positas campus underway. Chabot DAS solution to follow after Las Positas, when new Chabot MPOE is available.
- Drafting of Bid package for DAS Integrator selection. Expected release in July of 2018.

IT Projects and Major Accomplishments as of July 2018:

➢ LPC Building 1000

- Acquisition of state-of-the-art switching equipment and wireless.
- New computer equipment for labs and classrooms installed and ready.
- Building is wireless ready.
- Updated classroom AV systems nearing completion.

➢LPC New Telephone system

- Installation and configuration of LPC Telephone System based on Avaya Communication Manager System, in conjunction with Advantel partner.
- Phone System successfully rolled out to campus users June 29-30th.
- Additional management and reporting servers to be deployed in July.

➢CLPCCD, LPC and Chabot server environment enhancements

- Blade/SAN upgrades and new acquisition for improved server performance.
- Associated upgrades of network connectivity in Data Centers for 10 Gigabit speeds and performance improvements.

➢Campus Upgrades

- Desktop refresh in progress for Chabot labs, faculty and offices.
- Desktop images being prepared for future LPC campus rollout.
- Network equipment upgrades in bid process.

➢Other application system changes

- Banner Document Management System (BDMS) will be upgraded during the Banner 9 migration in October 2018 to increase storage to support new user groups.
- Luminus Web portal will be upgraded to Luminus 5 as part of the Banner 9 upgrade in October 2018.
- 25Live Room Scheduling System is fully operational for both colleges as of fall 2017.

IT Projects and Major Accomplishments as of July 2018:

➢ **Conversion of Opt-E-Man to new AT&T ASE technology**

- Implemented new OptEMan for CLPCCD campus connectivity in 2008.
- AT&T has migrated to the new Switched Ethernet service (ASE) on CalNet-3.
- 5 times more bandwidth/speed for the same price.
- Improved response times for enterprise systems, email and file sharing.
- AT&T construction in progress. Implementation planned for fall of 2018.

➢ **Improved CENIC Internet connections at each campus**

- Community Colleges are being upgraded to 10 Gigabit connections for Internet access.
- Each of Chabot and Las Positas will have separate 10 Gigabit connections.
- CLPCCD ITS bid and acquired enhanced FirePower platforms.
- This provides advanced threat detection and protection of campus network resources.

Internet

LPC

Link between LPC and the Internet
1Gigabit Bandwidth. MOVING to 10 Gigabit

100Mb moving to 500Mb
Access Speed

DISTRICT OFFICE

OptEman moving to A SE

20Mb moving to 100Mb
Access Speed

1.5Mb
Access
Speed

TVOS

100Mb moving to 250Mb
Access Speed

Link between Chabot and the Internet
1Gigabit Bandwidth MOVING to 10 Gigabit!

CHABOT

Internet