***TECHNOLOGY UPDATE***

The following provides an update on the recent work that has been accomplished on the campuses and at the district to address current and future technology needs. The information includes the planning committees and their charge, accomplishments to date, current objectives and initiatives, future initiatives, and projected future budget expenditures.

***Technology Vision Statement:***

By December 2017, provide seamless integration of technology throughout an environment that promotes student access and learning that prepares the District’s students to be innovators and leaders in the global workforce.  *(Adopted by the Board of Trustees on October 10, 2013)*

**FRESNO CITY COLLEGE**

**Technology Advisory Committee (Strategic Planning Council Advisory Committee)**

**Membership Roster Fall 2013**

Director of Technology, Chair Don Lopez

VP Administrative Services Designee Richard Harrison

Chair, Academic Senate Instructional Technology Committee Brian Baker

1 DSP&S Representative Leslie Silva

1 Dean of Student Services (Appointed by VP of Student Services) Linda Mendez

1 Dean of Instruction (Appointed by VP of Instruction) Rick Santos

1 Faculty, Applied Technology Craig Polanowski

1 Faculty, Business Richard Tuttrup

1 Faculty, Fine, Performing, & Communication Arts Janine Christl

1 Faculty, Humanities Jeannie Santos

1 Faculty, Health Sciences Sarah Edwards

1 Faculty, Library and Student Learning Support Services Donna Chandler

1 Faculty, Math, Science, & Engineering David Balogh

1 Faculty, Social Sciences Nickolas Lucio

2 Faculty, Student Services Stephanie Harris,
Michael Rodriguez

3 Classified Representatives (Appointed by CSEA/Classified Senate) Anthony Celaya,
Keelin McCabe,
Susi Nitzel

1 Student (Appointed Associated Student Government) Josh Zamora

**Charge**

The Technology Advisory Committee (TAC) develops, writes, evaluates and updates the Fresno City College Campus Technology Plan. The purpose of the TAC is to evaluate, review and advise in planning for acquisition, maintenance and use of current and future technology throughout the college. The committee submits policy recommendations that are strategic in nature to the Strategic Planning Council and those that are operational in scope to the College President. Serves as advisory to the District Technology Coordination Committee. In addition, the committee recommends training activities that assist all college faculty and staff in the uses of technology.

**Technology Plan**

The Fresno City College Technology Plan has been approved by the constituent groups and the SPC and is scheduled to be updated in spring of 2014. However, the Technology Advisory Committee has formally requested a one-year extension so that the campus technology plan can align with the District technology plan, anticipated to be completed in spring of 2014.

**Accomplishments since Fall 2011**

1. Virtualized 48 production servers on the VMWare platform. Only four physical servers remain.
2. Purchased 3 Nimble ISCSI storage units with expansion shelves for virtual server storage, VDI storage and data disaster recovery.
3. Established data disaster recovery at the District Office using the Nimble ISCSI storage device and Veeam 7 Backup and Replication software and Symantec Backup Executive for backup and recovery of data and virtual machines on a daily basis.
4. Upgraded all top-of-stack switches (37 switches). Replaced CISCO 37XX 10/100 Mb switches with Juniper 4200 models that are 10/100/1000 Mb. Allows for two (2) 10 GB connections to each building.
5. Replaced all Uninterruptible Power Supplies in all cross connects on campus. UPS up time is now 30+ minutes for phones and top-of-stack switches.
6. Replaced wireless network throughout campus. Full rip and replace of Blue Socket with Aerohive access points. Latest generation protocols for wireless implemented. Added 100 additional access points to the campus (179 total to date).
7. Replaced Fujitsu phone system with CISCO VoIP phones. Replaced 800+ phones for staff, faculty, and classrooms.
8. Implemented panic button system for every phone on campus.
9. Replaced CTC WAN connection. Replaced 2, 1MB T-1 connections with a wireless broadband connection at 10MB.
10. Added fiber optics to four bungalows at CTC, completing the fiber infrastructure. Added data connectivity to every classroom at CTC.
11. Replaced the Fujitsu phone system with CISCO VoIP at CTC. Added phones to every classroom and replaced all handsets on staff and faculty desks.
12. Added 12 video cameras to the library for video surveillance, with additional 14TB of video storage.
13. Added 11 new video cameras to the east wing of the OAB.
14. Replaced four computer labs in Applied Technology, three in Language Arts, and two in Business Education.
15. Added 24 new A/V control systems in rooms throughout campus.
16. Implemented VDI for the Title V Caminos cohort. Outside campus access available to all 170 students in the cohort.
17. Implemented Microsoft 2008 R2 Hyper-V and the virtualization of 3 servers at CTC: Domain Controller, file server and a print server.
18. Implemented ISCSI backup solution at CTC using an Iomega IX4-200d and a combination of Microsoft backup for full daily backups of the user data Monday through Friday and Veeam Backup and Replication for the virtual machines on Hyper-V every 20 days.
19. Implemented Citrix Provisioning Services on 2 labs on campus to provide a streaming desktop to the students.
20. Implemented Citrix XenApp for the virtualization of applications.
21. Purchased and integrated a Dell M1000e 16 blade server enclosure for virtual desktop infrastructure to host an estimated 700 to 800 VDI desktops, Citrix Provisioning Services for streaming a user desktop and server virtualization.
22. Implemented the SARS to Datatel synchronization for XCASM data for Reedley and the North Centers.
23. Implemented new IP scheme throughout campus. Consolidation of VLAN’s for better wireless integration, use of multicast across all subnets, and tighter security controls for critical data storage.
24. Implemented new Datacenter address space for the future implementation of a “Zero-trust” data center infrastructure.
25. Upgraded campus Core switch with a Juniper 8200 switch. Provides for 10 GB connectivity to campus buildings.
26. Virtualized help desk appliance and software version upgraded.
27. Purchased Atomic learning software for 24/7 online training for faculty and staff.
28. Implemented the EDUStream software for the campus.
29. Expanded the use of EMS software used for facilities management to include all classrooms on campus. Images now provided for all the rooms in the system.
30. Implemented the Virtual EMS web-based software for facilities requests.

**Current Objectives/Initiatives**

1. Remove HP Blade Enclosure and Storage Array recently replaced by the Dell Enclosure and Nimble Storage Array.
2. Update VMWare virtualization software to version 5x.
3. Remove the EMC CX-200 storage array from FCC to be potentially relocated at the District Office for surveillance camera storage.
4. Complete the installation of cameras and temperature monitoring devices in all cross connects on campus.
5. Complete the installation of monitoring devices for UPS’s in all cross connects on campus.
6. Implement the SARS Messaging software for communication with students regarding appointments for various service areas on campus.
7. Expand new wireless infrastructure to Child Development Center and Police Academy locations.
8. Install additional cameras at Child Development Center, Old Administration Building, Math Science Engineering Building courtyard, Business Education courtyard, Tutorial Center, and the Media Center computer lab.
9. Develop a replacement cycle for instructional technology in classrooms.
10. Re-establish the computer replacement policy that was suspended during the budget reductions.
11. Implement Virtual Desktops for all administrators on campus.
12. Expand the Title V Caminos program VDI project to 300 user access.
13. Convert student email to Office 365 from Live@EDU.
14. Convert various A&R forms to electronic versions.
15. Develop an Application Development policy for the campus through the Technology Advisory Committee.
16. Continue to participate in the development of the District Technology Plan.
17. Review inventory management software for assets throughout the District.
18. Evaluate expansion of “Provisioning Services” to all labs on campus.
19. Evaluate thin clients for replacement of standard PC’s where appropriate.
20. Evaluate expansion of current imaging software to other areas of the campus. A proposal has been submitted to the District Office for conversion of Singularity to OnBase which would allow for the expansion of imaging throughout campus.
21. Establish R&D environment for evaluation of Microsoft System Center.
22. Install Doceri software for iPad control of A/V systems for identified classrooms.
23. Complete installation of new A/V controls in eight additional rooms and replace 33 projectors.
24. Evaluate a laptop checkout program in the library. Student would be able to check out a laptop for four hours at a time, similar to a book, for use in the library. The project is based upon thin client laptops. These devices will only function in the library.
25. Replace the integrated library system with a hosted version from OCLC World Share.

**Future Initiatives**

1. Evaluate Microsoft Forefront for anti-virus and potential replacement of Sophos.
2. Expand VDI to all faculty and staff on campus where appropriate.
3. Provide virtual desktops and phone numbers for all adjunct faculty.
4. Evaluate document/image archival software for cataloging of important campus documents and images.
5. Replace all analog video conferencing hardware with digital hardware.
6. Replace all analog A/V control systems in classrooms with digital equipment.
7. Expand Atomic Learning software training for all students throughout the District.
8. Implement wireless printing on and off campus.
9. Implement an integrated ID system proposed by the Technology Advisory Committee for the campus and District.
10. Implement paperless campus proposal from the Technology Advisory Committee.
11. Establish a laptop checkout program in the library.

**Budget Projections**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | FY 13-14 | FY-14-15 | FY 15-16 | FY 15-17 | FY 15-18 | FY 15-19 | FY 15-20 | FY 15-21 | FY 15-22 | FY 15-23 |
|  |   | 1 Year | 2 Years | 3 Years | 4 Years | 5 Years | 6 Years | 7 Years | 8 Years | 9 Years | 10 Years |
| 1 | Uninterrupted Power Supplies |  |  |  |  | 181,500 |  |  |  |  | 181,500 |
| 2 | Top of Stack Switches |   |   |   |   | 400,000 |   |   |   |   | 400,000 |
| 6 | ISCSI Storage |   |   |   |   | 150,000 |   |   |   |   | 150,000 |
| 7 | iSCSi Switches |  |  |  |  | 75,000 |  |  |  |  | 75,000 |
| 8 | Access Switches | 500,000 |   |   |   | 212,500 |   |   |   |   | 212,500 |
| 9 | VoIP for Campus | 320,000 |  |  |  |  |  |  |  |  | 250,000 |
| 10 | Virtual Server Infrastructure & Software | 400,000 |   |   |   | 250,000 |   |   |   |   | 250,000 |
| 11 | ADA Workstation | 39,000 |  |  |  | 50,000 |  |  |  |  | 50,000 |
| 12 | Lab Computers - Instruction | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 | 150,000 |
| 13 | Audio Visual Equipment Maintenance | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 |
| 14 | Staff/Faculty Computers | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 |
| 15 | Instructional Software - Lottery | 400,000 | 420,000 | 441,000 | 463,050 | 486,203 | 510,513 | 536,038 | 562,840 | 590,982 | 620,531 |
| 16 | Non-instructional Software - Lottery | 100,000 | 105,000 | 110,250 | 115,763 | 121,551 | 127,628 | 134,010 | 140,710 | 147,746 | 155,133 |
|  |  | 2,009,000 | 775,000 | 801,250 | 828,813 | 2,176,753 | 888,141 | 920,048 | 953,550 | 988,728 | 2,594,664 |

**REEDLEY COLLEGE (including Madera and Oakhurst)**

**Technology Advisory Committee – a subcommittee of the Facility Committee**

**Membership Roster Fall 2013**

Chair Gary Sakaguchi
Reedley College Sharon Wu
Reedley College Sandra Fuentes
Reedley College Letty Alvarez
Reedley College Linda Nies
Reedley College Jason Asman
Reedley College Dustin Sperling
Madera Center John Cusaac
Reedley College – Past Chair Anna Martinez
Reedley College Steve Jones
Reedley College Janice Ledgerwood
Reedley College Colleen Snyder
Reedley College Franchesca Amezola
Reedley College B.J. Marquez
Madera Center James Davis
Reedley College Donna Baker-Geidner
Reedley College Lisa McAndrews
Madera Center Jim Chin
Madera Center Monica Nolasco
Madera Center Loren Palsgaard

**Charge**

1) Work with college’s strategic planning to project future technological needs of the college.
2) Work with SCCCD technology committees (ex. ISP) to share information on technological needs and developments in the District, specifically those that affect Reedley College.
3) Promote and facilitate the standardization of technology related software, equipment, and facilities.
4) Coordinate computer activities/events and foster communication on computer labs.
5) Recommend software and hardware acquisitions.

**Technology Plan**

The Reedley College Technology Plan was approved by College Council on September 14, 2011. It is currently being updated to reflect the change in the Reedley College Strategic Plan and to include the Madera and Oakhurst centers. The plan continues to focus on the primary objective of a consistent equipment/software replacement plan. The equipment and software needs have been identified and incorporated into a replacement/update schedule. The major challenge continues to be securing a consistent funding source.

**Accomplishments**

1. Reedley College infrastructure upgrade. $2.8 million project to upgrade the network infrastructure at the Reedley campus. Started in July 2012 and completed May 2013.
	1. Building network rooms were constructed or updated.
	2. Replaced a majority of the network fiber infrastructure.
	3. Replaced all of the old network switches with Juniper equipment.
		1. Upgrade from 10/100mb to 1gb connections to the desktop.
	4. Installed Cisco VOIP phone system
		1. Removed Fujitsu phone system in May 2013.
		2. Installed Cisco VOIP phones in all rooms and offices.
	5. Allowed the Single Wire emergency notification system to be deployed.
	6. Installed backup generator and UPS in the MDF
2. The five year replacement plan continues to be a major component of the Reedley College Technology plan. The TAC and college continue to improve the plan with the goal of being comprehensive in provide a clear road map for all technology updates.
	1. 2011 – Replaced computer labs – FEM4E, BUS49, LFS11
	2. 2011 – Replaced faculty computers
	3. 2011 – Upgraded RC server farm
	4. 2011 – Upgraded Forum 1 video/audio system
	5. 2012 – Implemented VDI for LRC, STC, STS
	6. 2012 – Upgrade MC servers
	7. 2012 – Upgraded Media server
	8. 2013 – Replaced laptop labs – CCI202, CCI207, BUS43, FEM7, PHY82
	9. 2013 – Replace Polycom units at RC/MC/OC
	10. 2013 – Planned – Phase I – RC Wireless upgrade
	11. 2013 – Planned – VDI implementation at MC
	12. 2013 – Planned – Upgrade wireless to Aerohive equipment
3. The software update plan is being incorporated into the Technology Plan, starting in 2013. Similar to the hardware replacement plan, it will allow student/faculty/staff consistent access to current software throughout the college. Previously with the haphazard method of allocating resources, some old software was being utilized. Consolidating allows the opportunity to reduce costs by negotiating better pricing. E.g. Microsoft, Anti-virus and Adobe.
4. In 2011 implemented Camtasia Relay for lecture capture. Instructors can record class sessions and post to Blackboard. Allows students to review a lecture which improves learning.
5. Standardized Blackboard software updates starting June 2011 continuing each year at the beginning of June. Allows instructors access to the latest/greatest new features from Blackboard.

**Current objectives/initiatives**

1. Update the Reedley College Technology Plan – *In Process*
2. Incorporate the MC/OC technology needs into the RC Technology Plan – *In Process*

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| --- | --- | --- | --- | --- | --- |
| Lottery Plans | Total | Madera |  | Oakhurst |  |
| AP2014 |  $ 292,954.72  |  $ 256,936.25  | 88% |  $ 36,018.47  | 12% |
| AP2015 |  $ 270,940.29  |  $ 261,963.69  | 97% |  $ 8,976.60  | 3% |
| AP2016 |  $ 291,960.94  |  $ 252,042.51  | 86% |  $ 39,918.43  | 14% |
| AP2017 |  $ 121,567.78  |  $ 107,595.71  | 89% |  $ 13,972.07  | 11% |
| AP2018 |  $ 286,271.14  |  $ 145,122.23  | 51% |  $ 13,322.43  | 5% |
| 1st cycle |  $ 1,263,694.85  |  $ 1,023,660.37  | 81% |  $ 112,208.00  | 9% |
|   |   |   |   |   |   |
| AP2019 |  $ 225,213.70  |  $ 190,422.63  | 85% |  $ 34,791.07  | 15% |

1. Extend VDI initiative to MC this year (OC in 2015) - *Investigating*
	1. Possible 10-20% savings in hardware costs
	2. Costs incorporated in the MC/OC technology plan
2. Increase WAN connection speed for Oakhurst - *In Process*
3. Install VOIP phones at Oakhurst – Replace Fujistu phone system - i*n Process*
4. Increase WAN connection speed for RC to 1gb. - *In Process*
5. Continue HW/SW replacement/upgrade plans
6. Update Blackboard to Version 9.1.14 in June 2014
7. Test migration to Microsoft Office 365 (hosted Exchange mail) - *Investigating*
8. Replace wireless access points with Aerohive equipment at Reedley – *Spring 2014*

**Future initiatives**

1. Remodel computer labs at RC/MC with computer desks that have popup monitors.
	1. Allows usage as a standard classroom, increasing utilization
	2. Redesign layouts to increase capacity
	3. Estimated cost - $25-30k per room. POR5, LAL1, HUM62, AV1-139, AV1-239
2. Remodel MC library computer lab to increase capacity.
	1. Estimated cost - $30k
3. Replace remaining Polycom units at RC/MC/OC with HDX series equipment
	1. Standardize quality of the video conferencing
	2. Estimated cost - $15-35k per room

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| **Budget Projections** |
| **Reedley Hardware** |  |  |  |  |
|  |  |  |  |  |  |
|  |   |  |  |  |  |
|  | AP2014 |  $ 299,323.70  |  |  |  |
|  | AP2015 |  $ 318,461.88  |  |  |  |
|  | AP2016 |  $ 270,841.43  |  |  |  |
|  | AP2017 |  $ 298,436.23  |  |  |  |
|  | AP2018 |  $ 331,207.23  |  |  |  |
|  | 5yr Total |  $ 1,187,063.25  |  |  |  |
|  |   |   |  |  |  |

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| **Madera/Oakhurst Hardware** |
|  |  |  |  |  |  |  |
|  |  | Total | Madera |  | Oakhurst |  |
|  | AP2014 |  $ 292,954.72  |  $ 256,936.25  | 88% |  $ 36,018.47  | 12% |
|  | AP2015 |  $ 270,940.29  |  $ 261,963.69  | 97% |  $ 8,976.60  | 3% |
|  | AP2016 |  $ 291,960.94  |  $ 252,042.51  | 86% |  $ 39,918.43  | 14% |
|  | AP2017 |  $ 121,567.78  |  $ 107,595.71  | 89% |  $ 13,972.07  | 11% |
|  | AP2018 |  $ 286,271.14  |  $ 145,122.23  | 51% |  $ 13,322.43  | 5% |
|  | 1st cycle |  $ 1,263,694.85  |  $ 1,023,660.37  | 81% |  $ 112,208.00  | 9% |
|  |   |   |   |   |   |   |
|  | AP2019 |  $ 225,213.70  |  $ 190,422.63  | 85% |  $ 34,791.07  | 15% |

**Software (2014)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Vendor* |  | *Reedley* | *Madera* | *Oakhurst* |
| *Blackboard* | *Licensing fee* |  *$ 55,528.65*  |  *$ 19,012.69*  |  *$ 2,583.40*  |
| *Blackboard* | *Additional storage* |  *$ 7,556.35*  |  *$ 2,587.25*  |  *$ 351.55*  |
| *Foundation* | *Presidium support* |  *$ 14,367.97*  |  *$ 4,919.51*  |  *$ 668.45*  |
| *Secure Content* | *Sophos* |  *$ 4,923.08*  |  *$ 1,476.92*  |  *$ 246.15*  |
| *Secure Content* | *Sophos - email* |  *$ 2,153.85*  |  *$ 646.15*  |  *$ 107.69*  |
| *Eaton* | *UPS Maintenance* |  *$ -*  |  *$ -*  |  *$ -*  |
| *Computerland* | *Microsoft license* |  *$ 15,937.95*  |  *$ 4,128.69*  |  *$ 1,092.89*  |
| *Computerland* | *Microsoft license* |  *$ 11,190.06*  |  *$ 2,898.76*  |  *$ 767.32*  |
| *Computerland* | *Adobe license* |  *$ 14,836.80*  |  *$ 5,254.70*  |  *$ 927.30*  |
| *Techsmith* | *Camtasia Relay/Studio* |  *$ 2,919.42*  |  *$ 1,012.86*  |  *$ 119.16*  |
| *Netsupport* | *Netsupport license* |  *$ 1,195.95*  |  *$ 783.06*  |  *$ 142.38*  |
| *Faronics* | *DeepFreeze* |  *$ 2,415.00*  |  *$ 585.31*  |  *$ 68.86*  |
| *Chariot* | *WebGrade* |  *$ 1,245.00*  |  *$ -*  |  *$ -*  |
| *Chariot* | *Micrograde Email* |  *$ 2,000.00*  |  *$ -*  |  *$ -*  |
| *Harland* | *Class Climate* |  *$ 2,138.00*  |  *$ -*  |  *$ -*  |
| *Vision Internet* | *Website hosting* |  *$ 1,200.00*  |  *$ -*  |  *$ -*  |
| *SPSS* | *SPSS licensing* |  *$ 472.78*  |  *$ -*  |  *$ -*  |
| *SolarWinds* | *Webhelpdesk* |  *$ 1,071.00*  |  *$ -*  |  *$ -*  |
|  |  |  |  *$ -*  |  *$ -*  |
| *SARS* | *SARS* |  *$ 7,790.00*  |  *$ -*  |  *$ -*  |
| *Adam Software* |  |  |  | *5500* |
| *Other - misc* |  |  *$ 5,000.00*  | *3000* | *1500* |
|  |  |  |  |  |
|  | *Total* |  *$ 153,941.86*  |  *$ 46,305.90*  |  *$ 14,075.15*  |

**Willow International Center**

**Distance Education/Technology Advisory Committee**

**Membership Roster Fall 2013**

Director of Technology, Chair Gary Sakaguchi

Campus President Deborah Ikeda

Dean of Students Doris Griffin

Micro Computer Resource Tech (CSEA) Bob Gafford

Librarian Cynthia MacDonald

DSP&S Representative Ryen Hirata

Social Science/Business Rep Ray Tjahjadi

Humanities Rep Kirtley King

Humanities Rep Erik Fritz

Math/Science/Engineering Rep Vacant

Math/Science/Engineering Rep Roger Hitchcock

Social Science/Business Rep Joseph Libby

Social Science/Business Rep Brent Nabors

Student Support Services Rep Erica Johnson

Classified Rep Vacant

ASG Rep Vacant

**Charge**

International Community College Center (WICCC) Academic Senate on all matters related to technology infrastructure, training, and support.

1. The Distance Education shall report and make periodic recommendations to the Academic Senate and the Willow International Center CCC on all matters related to Distance Education (consistent and in compliance with state and federal regulations and with those of the Western Association of Schools and Colleges’ Accrediting Commission for Community and Junior Colleges, Title 5, and the California Education Code).
2. Distance Education/Technology Advisory Committee will coordinate and advise other campus and district committees on instructional technology and distance education matters including but not limited to the Willow International Academic Senate, Reedley College Distance Education Committee, Program Review Committee, and District Technology Committee.

**Technology Plan**

The Willow International Technology Plan was approved by College Center Council on April 15, 2011. It is currently being updated to reflect the changes in the WI Strategic Plan and to remove the Madera and Oakhurst centers from the plan. The plan continues to focus on the primary objective of a consistent equipment/software replacement plan. The equipment and software needs have been identified and incorporated into a replacement/update schedule. The major challenge continues to be securing a consistent funding source.

**Accomplishments**

1. Opened the Willow International campus in Summer 2007 with all new equipment.
2. With WI Phase I F&E funds we replaced faculty laptops and computer lab pc’s in Summer of 2009. The two+ year old pc’s were moved to the Madera Center to replace older units.
3. Opened the AC2 building in Summer of 2010 with all new equipment.
4. The five year replacement plan is a major component of the WI Technology plan. The equipment funded originally by F&E is approaching end of life.
	1. 2012 – Implemented SARS Trak for tracking student check-in/out
	2. 2012 – Upgrade WI server farm
	3. 2012 – Replaced Media Server
	4. 2013 – Added video monitors for AC1-145 and AC1-118
	5. 2013 – Replaced AC1 projectors
	6. 2013 – Implemented VDI in AC1-114
5. The software update plan is being incorporated into the Technology Plan, starting in 2013. Similar to the hardware replacement plan, it will allow student/faculty/staff consistent access to current software throughout the college. Previously with the haphazard method of allocating resources, some old software was being utilized. Consolidating allows the opportunity to reduce costs by negotiating better pricing. E.g. Microsoft, Anti-virus and Adobe.
6. In 2011 implemented Camtasia Relay for lecture capture. Instructors can record class sessions and post to Blackboard. Allows students to review a lecture which improves learning.
7. Standardized Blackboard software updates starting June 2011 continuing each year at the beginning of June. Allows instructors access to the latest/greatest new features from Blackboard.
8. In 2013 installed the SingleWire emergency notification system.
9. Currently upgrading the security and access control systems.

**Current objectives/initiatives**

1. Update the Willow International College Technology Plan – *In Process*
2. Support the WI Accreditation – *In Process*
3. Continue HW/SW replacement/upgrade plans
4. Update Blackboard to Version 9.1.14 in June 2014
5. Test migration to Microsoft Office 365 (hosted Exchange mail) - *Investigating*
6. Replace wireless access points with Aerohive equipment at Willow – *Spring 2014*

**Future initiatives**

1. Investigate alternatives to Blackboard. Current cost $400k/yr - districtwide

Investigate network access control to improve security for network resources

**Budget Projections**

**Hardware**

|  |  |  |
| --- | --- | --- |
| AP2014 |  $ 371,099.30  |  |
| AP2015 |  $ 283,345.58  |  |
| AP2016 |  $ 258,576.42  |  |
| AP2017 |  $ 269,624.66  |  |
| AP2018 |  $ 308,428.66  |  |
| 5yr Total |  $ 1,491,074.60  |  |

**Software**

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| Vendor |   |   |
| Blackboard | Licensing fee |  $ 37,502.88  |
| Blackboard | Additional storage |  $ 5,103.40  |
| Foundation | Presidium support |  $ 9,703.82  |
| Secure Content | Sophos |  $ 3,200.00  |
| Secure Content | Sophos - email |  $ 1,400.00  |
| Eaton | UPS Maintenance |  $ -  |
| Computerland | Microsoft license |  $ 6,921.62  |
| Computerland | Microsoft license |  $ 4,859.68  |
| Computerland | Adobe license |  $ 9,891.20  |
| Techsmith | Camtasia Relay/Studio |  $ 1,906.56  |
| Netsupport | Netsupport license |  $ 726.11  |
| Faronics | DeepFreeze |  $ 1,101.76  |
| Chariot | WebGrade |  $ -  |
| Chariot | Micrograde Email |  $ -  |
| Harland | Class Climate |  $ 2,135.00  |
| Hyland | Hershey |  $ 3,996.90  |
| Vision Internet | Website hosting |  $ 1,200.00  |
| SPSS | SPSS licensing |  $ 477.76  |
| SolarWinds | Webhelpdesk |   |
| Eureka | Eureka |  $ 968.82  |
| SARS | SARS |  $ 7,000.00  |
|   |   |   |
| Solid Works/Autocad |   |  $ 5,000.00  |
| Other - misc |   |  $ 5,000.00  |
|   |   |   |
|   | Total |  $ 108,095.51  |

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**DISTRICT OFFICE**

**Technology Advisory Committee**

**Membership Roster Fall 2013**

Vice Chancellor, Ed Services & Institutional Effectiveness, Chair Dr. George Railey

Director, Information Systems John Bengtson

FCC Director of Technology Don Lopez

RC/WI Director of Technology Gary Sakaguchi

District Dean of Admissions, Records and Enrollment Management Pedro Avila

FCC Financial Aid Director Kira Tippins

RC Financial Aid Director Chris Cortes

FCC Director, Institutional Research, Assessment & Planning Dr. Lijuan Zhai

RC Institutional Research Coordinator Michelle Johnson

WI Faculty Representative Brent Nabors

RC Faculty Representative Anna Martinez

FCC Faculty Representative David Balogh

WI Vice President Kelly Fowler

Vice Chancellor, Finance and Administration Ed Eng

District Institutional Research Robin Torres

**Charge**

It is the charge of this Districtwide Technology Task Force to develop and recommend a work plan for development of a comprehensive technology master plan for the district; and to recommend the composition and an operating agreement for establishing a standing Districtwide Technology Master Plan Committee.

While the initial work should take into consideration the recommendations made by the College Brain Trust and CampusWorks regarding the districtwide technology issues, the long-range goal is to establish a flexible output based technology plan. This plan should be guided by the governing board’s vision for the future.

**Technology Plan**

Fresno City College’s Academic Senate approved the Technology Operating Agreement on October 9, 2013. Feedback is still pending from other constituent groups, including Academic Senates at the colleges and centers per their meeting schedule.

CampusWorks has been contracted to conduct a 4.5-day on-campus assessment visit during the week of November 11-15, 2013 to include an Information Technology (IT) security assessment and an IT staff and organization assessment.

The IT security assessmentwill determine the progress that has been made since the security issues were identified in the 2011/2012 CampusWorks assessment. The CampusWorks team will review the security reports completed by the district’s insurance company, an external firm, and internal information. The team will also conduct a review of current policy and procedures and conduct an on-site scan that includes a review of the state of organizational implementation of effective security controls safeguarding information, business processes, applications, and infrastructure.

The IT staff and organization assessment will provide an assessment of the current IT organizational structure, staff readiness, and staffing allocation including assessment of IT positions essential to support the district's strategic objectives.

The results of these assessments will be utilized to inform the development of the districtwide technology and technology staffing plans.

**Accomplishments since Fall 2011**

1. Implemented real-time Datatel data sharing capability: first-ever capability to provide near-real-time reporting and other services from our new “SQL Reporting Services” environment. $33K.
2. Installed a new Uninterruptible Power Supply for the district’s main server room, to ensure continued reliable operation of systems during brief power outages. $60K.
3. Upgraded the district’s e-mail system (Microsoft Exchange) to latest software and hardware, ensuring continued high performance and reliability. Postured us to support Unified Messaging (voice mail and more) as we anticipated our planned Voice over IP (VoIP) expansion across the district. $100K.
4. Upgraded DO, Operations, and Police phones to VoIP. $45K.
5. Led effort to double bandwidth to Reedley College, from 40 megabits to 80. (Paid for by college.)
6. Led effort to redesign and update the district’s network infrastructure, with a completely new schema and replacement of the vast majority of the district’s active network components (e.g. switches) and much of its cabling at certain sites, esp. Reedley College. (Paid for by colleges.)
7. Led design and district-wide deployment of the Singlewire / Informacast VoIP emergency notification system, including in classrooms. (Paid for by OPS.)
8. Led design and implementation of district-wide VoIP panic button solution for staff and classroom phones. (Paid for by colleges.)
9. Supported installation of new district-wide building security system by providing server and network infrastructure. (Paid for by OPS.)
10. Installed a new state of the art firewall (Palo Alto Networks) to protect the entire district from new cyber threats and provide greatly increased visibility into, and control over, malicious and other undesirable activities. $60K.
11. Acquired 30 additional Datatel licenses to help ensure users don’t receive “out of licenses” messages during starts of term. $30K.

**Current Objectives/Initiatives**

1. Helping create a new SCCCD Strategic Technology Plan.
2. Leading Datatel “SQL Migration” project: moves Datatel system from an antiquated database management system (Unidata) to the world standard (SQL), while greatly increasing CPU and memory for improved performance. $250K.
3. Continuing to lead initiative to update the district’s network infrastructure. Gave us the ability to complete VoIP projects at sites around the District, completely eliminating Fujitsu switch hardware and phones at Fresno City College, Reedley College, Career and Technology Center, and Madera. Most physical hardware and cabling now complete, focusing now on finishing software implementation of new design (extensive network switch reconfiguration). (Paid for by colleges.)
4. Continuing migration of physical servers to virtual servers, saving electricity, cooling costs, improving performance and reliability for all affected systems. (No additional funds.)
5. By end of 2013 will install upgraded switches and other components that form the core of the district’s network, ensuring continued high performance and reliability, and posturing us to support increased Internet and wide-area network (WAN) bandwidth when needed. Provides gigabit to the desktop for all DO users. $165K.
6. By end of 2013 will acquire a videoconferencing bridge to support internal conferences with more than 4 endpoints, and will upgrade 3 oldest videoconference units in district. $140K.
7. Installing and configuring new state of the art Storage Area Network units, one for production virtualized environment (support Datatel, district-wide e-mail, etc.) and one for offsite placement to serve disaster recovery purposes. $200K.
8. Leading design and installation of new 20-megabit circuit supporting Oakhurst site, increasing their connection speed to the rest of the District (for videoconferencing, Datatel, etc.) by a factor of 13. Required precursor to VoIP installation at Oakhurst. (Paid for by college.)
9. Planning and installing VoIP at Oakhurst, completion expected before end of 2013. $5K.
10. Planning installation of VoIP and new Aerohive wireless access points for DO-North. Also includes related switch upgrades, which will also provide gigabit to the desktop for all users. Completion expected by late 2013/early 2014. $60K.
11. Leading effort to increase bandwidth to Reedley College by a factor of 125 (from 80 megabits/second to 1 gigabit/second), expected completion late 2013 / early 2014. (Paid for by college.)
12. Ellucian Action Planning process: first step complete. Now need to decide which recommendations to adopt and prioritize; identify resources; and begin detailed planning and implementation.
13. Consider extending capabilities of Singlewire Informacast system so it can initiate all forms of emergency notification (e.g. e-mail, text, tweets—as it does already for VoIP phones and IP speakers).

**Future Initiatives**

1. Districtwide portal, integrating Student Information System (Datatel), Learning Management System (Blackboard), grade entry, and more.
2. Full-featured online student finance self-service.
3. Full-featured student education plan creation and delivery.
4. Full-featured mobile device capabilities (including registration process).
5. Continue to automate more of the district’s manual processes.
6. Consider cloud alternatives for current locally-hosted capabilities.
7. Continue to support campus initiatives related to our responsibilities.