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TECHNOLOGY PLANNING

EQUIPMENT REPLACEMENT PLAN

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Technology Planning

OVERVIEW

The second component of CCCCD's Technology Planning addresses committee directives, funding strategies, equipment replacement and asset management issues. A substantial portion of technology planning is designed to insure that all technology resources are used to their full potential and replaced in an orderly and logical manner.

Administrative, instructional, and technology staff are questioned to feed information into the technology plan on a regular basis. Existing technologies, pilot programs and their methods of delivery are reviewed for relevance to District Goals and Achievement Indicators. Through these committees, recommendations are presented to the President and Leadership Team for budget determination and priority status for:

- New Program requests
- Infrastructure and System Improvements
- Planning for Future Growth and Change

Equipment Replacement Cycles

FUNDING CATEGORIES

The District's requests for replacement of old equipment, system upgrades and new technology are divided into three categories.

Instructional Equipment Includes:

- Instructional Computer Lab Equipment
- Faculty Computers
- Audiovisual Equipment

Infrastructure Equipment Includes:

- Cabling
- Switching Devices
- Network File Servers
- Web Servers
- Administrative Systems Servers
- Telecommunications Equipment

Administrative Equipment Includes:

- Staff Computers
- Registration Equipment

Each year funds are approved to replace some of the District's out dated technology, purchase enhancements for current systems, and obtain new technology for all categories. Approved funds are posted in the appropriate cost centers.

Technology Planning

ASSET MANAGEMENT

Significant software enhancements were made to the budget development system to automate the budget development process. All requests for additional budget dollars, above the base allocation, are requested through various screens in the Budget Development System (BDS). Reports, listing all types of requests are forwarded to the appropriate committee members and cost center managers.

Forecasting replacement costs is based on the equipment installed, its estimated life cycle and needs for replacement.

INSTRUCTIONAL EQUIPMENT

INSTRUCTIONAL COMPUTER LAB EQUIPMENT

Computer Labs, Classroom PC's/Mac's and Podiums have a life expectancy of 3-4 years. Rotation schedules and replacement costs are projected using the estimated life cycle-years and the current price of each component. The instructional computers are kept in a spreadsheet and updated annually during the Budget process.

The District purchases between 450 and 600 instructional use computers each year. The replaced units are recycled to faculty and staff to run other applications until the equipment no longer meets network standards. Over 3,000 computers are in service throughout the District. New and recycled units replace approximately ¼ of the college's computers each year.

Equipment Replacement Cycles

FACULTY COMPUTERS

Faculty PC's have a life expectancy of 3-5 years. Based on the needs of the faculty members, they will receive either new or recycled PC's.

AUDIOVISUAL EQUIPMENT

Media Services provides equipment support, training and assistance with multimedia used in the classroom curriculum, for conferences, and for community events. Their equipment also includes that for Quad C TV. Varying life spans are based on the type of equipment. The Central Park Campus has the oldest media equipment in use.

INFRASTRUCTURE EQUIPMENT

CABLING

The cable infrastructure is comprised of fiber and copper cable used to connect network and telecommunication devices.

Telephone cable is currently Category 3 and is in place at all campus locations. When the telephone switches are replaced with Voice over IP based telephone switches, Category 3 cable will no longer be needed.

Network Cable is currently Category 6. Many locations have Category 5 cable that is rated up to 100Mbps.

Cabling is generally replaced every 10 years, but it is based on the services that run on the cable.

Technology Planning

SWITCHING DEVICES

Switching devices include Wide Area Networking (WAN) equipment, Local Area Networking (LAN) equipment both wired and wireless. The WAN equipment is used to make voice, data and/or video connections between campuses or between a campus and other organizations. WAN equipment will be supplemented or replaced in conjunction with the bandwidth demands between campuses. The life expectancy will vary on the applications supported. Under normal growth patterns, the equipment should last the College 3-5 years.

The Local Area Network equipment connects all PC's, Mac's and peripherals to the network. This equipment is located at each campus or College location. LAN equipment at each campus is replaced as the demands for its resources exceed the capacity. The normal life expectancy for this equipment is 3-5 years. The Courtyard Center currently has the oldest equipment in place.

NETWORK FILE SERVERS

The College network is based on Novell Netware for file, print and authentication services. These servers are of varying age. Their life expectancy is 3-4 years depending on the applications they serve.

WEB SERVERS

The Colleges web servers run either Sun Solaris or Windows 2000. The servers are of varying age. Their life expectancy is 3-4 years depending on the applications they serve and the average level of activity.

Equipment Replacement Cycles

ADMINISTRATIVE SYSTEMS SERVERS

Administrative Information Systems Equipment is directly affected by the College's choice in software. The current Alpha systems are handling the College's SCT Plus systems. When the College decided to migrate to SCT Banner or another client/server based system, new administrative systems will need to be purchased. The cost of those systems will be addressed in any migration plan. The usual life of these servers is 3-4 years.

TELECOMMUNICATIONS EQUIPMENT

Administrative telephone equipment is comprised of a telephone switch at each campus location, Voice over IP equipment, telephone sets, voice mail and other associated equipment. Telephone switches have a fairly long life (7-10 years) and can be upgraded with new features, as they are available. The College is investigating Voice over IP as telephone switches need replacing.

ADMINISTRATIVE EQUIPMENT

STAFF COMPUTERS

Staff PC's generally have a life expectancy of 4-5 years. Based on the needs of the staff member, they will receive either new or recycled PC's.

REGISTRATION EQUIPMENT

The Registration process currently uses terminals that connect to the SCT System on the HP Alpha cluster. The life expectancy of a terminal is 5 to 7 years, depending on its use.

Any new administrative system will not use terminals for data input. The terminal will be replaced by desktop personal computers or laptops.

Instructional PC Replacement Schedule Allen - May 2003								
Room	Disipline	# PC's	Type	Age of Computers in Years				
				1	2	3	4	5
Q107	CE	22	PC		*			
Q108	CE	13	PC		*			
Open Lab	CE	16	PC				*	
Open Lab	CE	1	MAC			*		
Podium	CE	2	PC				*	
Ghost Server	CE	1	PC	*				
		55						

Instructional PC Replacement Schedule
Central Park - May 2003

Room	Disipline	# PC's	Type	Age of Computers in Years				
				1	2	3	4	5
A120	Dental Hygiene	9	PC	*				
A202	OFAD	23	PC			*		
A211	OFAD	12	PC				*	
A316	Science	8	PC	*				
B	LRC	11	PC				*	
B	LRC	26	PC	*				
B202	English	21	Mac			*		
B331	Testing Center	8	PC				*	
B331	Testing Center	4	PC	*				
B336	Math	9	PC	*				
B342	Testing Center	2	PC				*	
E328	Health	26	PC				*	
C113	Open Lab / ALC	41	PC	*				
C114	Control Center	4	PC	*				
C115	B&CS	25	PC			*		
C220	ET / Cisco	22	PC			*		
C221	ET / Cisco	22	PC			*		
C222	ET / Cisco	23	PC	*				
C219	ET /Microsoft	25	PC			*		
Various	Podiums	7	PC			*		
Various	Podiums	20	PC	*				
		348						

Instructional PC Replacement Schedule Courtyard - May 2003								
Room	Disipline	# PC's	Type	Age of Computers in Years				
				1	2	3	4	5
A104	CE	22	PC			*		
A200	CE	22	PC			*		
A206	CE	19	PC			*		
A208	CE	19	PC			*		
A214	CE	17	Mac	*				
A228	CE	10	PC			*		
B205	CE	19	PC			*		
B209	CE	19	PC		*			
B211a	CE	19	PC		*			
B211b	CE	19	PC		*			
Mobile	CE	20	laptop	*				
		205						

**Instructional PC Replacement Schedule
Preston Ridge - May 2003**

Room	Disipline	# PC's	Type	Age of Computers in Years				
				1	2	3	4	5
F145	Writing Center	4	PC				*	
F	LRC	50	PC	*				
F208	Testing Center	4	PC	*				
F208	Testing Center	9	PC				*	
F225	Science	2	PC	*				
F227	Science	7	PC	*				
F231	Science	7	PC	*				
F252	English	25	PC	*				
H120	B&CS	33	PC				*	
H120	ALC	29	PC	*				
H122	B&CS	29	PC				*	
H123	B&CS	31	PC				*	
H124	OFAD	25	PC				*	
H130	ET	25	PC	*				
H131	ET	22	PC	*				
H132	ET	20	PC	*				
H133	ET	24	PC			*		*
H134	ET	24	PC	*				
H137	CADD	24	PC	*				
H139	CADD	24	PC	*				
H147	Electronics	14	PC				*	
H149	Electronics	8	PC				*	
H150	Electronics	16	PC	*				
H224	Developmental	6	PC			*		
H241	Access	10	Laptop	*				
H244	ET / Convergen	20	PC	*				
U131	Divace	26	PC				*	
U136	Math	9	PC	*				
Various	Podiums	15	PC	*				
		542						

**Instructional PC Replacement Schedule
Spring Creek - May 2003**

Room	Disipline	# PC's	Type	Age of Computers in Years				
				1	2	3	4	5
A240	AGDT	9	Mac		*			
A261	AGDT	18	Mac		*			
B113	CIMA	7	Mac			*		
B129	Music	8	Mac			*		
B184	Music	7	Mac			*		
B186	Music	5	Mac			*		
B187	Music	1	Mac			*		
Practice	Music	3	Mac					
B217	Fine Arts	21	Mac	*				
B227	Developmental English	19	PC	*				
D130	Divace/Language	25	PC				*	
D155	ALC	71	PC	*				
D242	English	22	PC	*				
D248	Bibliography	30	Laptop		*			
D	LRC / Internet	40	PC	*				
G203	Testing Center	1	PC				*	
H104	Science Lab	2	PC				*	
H104	Science Lab	3	PC	*				
H105	Science Lab	7	PC	*				
H106	Science Lab	7	PC	*				
H108	Science Lab	1	PC	*				
H111	Science Lab	3	PC	*				
H118	Science Lab	1	PC	*				
H118	Science Lab	3	PC				*	
H128	Science Lab	2	PC	*				
H129	Science Lab	7	PC	*				
H130	Science Lab	8	PC	*				
wireless	Science Lab	8	Laptop	*				
J109	Podium	1	PC	*				
J110	Podium	1	PC	*				
J111	Office Systems	25	PC	*				

**Instructional PC Replacement Schedule
Spring Creek - May 2003**

Room	Disipline	# PC's	Type	Age of Computers in Years				
				1	2	3	4	5
J112	Sign in PC	1	PC				*	
J112	Office Systems	23	PC			*		
J119	Sign in PC	1	PC				*	
J119	Checkout LCD PC	1	PC	*				
J119	Open Lab B&CS	64	PC	*				
J120	Control Room	2	PC				*	
J120	Control Room	2	PC	*				
J121	Open Lab B&CS	31	PC	*				
J129	CS / OFAD	27	PC			*		
J130	Podium	1	PC	*				
J131	Podium	1	PC	*				
J132	B&CS	22	PC			*		
J133	Podium	1	PC	*				
J214	Math Lab	2	PC				*	
J227	MATH	25	PC	*				
J228	MATH	10	PC				*	
J232	Testing Center	8	PC			*		
J232	Testing Center	8	PC				*	
J232	Testing Center	4	PC	*				
K208	Engineering Tech	20	PC	*				
K122	AGDT	19	Mac		*			
K129	AGDT	18	PC	*				
K130	AGDT	20	Mac	*				
K131	AGDT	1	Mac		*			
Various	Podiums	25	PC	*				
		703						