

Utah Education Network Steering Committee

June 15, 2007

**UTAH EDUCATION NETWORK
STEERING COMMITTEE**

A G E N D A

JUNE 15, 2007

9:00 a.m.-
11:00 a.m.

Committee of the Whole / Business Meeting

Welcome and Introductions

Tab 21	
FISCAL YEAR 2008 BUDGET - DISCUSSION AND PRELIMINARY ACTION	1
FY 2008 UEN BUDGET - DRAFT	7
Tab 22	
FY 2008 DRAFT STRATEGIC PLAN - ACTION	9
UTAH EDUCATION NETWORK LONG TERM STRATEGIC PLAN - DRAFT	11
UTAH EDUCATION NETWORK FY 2008 STRATEGIC PLAN - DRAFT	15
Tab 23	
STATE OF UTAH REGISTRY FOR INTERNET NUMBERING	25
(SURIN) BYLAWS - ACTION	
BYLAWS OF THE STATE OF UTAH REGISTRY FOR INTERNET	27
NUMBERING - REVISED ARTICLE VIII	
Tab 24	
COST RECOVERY FROM PRIVATE EDUCATIONAL INSTITUTIONS	31
FOR NETWORK CONNECTIVITY - ACTION	
ADDENDUM TO UEN POLICY 2.1 NETWORK CONNECTIVITY CHARGES	33
Tab 25	
UEN SUMMER GOALS AND PROGRESS - DISCUSSION	35
AMBITIOUS UEN ACHIEVEMENT GOALS WEB SITE	37
Tab 26	
VISTA COURSE MANAGEMENT SERVICE SUMMER UPDATE - DISCUSSION	39
Tab 27	
NETWORK PERFORMANCE METRICS - DISCUSSION	41
Tab 28	
STEERING COMMITTEE MEETING MINUTES	43

Tab 29	
OTHER	51

11:00 a.m. -
12:00 p.m.

Instructional Services Subcommittee

Tab 30	
WEB CONFERENCING RFP STATUS REPORT - DISCUSSION	53
Tab 31	
NETSAFE UTAH PROJECT RESULTS - DISCUSSION	57
Tab 1	
GRANTS UPDATE - DISCUSSION	61
Tab 2	
IVC POLICY NEEDS - DISCUSSION	63
Tab 3	
PUBLIC EDUCATION AND HIGHER EDUCATION	65
ADVISORY COMMITTEE REPORTS - DISCUSSION	

11:00 a.m. -
12:00 p.m.

Technical Services Subcommittee Agenda

Tab 4	
UENSS CONVERSION REPORT - DISCUSSION	67
Tab 5	
PHASE III AND IV ETHERNET UPDATE - DISCUSSION	69
Tab 6	
FY 2008 REGIONAL PRIORITIES DEVELOPMENT - DISCUSSION	71
FY 2008 REGIONAL PRIORITIES LIST - DRAFT	73
Tab 7	
CHARTER SCHOOL SECURITY AND SUPPORT - ACTION	77

U P C O M I N G M E E T I N G S

Steering Committee Meeting - August 17, 2007, 9:00 a.m.

Instructional Services Subcommittee Meeting - August 17, 2007, 11:00 a.m.

Technical Services Subcommittee Meeting - August 17, 2007, 11:00 a.m.

Please place these materials in your Steering Committee Binder.

FISCAL YEAR 2008 BUDGET - DISCUSSION AND PRELIMINARY ACTION

Issue

The FY 2008 UEN Budget is ready for initial review by the Steering Committee. Because of the format of our strategic retreat, the budget was not reviewed at that time. Since this is the first time the budget will be reviewed, we propose that final approval occur in August to provide sufficient time for Steering Committee members to review the budget. However, since the fiscal year will begin July 1, we also request that approval be given for UEN to operate under the FY 2008 proposed budget on an interim basis until the August meeting of the Steering Committee.

Background

The UEN FY 2008 budget reflects significant growth in state appropriations and federal E-Rate reimbursements. We are confident that the financial plan outlined in the budget will allow UEN to maintain the statewide network with increased capacity and improved reliability. We propose to use those additional resources to complete remaining network expansion projects at secondary schools, complete conversion of the EDNET system to IP-based technology, increase the number of USHE institutions that receive course management support from UEN, and to convert the UEN/USU satellite system to IP videoconferencing technology.

Detailed information about the FY 2008 budget is provided in Attachment A following this memorandum. The attachment summarizes revenue sources used to fund the budget, and expenditures by specific program areas.

Policy Considerations

Major FY 2008 budget policy considerations focus on (1) revenues that are available and restrictions that limit the uses of particular revenue sources, (2) major expenditure choices, and (3) priorities shown by the recommended budget choices.

1. Income

Total revenues on which the FY 2008 budget will be based are projected to be \$35.9 million. That is an increase of \$4.7 million above FY 2007 revenues. A detailed listing of all revenue sources in the UEN budget is on page 2 of Attachment A.

State appropriations will be \$3.4 million higher than in FY 2007, and total \$23.4 million. On-going funds are increasing by \$2.3 million, and one-time appropriations are \$1.1 million more than in FY 2007. Based on legislative intent, state appropriation increases were allocated to provide increased network capacity, provide ongoing funds for telecommunications contracts funded this year with one-time revenues, convert EDNET to IP-based videoconferencing technology, provide equipment, staff, and licensing support for Blackboard Vista, and pay one-time costs associated with conversion of UENSS to IP videoconferencing technology. The remaining new state funds will pay salary and benefit increases for UEN employees.

In addition to state appropriations, UEN will receive revenues from grants and E-Rate reimbursement for telecommunications services, revenues carried forward from this year, and other miscellaneous sources. Several grant applications have been submitted recently, but awards have not been made so the budget reflects a reduction in grant income. An important income source in the budget is the Community Service Grant (CSG), which must be used to support KUEN and related services and personnel. We are projecting the CSG to be higher by \$138,000 than it is during the current year.

E-Rate funds reimburse a portion of telecommunications services provided to public schools and paid for by UEN. We have applied for somewhat higher E-Rate reimbursements for FY 2008 than in FY 2007 but have not yet received approval for the contracts that have been submitted for FY 2008. The budget reflects E-Rate reimbursements we will have actually collected during the current year or early in FY 2008, not revenues anticipated for all of FY 2008. E-Rate income is reported as Universal Service Fund Discounts, and amounts to \$7.5 million, an increase of \$0.5 million more than was budgeted for FY 2007.

2. Major Expenditure Choices

Specific departmental budget recommendations are summarized on Page 1 of Attachment A, and detailed budget proposals are outlined on Pages 3-27. Major decisions reflected in departmental budgets are as follows:

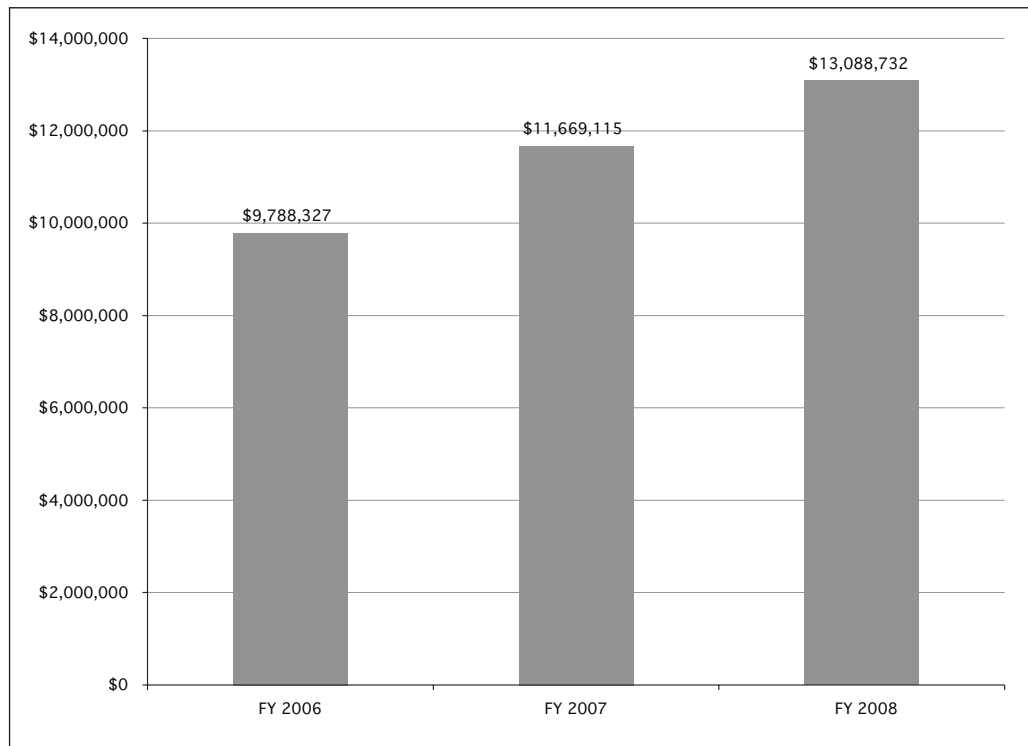
1. UEN staff members will receive a 3.5% salary increase this year. Additionally, based on merit, market, and equity considerations, some employees also received on average an increase of 1.5% salary adjustments. The cost of monthly premiums for health insurance and state retirement premiums will be supported by increased state appropriations, but employee costs for benefits will also be increased by a modest amount of a few dollars per month.
2. Nearly all departmental operating budgets will remain flat or be adjusted only slightly next year.
3. The circuit budget pays for all network contracts with telecommunications providers, and will be \$13.1 million in FY 2008. That budget will now comprise about 37% of our total budget and has been increased by \$1 million from FY 2007 to FY 2008. (See Graph 1, below.)

The growth of the circuit budget is the result of the dramatic increase in the capacity of the network backbone and connections to universities, colleges, district offices, and secondary schools. Our typical circuit connections to universities, colleges, and secondary schools have been upgraded from T1 (1.4 mb/s) to Ethernet 1000

mb/s circuits, a 700% increase in capacity. The typical cost of a T1 circuit is less than \$100 per month, whereas 1000 mb/s Ethernet circuits have an average cost of nearly \$1,500 per month. The cost of circuits has increased 15 times, but the carrying capacity of the circuits has increased 700 percent so the megabit cost is much lower.

4. Because of excellent contracts we have negotiated during the past several years, Internet access charges will remain flat, even though Internet capacity has more than quadrupled since FY 2005.
5. UEN provides connectivity to both the National Lambda Rail (NLR) and Internet2, which directly benefits the researchers at the University of Utah and Utah State University and other colleges, universities, and K-12 schools through UEN-paid membership in the Internet2 SEGP program. In FY 2008, ongoing operational fees to participate in NLR and Internet 2 will cost \$140,000

Graph 1: Growth in Circuit and Internet Budget – FY 2006 - FY2008



6. The technical service special project account is budgeted at \$1.2 million, the amount allocated by the legislature to continue our network capacity projects during FY 2008. These funds will pay for phase 4 network infrastructure projects based on recommendations of UEN staff and stakeholders to the Technical Services Subcommittee and Steering Committee.
7. The IP Video budget contains \$865,000 one-time and \$200,000 ongoing funds to purchase classroom equipment and pay for ongoing maintenance contracts.
8. The Course Management System (CMS) budget is \$1.47 million. It budgets ongoing and one-time funds to pay for licensing, staff, and equipment expenditures to

provide hosting support for USU, UVSC, Dixie State of Utah, Snow College, College of Eastern Utah and UCAT.

9. The following changes to the UEN-USU distance learning system are reflected in the budget. First, one-time funds totaling \$2.1 million are allocated to pay for replacement of classroom equipment in approximately 150 classrooms and network improvements required in some locations. Second, the ongoing budget which previously paid for satellite expenses was reallocated by the legislature. A total of \$1.294 million is in several UEN departmental budgets, primarily field operations and the video operations center. \$170,000 was transferred to the USU education and general budget to support IVC scheduling, tier 2 support, and field operations personnel. The legislature also transferred \$75,000 from the UEN regional hub support budget directly to USU and USU Uintah Basin.
10. Budget support to UEN-funded activities managed by regional service centers and regional hubs will remain the same as in FY 2007, except for the transfers to USU described above. Regional trainers and regional technical staff will receive the same salary and benefit increases as UEN staff members.

3. Budget Priorities

A helpful way to show funding priorities in the FY 2008 budget is to examine the extent to which programmatic areas have received increased funding or budget reductions, from FY 2007 to FY 2008. Table 1 demonstrates that a sizeable increase in funding is recommended in the technical services and instructional service areas. The increase in technical services spending is accountable primarily to the growth in the circuit budget.

Table 1 - Changes in Funding from FY 2007 to FY 2008, by Programmatic Area

Programmatic Area	Increase or Decrease in Funding
Technical Services	\$3,115,654
Instructional Services	\$199,095
Administration	\$33,923
KUEN	(\$13,524)
O & M, Reserves	(\$221,138)
Pass through to Hubs & Regional Service Centers	\$18,985
Conversion of UEN-USU Satellite Project to IVC	\$1,826,801
Pass through to USOE	\$2,800
Public Information	\$7,877
Other Grant	(\$225,175)
Total Funding Change, FY 2006 to FY 2007	\$4,745,298

Table 2 - Percentage of State Appropriations Received by Program Areas, FY 2008

Program Area	State Appropriation	Percent of Total
Technical Services	\$15,908,998	67.9%
Instructional Services	\$1,798,946	7.68%
UEN-USU IVC	\$3,393,900	14.49%
Administration	\$1,414,818	6.04%
Regional Service Centers	\$561,404	2.40%
Pass through to USOE	\$116,343	0.50%
O & M, Reserves	\$232,291	0.99%
KUEN	\$0	0%
Public Information	\$0	0%
Total State Appropriations	\$23,426,700	100.0%

Support to regional service centers and USOE will increase by a modest amount as a reflection of salary increases provided to staff supported by UEN. Public information is recommended to receive a modest budget increase.

A second way to demonstrate the priority of particular programs is by indicating the percentage of available state appropriations that each will receive. Table 2 ranks program areas according to the percentage of total state appropriations they receive. There is limited discretion on usage of most other revenue sources, so grants, E-Rate reimbursements, and other revenue sources are not reflected in the table.

Recommendation

It is recommended that the Steering Committee review and discuss the FY 2008 UEN Budget. It is recommended that approval be given for UEN to operate under the FY 2008 proposed budget on an interim basis until the August meeting of the Steering Committee.

TAB 21 ATTACHMENT A
FY 2008 UEN BUDGET - DRAFT

**UTAH EDUCATION NETWORK
FY 2008 BUDGET PLANNING
EXPENDITURES**

DEPARTMENT	BUDGET FY 2007	PROPOSED BUDGET FY08	CHANGE
Administration	1,987,843	2,021,766	33,923
Public Information / Communications	374,962	382,839	7,877
Technical Services			
Operations	12,274,623	13,638,288	1,363,665
Network Operations Center	1,574,813	1,692,239	117,426
Network Engineer	351,908	412,740	60,832
Field Operations	1,269,080	1,429,161	160,081
Applications Engineer	506,132	565,766	59,634
UEN Special Projects	2,189,198	1,159,828	(1,029,370)
Technical Services Planning	262,331	278,734	16,403
Security	291,436	312,864	21,428
Enterprise Applications Support	783,452	890,169	106,717
CMS (Course Management System)	108,348	1,468,561	1,360,213
NLR/Internet 2	168,000	216,560	48,560
Software Development	693,280	723,000	29,720
Video Operations Center	305,271	463,836	158,565
IP Video Classroom Upgrades	444,332	1,065,000	620,668
Distance Education Services	162,115	165,975	3,860
Scheduling	77,039	103,339	26,300
Instructional Services			
IS Grants	55,150	19,529	(35,621)
IS KUEN - Programming	393,394	489,437	96,043
IS Operations	917,002	1,048,737	131,735
IS Web Resources	675,131	695,512	20,381
IS Professional Development	970,094	969,388	(706)
Other			
KUEN Broadcast Engineering	573,834	601,076	27,242
KUEN DTV Conversion	550,766	510,000	(40,766)
UEN-USU IVC (On-Going)	1,567,099	1,293,900	(273,199)
UEN-USU Satellite Conversion to IVC (One-time)	-	2,100,000	2,100,000
Operations and Maintenance	1,184,587	963,449	(221,138)
Youth In Custody	304,500	69,861	(234,639)
Internet Safety	58,762	13,406	(45,356)
Water Wise Utah	49,935	104,755	54,820
TOTAL EXPENSES	31,124,417	35,869,715	4,745,298
INCOME	31,124,418	35,869,715	4,745,298
BALANCE (INCOME LESS EXPENSES)	-	-	-

**UTAH EDUCATION NETWORK
FY 2008 BUDGET PLANNING
INCOME**

	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE
STATE APPROPRIATIONS			
UEN Legislative Funding (On-Going)	16,054,700	17,857,800	1,803,100
UEN Legislative Funding (One-Time)	2,500,000	-	(2,500,000)
UEN-USU IVC	1,463,900	1,293,900	(170,000)
CMS (One-Time)	-	630,000	630,000
CMS (On-Going)	-	480,000	480,000
IP Video project (On-Going)	-	200,000	200,000
IP Video project (One-Time)	-	865,000	865,000
UEN-USU Satellite Conversion to IVC (One-Time)	-	2,100,000	2,100,000
OTHER			
CIB	-	100,000	100,000
KUEN SPEC. PROJECTS	-	40,000	40,000
INTEREST INCOME			
KUEN/EDNET/UtahLINK	30,000	30,000	-
CARRY FORWARD			
KULC Funds Allocated for DTV	450,766	400,000	(50,766)
UEN Satellite Budget	103,199	-	(103,199)
Operating Carry Forward	-	600,000	600,000
IS Grant: Intel Grant - Classic	21,167	19,529	(1,638)
IS Grant: Intel - Workshop	13,983	-	(13,983)
IS Grant: Intel - TeacherLine Grant - Regional	1,116	-	(1,116)
IP Video Project	(555,668)	-	555,668
IS Pro Dev: Teacher Training Instit & Integrating Tech	22,624	-	(22,624)
NCO Grant	253	-	(253)
NOC - Filtering	(106,795)	-	106,795
Ops & Maint: CIB San Juan Project Phase I & II	236,138	-	(236,138)
Contingency	678,868	601,158	(77,710)
CORPORATION FOR PUBLIC BROADCASTING			
Community Service Grant	2,491,063	2,629,740	138,677
KUED DIRECT SUPPORT			
Training & Content	22,530	22,530	-
Public Information	33,000	33,000	-
GRANT INCOME			
USOE and UIMC	22,530	22,530	-
Bridgestone/Firestone Trust	8,000	8,000	-
Intel Foundation TTI Workshops	15,000	-	(15,000)
Intel Corporation - Workshop	20,000	-	(20,000)
Distance Service Grant FY05	33,000	-	(33,000)
USDA RUS Grant Distance Learning & Telemedicine	935	-	(935)
Community Impact Grant San Juan Phase II	20,806	-	(20,806)
Youth In Custody (YIC) USOE + CPB	304,500	69,861	(234,639)
Internet Safety Project SECP	58,762	13,406	(45,356)
Water Wise Utah	49,935	104,755	54,820
OTHER INCOME			
CMS REIMBURSEMENT	-	115,000	115,000
Universal Service Fund Discounts	7,000,000	7,500,000	500,000
Dutch John Rental	4,000	4,000	-
Service Income from EDNET	10,000	10,000	-
Library Internet Access	21,000	21,000	-
Misc. Other	16,601	20,000	3,399
COMPUTER OPERATIONS			
KUED	37,087	37,087	-
KUER	10,093	10,093	-
OIT	2,500	2,500	-
Media Solutions	28,826	28,826	-
TOTAL	31,124,419	35,869,715	4,745,296

UTAH EDUCATION NETWORK
FY 2008 BUDGET PLANNING
ADMINISTRATION

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses			
				State Approp.	other	CSG	Total On-Going
Personnel (ONE OPEN POSITION)	1,088,868	1,135,516	46,648	637,568		497,948	1,135,516
Auditor	20,000	32,000	12,000	32,000		-	32,000
Supplies	41,000	40,500	(500)	40,500		-	40,500
Phones	77,240	93,000	15,760	93,000		-	93,000
Professional Development	27,900	25,200	(2,700)	25,200		-	25,200
Equipment	7,800	7,500	(300)	7,500		-	7,500
Fire Suppression System	79,122	-	(79,122)	-		-	-
Vehicle Purchase	22,000	20,000	(2,000)	20,000		-	20,000
Employee Recruitment	1,000	1,000	-	1,000		-	1,000
In-State Travel	2,500	3,000	500	3,000		-	3,000
Legal Fees/Consulting	7,500	10,000	2,500	10,000		-	10,000
Tech Administration	203,869	229,050	25,181	229,050		-	229,050
Tech Admin. Travel & Prof. Devel.	9,000	9,000	-	9,000		-	9,000
Instructional Support Administration	176,044	190,000	13,956	190,000		-	190,000
I.S. Travel & Prof. Devel.	6,000	8,000	2,000	8,000		-	8,000
Office of Info. Tech.	218,000	218,000	-	14,000	204,000	-	218,000
TOTAL	1,987,843	2,021,766	33,923	1,319,818	204,000	497,948	2,021,766

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 PUBLIC INFORMATION/COMMUNICATIONS

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses			Total On-Going
				KUED	USOE	CSG	
Personnel	208,962	216,839	7,877	-	-	216,839	216,839
ITV Program Guide	42,500	42,500	-	33,000	-	9,500	42,500
Advertising	24,000	24,000	-	-	22,530	1,470	24,000
Other Print Advertising / Materials	32,500	32,500	-	-	-	32,500	32,500
Professional Development	10,000	10,000	-	-	-	10,000	10,000
In-State Travel	1,000	1,000	-	-	-	1,000	1,000
Equipment	4,000	4,000	-	-	-	4,000	4,000
Supplies	10,000	10,000	-	-	-	10,000	10,000
Non - Broadcast Promotions	28,000	28,000	-	-	-	28,000	28,000
Special Events	14,000	14,000	-	-	-	14,000	14,000
TOTAL	374,962	382,839	7,877	33,000	22,530	327,309	382,839

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 OPERATIONS - Jim Stewart

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses		
				E-rate Plus Internet Reimb.	State Approp.	Total On-Going
EDNET Site Support						
Southern Utah University	45,000	45,000	-	-	45,000	45,000
Davis Applied Technology Center	35,000	35,000	-	-	35,000	35,000
Utah State University	45,000	-	(45,000)	-	-	-
Utah State University - Vernal Basin	30,000	-	(30,000)	-	-	-
College of Eastern Utah - Price	30,000	30,000	-	-	30,000	30,000
College of Eastern Utah - San Juan	30,000	30,000	-	-	30,000	30,000
Utah Valley State College	45,000	45,000	-	-	45,000	45,000
Salt Lake Community College	45,000	45,000	-	-	45,000	45,000
PIUTE & WAYNE	-	10,000	10,000		10,000	10,000
Regional Help Desk Support						
NUES, CUES, SESC, SEDC	258,508	267,556	9,048	-	267,556	267,556
Supplies	5,000	5,000	-	-	5,000	5,000
Internet Access	1,038,327	1,010,874	(27,453)	21,000	989,874	1,010,874
Circuit Charges	10,630,788	12,077,858	1,447,070	7,500,000	4,577,858	12,077,858
Statewide Dial-in Network Services	15,000	15,000	-	-	15,000	15,000
Remote Access (Pagers/Cell Phones)	22,000	22,000	-	-	22,000	22,000
TOTAL	12,274,623	13,638,288	1,363,665	7,521,000	6,117,288	13,638,288

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 NETWORK OPERATIONS CENTER

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses
				State Approp.
Personnel	823,933	859,939	36,006	859,939
Staff Equipment	20,000	19,500	(500)	19,500
Professional Development & Out-of-State Travel	54,000	58,000	4,000	58,000
Equipment	432,448	175,000	(257,448)	175,000
Maintenance & Renewals	-	310,800	310,800	310,800
Network Tools & Monitoring (fka Licensing & Soft.)	100,000	120,000	20,000	120,000
Network Filtering (fka Proxy Filtering & Equip)	112,000	115,900	3,900	115,900
Supplies	5,000	5,000	-	5,000
Travel (In-State)	6,000	5,000	(1,000)	5,000
Remote Access / Cell & Pager	21,432	23,100	1,668	23,100
TOTAL	1,574,813	1,692,239	117,426	1,692,239

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 NETWORK ENGINEERING

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses
				State Approp.
Personnel	310,808	364,140	53,332	364,140
In-State Travel	1,500	4,000	2,500	4,000
Equipment	5,000	5,000	-	5,000
Supplies (Misc. Staff Equip, Lab Support)	6,000	6,000	-	6,000
Professional Development	12,000	17,000	5,000	17,000
Network Lab	10,000	10,000	-	10,000
Remote Access / Cell & Pager	6,600	6,600	-	6,600
TOTAL	351,908	412,740	60,832	412,740

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 FIELD OPERATIONS

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses
				State Approp.
Personnel (INCLUDES 2 NEW FTES)	759,480	855,161	95,681	855,161
SAN JUAN FTE (J. JONES)	-	35,000	35,000	35,000
Equipment--Hub & End Site Development	270,000	270,000	-	270,000
Professional Development	27,500	27,500	-	27,500
Software	5,000	5,000	-	5,000
In-State Travel (Network Maintenance)	37,500	37,500	-	37,500
Vehicle Maintainance	46,000	46,000	-	46,000
Leased Vehicles	23,600	20,000	(3,600)	20,000
One Replacement Truck & 1/3 of San Juan Truck	-	33,000	33,000	33,000
Contracted Services (Helicopter)	5,000	5,000	-	5,000
Supplies	35,000	35,000	-	35,000
Staff Support Equipment	50,000	50,000	-	50,000
Equipment Room & Shop	10,000	10,000	-	10,000
TOTAL	1,269,080	1,429,161	160,081	1,429,161

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 APPLICATION ENGINEERING

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses
				State Approp.
Personnel	483,257	534,766	51,509	534,766
Software & Supplies	625	800	175	800
In-State Travel	1,250	1,700	450	1,700
Equipment	5,000	8,500	3,500	8,500
Supplies (Misc. Staff Equip, Lab Support)	4,000	4,000	-	4,000
Professional Development	12,000	16,000	4,000	16,000
TOTAL	506,132	565,766	59,634	565,766

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 UEN SPECIAL PROJECTS

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	One-Time			Total Expenses (Less E-rate)
				State Approp.	Carry Forward	E-rate	
Special Projects	2,189,198	1,159,828	(1,029,370)	559,828	600,000		1,159,828
Total	2,189,198	1,159,828	(1,029,370)	559,828	600,000	-	1,159,828

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 Technical Services Planning

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses
				State Approp.
Personnel	230,834	242,234	11,400	242,234
Staff Equipment	-	7,000	7,000	7,000
Software & Supplies	1,250	1,250	-	1,250
In-State Travel	2,500	1,500	(1,000)	1,500
Supplies (Misc. Staff Equip, Lab Support)	2,000	1,000	(1,000)	1,000
Remote Phone/Pager Access	3,747	3,750	3	3,750
Professional Development	7,000	7,000	-	7,000
Consulting Etc. (Real Server Licensing)	15,000	15,000	-	15,000
TOTAL	262,331	278,734	16,403	278,734

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 SECURITY

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses
				State Approp.
Personnel	217,806	240,564	22,758	240,564
Equipment (fka Sec. Proj & Empl Equip & Software)	43,200	42,000	(1,200)	42,000
Staff Equipment	-	5,500	5,500	5,500
Professional Development	9,000	5,000	(4,000)	5,000
In State Travel	1,000	1,000	-	1,000
Maintenance & Renewals (fka Soft. Licensing)	5,000	5,200	200	5,200
UtahSaint Project	9,500	9,500	-	9,500
Phone / Pager Access	4,930	3,100	(1,830)	3,100
Supplies	1,000	1,000	-	1,000
TOTAL	291,436	312,864	21,428	312,864

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 Enterprise Applications Support

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses		Total Expenses
				State Approp.	Reimbursements	
Personnel	374,179	422,681	48,502	344,175	78,506	422,681
Hardware and Hardware Maintenance	215,641	188,853	(26,788)	188,853	-	188,853
Software and Software Maintenance	131,032	213,920	82,888	213,920	-	213,920
Supplies	15,200	17,200	2,000	17,200	-	17,200
Professional Development	32,600	32,600	-	32,600	-	32,600
Telecomm Costs / Dial-in Equipment	14,800	14,915	115	14,915	-	14,915
TOTAL	783,452	890,169	106,717	811,663	78,506	890,169

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 Course Management System

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses		Reimbursements	Total Expenses
				State Approp.	One Time State Approp.		
Personnel (NEW WEBCT PERSONNEL)	-	272,000	272,000	272,000	-	-	272,000
Hardware Maintenance	8,348	297,648	289,300	67,648	230,000	-	297,648
Software and Software Maintenance	90,000	888,913	798,913	373,913	400,000	115,000	888,913
Professional Development	10,000	10,000	-	10,000	-	-	10,000
TOTAL	108,348	1,468,561	1,360,213	723,561	630,000	115,000	1,468,561

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 NLR \ Internet 2

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses
				State Approp.
NLR Fee (FRGP Fees & Equipment)	66,200	87,760	21,560	87,760
Internet 2 (Reimburse CHPC)	73,000	100,000	27,000	100,000
NLR Local Loop	28,800	28,800	-	28,800
TOTAL	168,000	216,560	48,560	216,560

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 SOFTWARE DEVELOPMENT

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses
				State Approp.
Personnel	634,070	664,920	30,850	664,920
Software and Software Maintenance	5,890	3,200	(2,690)	3,200
Equipment	6,600	7,500	900	7,500
Supplies	3,040	3,500	460	3,500
Professional Development	40,000	41,600	1,600	41,600
Remote Phone / Pager Access	3,680	2,280	(1,400)	2,280
TOTAL	693,280	723,000	29,720	723,000

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 VIDEO OPERATIONS CENTER

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses	
				State Approp.	
Personnel	284,271	417,836	133,565	417,836	
Support from Satellite	(15,000)	-	15,000	-	
Parts & Supplies	4,500	4,500	-	4,500	
Equipment	15,000	25,000	10,000	25,000	
In-State Travel	1,000	1,000	-	1,000	
Operations Retreat	1,500	1,500	-	1,500	
Telephones	4,000	4,000	-	4,000	
Professional Development	10,000	10,000	-	10,000	
TOTAL	305,271	463,836	158,565	463,836	

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 IP VIDEO

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses		One-Time Expenses
				State Approp.	State Approp.	Total Expenses
Support for Scheduling	20,000	-	(20,000)	-	-	-
FY2007 / FY2008 PROJECTS	945,000	1,065,000	120,000	200,000	865,000	1,065,000
Accord Bridge (WireOne Lease Exp. 9/2006)	-	-	-	-	-	-
IP Video NOC Tools	35,000	-	(35,000)	-	-	-
RUS Grant (Oct 04) End Date 12/19/2007						
FY06 Funds Used to Pay FY07 Projects	(555,668)	-	555,668	-	-	-
TOTAL	444,332	1,065,000	620,668	200,000	865,000	1,065,000

**UTAH EDUCATION NETWORK
FY 2008 BUDGET PLANNING
DISTANCE EDUCATION SERVICES**

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses
				State Approp.
Personnel	138,475	142,335	3,860	142,335
Supplies	1,000	1,000	-	1,000
Equipment	2,600	2,600	-	2,600
Phones	2,240	2,240	-	2,240
Professional Development	5,300	5,300	-	5,300
In-State Travel	12,500	12,500	-	12,500
TOTAL	162,115	165,975	3,860	165,975

**UTAH EDUCATION NETWORK
FY 2008 BUDGET PLANNING
SCHEDULING**

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses
				State Approp.
Personnel	87,039	93,339	6,300	93,339
Support from IP Video	(20,000)	-	20,000	-
Equipment & Office Supplies	3,500	3,500	-	3,500
Professional Development	5,000	5,000	-	5,000
In-State Travel	1,500	1,500	-	1,500
TOTAL	77,039	103,339	26,300	103,339

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 IS GRANTS

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	One-Time Expenses		Total One-Time Expenses
				Carryforward	Intel Grants	
Intel Grant - CLASSIC	21,167	19,529	(1,638)	19,529	-	19,529
Intel - Workshops	33,983	-	(33,983)	-	-	-
TOTAL	55,150	19,529	(35,621)	19,529	-	19,529

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 IS KUEN PROGRAMMING

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses		
				State Approp.	CSG	Total On-Going Expenses
KUEN Program Purchases	143,207	264,703	121,496	-	264,703	264,703
KUEN On Air	18,500	18,500	-	-	18,500	18,500
UEN-TV Workshops	-	2,000	2,000	-	2,000	2,000
NCO Grant	253	-	(253)	-	-	-
NETA Membership	11,000	11,000	-	11,000	-	11,000
Videotape	13,000	13,000	-	-	13,000	13,000
Interconnect Dues	132,392	132,392	-	-	132,392	132,392
Dues/Fees, Wiche, PBMA	45,042	45,042	-	45,042	-	45,042
Scheduling Software	30,000	2,800	(27,200)	-	2,800	2,800
TOTAL	393,394	489,437	96,043	56,042	433,395	489,437

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 IS - OPERATIONS

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses	
				State Approp.	Total On-Going Expenses
Personnel	707,559	856,824	149,265	856,824	856,824
Added 1 FTE for USOE, 1 FTE New Operations					
Supplies	8,000	8,000	-	8,000	8,000
In-State Travel	3,000	3,000	-	3,000	3,000
Gas (fka Leased Vehicles)	5,400	1,770	(3,630)	1,770	1,770
Professional Development	24,000	24,000	-	24,000	24,000
USOE Specialist	40,200	19,500	(20,700)	19,500	19,500
USOE Training Support	113,543	116,343	2,800	116,343	116,343
Equipment	8,300	8,300	-	8,300	8,300
Phones/Pagers	3,000	9,000	6,000	9,000	9,000
Program Evaluations	4,000	2,000	(2,000)	2,000	2,000
TOTAL	917,002	1,048,737	131,735	1,048,737	1,048,737

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 IS WEB RESOURCES

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses			Intel Grant
				State Approp.	CSG	Total On-Going Expenses	
Lesson Plans	15,000	15,000	-	15,000	-	15,000	-
Web Design & Maintenance	73,000	73,000	-	73,000	-	73,000	-
WEBCT Vista Support	5,000	6,000	1,000	6,000	-	6,000	-
Content Forum	4,000	4,000	-	4,000	-	4,000	-
Multimedia	2,500	2,500	-	2,500	-	2,500	-
Digital Media Services	62,800	62,000	(800)	62,000	-	62,000	-
Pioneer Committee Workshops	-	3,000	3,000	3,000	-	3,000	-
Software (Pioneer Committee)	512,831	530,012	17,181	-	530,012	530,012	-
TOTAL	675,131	695,512	20,381	165,500	530,012	695,512	-

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 I S PROFESSIONAL DEVELOPMENT

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses		
				State Approp.	KUED	Firestone
Personnel	522,743	543,940	21,197	521,410	22,530	-
Professional Development	14,000	16,000	2,000	16,000		-
In-State Travel	6,000	6,000	-	6,000		-
Leased Vehicles	11,500	11,500	-	11,500		-
Phones	5,700	16,200	10,500	16,200		-
Regional Training Specialists	283,911	293,848	9,937	293,848		-
Equipment	29,500	17,700	(11,800)	17,700		-
Software	4,500	4,500	-	4,500		-
Workshop Supplies-Duplications/Mailings	11,000	15,200	4,200	15,200		-
Contract Trainers	4,500	4,500	-	4,500		-
Teacher Training Instit. & Integrating Tech	76,740	40,000	(36,740)	32,000		8,000
TOTAL	970,094	969,388	(706)	938,858	22,530	8,000

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 KUEN BROADCAST ENGINEERING

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expense	One-Time Expenses	Total Expenses
				CSG	Carryforward	
Personnel	291,424	293,009	1,585	293,009	-	293,009
KUEN Transmitter	33,120	19,967	(13,153)	19,967	-	19,967
Supplies/Repairs/Maintenance	30,000	30,000	-	30,000	-	30,000
Statewide Distribution (KUEN Projects)	46,000	46,000	-	46,000	-	46,000
Statewide Distrib Base Budget (30%)	111,360	100,779	(10,581)	100,779	-	100,779
Professional Development	9,830	17,250	7,420	17,250	-	17,250
Equipment	47,100	68,200	21,100	68,200	-	68,200
Special Projects for KUEN	5,000	25,871	20,871	25,871	-	25,871
TOTAL	573,834	601,076	27,242	601,076	-	601,076

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 KUEN DTV CONVERSION

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expense	One-Time Expenses	Total Expenses
				CSG	Carryforward	
DTV Utah Operating Costs	100,000	110,000	10,000	110,000	-	110,000
DTV Conversion Project	450,766	400,000	(50,766)	-	400,000	400,000
TOTAL	550,766	510,000	(40,766)	110,000	400,000	510,000

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 UEN-USU IVC

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	One-Time Expenses
				IVC State Approp.
Annual Cost for Space Segment	720,000	180,000	(540,000)	180,000
800 Line Charges	50,000	9,000	(41,000)	9,000
Parts & Supplies	50,000	30,000	(20,000)	30,000
Personnel USU/UEN	345,122	680,000	334,878	680,000
New FTE Entry Level Field Engineer	-	45,000	45,000	45,000
Vehicle Lease	4,200	4,200	-	4,200
New Circuit Costs (4)	-	150,000	150,000	150,000
Additional Installation Support	-	75,000	75,000	75,000
Administration Cost USU/UEN	109,050	-	(109,050)	-
Network Hardware Contingency	-	70,700	70,700	70,700
IP Telephone Hardware & Maintenance	-	25,000	25,000	25,000
Faculty and Facilitator Training	10,000	25,000	15,000	25,000
Lease on Accord Conference Bridge (Exp 9/2006)	15,660	-	(15,660)	-
Service Contract on Magn. Uplink Componenets	27,000	-	(27,000)	-
Support for Ednet Videos	15,000	-	(15,000)	-
Carryforward FY2004	117,868	-	(117,868)	-
Carryforward FY2006	103,199	-	(103,199)	-
Equipment	-	22,000	22,000	22,000
Parts & Supplies	-	2,000	2,000	2,000
In-State Travel	-	1,500	1,500	1,500
Operations Retreat	-	1,500	1,500	1,500
Telephones	-	4,000	4,000	4,000
Professional Development	-	25,000	25,000	25,000
Budget Reduction	-	(56,000)	(56,000)	(56,000)
TOTAL	1,567,099	1,293,900	(273,199)	1,293,900

UTAH EDUCATION NETWORK
FY 2008 BUDGET PLANNING
UEN-USU SATELLITE CONVERSION TO IVC
 ONE-TIME REPLACEMENT BUDGET

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	One-Time Expenses IVC State Approp.
Simple Classrooms (120)	-	1,307,405	1,307,405	1,307,405
Desktop Classroom Systems Tandberg (35)	-	252,595	252,595	252,595
Desktop Classroom Systems Sony (15)	-	37,500	37,500	37,500
Complex Sites (6)	-	160,500	160,500	160,500
MCU's Radvision (2)	-	150,000	150,000	150,000
IPVCR Codian	-	42,000	42,000	42,000
Network Improvements	-	50,000	50,000	50,000
TOC Rebuild at USU	-	25,000	25,000	25,000
Infrastructure Hardening (One-time)	-	50,000	50,000	50,000
Installation Costs	-	25,000	25,000	25,000
TOTAL	-	2,100,000	2,100,000	2,100,000

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 OPERATIONS & MAINTENANCE

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	On-Going Expenses		One-Time
				State Approp.	CSG	Carryforward
Building Maintenance	80,000	85,000	5,000	85,000	-	-
EBC Computer Support	147,291	147,291	-	147,291	-	-
U of U Building O & M Expense	120,000	130,000	10,000	-	130,000	-
FY06 Carryforward CIB San Juan Project Phase II <small>(CIB San Juan II Expires 9/30/07)</small>	236,138	-	(236,138)	-	-	-
UEN Operating Funds	601,158	601,158	-	-	-	601,158
TOTAL	1,184,587	963,449	(221,138)	232,291	130,000	601,158

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 YOUTH IN CUSTODY

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	One-Time
Consultants/Media Solutions	71,321	-	(71,321)	-
Equipment	194,929	69,861	(125,068)	69,861
Supplies	17,000	-	(17,000)	-
Travel	21,250	-	(21,250)	-
TOTAL	304,500	69,861	(234,639)	69,861

UTAH EDUCATION NETWORK
FY 2008 BUDGET PLANNING
INTERNET SAFETY PROJECT

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	One-Time
Travel	742	7,406	6,664	7,406
Supplies	24,800	6,000	(18,800)	6,000
Program Evaluation	2,650	-	(2,650)	-
Personnel (Consultants)	30,570	-	(30,570)	-
TOTAL	58,762	13,406	(45,356)	13,406

UTAH EDUCATION NETWORK
 FY 2008 BUDGET PLANNING
 Water Wise Utah (PNL Grant)

Budget Line Item	APPROVED BUDGET FY07	PROPOSED BUDGET FY08	CHANGE	One-Time Expenses	
				Carryforward	Total One-Time Expenses
Personnel	21,440	46,560	25,120	46,560	46,560
Travel	4,000	4,000	-	4,000	4,000
Supplies	9,200	2,000	(7,200)	2,000	2,000
Software Licensing	150	16,476	16,326	16,476	16,476
Program Evaluation	4,375	13,125	8,750	13,125	13,125
Facilities \$ Admin Costs	10,770	22,594	11,824	22,594	22,594
TOTAL	49,935	104,755	54,820	104,755	104,755

FY 2008 DRAFT STRATEGIC PLAN - ACTION

Issue

UEN Steering Committee members, along with subcommittees and staff, met on May 8 and 9, 2007 to develop long term strategic objectives the organization should be working toward during the next several years. We have also updated tactical objectives and activities contained in the FY 2007 Strategic Plan by removing those that have been completed and keeping those which will be addressed during the coming year. Draft outlines of the long term strategic and annual tactical sections of the FY 2008 Strategic Plan are included under this tab.

Background

Long term objectives serve as a complement to the annual tactical plan and help guide policy, funding, and legislative priorities for the coming years. The seven main goal areas of UEN are consistent from year to year, and are based on statute and mission. In the draft under this tab, each goal lists recent accomplishments and long term objectives.

Recommendation

Committee members are invited to discuss the draft long term strategic and annual tactical sections of the FY 2008 Strategic Plan. We encourage Steering Committee members to provide additional feedback and discussion in the coming months. Based on this feedback, a final version of both the long term and tactical sections of the strategic plan will be prepared for the August Steering Committee meeting.

TAB 22 ATTACHMENT A

UTAH EDUCATION NETWORK LONG TERM STRATEGIC PLAN - DRAFT

June 2007

Mission

We network to create educational opportunities, connect citizens, and collaborate with partners.

Vision

Be Utah's most recognized, trusted, and accessible partner for innovation in educational technology.

Values

Caring – Supporting our co-workers, customers, and community

Leadership – Advancing relationships and encouraging ideas

Integrity – Keeping our promises

Communication – Listening to meet needs

Service – Benefiting our partners

Environmental Scan/Needs Section

(To be completed)

Strategic Objectives

A summary of recent accomplishments and long term strategic objectives is included below:

1) Wide Area Network

a) Recent Accomplishments

- ◇ Installed Gigabit Ethernet backbone and full Gigabit connections to all colleges and secondary schools (by end of FY2008)
- ◇ Quadrupled Internet capacity over past three years at same cost
- ◇ Connected to I2, NLR, and commercial ISP's from Eccles Broadcast Center
- ◇ Development of full Gigabit North, Core, and South rings
- ◇ Deployed utilization monitoring tools for live updates on network health

b) Long Term Objectives

- ◇ Expand connectivity to elementary, charter, and satellite campus locations
- ◇ Increase backbone capacity to 10 Gigabits/second
- ◇ Implement disaster recovery plan and redundant data center
- ◇ Explore single sign-on technologies for statewide access

2)Web Resources

a) Recent Accomplishments

- ◇ Aligned K-12 core curriculum resources and lesson plans
- ◇ Supported suite of educator “smart” tools for lesson planning, online teaching, and rubric assessment
- ◇ Developed my.UEN portal pages to facilitate home-school communication

b) Long Term Objectives

- ◇ Develop personalization features for site, including Web 2.0 applications, customized pages, and user contributed content
- ◇ Update pages for 501 accessibility compliance and increased functionality
- ◇ Build capacity for districts/institutions to include modules with UEN services and tools on their district/institution pages
- ◇ Support digital interactive communities centered on common educational goals (courses, teaching areas, etc.)

3)Enterprise Applications

a) Recent Accomplishments

- ◇ Hosted course management system for higher education, integration with Banner student information system
- ◇ Launched digital asset management system and content
- ◇ Maintained Pioneer Library pages and user data

b) Long Term Objectives

- ◇ Expand Pioneer Library collection, include federated search and multimedia resources; continue to build out home access to Pioneer
- ◇ Increase DMS content; build tools to integrate DMS with other content through OAI harvesting
- ◇ Develop system to manage course content that transfers to various commercial CMS applications, continue to explore open source and other CMS software
- ◇ Develop hosted Web conferencing solution
- ◇ Develop process and increase funds for commonly licensed content and software applications; develop tiered approach for paid, shared cost, or negotiated discounts and hosting centrally, with vendor, or with institutions

- ◇ Increase sharing of resources and tools within the CMS for all campuses
- ◇ Move EHS (and expanded K-8 online school) to enterprise system

4) Distance Education

a) Recent Accomplishments

- ◇ Converted EDNET analog to IVC digital classrooms
- ◇ Migrated UENSS to IVC digital classrooms

b) Long Term Objectives

- ◇ Complete IVC room installations and training
- ◇ Build student help resources for distance education (online and call center options)
- ◇ Revise IVC policies to reflect new technical systems
- ◇ Develop process for independently scheduled events, meetings, classes
- ◇ Identify and install new sites (new high schools, Charter schools, board rooms, community learning centers, etc.)

5) Broadcast Services

a) Recent Accomplishments

- ◇ Increased programming in key target areas (seniors, adult basic education, science, health, public affairs, and teacher development)
- ◇ Promoted institutions with “Considering College” and “Research Roundup” campaigns
- ◇ Built outreach program with community screenings, teacher preview, senior workshops and conference presentations

b) Long Term Objectives

- ◇ Expand digital translator system to rural areas
- ◇ Plan for and implement community education campaign for February 2009 analog give back
- ◇ Datacast educational media to youth in custody; explore this as an adult corrections service
- ◇ Reformat 9.2 digital channel to meet state education needs and be attractive to cable carriers; explore IPTV and legislative coverage as additional digital options
- ◇ Promote academic majors in high need areas: nursing, engineering, teacher education, math, technology, science and work with Institutions to further promote their services and education programs
- ◇ Work with K-12 school administrators and USOE to dispel ‘video is bad’ image and promote effective uses of multimedia in the classroom

6) Professional Development

a) Recent Accomplishments

- ◇ Implemented online registration and credit tracking system
- ◇ Developed 76 different classes for PC and Mac
- ◇ Created “Faculty Lounge” program for just-in-time training using Adobe Connect

b) Long Term Objectives

- ◇ Align workshops to new ISTE NETS standards for USOE and college credit
- ◇ Move away from teaching tools to teaching good pedagogy that integrates technology
- ◇ Develop more training objects to be embedded in Web site and tools, particularly for higher education and UCAT faculty
- ◇ Develop more “just in time” training opportunities using Web conferencing
- ◇ Develop online communities for sustained PD support using Web 2.0 applications and multimedia resources

UTAH EDUCATION NETWORK FY 2008 STRATEGIC PLAN - DRAFT

TAB 22 ATTACHMENT B

Updated June 6, 2007

I. Wide Area Network

Operate, maintain, and expand a reliable and secure high speed network, connecting every public school, college, university and public library in Utah.

To achieve this goal, UEN will pursue the following objectives:

A. Operate and maintain the UEN network based on best practices and standards.

1. Catalog and maintain a circuit database
2. Catalog and maintain an IP management database
3. Develop and support an Internet content filtering system for K-12 and Libraries
4. Standardize how we develop and rollout future network deployments
5. Monitor the backbone to identify bandwidth, security, and utilization issues; and to increase capacity as necessary
6. Monitor endsites to identify bandwidth, security and reachability
7. Continue to develop tools which provide essential information about the network
8. Increase Network Operations and Field Operations Staff
9. Strengthen operational coordination between Technical and Instructional Services departments and staff members
10. Develop tools and reports to better manage network assets

B. Increase reliability of the network to 99.999%.

1. Provide redundancy for UEN critical services and network connections
2. Increase network effectiveness at locations where diverse paths exist, i.e. fast re-route, efficient routing, etc.
3. Continue to explore diverse path options throughout the backbone
4. Develop a plan to provide a redundant handoff point for district offices
5. Perform scheduled maintenance according to best practices and standards
6. Monitor and respond to network outages

- C. Increase network capacity by upgrading remaining higher education campuses and secondary schools to high speed broadband connectivity.
 - 1. Complete phase 4 ethernet projects
 - 2. Manage high bandwidth sites and provide additional resources allowed by UEN policy
 - 3. Continue to use E-Rate funds to develop broadband access throughout the state
 - 4. Explore additional needs for UEN Points of Presence (PoP) sites
 - 5. Explore options with regional service centers to increase bandwidth to Escalante Valley, Antimony and Koosharem
 - 6. Work with UTOPIA and other community networks to leverage network resources
 - 7. Encourage cooperation between local telephone companies and community networks

- D. Work with USOE and school district leaders to develop a strategy to provide high capacity network connections to remaining elementary schools.
 - 1. Continue to work with Districts that have allocated funds for broadband elementary connectivity
 - 2. Work with the State Office of Education and Districts to evaluate statewide approaches to increase bandwidth capacity to elementary schools

- E. Provide support to district and higher education technology staff to ensure that the enhanced capacity and reliability of the network is fully utilized.

- F. Expand Internet capacity to meet growth in network traffic.
 - 1. Explore additional alternate Internet Point of Presence (PoP) sites
 - 2. Explore, develop and implement ways to keep local network traffic local
 - 3. Work with CENIC and FRGP to develop NLR TransitRail for national peering opportunities

- G. Protect the network through improved security and security practices.
 - 1. Continue UtahSAINT user group
 - a. Keep current and publish security contacts list
 - b. Conduct weekly and ad hoc security calls
 - c. Plan and conduct two security conferences per year
 - d. Support other State security activities
 - e. Develop single-issue forums for specific needs

2. Provide leadership role for security expertise and assistance as required by districts and higher education institutions
 - a. Conduct and coordinate outside security assessment
 - b. Assist with security configuration and design
 - c. Provide security monitoring and reports
3. Work with Steering Committee to develop security policies
4. Continue to develop security monitoring tools
5. Work with state CIO and institutions to support USHE security audits as required.

H. Support the high capacity/high speed network needs of university researchers.

1. Continue participation in national and regional network partnerships (Internet 2, National Lambda Rail, The Quilt, and Western Lights)
2. Develop the SURIN Board as directed by the UEN Steering committee
3. Provision network to accommodate research requirements
4. Work with UDOT and DTS to place fiber between UofU and USU to support research
5. Investigate UEN's role with Ustar project
6. Support development of Utah Fiber Infrastructure Project

I. Provide technical leadership and staff/stakeholder development.

1. Undertake outreach and promotion efforts of Wide Area Network projects
2. Work with the Steering Committee to formalize Regional Technical Forums
3. Define expectations (i.e., frequency of meetings, leadership roles, format, participants, etc.) of regional technical forums
4. Establish annual reporting relationship between regional leaders and UEN Steering Community
5. Provide leadership in technical training: including expanded regional training, greater depth, more frequent and topic-specific training at tech summits, and refined security training
6. Provide training and leadership in the area of improving LAN reliability and speed on a local level
7. Expand advocate program to libraries, USDB, Charter Schools
8. Support USHE IT staff in efforts to increase operational expertise across all institutions and explore possibility of taking advantage of virtual staff or staff leasing.
9. Support the CIO's and TCC to research and develop a disaster recovery plan for network and planning to provide back up equipment and staffing for emergency situations.

II. Educational Web Resources

Aggregate and deliver a suite of high quality Web-based educational resources to support best practices in teaching and learning.

To achieve this goal, UEN will pursue the following objectives:

A. Host, support, and maintain Web projects and services.

1. Coordinate lesson plan development and publishing with USOE
2. Expand and maintain core curriculum resource database
3. Support USOE Web pages in coordination with specialists
4. Support UTIPS in coordination with USOE
5. Conduct Web site and link clean-up
6. With KUED, redesign UEN-TV Web site for new scheduling software, printable program schedule, digital program streams and viewer services
7. Continue development of my.UEN with additional portlets and functionality
8. Gather, review, and report on monthly Web statistics
9. Undertake communication, outreach, promotion of Web projects

B. Develop and implement new and expanded Web resources.

1. Increase interactive features on UEN.org with user contributed content and personalization features

C. Promote new and existing UEN Web services through technology, outreach, special events and media relations.

1. Produce and distribute NetNews Newsletters for public education and higher education
2. Promote UEN services and resources with online NetNews features on UEN.org
3. Feature uen.org at statewide conferences and exhibits

D. Support administrative activities for the uen.org site.

1. Gather, review, and post monthly Web statistics

III. Enterprise Solutions

License, host and maintain statewide enterprise solutions supporting public education, higher education, and libraries.

To achieve this goal, UEN will pursue the following objectives:

A. Host, support and maintain existing enterprise solutions and train managing personnel.

1. Service: Vista Course Management System

- a. Act as support escalation agent between Vista institutions and Vista support and Respondus support
- b. Conduct regular Vista administrator coordination meetings
- c. Provide scripted enrollment service for participating institutions
- d. Provide institution administrator training
- e. Coordinate shared faculty and student training materials development
- 2. Service: BlackBoard Course Management System
 - a. Act as support escalation agent between UEHS and Blackboard support
- 3. Service: Pioneer Library
 - a. Maintain and update Pioneer Library access IP address listings
- 4. Service: Digital Media Service
 - a. Upgrade TeleScope software
 - b. Continue to add programs to DMS as licenses are acquired
 - c. Migrate UCME legacy database and media into Digital Media Service
- 5. Service: Infrastructure Foundation
 - a. Update SAN Storage Domain Servers to latest software version
 - b. Upgrade and patch server OS
 - c. Extend enterprise/backup recovery system to all servers and DMZs
 - d. Cycle out server hardware older than 5-6 years
- B. Implement new enterprise solutions, services, and expand existing functionality to meet stakeholder needs
 - 1. Service: Vista Course Management System
 - a. Develop a central 24/7 Vista helpdesk/ searchable knowledge base capability for USHE students and faculty
 - b. Develop Service Agreements and service documentation with hosted institutions
 - c. Conduct CMS needs analysis with K-12 stakeholders
 - 2. Service: BlackBoard Course Management System
 - a. Implement Blackboard Enterprise Software supporting the Utah Electronic High School
 - 3. Service: Pioneer Library
 - a. Support Pioneer Federated Search tool
 - b. Secure funds to expand Pioneer resources including federated search and multimedia
 - 4. Service: Digital Media Service
 - a. Connect DMS to KUEN datacasting systems sending media to youth-in-custody facilities

- b. Pilot test and develop workflows for Codian to DMS digital course repository; make recommendations for ongoing service
 - c. Investigate using DMS to support UVSC Shadow Pages functionality for CMS systems
 - d. Conduct needs analysis examining user submissions to eMedia
 - e. Build DMS information Web page
5. Service: Infrastructure Foundation
- a. Mirror all SAN storage for completely redundant systems
 - b. Upgrade remaining data center racks to support managed power, four post server hardware, system lights-out management, and cable management
 - c. Extend enterprise backup/recovery systems, tape drives and fabric bandwidth
 - d. Explore possible co-location of storage area network mirrors
 - e. Explore and implement VPN, and/or encrypted tunnel methods in support of Full SIS integration and SIS Batch enrollment to CMS
- C. Increase awareness and use of enterprise services. Provide usage reports.
- 1. Service: Vista Course Management System
 - a. Build Vista resource and information page on UEN.org
 - b. Collaborate with participating UCAT Vista institutions to develop and deliver Vista faculty training workshops
 - c. Co-sponsor Teaching with Technology Idea Exchange conference with UVSC
 - d. Develop system usage reports with input from hosted institutions
 - 2. Service: Pioneer Library
 - a. Continue Pioneer Library advocate program
 - b. Work with Pioneer Library committee and PR team to develop and implement promotion tactics; create collateral material for PR
 - c. Publish Pioneer Library product usage reports
 - 3. Service: Digital Media Service
 - a. Promote eMedia eMedia and CollegeMedia
 - b. Create DMS media usage reports
- D. With USHE CIO's and the TCC, investigate other services or IT functions that might be centrally hosted by UEN
- a. Implement Web-based collaboration and communication tools (e.g., Macromedia Breeze and Horizon Wimba)
 - b. Support the ongoing evaluation of open source alternatives in course management systems.
 - c. Explore single sign-on technologies and standards and what roles UEN could

serve in identity management

- d. Assist USHE CIO's and TCC to evaluate centrally managed disaster recovery services and the role UEN should perform in providing that service

IV. Distance Education

Deliver Distance Education classes and programs offered by public and higher education that use real time and on demand, reliable, high quality video conferencing technologies.

To achieve this goal, UEN will pursue the following objectives:

A. Continue EDNET IVC migration plan

1. Conduct communication, outreach, promotion of Distance Education

B. Convert UENSS to IVC technology

1. Partner closely with USU in planning and implementing conversion
 - a. Provide joint UEN/USU project management via administrative group
 - b. Staff specialized teams and participate in project work groups
2. Develop plans to meet funding and staffing needs

C. Develop operational practices, procedures, and policy to manage and efficiently utilize IVC resources on the network

1. Plan and pilot manual switching capabilities as the iView product and UEN experience matures to enable independent scheduling ability
 - a. Create resources to disseminate distance learning info for students

V. Broadcast Services

Educate, engage, and enrich the lives of Utah citizens through broadcast programs and services with UEN-TV.

To achieve this goal, UEN will pursue the following objectives:

A. Continue programming and outreach for education stakeholder groups

1. Program blocks and interstitials for targeted areas
 - a. Continue Internet Safety outreach and presentations
2. Back to School resources for K-12 Teachers with KUED
3. Continue on-air campaign to promote post-secondary education opportunities, programs and USHE institutions

B. Implement new projects to support educational programming and outreach

1. Conduct educational outreach to educate citizens about analog give back
2. Develop educational multicast for 9.2 that serves community needs and is attractive to cable providers

3. Develop and program on-air education calendar of events.
- C. Support broadcast engineering infrastructure.
1. Expand digital translator capabilities
 2. Move toward tapeless MassTech system
 3. Implement Next Generation Interconnection System (NGIS)
- D. Manage station administrative projects; document and report on results.
1. Implement Digital Services Fund activities with Youth in Custody
 2. Integrate new scheduling data with online program guide
 3. Coordinate with national programming consortia and affinity groups
 4. Support PNL Water Wise grant
 5. Continue cable relations for carriage of UEN-TV digital channels.
 6. Feed monthly Comcast video on demand service and metadata.

VI. Professional Development

Provide professional development opportunities to improve the quality of K-20 instruction and assure effective implementation of technology in education.

To achieve this goal, UEN will pursue the following objectives:

- A. Continue development of ongoing courses and training materials.
1. Continue classes, endorsement program, ITC workshops
- B. Complete new class development and delivery projects.
1. Provide Vista training for faculty
 2. Increase “just in time” training resources
 3. Provide training on new UEN Web products and services.
 4. Develop Web tools that support educator communities of practice
- C. Provide documentation and outreach for UEN professional development services.
1. Make video tutorials for UEN products available through eMedia.
 2. Build awareness of prof dev services through promotion and presentations
- D. Administer the projects and services provided by UEN Professional Development department, and report on accountability measures to appropriate stakeholders.
1. Continue to assess performance and report on performance

VII. Governance and Accountability

Coordinate educational technology governance across the state, and be accountable to our stakeholders through communication, measurement, and reporting on UEN services.

To achieve this goal, UEN will pursue the following objectives:

A. Coordinate UEN Steering Committee, subcommittee, advisory committee, and constituent meeting groups.

1. Update policy manual

B. Request new funding for UEN priorities and maximize state funds through external grants, eRate, and other revenue sources.

1. Develop briefing papers and documents in support of funding requests.

2. Seek grant and foundation funds; coordinate these projects with stakeholders as appropriate.

3. Coordinate E-Rate process with SLD, K-12 Districts, Libraries, and telecommunications providers.

4. Support 21st Century ETI as determined by the Steering Committee

C. Track UEN performance, projects, and services and communicate with stakeholders regarding our work.

1. Develop Service Report process, tied to Crystal Reports, and other tools as appropriate.

2. Develop Service Level Agreements with stakeholder groups.

3. Create NetNews for higher education; gather input and story ideas from institutions

4. Communicate about UEN organizationally; NetNews, legislative publications, Steering Committee reports, etc.

5. Develop UEN Service Catalog, communicate this information through SLA's.

6. Report monthly statistics on use of UEN Web Services, Enterprise Applications, Professional Development and WAN metrics.

D. Increase internal communication, project management and coordination of services.

1. Continue development of Information Technology Infrastructure Library (ITIL) process and training.

2. Hold bi-monthly managers meetings and weekly executive meetings for cross-department communication

3. Working with Steering Committee and Subcommittees, develop annual strategic plan and budget that crosses all UEN departments.

4. Build skills and knowledge of UEN staff through professional development, industry publications, conferences, workshops and membership in professional organizations.

STATE OF UTAH REGISTRY FOR INTERNET NUMBERING (SURIN) BYLAWS - ACTION

Issue

Article VIII of the SURIN Bylaws has been revised. Final approval of the SURIN Bylaws, including Article VIII is requested.

Background

At its last meeting, the UEN Steering Committee approved the SURIN Bylaws, except for Article VIII. The SURIN Board has now revised Article VIII, which provides for formation and makeup of the Technical Advisory Committee.

Highlights of the revised Article VIII include:

- Technical Advisory Board members are nominated by the organizations that constitute the SURIN Trustees.
- Based on nominations from constituent groups, the SURIN Board will approve the members of the Technical Advisory Board, and will appoint the Chair.
- Membership of the Technical Advisory Board will total seven.
- Two UEN representatives will ensure that engineering and operations issues are considered.
- The Technical Advisory Board may create ad hoc committees, providing a greater degree of flexibility in addressing future technical issues.

Revised Article VIII is provided as Attachment A. Upon approval by the Steering Committee, the SURIN Board intends to circulate and initiate a call for policy recommendations from the general SURIN membership.

Recommendation

It is recommended that the UEN Steering Committee review and approve Article VIII and reaffirm approval of the SURIN Bylaws.

TAB 23 ATTACHMENT A

BYLAWS OF THE STATE OF UTAH REGISTRY FOR INTERNET NUMBERING - REVISED ARTICLE VIII

ARTICLE VIII **Advisory Council**

Section 1 – Function

The Advisory Council shall act in an advisory capacity to the Board of Trustees on matters as the Board of Trustees may, from time-to-time, request involving Internet numbering resource policies and related matters. The Chair of the Board of Trustees shall be the primary point of contact between the Advisory Council and the Board of Trustees.

Section 2 – Advisory Council Composition

The Advisory Council shall consist of seven (7) persons, each nominated by their respective organizations and confirmed by the SURIN Board of Trustees.

- One chairman appointed by the SURIN Board of Trustees.
- Two Utah Education Network engineers
- One member from USHE
- One member from Utah Public Education
- One member from Utah State Libraries
- One member from DTS

Each advisory member shall be selected in accordance with Section 4 of this Article VIII. In addition, the Chair of the Board of Trustees is a voting member of the Advisory Council.

Section 3 – Terms

The term of office of Advisory Council members shall be three (3) years or until their successors have been elected and assume office. Advisory Council members may serve multiple terms.

Section 4 – Nominations of Advisory Council Members

Members of the SURIN Advisory Council shall be nominated by a SURIN entity (see section 2 of article VIII) and approved by the Board of Trustees. All Nominees are subject to the Nomination and Appointment Conflict of Interest List approved by the Board of Trustees and made publicly available on the SURIN Web site .

- a. All nominations shall be made public via the SURIN Web site . Processes not contained in these Bylaws shall be approved by the Board of Trustees and made

publicly available on the SURIN Web site .

- b. The term of office of Advisory Council members shall commence immediately following the successful completion of the nomination and confirmation process.
- c. In the event of the failure of any Nominee to assume his or her position, the vacancy created shall be filled by an interim Candidate appointed by the SURIN Board of Trustees. The interim candidate shall fill the vacancy until such time as they or another candidate can be presented to the Board of Trustees for consideration by the respective organization.
- d. The Board of Trustees shall retain continuing oversight authority of the nomination, confirmation and removal processes of Advisory Council members. Advisory Council members may be removed, with cause, by a majority vote of the Board of Trustees as described in section 9 of Article VIII.

Section 5 – Quorum

A majority of the Advisory Council members shall constitute a quorum for the transaction of business. Unless otherwise stated in these Bylaws, decisions of the Advisory Council shall be made by the concurrence of a majority of members present and voting. If at any meeting there is no quorum present, the Advisory Council must not transact business.

Section 6 – Meetings

The Advisory Council shall meet at least once annually. Meetings of the Advisory Council may be held from time-to-time at such intervals and at such places as may be fixed by the Advisory Council. Meetings of the Advisory Council may be held only in person or via teleconference. Notice of all regular meetings of the Advisory Council shall be delivered to each Advisory Council member in writing at least ten (10) calendar days before the meeting. Special meetings of the Advisory Council may be called for any purpose at any time by the Chairman or by any five (5) members. Notice of any special meeting shall state the purpose of the meeting. A member may waive notice of a meeting of the Advisory Council by submitting a signed, written waiver of notice either before or after the meeting. A member's attendance at or participation in a meeting waives any required notice of the meeting unless at the start of such meeting or promptly upon arrival the member objects to holding the meeting or transacting business at the meeting, and does not thereafter vote for or assent to action taken at the meeting.

Section 7 – Compensation and Reimbursement

No Advisory Council member shall receive any compensation from SURIN for his or her services as an Advisory Council member.

Section 8 – Resignation

Any Advisory Council member may resign at any time by giving written notice to the Chair of the Board of Trustees. Any such resignation shall take effect at a date specified in the notice or when the notice of resignation is delivered. After notification of a

resignation has been received, an interim appointment shall be made by the SURIN Board of Trustees as described in section 10 of Article VIII.

Section 9 – Removal

Any member of the Advisory Council may be removed from office with cause by the affirmative vote of two-thirds of all the Trustees present and voting at any time at a meeting of the Board of Trustees. Any member proposed to be removed shall be entitled to at least ten (10) calendar days notice prior to the voting period and shall be entitled to appear before and be heard at such meeting. Removal may proceed without the member's participation.

Section 10 – Interim Appointments

When a vacancy occurs during the unexpired term of an Advisory Council member, the SURIN Board of Trustees may, at its discretion, upon majority vote, appoint an interim Advisory Council member to fill the vacancy. Such an appointment shall be made based on a procedure adopted by the Board of Trustees and made publicly available on the SURIN Web site .

Section 11 – Approval of Meeting Minutes

Minutes of the Advisory Council must be approved via a procedure adopted by the Council and made publicly available on the SURIN Web site .

Section 12- Ad Hoc Committees

The Advisory Council shall have the authority to create ad hoc committees, as they deem necessary to assist with technical needs. The Advisory Council shall make determinations as to the membership and size of any ad hoc committee. Membership of an ad hoc committee is subject to the review of the SURIN Board of Trustees. Ad hoc committees may be disbanded through the majority vote of the Advisory Council or the Board of Trustees.

SURIN Seal

A SURIN Seal is being designed and will be available at a later date.

COST RECOVERY FROM PRIVATE EDUCATIONAL INSTITUTIONS FOR NETWORK CONNECTIVITY - ACTION

Issue

Cost Recovery from Private Educational Institutions for Network Connectivity

Background

UEN recently developed policy 2.1 Network Connectivity Charges. This policy enables UEN to connect eligible entities where no state appropriation has been provided. The policy also gives UEN the ability to recover costs associated with connecting these entities.

The attached proposed addendum to Policy 2.1 seeks to clarify the components of cost recovery and methodologies for determining charge back totals. Specific costs associated with connectivity change frequently. Placing these costs within the structure of a policy would be impractical. Therefore, we propose to elaborate the components of the costs and to publish a cost schedule annually.

A summary of charge back components is as follows:

- Customer provided, premise based equipment
- Local Loop
- Backbone Transport
- Internet Transport
- Internet 2 Transport
- Backbone interface equipment and maintenance
- Technical Support

An example of costs based on current backbone and Internet expenses for a private entity wishing to connect an Ethernet circuit with a rate cap of 10 Mbps would be as follows:

One time costs:

- Cisco 3750 switch ~\$5,000 - \$6000 one time
- Non recurring charge for circuit installation ~\$500 - \$1,200

- Internal fiber build ~\$5,000 - \$20,000
- Backbone Interface charge ~\$500

Ongoing costs

- Ethernet circuit (Local Loop) ~\$800 - \$2,400 monthly
- Backbone Transport billed by UEN - \$50 (\$5 X 10 Mbps) monthly
- Internet Transport billed by UEN - \$340 (\$34 X 10 Mbps) monthly
- Internet 2 Transport – N/A
- Backbone Interface Maintenance – 0
- Technical Support billed by UEN - \$130

The total one time to UEN would be the \$500 for the backbone interface.

The total ongoing monthly charge to be paid UEN would be \$520. All other charges would be according to vendor contracts with the private entity and these figures are only given as an example of the total cost.

UEN will publish a cost schedule that will be based on these billing components, as outlined in this policy.

Recommendation

It is recommended that the Steering Committee consider and approve this addendum to Policy 2.1 to allow UEN to connect private, eligible entities and charge back for services provided. These private entities expect to pay these charges and UEN should provide a specific process and methodology that is consistent.

TAB 24 ATTACHMENT A

ADDENDUM TO UEN POLICY 2.1 NETWORK CONNECTIVITY CHARGES

Addendum to UEN Policy 2.1 Network Connectivity Charges Cost Recovery from Private Educational Institutions for Network Connectivity

This addendum adds the definition for Schools and Libraries Division (SLD) and clarifies UEN policy “**2.1.5.3.1**. Non-state funded non-profit educational institutions that attach to the UEN backbone are required to pay circuit charges to connect to the nearest UEN hub and will be limited to 3 Mbps.”

The purpose of this addendum is to outline the specific methodology for recovering network costs from eligible private, not-for-profit entities that are, or desire to be, connected to the Utah Education Network backbone. These billing components shall apply in accordance with the 2.1 Network Connectivity Charges policy.

Definitions:

Schools and Libraries Division (SLD) - The Schools and Libraries Program of the Universal Service Fund, commonly known as “E-Rate,” is administered by the Universal Service Administrative Company (USAC) under the direction of the Federal Communications Commission (FCC), and provides discounts to assist most schools and libraries in the United States to obtain affordable telecommunications and Internet access. It is one of four support programs funded through a Universal Service fee charged to companies that provide interstate and/or international telecommunications services.

Clarification of UEN Policies for Recovering Network Connectivity Costs From Private Educational Institutions:

2.1.5.3.1.1. Once an entity is determined to be eligible and connectivity needs are determined and agreed to, this billing process will be applied:

- a. Customer Provided, Premise Based Equipment - The private entity will be responsible to provide and maintain all equipment required for network connectivity on the customer site.
- b. Local Loop - The private entity will be responsible for the local loop transport from the customer site to the UEN backbone interface. This includes all circuit installation costs, monthly recurring charges, vendor required maintenance and management fees and any other charges levied by vendors, municipalities, etc.
- c. Backbone Transport - By policy UEN will provide transport of backbone traffic for up to two (2) T-1 circuits. This is approximately 3 Mbps of traffic. Above this level the private entity will be required to reimburse UEN for all cost associated with carrying this additional traffic. The actual cost of transport will be charged,

as nearly as can be easily determined, and the private entity will receive a monthly assessment for this service.

- d. Internet Connectivity - UEN will determine with the private entity the maximum traffic rate cap that shall apply. This cap is the maximum traffic available to the private entity. UEN will provide a cost per Mbps per month and the private entity will receive a monthly assessment based on a multiple of the maximum traffic rate cap and the cost-per-mbps-per-month. This cost-per-mbps-month will be determined according to actual costs incurred by UEN for Internet traffic. No fee shall be charged that is not permissible by SLD E-Rate regulations and all E-Rate rules will be considered in this charge.
- e. Internet 2 Connectivity - UEN in conjunction with the USHE Chief Information Officers (CIOs) will determine an appropriate assessment for Internet 2 utilization. This will be done based on actual usage by the private entity and cost to UEN and USHE.
- f. Backbone Interface Equipment and Maintenance - The private entity will be responsible for all equipment and maintenance costs incurred by UEN for network connectivity at the backbone locations. This assessment may consist of a one-time equipment charge and an ongoing maintenance charge. Charges will be based on actual costs.
- g. Technical Support - The private entity will be assessed a monthly charge to access the technical expertise of the UEN staff. This amount will be determined by the UEN Technical Services Department and may change from time to time, however not more than annually. This fee will allow the private entity to call the UEN NOC with a guarantee of timely response. The private entity is also guaranteed support of up to 2 hours of support each month. At the discretion of UEN, the private entity may be billed an hourly rate for all work that exceeds this 2 hour service guarantee.

2.1.5.3.1.2. Billing - UEN will provide a quarterly statement for the private entity. Payment must be received by UEN within 30 days of receipt of the statement. All disputes must be made in a timely manner.

2.1.5.3.1.3. This policy may be modified from time to time as required by UEN, the private entities or the UEN Steering Committee.

UEN SUMMER GOALS AND PROGRESS - DISCUSSION

Issue

UEN staff have identified 30 ambitious goals to reach by the end of the summer.

Background

Summer goals represent activities identified through UEN's annual strategic planning process, based on input from districts, institutions, and our Steering Committee. Completing these goals will require dedication and hard work from all of us - and we're up to the challenge.

A copy of the summer goals list is included under this tab. Committee members are invited to track our progress on the Web at www.uen.org/ueninfo/uen_summer_goals.shtml

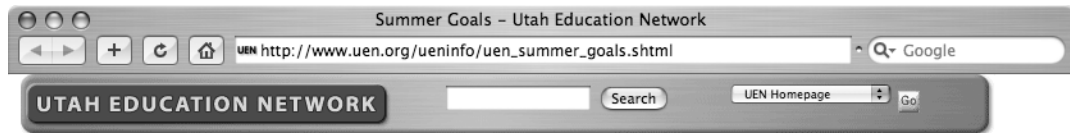
Here's to a busy summer!

Recommendation

This is a discussion item requiring no further Steering Committee action.

TAB 25 ATTACHMENT A

AMBITIOUS UEN ACHIEVEMENT GOALS WEB SITE



Ambitious UEN Achievement Goals (all by August 31, 2007)

- ★ ★ ★ ★ 1. Launch new my.uen
- ★ ★ ★ ★ 2. Publish Multimedia Guide
- ★ ★ ★ ★ 3. Train 3000 teachers
- ★ ★ ★ ★ 4. Reach 3,000 participants through UEN-TV outreach events
- ★ ★ ★ ★ 5. Complete phase 2 summer Youth in Custody grant activities
- ★ ★ ★ ★ 6. Complete stable course management system with migrated courses
- ★ ★ ★ ★ 7. Launch desktop conferencing hosted solution
- ★ ★ ★ ★ 8. Integrate four new Core Areas into UEN.org
- ★ ★ ★ ★ 9. Publish performance dashboard
- ★ ★ ★ ★ 10. Add 500 programs to eMedia
- ★ ★ ★ ★ 11. Complete summer PNL Water Wise Utah goals
- ★ ★ ★ ★ 12. Complete SLA's for CMS, YIC, EHS, and video hubs
- ★ ★ ★ ★ 13. Conduct 20 Internet Safety presentations
- ★ ★ ★ ★ 14. Complete FY2008 Strategic Plan and Budget
- ★ ★ ★ ★ 15. Launch Higher Education newsletter
- ★ ★ ★ ★ 16. Complete UEN Policy and Procedure Manual
- ★ ★ ★ ★ 17. Apply for and have funding decisions on:
 - ★ ★ ★ ★ a. Translator/RUS grant
 - ★ ★ ★ ★ b. Distance Learning and Telemedicine/RUS grant
 - ★ ★ ★ ★ c. FCC/Utah Telehealth grant
 - ★ ★ ★ ★ d. CPB Local Station grant
 - ★ ★ ★ ★ e. Teaching Civics grant
- ★ ★ ★ ★ 18. Complete 2007 Financials
- ★ ★ ★ ★ 19. Complete E-Rate Plan for 2008
- ★ ★ ★ ★ 20. Complete filing of all UEN BEAR forms for 2007
- ★ ★ ★ ★ 21. Complete UENSS satellite to IP conversion
 - ★ ★ ★ ★ a. Complete application engineering
 - ★ ★ ★ ★ b. Complete network engineering
 - ★ ★ ★ ★ c. Complete WAN improvements
 - ★ ★ ★ ★ d. Complete IVC classroom installations
 - ★ ★ ★ ★ e. Complete MCU install
 - ★ ★ ★ ★ f. Complete fall semester scheduling
 - ★ ★ ★ ★ g. Complete statewide IVC training
 - ★ ★ ★ ★ h. Complete VOC restructure and staffing
- ★ ★ ★ ★ 22. Continue Phase IV progress
- ★ ★ ★ ★ 23. Complete Flex WAN project
- ★ ★ ★ ★ 24. Complete new Internet connectivity (BW, Qwest, Cogent 12)
- ★ ★ ★ ★ 25. Complete Nemo 3 standards and documentation project
- ★ ★ ★ ★ 26. Complete Device management tool implementation
- ★ ★ ★ ★ 27. Complete UEN Firewall implementation
- ★ ★ ★ ★ 28. Complete rack room upgrades
- ★ ★ ★ ★ 29. Complete Anycast DNS
- ★ ★ ★ ★ 30. Complete UEN List Serve



© Utah Education Network in partnership with
the Utah State Office of Education and the Utah System of Higher Education
UEN does not endorse and is not responsible for content on external websites linked to from this page.
Contact Info: 801-581-2999 | 800-866-5852 | resources@uen.org

VISTA COURSE MANAGEMENT SERVICE SUMMER UPDATE - DISCUSSION

Issue

Utah State University and Utah Valley State College successfully began Summer semester on UEN's Blackboard Vista. Other hosted institutions will move from the unstable Vista environment to the new, significantly expanded Vista service in time for Fall Semester 2007.

Background

New Vista environment migration

In order to solve significant problems with the Vista environment, UEN purchased and installed an entirely new hardware and software infrastructure for the Vista Course Management Service. Within 2 weeks of receiving the hardware, UEN staff installed and configured a new dedicated database server and multiple application servers running state-of-the-art virtualization to provide a system with 8 times the capacity of the Vista pilot hardware. The new production system was available to UVSC and USU for course migration by early April.

Instructional Designers and Faculty at UVSC and USU moved hundreds of courses from their local campus edition versions of WebCT to UEN's hosted environment over a 3 week period. Throughout the migration process UEN system and database administrators provided round-the-clock support. Several issues arose requiring escalation to Blackboard support. Response from Blackboard was noticeably better and most issues were resolved quickly.

Issues around managing cross-listed courses have arisen and UEN is currently working with Blackboard support to resolve these issues. Work-around solutions have been developed to provide access for students with problems accessing cross-listed courses.

Banner integration

UVSC, USU and Dixie State College planned integration between their Banner systems and the UEN Vista instance. No one was quite sure that multi-institution integration was even possible. Through outstanding individual efforts staff at USU, UEN and UVSC pieced together information to successfully create encrypted, multi-institution

integration with Banner. Integration allows students to access their sections within Vista seconds after registering. It also managed all student and faculty accounts within Vista ensuring that users are enrolled properly. Banner integration is a key requirement for course management at larger institutions. UEN now supports a full range of enrollment management options for the hosted institutions from live-event integration Banner to batch file enrollments to manual user and enrollment management.

Preparations for Fall Semester

Course migration to the new Vista environment continues for all institutions throughout the summer. UEN hopes to have all institutions moved and hosted on the new environment for Fall 2007. Cory Stokes has visited BATC, CEU and Snow College to help them plan their course migrations and is planning to visit the remaining institutions in the next month.

UEN system administrators have installed Vista Application Pack 2 on a development environment for testing. This upgrade is supposed to fix hundreds of reported issues. UEN is taking a cautious approach to applying the application pack.

UEN is looking at options for performing load testing on the new Vista environment before the increased usage in the Fall.

In a recent meeting with Blackboard's President of North American Operations UEN brought up several issues surrounding Blackboard's performance and support for consortiums. UEN is 1 of 6 consortium hosting customers in the U.S. Blackboard is reportedly examining how they can improve licensing and services for consortiums as well as issues around the overall stability of Vista releases and customer support.

Recommendation

This is a discussion item requiring no further Steering Committee action.

NETWORK PERFORMANCE METRICS - DISCUSSION

Issue

The UEN Network Operations Center continues to monitor the health and utilization of the network. Network Operations is also continuing its development of tools and resources to offer better and more timely reporting.

Background

Network Backbone Availability

Month to Date	100%
Quarter to Date	100%
Year to Date	100%

Network Backbone Latency By POP Site

<u>PoP name</u>	<u>Average</u>
USU	4.7 ms
WSU	3.7 ms
DATC	3.4 ms
EBC	3.1 ms
SLCC	2.9 ms
UVSC	2.7 ms
UVSCW	3.3 ms
CEU	4.1 ms
Snow	3.6 ms
SnowS	3.7 ms
SUU	6.1 ms
Dixie	6.5 ms

Network Backbone Utilization by Ring

	<u>Current</u>	<u>April</u>	<u>February</u>
North Ring	48%	45%	39%
Central Ring	53%	54%	52%
South Ring	55%	53%	31%

Internet Bandwidth Summary

Current Overall Internet Bandwidth Available	3.6Gbps
Current Internet Average Peak Utilization	1.97Gbps

Recommendation

This is a discussion item requiring no further Steering Committee action.

STEERING COMMITTEE MEETING MINUTES

UTAH EDUCATION NETWORK STEERING COMMITTEE

April 27, 2007 - 9:00 a.m.

Members Present: Ron Barlow, Steve Corbato, David Fletcher for Stephen Fletcher, Rick Gaisford, Debby Gomberg, Stephen Hess, M. K. Jeppesen, Gary Koeven, Pat Lambrose, Jeff Livingston, Eric Mantz for Ryan Thomas, Ronda Menlove, Randy Merrill, Donna Jones Morris, Wayne Peay, Mike Petersen, Kirk Sitterud, Glen Taylor, Ray Timothy, Carlene Walker, Ray Walker and Gary Wixom.

Others Present: Charice Black, Lisa Cohne, Kevin Dutt, Jeff Egly, Rich Finlinson, Claire Gardner, Boyd Garriott, Cynthia Grua, James Hodges, Laura Hunter, Troy Jessup, Karen Krier, Lisa Kuhn, Jim Langston, Don Mahaffey, Bryan Peterson, Kevin Quire, Victoria Rasmussen, Larry Smith, Nate Southerland, Cory Stokes and Kathy Webb.

Welcome and Introductions

Ray Timothy welcomed everyone to the April meeting.

Committee of the Whole

Tab 31 - New UEN Steering Committee Members

Ray Timothy introduced the newest members of the Steering Committee. Mike Petersen shared that Clark Barron, the new representative from the Governor's Office was unable to join them today but would be at the June meeting. Steve Corbato was then introduced as the new Research Community representative. Debby Gomberg is the Charter School Representative. Ray welcomed the new members on behalf of the Steering Committee.

A motion was made and seconded to approve the new members. THIS MOTION CARRIED.

Tab 1 - UEN Strategic Planning

Mike Petersen reported that Ray Timothy would no longer be a co-chair for this Committee. Ray has accepted a new position as the Park City Superintendent and this

will be his last meeting. Mike turned the meeting over to Ray to share a few parting remarks. Laura Hunter also took a few minutes to thank Kathy Webb for time and commitment to UEN. Kathy has replaced Dick Siddoway as Principal of the Utah Electronic High School.

Mike talked about the upcoming Steering Committee retreat which is being held on May 8th and 9th, at Utah Valley State College. The retreat will start on Tuesday at 1pm and will end on Wednesday about 2pm. An agenda will be out the first of next week with more details. Mike briefly went through the key areas of concentration during the retreat.

A motion was made and seconded to approve the strategic planning process as outlined. THIS MOTION CARRIED.

Tab 2 - Legislative Outcomes and Budgetary Procedures for FY 2008

Mike Petersen went through UEN's legislative highlights of this session. UEN's major goals were: 1) Complete the network infrastructure projects at public secondary schools that do not yet have Ethernet connectivity and replace last year's one time allocation used to pay for multi-year telecommunication provider contracts with ongoing funds, 2) Acquire one-time and ongoing funds to convert remaining classrooms in Utah and Wasatch Front high schools from analog to IP-based digital videoconferencing, 3) Secure funding for an enterprise-level learning management system in collaboration with the Utah System of Higher Education 4) Obtain one-time funds to convert the UEN satellite system to IP video and 5) Acquire additional resources to retain key staff members. The major goals were achieved.

For a complete detailed list of the UEN budget request please see Tab 2.

Tab 3 - Organizational Update

Mike Petersen explained the organizational changes that UEN is going through due to the elimination of the UEN Satellite System (UENSS) and restructuring of reporting and supervision of scheduling, video operations center, and distance education specialists. The chart can be found online at www.uen.org For a detailed breakdown of the organization charts please see Tab 3, Attachment A.

Tab 4 - UEN Proposed Modifications to UEN Steering Committee Bylaws

Mike Petersen explained that the Bylaws do not reflect changes resulting from HB 289, which was adopted in the 2006 Legislative General Session. HB 289 modified the definition of UEN, its duties and authority relating to the broadcasting and telecommunication services provision in the statute. Secondly, the Steering Committee approved the addition of two new members to represent charter schools and the university research community. Mike reported that Boyd Garriott has been updating the Bylaws and a detailed itemization can be found in Tab 4, Attachment A.

Wayne Peay raised questions about Article III, Section 2, subsections 2.8.1 through 2.8.6 and it was agreed that a more extensive revision of the Bylaws was needed. There was a general concurrence to postpone approval of Bylaw changes.

Tab 5 - State of Utah Registry for Internet Numbering (SURIN) Bylaws

The meeting was turned over to Jim Langston who shared with the members that they have made good progress but are at a standstill due to the Bylaws not being approved yet. The Bylaws can be found in Tab 5, Attachment A.

Concern was expressed around Article VIII, the Advisory Council, and the procedures for selection of Advisory Council members. After lengthy discussion it was decided to table this section for further discussion and modification.

A motion was made and seconded to approve the Bylaws as written except for Article VIII which will be discussed again in June 2007. SURIN would be able to move forward with their plan and objectives. THIS MOTION CARRIED.

Tab 6 - Modifications to UEN Policy and Procedures Manual

Mike Petersen reported that UEN is working on the development of a Policy and Procedures Manual for UEN. UEN is in the process of preparing a standardized policy and procedures manual that describes the operation and the procedures necessary for UEN to fulfill its role and mission.

The policies and procedures included in Tab 6 have been reviewed and adopted by the Steering Committee previously. However, they have been converted to the new format in Tab 6, Attachment A. This is an informational item only.

Tab 7 - Quarter Three Progress Report on FY 2007 Strategic Plan

Laura Hunter went through the highlights and activities of the third quarter progress report. There is a detailed list of the highlights and activities for Goals 1 through 7 located behind Tab 7.

Tab 8 - Steering Committee Meeting Minutes

A motion was made and seconded to approve the minutes as corrected. THIS MOTION CARRIED.

The next Steering Committee meeting will be held on June 15, 2007, at the Dolores Doré Eccles Broadcast Center.

The meeting then adjourned for subcommittee meetings. The minutes from each subcommittee appear below.

Attendees: Rick Cline, Lisa Cohne, Rich Finlinson, Rick Gaisford, Debbie Gomberg, Cyd Grua, Laura Hunter, Karen Krier, Pat Lambrose, Jim Langston, Wayne Peay, Victoria Rasmussen, Nate Southerland, Cory Stokes, Kathy Webb and Gary Wixom.

Tab 10 - New my.uen - Discussion

The Utah Education Network is implementing an open source portal solution to replace the current my.uen, the online service that educators use to register with UEN and access tools and services. During 2004, Karen Krier conducted a needs assessment with nearly 400 users to discover what features were needed and wanted in a personalized web service.

Over the next few months we will continue to develop portlets and work to make the service accessible to people with disabilities and we will conduct extensive testing with users throughout the state. The new my.uen will launch June of 2007.

Action - This is a discussion item requiring no further Instructional Services Subcommittee action.

Tab 11 - Educational Technology Endorsement Program Update - Discussion

Educational Technology Endorsement Program (ETEP) is to help teachers enhance the educational experience of Utah students by increasing higher-level thinking, communication, and collaboration skills. Teachers who complete the ETEP program qualify for an endorsement in Educational Technology from the Utah State Office of Education.

So far, 15 participants have finished the program and earned their Educational Technology endorsement and there are 82 active participants at various stages in the program.

Several participants in the program have expressed frustration at the lack of courses available outside the Wasatch front. To help address this concern, UEN is working with the Technology Education division of the Continuing Education department at the University of Utah to offer three courses for the graduate program at a distance.

Action - This is a discussion item requiring no further Instructional Services Subcommittee action.

Tab 12—UEN Performance Dashboard - Discussion

A progress update on the production of an organization-wide performance dashboard is included in Tab 12 of the April 2007 Steering Committee materials. A mock-up of initial performance graphs is included.

Action - This is a discussion item requiring no further Instructional Services Subcommittee action.

Tab 13 - Broadcast Services Update - Discussion

Protrack training and software implementation are complete and the datacasting tests were successful.

UEN is looking at alternatives for the 9.2 multi-cast channel which is currently Annenberg. Research Channel, a source offering interesting lectures and academia was considered, but lack of closed-captioning make it incompatible. Mhz Networks offers Worldview, a channel offering news, public affairs and health programming from different countries around the world. UEN is getting feedback from focus groups to aid in finding the best option to serve our constituents.

A report summarizing broadcast activities for UEN-TV conducted during the third quarter, January through March 2007 is included in Tab 13 of the April 2007 Steering Committee materials.

Action - This is a discussion item requiring no further Instructional Services Subcommittee action.

Tab 14 - Distance Education Course Scheduling Report - Discussion

A report containing a list of courses submitted for the 2006-2007 and 2007-2008 school years is available in Tab 14 of the April 2007 Steering Committee materials.

Action - This is a discussion item requiring no further Instructional Services Subcommittee action.

Tab 15 - Public Education and Higher Education Advisory Committee Reports - Discussion

Members of the Public Education Advisory Committee and the Higher Education Advisory Committee plan a joint meeting on June 1st from 11:00 a.m. to 1:00 p.m. at the USHE Gateway offices. Contact Kathy Webb or Cyd Grua to participate and RSVP.

Action - This is a discussion item requiring no further Instructional Services Subcommittee action.

Utah Education Network Technical Services Subcommittee Meeting Minutes

Attendees: Glen Taylor, Kevin Dutt, Barry Bryson, Bryan Peterson, Bill Bingham, Ray Walker, Gary Koeven, David Fletcher, M.K. Jeppesen, Eric Mantz, Boyd Garriott, Jeff Egly, Don Mahaffey, Troy Jessup and Dennis Sampson.

Tab 16 - UENSS to IVC Update - Discussion

UEN Network Engineering and project teams have completed the WAN & LAN network assessments. All classroom equipment has been ordered. Due to a delivery delay from the audio mixer manufacturer, a new vendor had to be identified and a new bid needed

to be awarded. The mixers should be arriving in the next few weeks. We have converted approximately forty-three classrooms, twenty classrooms remain to be converted and fifty classrooms are under construction.

UEN Application Engineering and the Video Operations Center (VOC) are currently testing RAD Vision's new 72-port Scopia multipoint control unit (MCU). The MCU is intended to accommodate the additional bridging resources required for this project.

The final phase of the EDNET to IVC conversion is also underway. UEN has approximately twenty remaining Ednet classrooms to convert by July 31st, most of which are in Utah County and the Jordan School District.

We are monitoring network improvements that must be completed to support this project and contingency plans are in place if a short-term back up solution is required.

Some of the biggest challenges we have on the network improvement side are the larger complex improvements which are all, or a portion, are E-Rate funded as well in to district responsibility. There are four school districts that are impacted. The timelines are still a little gray due to right-of-way issues and improvements that need to be carried out. UEN is insuring that we have a contingency plan in place so we can pull up the classrooms and start classes in August.

We have purchased three 72-port Scopia MCU's that will upgrade three existing VIP units. It will increase our capacity and feature sets which will provide additional improvements. There is some testing that needs to be done before it goes into production. The Scopia's are part of a trade-in. Three of the existing RAD Vision VIP 400's will be traded in towards the 72-port Scopia.

Some changes are taking place in staffing. The Video Operations Center in Logan will become part of UEN's Video Operations Center and the two will closely work together to provide support.

Tab 17 - Network Performance Statistics - Discussion

The Network Health Statistics & Summary Reports will be provided to the Steering Committee on a regular basis. It is important for the Steering Committee and members to understand the health of the network. Most of the reports are available on line. Highlights of the report are:

Attachment A - Year to date reports.

Network availability - As with industry standards we are excluding scheduled maintenance from the network. Besides scheduled maintenance, the backbone of the network has been 100% available since the first of January.

Packet Loss - There also has been no report of packet loss on the backbone during this period of time as well.

Network Latency - Over the entire network, north to south, the average network latency is 4ms. This is an extremely low number. We can be proud of this number.

Network Jitter - Jitter is a measurement of distance between packets as they are received. With the current codecs and MCUs that we currently have, we can accept jitter up to 40 ms without noticeable problems. We have 0.0 ms jitter. The most jitter

we experience on the backbone is 0.1 ms and sometimes 0.2 ms.

The backbone is very robust and handling video very well. This is one of the key areas we focus on in video performance and a key indicator when we are having problems.

The averages of the highs and the lows will be included in the next report.

Attachment B - UEN Network Backbone and Internet Utilization Report

Backbone Utilization Summary - The UEN backbone consists of 3 major segments. The North, South and Central rings.

- North Ring - Current utilization is at 45%
Last quarter - 38%
- South Ring - Current utilization is at 53%
Last quarter - 31%
- Central Ring- Current utilization is at 54%
Last quarter - 51%

The reason for the high utilization on the South Ring is we rebalanced Internet traffic to go out through Dixie State College through our internet connection down there.

Overall, we are happy with the numbers. We do see growth. Once we get to the 55-60% we start focusing on upgrading and getting additional bandwidth.

Internet Bandwidth Summary

During the last quarter we increased our available internet bandwidth to 3.6Gbps. We are currently using 1.72Gbps or 48% of the bandwidth available. Last quarter we had 2.4Gbps available and we were using 1.35 Gbps or 56%. This summer we are anticipating turning up another internet link and hoping to get the utilization down into the mid or upper 20's.

There is plenty of bandwidth still available. The backbone runs extremely well. There are still a lot of people who may experience sluggishness on the network. We do extensive testing and troubleshooting on these types of issues. We find that it is usually the internal or the institution's networks creating the problem. Our biggest concern is the backbone itself. Our next jump that we are looking at now is a 10Gb Ethernet jump for locations where we are having concerns. One of our concerns is the Richfield Data Center. There is only a gigabit of bandwidth north and a gigabit south available at that location. We are concerned about the impact that it is going to have on the schools and other technologies. We are on top of that and continuing to look into these concerns.

Tab 18 - Ethernet GL3 Phase IV Implementation - Discussion

UEN officially kicked off Phase IV improvements. We are doing additional engineering and planning with each of the districts, higher education institutions and the phone companies involved in performing site surveys. Improvements will be implemented in the following districts: Emery, Morgan, Nebo, North Summit, Park City, South

Summit, Rich and Wayne.

As part of Phase IV, UEN will provide Qwest GeoMax Ethernet solutions to the following charter schools: East Hollywood High School, Tuacahn Charter High School and DaVinci Academy.

As we begin work on Beehive Telephone's portion of the project, we will be affecting schools in Box Elder School District, Tintic School District, Millard School District and Juab School District. This will provide them with a more effective broadband solution.

Attachment A is a list of Phase IV sites. This list does not include the Phase 4 sites which are pending E-Rate approval. A report will be given at the June 2007 Steering Committee meeting.

Tab 19 - Technical Services Tactical Retreat Report - Discussion

The regional priorities list will be reviewed at the retreat. Each T-Forum will present and review their priority list. A full priority list for Technical Services will then be compiled. The Technical Services Tactical Retreat will be held May 31, 2007 at UVSC in the Student Services Center, Room SC A&B. An agenda will be mailed out.

Tab 20 - Rural Utilities Service (RUS) Distance Learning Grant - Discussion

Last Spring as part of the Spring 2006 UEN Technical Services Retreat, regional service center Technology Coordinators and school district Technology Directors expressed an interest to replace aging video bridging equipment they have supported as part of the previous grant back in 2002. Three of the regional service centers are participating and USOE is also coordinating. The focus is on professional development and the ability to meet the needs of highly qualified teachers in the rural school districts. It also provides for special education programming, teaching endorsements, helping teachers use assessment data, and giving USOE the ability to conduct more specialist training via interactive video conferencing to save travel time and expense.

A site list has been finalized. The grant does require a match and the proposal is due on June 7, 2007. Some of the schools that have the older equipment now would like to be included. We will need to work through this. The financial request is \$500,000. CEU in Blanding and UVSC are both working on RUS projects. One involves the Utah Navajo nation. Utah has not received a RUS grant since 2004.

Please note: detailed information and discussion of the issues are included in the materials prepared for the meeting. These materials are available online at www.uen.org/steering/html/materials.html. Please refer to them for additional reference.

COMMITTEE OF THE WHOLE

T A B **29**
OTHER

WEB CONFERENCING RFP STATUS REPORT - DISCUSSION

Issue

UEN is pursuing licensing a Web conferencing and collaboration tool on behalf of all the higher education institutions. Licensing for K-12 use may be possible utilizing E-Rate funds.

Institutions, departments and individual instructors use a variety of Web conferencing solutions to deliver instruction and conduct remote location meetings. Products currently in limited use include Horizon Wimba Live Classroom, Adobe Acrobat Connect and Maratech. Licensing is ad-hoc and uncoordinated. Students and staff sometimes need to learn multiple systems to participate in various interactive events. A consortium license could provide cost savings as well as easier access and improved user experiences for participants.

Background

A working group has been collecting and prioritizing requirements for a tool that would support Web presentations, virtual whiteboard sessions, application sharing and live audio and video interaction. The solution should support courses being taught on the Vista course management system as well as ad-hoc meetings.

In the last legislative session, UEN received ongoing funding to provide a Web conferencing solution as part of the Higher Education Course Management System funding.

The working group is made up of representatives who volunteered from various USHE institutions:

Cory Stokes	UEN
Mike Petersen	UEN
Tim Stack	UEN
Randy Madsen	University of Utah
Elisa Taylor	USU
Jared Stein	Utah Valley State College
John Krutsch	Utah Valley State College
Ray Walker	Utah Valley State College
Scott Allen	Weber State University
John Armstrong	Weber State University

Trent Mabey	Snow College
Jared Johnson	Dixie State College
Gary Wixom	USHE
Derek Ponce	OWATC
Ryan Hobbs	SLCC
Casey Moore	SLCC

Salt Lake Community College provided a Web site where working group members could suggest and rank requirements. Participants submitted 216 suggestions (some redundant). Of the 216, the following twenty-seven items were ranked as absolutely required by all:

- ASP Hosted Option
- Integration with Blackboard Vista Course Management System
- Integration with existing registration systems
- Scalable
- Brandable
- Consortium Licensing / Affordability
- System compatibility with infrastructure
- Appropriate Bandwidth requirements
- Client Compatibility
- None or very limited required end-user plug-ins
- User authentication
- Record/Archiving sessions
- Easily Manage seats
- Session Content - Embedded digital media
- Session Content - Upload flexibility
- Session Content - Convert PowerPoint slides for presentation
- Participant Mgmt - moderation control
- Participant Mgmt - ability to identify and mute participants
- Polling/Quizzing - Quizzing tool
- Polling/Quizzing - Ability to track student progress
- Breakout Rooms - Flexibility
- Breakout Rooms - Content pre-load
- App/Desktop Sharing - Individual Apps
- Text Chat - Chat Capability
- Availability of Extended support (administrators)
- Availability of Extended support (participants)

- Adequate backup and restore

Taking all this feedback, sorting, editing, and adding requirements gleaned from other sources, Cory Stokes drafted an RFP issued by the University of Utah Purchasing Office June 8, 2007. Vendor proposals are due to U of U purchasing by July 19, 2007.

All proposals will be evaluated in a manner consistent with the Utah Procurement Code and all applicable rules and policies.

In the initial phase of the proposal evaluation process, the evaluation committee will review all proposals timely received. First, non-responsive proposals (those not conforming to RFP requirements) will be eliminated. Second, the remaining proposals will be evaluated in a cursory manner to eliminate from further consideration those proposals that, in the judgment of the evaluation committee, fail to offer sufficient and substantive provisions to warrant further consideration. At the conclusion of this initial evaluation phase, finalist supplier proposals will be selected for detailed review and evaluation, including oral presentations and solution demonstration.

At the same time the RFP is released UEN will begin filing the appropriate documentation and applications for E-Rate eligibility. Licensing for K-12 will depend on securing funding through E-Rate other sources.

Recommendation

This is a discussion item requiring no further Instructional Services Subcommittee action.

NETSAFE UTAH PROJECT RESULTS - DISCUSSION

Issue

This report summarizes the first year of the NetSafe Utah project and results. Project partners would like to continue the project next year if legislative funding is available again. The project has been quite successful, but there are always more parents and teens to reach with this important message.

Background

At the request of our education constituents including TCC, Utah Education Network convened several partners to plan a statewide Internet Safety effort targeted to parents and teens. Utah is one of the top states for households with computers and leads the nation in population of children. As Utah's educational technology network, UEN plays a key role in conveying the value of the Internet and promoting safe practices for Internet use. This project was statewide, addressing all citizens through broadcast, Web and print media. Local communities were engaged through screening events, presentations, a toll-free support number for parents, extensive Web resources and parent workshops.

The project, launched in February 2007, was a resounding success. The project had five goals:

1. Build awareness of Internet Safety issues among Utah parents
2. Provide Internet Safety print resources for parents
3. Provide Internet Safety Web resources for parents
4. Increase dialog about Internet Safety issues in homes and communities
5. Build a replicable collaboration model among partners that may be used for future initiatives

Project Partners included Utah Education Network, KUED-7, University of Utah College of Education, Utah Attorney General's Office, Utah State Office of Education and Netsmartz, a project of the National Center for Missing and Exploited Children.

Project Description

Using a broadcast town-meeting and community outreach, this project built awareness of critical Internet Safety issues for parents and teens. The project components included:

- One-hour broadcast town meeting on two public TV stations KUED-7 and UEN-TV
- Call in number for materials, materials packets mailed to homes
- Online Web destination for resources
- Online and in-person parent courses for parents developed by the University of Utah
- Publicity about the program and the issue (bus boards, newspapers, etc.)
- Year-long follow up outreach program with community meetings and speakers
- Leader outreach kit with materials, discussion guides, video clips and resources
- Monthly meetings to develop new partnerships and manage the project
- Formative and summative evaluation on the project

Results

All project goals have exceeded expectations. Publicity leading up to the project was great, with four local newspapers carrying articles about the project, and paid ads carried in nine publications. Our “Cybersafe Your Teens” message carried on 15 Utah public bus routes in February. 11,800 households watched the program, with an estimated 42,000 children reached. Over 4,000 parent packets have been distributed through community partners, and over 800 participants have joined one of our in-person presentations and indicated they would change rules at home as a result of our messages. One surprise was that many grandparents called in for information. This group wasn’t on our radar screen, so we have plans to expand the project next year to reach grandparents.

Once we began planning the project, we were able to obtain \$140,000 funding from a legislative program for prevention of sexual exploitation of children. The legislation was renewed due, in part, to the impact of our program.

Some firsts for this project are:

- First formal partnership with Utah PTA
- First online parent course for University of Utah College of Education, and a new research partnership was formed at the University to explore Internet Safety
- First partnership with Utah Attorney General’s Office and National Center for Missing and Exploited Children
- First collaboration of this kind between KUED and KUEN, including shared production/promotion responsibilities and shared budgets and reporting
- First presence of Internet Safety messaging in Utah Spanish newspaper *Mundo Hispano*

Budget

Personnel	In kind
Contracted fees including Web development and ½ time outreach specialist	61,651
Equipment, supplies, broadcast production and printing	72,789
Travel and training	5,560
TOTAL legislative funding	140,000

Project Web Site

www.netsafeutah.org

Recommendation

This is a discussion item requiring no further Instructional Services Subcommittee action.

GRANTS UPDATE - DISCUSSION

Issue

In addition to state and federal funds, UEN relies on foundation and grant funds to provide many programs and services. This report summarizes recently awarded, declined and pending grants.

Background

Pending Grants

Corporation for Public Broadcasting - Teaching American Civics Grant

Partners: Agency for Instructional Television, Utah State Office of Education, Twin Cities Public Broadcasting, Leo Eaton Productions, University of Utah Media Solutions

Description: Project will focus on developing multimedia civics content and an educator multimedia tool kit targeted toward middle and high school civics teachers. Utah will be the pilot test location with teachers selected by the USOE Civics Specialist. Media Solutions is the web developer for this project.

Rural Utilities Service Digital Translators for KUED and KUEN

Partners: KUED and KUEN

Description: This request will build out the digital broadcast translator system to key rural areas in Utah. Since the analog signal will go away in February 2009. Utah has the highest number of over-the-air viewers in the United States. KUED and KUEN share several of the towers and infrastructure in this request.

Rural Utilities Service Distance Learning and Telemedicine

Partners: Regional Service Centers and 17 Utah school districts, Utah State Office of Education, UEN

Description: This grant would provide distance learning IVC classroom equipment and a new MCU to support distance education teacher professional development programs in Utah's rural districts. The focus will be for teachers that need additional training to meet No Child Left Behind Highly Qualified Teacher status.

Corporation for Public Broadcasting – The STEM Collaborative Digital Support

Partners: Maryland Public Television, Alabama Public Television, Arkansas Education Television Network, Kentucky Educational Television

Description: The four stations listed above were awarded a grant to produce and distribute content for science, technology, engineering and mathematics education. UEN and other partners play a supporting role and will submit a proposal for additional funding for the digitization, metadata encoding, and other support functions for the content produced by the lead stations. This partnership benefits Utah in that we'd have additional content in high need areas. It will also bring resources for us to develop OAI Harvesting and metadata crosswalks with other large digital repositories.

Recently Awarded Grants

KERA Public Television - Little Bites, Big Steps Project

Partners: UEN, Utah Kids Ready to Read, Community Food Co-op of Utah

Award: 10,000

Description: This project is part of an early learning literacy, health, and fitness initiative developed by the public TV station in Dallas. Utah will support training 1,000 parents in 10 public libraries with tips on early literacy, child nutrition, and healthy living. UEN will provide mini grants to 10 libraries to implement the project, produce video segments for online and broadcast, and support workshops for librarians to learn the materials. UEN will also sponsor the monthly Harvester newsletter from the Crossroads Urban Center Community Food Co-op of Utah. This publication is distributed to over 4,000 Utah households and will feature a monthly article about a UEN service such as the GED, Pioneer Library, and exercise programs on TV.

Recently Declined Grants

Corporation for Public Broadcasting – Local Service Initiative

Partners: UEN, Utah State Office of Education, Utah Instructional Media Consortium

Description: This project was to add 140 primary grade mathematics programs in English and Spanish and American Indian books in six native languages to the digital asset management service called eMedia. Teacher training in targeted areas with low performance in math and American Indian students was included in the project.

Recommendation

This is a discussion item requiring no further Instructional Services Subcommittee action.

IVC POLICY NEEDS - DISCUSSION

Issue

UEN will be initiating an effort to overhaul distance learning policy now that the conversion of EDNET to IVC (Interactive Video Conferencing) is nearly complete and the UEN satellite system is also being converted to IVC technology.

Background

Several factors necessitate convening a group to revise UEN's distance education policies and procedures.

First, UEN has nearly completed moving to completely digital distance education systems. This creates an opportunity to propose extensive policy and procedure revisions that are consistent with the technological capabilities that are now available.

Second, price points for digital distance learning equipment continue to drop. As more institutions are able to afford their own systems, additional clarification on UEN supported systems and institution or school owned systems is needed.

Third, as we move toward individually scheduled events rather than centrally scheduled events, it's important that everyone involved agree to the same operating procedures and expectations. Additional discussion as the scheduling software pilot tests are completed will be important for successful distributed distance learning systems.

Next Steps

In the coming months Jeff Egly and Claire Gardner will be convening groups to review policy needs and bring recommendations to the appropriate committees. Please watch for calls for participation and help recruit the right individuals to make this process comprehensive and fair for everyone involved.

Recommendation

This is a discussion item. Subcommittee members should watch for additional information in the coming months.

PUBLIC EDUCATION AND HIGHER EDUCATION ADVISORY COMMITTEE REPORTS - DISCUSSION

Issue

Doug Jones, representing the Public Education Advisory Committee and Cyd Grua, representing the Higher Education Advisory Committee will provide an update on recent committee activities.

Background

Members of the Public and Higher Education Advisory Committees met jointly on June 1st at the Board of Regents Gateway offices. Agenda items discussed at the meeting include:

1. Web Conferencing RFP
2. Professional Development Activities for Higher Education
3. Higher Education Distance Learning Course Resources Vendor Showcase scheduled for September 13th
4. CollegeMedia
5. UEN Service Catalog
6. Course Management Systems / Alternatives

Recommendation

This is a discussion item requiring no further Instructional Services Subcommittee action.

UENSS CONVERSION REPORT - DISCUSSION

Issue

Numerous activities are currently underway to convert the UEN Satellite System to Interactive Videoconferencing technology. We are on target to complete the transition in time for the beginning of Fall Term.

Background

Utah State University has notified SES Americom, from whom we have leased the satellite space segment, that we will cancel our contract at the beginning of FY 2008. We are planning to pay for the space segment during July and August to complete courses taught during the summer.

The classroom implementation phase of this project is progressing well with over 100 new IVC classrooms installed. UEN and USU have two thirds of the classrooms converted and we are currently on track to meet an August 1st deadline.

UEN Application Engineering is working with RADVision to address performance issues with the new RADVision Scopia MCU, but is prepared to support fall classes with existing RADVision Viap400 if necessary.

Changes to the Salt Lake and Logan Video Operation Centers (VOCs) are underway. Utah State University and UEN are working together to transition Logan VOC staff to UEN. The Logan VOC space is currently being remodeled to better support the new IP based video network.

A hiring committee has been assembled to begin interviewing candidates for the new Tier Two VOC positions; in addition interviews are currently underway for the Interactive Video Conferencing Operations Administrator position that will manage the two Video Operations Centers.

Network improvements required to accommodate the bandwidth needs for the UENSS transition to Interactive Video Conferencing (IVC) are proceeding well, with wide-area-network improvements recently completed by Qwest to the Bridgerland ATC-Utah State University Brigham City Campus.

Training throughout the state for classroom facilitators and instructors continues and UEN Scheduling is currently working with USU Scheduling to insure Fall semester class schedules are scheduled into the system as early as possible.

Recommendation

This is a discussion item requiring no further Technical Services Subcommittee action.

PHASE III AND IV ETHERNET UPDATE - DISCUSSION

Issue

Phase III and IV Ethernet Update

Background

Progress on Phase III ramped up again this spring, a number of sites within this project required permits and excavation related to on-site improvements. As of this report the bulk of this work has resumed and UEN has quickly reached the mid point of this project. Currently 26 of 51 of the Phase III Ethernet improvements have been completed and we anticipate that the bulk of Phase III will be completed by late summer.

Engineering designs have been completed for all Phase IV sites and priority has been give to a few Phase IV sites directly affected by the increased bandwidth needs of the UENSS to IVC conversion project in an effort to complete these network improvements by August 1, 2007. However, some of the expedited improvements will be delayed as issues with permitting and right-of-way are addressed.

Site surveys are progressing for all remaining Phase IV sites and should be completed by the end of summer.

Network equipment for all of Phase IV sites has been received and inventoried by the UEN Network Operations Center.

Recommendation

This is a discussion item requiring no further Technical Services Subcommittee action.

FY 2008 REGIONAL PRIORITIES DEVELOPMENT - DISCUSSION

Issue

Development of the FY 2008 Regional Priorities List

Background

This spring meetings have been held in each of the eight regions of the state to develop regional priority requests. This process is now in its fifth year.

On May 31, 2007, UEN convened a meeting for the purpose of presenting these regional priorities. Steering Committee members, representatives from each of the eight regions and UEN staff members were present. Each region was given time to make a presentation.

These regional priorities were compiled into a consolidated list. This consolidated list was presented toward to end of the meeting and each region was given an opportunity to review and edit.

UEN staff will analyze this list over the next two months. Priorities will be applied as directed by the Steering Committee. We will also analyze resource needs and begin making assignments as appropriate. This analyzed and refined list will be presented at the August Steering Committee meeting.

Recommendation

This is a discussion item requiring no further Technical Services Subcommittee action.

TAB 6 ATTACHMENT A

FY 2008 REGIONAL PRIORITIES LIST - DRAFT

1	Retain BJ Peterson (UEN FUNDING)	CUES
2	Advocates	CUES
3	Ethernet to Elementary Schools	CUES
4	Network Security -All that UEN can provide in training and regional support	CUES
5	Security Audits at Districts that include Superintendents	CUES
6	Network Tools - Access to existing tools and the implementation of additional flow tools and performance monitoring	CUES
7	New Complex IVC classroom at Tintic High School to support needs of West Desert School	CUES
8	Assist Piute district with fiber solution to Circleville Elementary	CUES
9	More regionally provided technical training	CUES
10	Complete WAN improvements to West Desert and Calleo - in process	CUES
11	Complete WAN improvements to Wayne School District - in process	CUES
12	Dedicated 8E6 appliance for CUES - Currently shared with Sevier School District	CUES
13	Network reliability/redundancy	CUES
14	Elementary School Funding	DAVIS
15	IVC upgrades	DAVIS
16	Satellite conversion to IVC	DAVIS
17	Ethernet Phases 3 & 4 completion	DAVIS
18	Diverse connection to Weber School District	DAVIS
19	Weber State Satellite Campus Connections	DAVIS
20	Weber School District Ethernet Improvements	DAVIS
21	Davis - GeoMax, Freeport to Richfield data center - Bid, contracted, in process	DAVIS
22	Ogden - GeoMax to middle schools, in process, phase IV	DAVIS
23	OWATC - Ethernet to all three locations (Main, BDO and Roy) (Phase IV) - In Process	DAVIS
24	Utah Schools for the Deaf and Blind - Ethernet to Ogden, Salt Lake (move to Holladay) and Orem campuses (Phase IV) - In Process	DAVIS
25	WCPL - QMOE to Main campus, new Adams Avenue campus and UEN core, part of phase 4.75, awaiting SLD funding	DAVIS
26	Weber - Canyon View School (place on next RFP/bid) - Bid done, part of phase 4.75, awaiting SLD funding	DAVIS
27	Weber - Elementary schools in Phase III - In process, 60% done (as of 5/16/07) Weber #1	DAVIS
28	Elementary Point-to-point fiber: Country View, Roosevelt	DAVIS
29	WSU - Establish permanent workable solution for Davis campus, in process	DAVIS
30	ALL - IP Video site conversions - In process	DAVIS
31	ALL Replacement of UENSS with IP/IVC (interactive Video Conferencing) - In process	DAVIS
32	All - remove LSS, almost done, once GeoMax is up at WSU Davis	DAVIS
33	Establish permanent working Davis/Weber T-forum mailing list solution	DAVIS
34	Davis and Weber SD - Coordinate video content solutions, In process	DAVIS

35	USDB - Consolidation of two SLC campuses at old BYU SLC center in Holladay	DAVIS
36	WSU - support 24/7 nature with robust connectivity	DAVIS
37	ALL - Coordination of IT training. Involve USU T-forum for Northern Utah network and IT training. On Going	DAVIS
38	Completion of Gigabit WAN Ethernet projects for district offices and schools in Rich, North and South Summit, Morgan and Park City Districts (Phase 4)	NUES
39	Upgrade OC-3 capacity out of the Uintah Basin to Gigabit Ethernet	NUES
40	NUES physical network redundancy to NUES building and region	NUES
41	Network redundancy to individual district offices	NUES
42	UCAT distance learning classrooms at new USU/Vernal campus NUES (4/08)	NUES
43	New WAN circuit into new USU/UCAT Vernal campus, plus fiber move of existing connection into UCAT annex building (4/08)	NUES
44	Improved network bandwidth to district elementary schools where needed	NUES
45	Ethernet services for Ecker Hill Middle School in Park City NUES (7/07)	NUES
46	Fiber replacement of copper 10/100 link to UBTA router at UBATC MDF	NUES
47	RUS Distance Learning Grant for NUES, Daggett, and Duchesne Districts	NUES
48	IP Addressing policy for NUES region per SURIN	NUES
49	Continued technical training per priorities identified by districts (IP Control, etc.)	NUES
50	Continue funding for regional UEN supported positions	NUES
51	Elementary Connectivity (start with a site survey for each elementary school and then secure funding)	SEDC
52	Ethernet service to Pine View Middle (if possible connect to PVHS)	SEDC
53	Ethernet service from Dixie Middle to Dixie High School	SEDC
54	Ethernet service to Hurricane Intermediate	SEDC
55	Ethernet service to Desert Hills High School (new school)	SEDC
56	Ethernet service to Eskdale	SEDC
57	Ethernet from Fossil Ridge to Millcreek High School	SEDC
58	Additional bandwidth for Big Water	SEDC
59	Additional bandwidth for Lake Powell	SEDC
60	Ethernet for E-valley	SEDC
61	Ethernet for Escalante Elementary	SEDC
62	Ethernet for Kanab Elementary	SEDC
63	Ethernet for Little Valley	SEDC
64	Ethernet for Tonaquint (new school in Washington)	SEDC
65	OTDR to be housed in the region	SEDC
66	An additional fiber fuser	SEDC
67	Continue to provide Tech Summits	SEDC
68	Provide funding for additional regional personnel	SEDC
69	Continue to provide high-end technical training (CCNA, Firewall Implementation, VLANs, etc.) on a district and regional basis	SEDC
70	Involve district and regional staff in all aspects of implementing, maintaining and troubleshooting WAN connections	SEDC
71	Actively support regional T-Forums and the SWATT meetings	SEDC
72	Actively participate in the State-Wide TCC	SEDC
73	Actively help to develop relationships between local telcos and the districts	SEDC

74	Develop a wireless policy and procedures for schools	SEDC
75	Fund Elementary school connections	SESC
76	Support continued district and region ITC workshops	SESC
77	Support continued technical training workshops (I.e. ccna, etc)	SESC
78	Fund an IVC bridge in SESC region	SESC
79	Continue funding for regional UEN supported positions	SESC
80	Provide redundant path for the southeast region	SESC
81	Upgrade Cisco Pix firewall boxes at the district connection point to UEN backbone	SESC
82	Working with the University of Utah on a solid plan for Vista migration. This needs to start very early so IT is not caught off guard, and more importantly so the faculty and students experience as transparent as possible a migration process	SLCC
83	A more active role in the University of Utah networking community Having an individual regularly attend technology governance meetings (ITAC) and campus network design planning meetings (NeRF) would help both U of U and UEN in moving together on changes and network technology innovations	SLCC
84	Richfield Center and Disaster Recovery - UEN plan for how to provide lambda access all the way to U and to Richfield	SLCC
85	Plan for upgrading past Gig to some of the other institutions	SLCC
86	Emergency notification plans which are in place or are in planning stages. Create Committee or focus group	SLCC
87	Watch the school district split issue closely in light of shared spaces and other services such as hub locations in district offices - prepare for gotchas.	SLCC
88	Elementary school connectivity	SLCC
89	Verify status of Ethernet upgrades, make sure schools have not been missed	SLCC
90	USU - Vista - In process (high)	USU
91	Satellite conversion	USU
92	USU - Connectivity to Richfield data center. It is recommended that 10 GigE backbone be pursued for this rather than running separate connections.	USU
93	10 Gbps connection	USU
94	Internet PoP in Northern Utah	USU
95	Dark fiber for Research and CHPC	USU
96	Elementary connectivity	USU
97	Complete secondary connectivity for Box Elder	USU
98	Box Elder - Completion of Ethernet for Bear River HS (Phase IV) - In process	USU
99	Box Elder - Completion of Ethernet to remaining middle schools (Phase IV, Grouse Creek and Park Valley phase III) - In process (high)	USU
100	Bridgerland ATC - Ethernet to Logan and Brigham City campuses (Phase IV) - In Process (high)	USU
101	Cache - Lewiston (Conterra) and Canyon (Qwest) elementary installs (Phase IV) - In process (high)	USU
102	Logan - Elementary schools (Conterra) phase IV, Hillcrest (Qwest) (Phase 4.75) - In process, Hillcrest awaiting SLD funding (high)	USU
103	USU - Brigham City Campus - Ethernet	USU
104	All - IVC/IP video upgrades (high)	USU

105	All - upgrade backbone to 10GigE (high)	USU
106	Box Elder - Point-to-point fiber, Garland, McKinley and North Park Elementaries. Phase III, in process (med.)	USU
107	Box Elder - UTOPIA plan, elementaries and future secondary connectivity (med.)	USU
108	Cache - Mendon Elementary - place on next RFP (med.)	USU
109	USU - Internet POP - no technically or financially viable solutions found in last RFP (Fall '06 for FY '08), needs to be re-bid for FY'09 (med.)	USU
110	Alpine/Nebo - Complete Ethernet projects, Phase IV CentraComm (High Priority)	UVSC
111	Alpine District IP's (High Priority)	UVSC
112	UVSC - Internet POP (low Priority)	UVSC
113	UVSC All - Higher Bandwidth or Ethernet to all schools K-12 (High Priority)	UVSC
114	Nebo - Alternate path to UVSC - Gig link through SF and iProvo, not adequate with Phase IV. (place on next bid) (High Priority)	UVSC
115	Nebo - additional T1's for Jr. HS as needed while waiting for funding/ completion (Low Priority)	UVSC
116	UVSC - Vista Complete?	UVSC
117	UVSC - diverse path to CEU (Medium Priority)	UVSC
118	UENSS - Replacement of IVC/IP Video (High Priority)	UVSC
119	UVSC - connectivity Canyon Park, Novell Campus (High Priority)	UVSC
120	UVSC - Rainbow Ranch, Capital Reef High Priority)	UVSC
121	Nebo - Elementary Schools	UVSC
122	UVSC - MATC campus/Thanks Giving Point (High Priority)	UVSC
123	Alpine - 100 MB radio from Lone peak to Mtn Ridge (High Priority)	UVSC
124	All - SAINT/Web Server (Low Priority)	UVSC
125	Nebo - Salem HS (New School) Jan 15, 2008 (High Priority)	UVSC
126	Alpine Saratoga, Shores HS, 2009 (Low Priority)	UVSC

CHARTER SCHOOL SECURITY AND SUPPORT - ACTION

Issue

Charter schools connected to the Utah Education Network are experiencing an increase in security related incidents. The ability of UEN Security Operations staff to manage these incidents is increasingly difficult due to a lack of security and network points of contact and mitigation.

Background

Over the past year, the number of Charter Schools connected to the network has increased. These schools have limited budgets and experience significant challenges in supporting technology. Consequently, charter schools are becoming a major security concern that needs immediate attention.

The first major issue is the lack of firewall technologies to protect Charter School networks. Many charter schools do not have an adequate firewall solution in place to protect the network infrastructure, and more specifically, sensitive student information and resources.

Additionally, most Charter Schools do not have a specific technical or security point of contact who is responsible for network security. This makes it difficult to manage security and network related events at charter school campuses. Consequently, compromised machines are sometimes left on the network increasing security risks for all other members of the network.

These issues combine to pose a significant risk to the charter schools and also require significant time and effort on the part of Security Operations staff at UEN .

Recommendation

UEN staff requests direction from the Steering Committee to deal with security issues at charter schools. It is clear that security weaknesses at charter schools are compromising the UEN network and that a security policy for charter schools must be developed.

