

# Utah Education Network Steering Committee

October 28, 2005

**UTAH EDUCATION NETWORK  
STEERING COMMITTEE**

**A G E N D A**

**OCTOBER 28, 2005**

9:00 a.m. -  
10:00 a.m.

**Committee of the Whole**

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

Steering Committee Meeting - December 16, 2005, 9:00 a.m.

Instructional Services Subcommittee Meeting - December 16, 2005, 10:00 a.m.

Technical Services Subcommittee Meeting - December 16, 2005, 10:00 a.m.

Steering Committee Meeting - February 17, 2006, 9:00 a.m.

Instructional Services Subcommittee Meeting - February 17, 2006, 10:00 a.m.

Technical Services Subcommittee Meeting - February 17, 2006, 10:00 a.m.

***Please place these materials in your Steering Committee Binder.***

**FY 2007 BUDGET REQUEST - ACTION****Issue**

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The FY 2007 UEN budget request requires approval by the Steering Committee before submittal to the Legislature for its consideration. UEN staff has worked on the planning and development of this year's request in cooperation with UEN stakeholders. The request will be presented to the State Board of Regents on October 27th, and because the deadline for submission of budget requests to the Governor's Office of Policy and Budget (GOPB) was September 30th, a preliminary draft of budget priorities has already been submitted to the Governor's Office.

**Background**

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Economic conditions in the state for this year continue to be solid. Analysts are projecting that a substantial amount of one-time funding over last year will be available for State appropriations. Also, FY 2006 revenue collections are coming in ahead of target suggesting continued growth in available revenue for FY 2007.

**Major FY 2007 Budget Issues****Salaries**

Statewide funding increases for salary and benefit adjustments for State employees, public education and higher education are made by the Executive Appropriations Committee. Nonetheless, additional funding is requested above the statewide salary adjustment for FY 2007 for retention of crucial technical staff. Private firms continue to attract key personnel because UEN salaries for technical staff are running 25% to 35% below market. In the last six months, three network engineers left the Network Operations Center (NOC) for 40 to 50 percent salary increases. **The request of \$150,000 is essential for technical staff retention.**

**Priority 1: Conversion of \$1,300,000 in One-Time Funds to On-Going**

For the past three years, increasing network bandwidth has been UEN's top strategic priority. Consistent support from the Governor and the Legislature has assured significant progress in keeping up with that growth. State appropriations have been leveraged with Federal E-Rate reimbursements at a two to one ratio to upgrade Internet connectivity to high-speed Ethernet bandwidth capacity. With these funds, UEN has completed approximately two-thirds of the project.

The Legislature recognized the ongoing commitment required to fund the multi-year nature of this project when the following intent language was adopted:

*“The Legislature intends that \$1,500,000 in one-time funds provided for network capacity and reliability be used for multi-year contracts with telecommunications service providers.”*

Of the \$1.5 million one-time appropriation for FY 2006, **it is requested that \$1.3 million be converted in FY 2007 to ongoing funds to pay the on-going circuit charge expenses associated with long-term contract obligations entered into by UEN in FY 2006.**

### **Priority 2: Course Management System (\$2,836,000)**

**UEN is requesting \$2,836,000 in State funding to install a centralized Course Management System in FY 2007. Reflected in this figure is \$2,200,000 in one-time funds and \$636,000 in ongoing money.**

To meet the needs of today’s college students and their instructors, higher education needs to be available 24/7 and wherever the student happens to be. That means providing a Course Management System (CMS) that can be used in every class at every college and university in the System. Course Management Systems are Internet applications that allow students and faculty to complete most course tasks online from any location and at any time.

WebCT Vista is the best course management tool available. It has been tested on a pilot basis by UEN and USHE for the past two years, and was independently selected at Weber State University and SLCC. It was the winner in a head-to-head evaluation conducted by USHE technical and instructional experts this summer. It is centrally-deployed and hosted at UEN so it provides a cost-effective and powerful tool for the entire higher education system.

WebCT Vista extends a course and its activities beyond the classroom to any location at any time. Students connect via the Internet to each other, their instructors, learning activities, shared research materials, library resources, and even textbooks. Integration with campus administrative systems provides automated enrollment and grade reporting. Faculties supplement their teaching with powerful online tools, increasing contact between students, the instructor, fellow students, and information.

Employing WebCT Vista centrally at UEN has many advantages. It:

- Improves access to education for students. Students anywhere in the state have the flexibility to access high-quality learning opportunities at different institutions over the Internet at any time.
- Enriches the quality of educational programs. Through content sharing, the quality of course content is enriched through cooperative faculty partnerships and professionally developed materials that may be shared in numerous classes statewide.
- Supports higher enrollment levels within the existing campus infrastructure. Through online instruction, future investments in classroom space can be reduced.

- Improves graduation and retention rates. Classes can be enriched so student interest is maintained, the appropriate level of instruction is provided to individual students, and student satisfaction and retention increases.

The USHE supports implementing WebCT Vista at UEN. An enterprise-level deployment provides significant cost savings to the State, compared to the expense if a comparable system were duplicated with the required staff, software licensing, and equipment at each institution. USHE can benefit from a \$2.9 million savings in the first year if WebCT is purchased and hosted centrally by UEN. The savings by institution are illustrated in the following table:

### Solution Comparison Enterprise Vs. Institution Installation

Institution	Enterprise Installation	Institutional Installation	Cost Saving (Avoidance)
University of Utah	\$328,400	\$873,400	(\$545,000)
Utah State University	\$238,400	\$889,800	(\$651,400)
Weber State University	\$189,400	\$253,000	(\$63,600)
Utah Valley State College	\$256,800	\$889,800	(\$633,000)
Salt Lake Community College	\$174,400	\$761,200	(\$586,800)
Southern Utah University	\$175,200	\$428,000	(\$252,800)
Snow College	\$142,000	\$382,900	(\$240,900)
Dixie State College	\$181,800	\$446,500	(\$264,700)
College of Eastern Utah	\$102,700	\$307,500	(\$204,800)
Utah College of Applied Technology	\$178,100	\$456,500	(\$278,400)
Utah Electronic College	\$0	\$0	\$0
Utah Education Network	\$868,800	\$0	\$868,800
<b>TOTAL</b>	<b>\$2,836,000</b>	<b>\$5,688,600</b>	<b>(\$2,852,600)</b>

Implementing a centralized course management system would realize a reduction in State funding primarily in the following cost categories:

- Provides a 40% discount for the group license at a savings of \$754,900 versus individual institution purchases and implementation
- Avoids duplicate technical staff to operate and maintain individual campus systems (\$781,600).
- Reduces capital investments in computer hardware and equipment (\$652,000)
- Avoids Oracle Database upgrade at each campus (\$320,000).

### **Priority 3: Continued Investment in Network Infrastructure**

UEN requests funding to continue upgrading network connectivity to high-speed Ethernet bandwidth capacity for district offices and about 60 remaining public education and charter secondary schools and applied technology colleges. **The FY**

**2007 budget request of \$1,500,000 in ongoing State funds will be leveraged with \$3.0 million in Federal E-Rate funding to help finance this project.**

Growth of traffic on the state's education network is staggering. Over the last five years, the volume of Internet traffic doubled every 18 months. UEN's greatest challenge is to ensure that there is sufficient network capacity or bandwidth to accommodate the demand for essential services to students in Utah's higher education and public education systems.

UEN has completed approximately two-thirds of this remarkable network infrastructure upgrade project, and will finish additional schools in the next year. Working with Qwest and rural telephone companies, the project is increasing network backbone capacity throughout the state to a high-speed networking architecture, and should accommodate the growth of Internet traffic for the next 20 years.

The current status of the network infrastructure enhancement project is as follows:

- All higher education institutions are now connected to the UEN backbone with Gigabit capacity fiber connections.
- By November of this year, 77% of all district offices, 60% of all secondary schools and 33% of all elementary schools in the state will have high-speed Ethernet broadband network connectivity. This is a total of 343 schools (44%) statewide.
- Contracts have been awarded and federal E-Rate approval received to complete the third phase of the project. A total of 81 schools in 15 districts will have network capacity expanded to 100 mb/s to 1000 mb/s during calendar year 2006.

**Priority 4: Strengthen EDNET with Powerful New IP-Video Technology**

Funding is requested for FY 2007 to fund phase three of a four stage project to convert 70 EDNET classrooms to IP-based videoconferencing technology. **The FY 2007 budget request is for \$800,000 in one-time funds and \$200,000 ongoing to pay maintenance and support contracts.** State funds will be leveraged with \$200,000 from the federal E-Rate program and from grants.

The EDNET interactive videoconferencing system is an invaluable tool for bringing college and high school classes to students who would otherwise not be able to take those courses. EDNET was built using broadcast analog technology, which is now obsolete and will become unusable on the network within the next two years.

During the past two legislative sessions, UEN received \$1 million in one-time funds to begin the necessary conversion to an Internet-based videoconferencing system. These funds have been augmented by federal grants and by the federal E-Rate program. For every \$1 dollar the State contributes to the EDNET conversion project, UEN has received \$1.33 in federal funds.

By the end of FY 2006, about 60 percent of the classrooms will have been upgraded to the new video technology. In addition, high-capacity IP video conference bridging equipment has been installed at six locations throughout the state and a new management software system has been implemented to manage scheduling and operation of the new videoconferencing system.



### **Summary of FY 2007 Budget Request**

The proposed UEN budget for FY 2007 and funds required for the identified projects is shown in the following Budget Summary Table.

### **Utah Education Network FY 2007 Budget Summary**

<b>Priority</b>	<b>Description</b>	<b>On-Going</b>	<b>One-Time</b>	<b>Total</b>
1A	Critical Staff Retention	\$150,000		\$150,000
1B	Network Infrastructure (One-Time to On-Going)	\$1,300,000		\$1,300,000
2	Course Management System	\$636,000	\$2,200,000	\$2,836,000
3	Network Infrastructure (Phase 4)	\$1,500,000		\$1,500,000
4	IP Video (EDNET)	\$200,000	\$800,000	\$1,000,000
	<b>FY 2007 Funding Request</b>	<b>\$3,786,000</b>	<b>\$3,000,000</b>	<b>\$6,786,000</b>

## **Recommendation**

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It is recommended that the UEN Steering Committee take action on the following items:

1. Review the proposed budget priorities and the recommended FY 2007 budget request of \$3.786 million in state ongoing funds and \$3.0 million in one-time state funds.
2. Adopt the budget request and support its consideration and approval by the State Legislature and Governor during the 2006 Legislative Session.

## CYBERSECURITY AWARENESS MONTH REPORT - DISCUSSION

### Issue

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October was nationally designated as Cybersecurity Awareness Month. A summary of Utah activities is included below.

### Background

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In an effort to promote best practices for security, the Utah Informational Technology Services department, along with UEN and other IT providers, designated October as Cybersecurity Awareness Month in Utah.

UEN promoted this on the home page with a lead story feature and picture. During the first week of October 19,224 visitors came to [www.uen.org](http://www.uen.org) in the first week of October. An article featuring Cybersecurity Awareness was included in the October NetNews e-newsletter which was received by 12,752 recipients. In addition, Rick Gaisford promoted a K-12 video event with Utah school districts.

Troy Jessup from UEN attended a proclamation signing with Governor Huntsman on September 29, 2005 along with State ITS personnel.

While we recognize that Cybersecurity is an ongoing effort, UEN was pleased to join with State ITS to bring additional attention to this important issue.

### Recommendation

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This is an information item requiring no further Steering Committee action.

**CHARTER SCHOOLS - DISCUSSION****Issue**

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In the August 26, 2005 Instructional and Technical Services Subcommittee meetings, the need to better understand the charter schools organization and the role UEN should perform in providing services was discussed briefly. It was determined that the Steering Committee devote more time to an in-depth discussion at the October, 2005 meeting.

**Background**

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All UEN services are feeling the impact of the charter school growth. As the number of charter schools increase, UEN services are requested and stretched to accommodate those requests. This is having repercussions on the Network, the IP video conversion project, the increased utilization of Instructional Services offerings (ie: Professional Development), and on the rapidly increasing requests for technical support at the LAN level.

Charter schools are alternative, taxpayer-funded public schools that are meant to offer unique learning experiences for students. In 1998, the legislature authorized the organization and management of these special schools and in 1999 the first seven charters opened their doors. There are 38 charter schools today and 50 charter schools will open their doors to 18,000 students at the beginning of the 2006-2007 school year. The pace of development of charter schools has not been anticipated nor included in UEN planning documents, nor has it been adequately funded.

Attachment A is from the September, 2005 Charter Schools in Utah Annual Report. These materials will provide the Steering Committee members with background information on charter schools in Utah, their growth, map with locations, student demographics, and the objectives and guiding principles of the Utah Association of Public Charter Schools.

UEN has developed an interim statement of Basic Internet and Interactive Video Conferencing Services for the charter schools (See Attachment B). This statement does not address the impacts on UEN staffing and financing of the network needed to provide the proffered services. A sample of a problem UEN faces is providing the Internet connection to a charter school. Each charter is its own school district. It has no district infrastructure and personnel to deal with problems which are bigger than the building. UEN provides the necessary router, its connection to a circuit, and its installation. It is the responsibility of the site to take it from there – to create a local area network, to attach computers, to maintain their own equipment, and to

troubleshoot their own problems. In most instances the LAN computer support and maintenance person is the computer teacher or a part time volunteer. The teacher has no network experience. The person is not available when the problem occurs. The first call goes to UEN Network Operations Service Desk. UEN staff spend many hours troubleshooting in sites outside of our scope of responsibility. This is the type of scenario which needs further discussion and development of policy solutions. It was previously agreed that a member of the charter school community be added to the membership of the Instructional Services Subcommittee. It has also determined that a member of the charter school community become a member of the Utah Technical Coordinators Council.

## **Recommendation**

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It is recommended that a joint committee of UEN Technical and Instructional Subcommittees and TCC be created to further study the impacts of charter school growth on UEN and to develop plans and funding strategies to meet our mutual needs.

**TAB 22 ATTACHMENT A**  
**CHARTER SCHOOLS IN UTAH ANNUAL REPORT EXERTS**

**Charter Schools in Utah**  
*Enhancing our public education system*



**Annual Report**  
Prepared by the  
Utah Association of Public Charter Schools  
September 2005

# Utah's Charter School Community

*Enhancing our public education system*

**F**ifty charter schools will open their doors to 18,000 students when the 2006-07 school year commences...brisk growth since Utah chartered its first schools six year ago.

**U**tah's experiment is working. Charter schools are thriving. They are bringing additional diversity and flexibility to our public education system; they are helping us to expand the programs offered to our students. They are helping us to more effectively meet the individual needs of our children.

Charter schools are accomplishing their purpose as set forth by the Utah Legislature by continuing to improve student learning, establishing new models of public schools, encouraging the use of different and innovative teaching methods, providing more flexibility for parents and students in public education, creating opportunities for teachers to participate actively in the design and implementation of learning programs, and providing opportunities for greater parent involvement.

**U**tah's charters are diverse; every learning community is unique. Some of our schools engage students through a particular interest such as arts-based education at Tuacahn High School for the Performing Arts, Salt Lake Arts Academy and Moab Community School. Academically-at-risk students are served at the Conceive-Believe-

Achieve Center, East Hollywood High, Success School and Fast Forward. Students seeking an accelerated "early college" experience can attend one of the six college partnership high schools. Dual language or bilingual education is offered at three schools in Davis county. Uintah River High School provides a specialized educational opportunity for young people of the Ute Tribe. The deaf-education program at Jean Massieu School has been so successful the school has been incorporated into the state's School for the Deaf & Blind. And next year, Spectrum Academy will open



its doors to children diagnosed with Asperger Syndrome and other communication and sensory disorders. Finally, schools with a focus on rigorous academic elementary and junior high programs are becoming popular and will represent more than half of all

Utah charter schools by the fall of 2006.

**C**harter schools offer a variety of approaches to learning. Curriculum choices include the Core Knowledge sequence that develops cultural literacy for kindergarten through 8<sup>th</sup> grades, the highly-rated Interactive Mathematics Program for secondary students and the International Baccalaureate Program for elementary and middle schools.

Charters offer a variety of teaching modes such as the interactive, hands-on environmental pedagogy employed at Soldier Hollow



Charter School. East Hollywood High uses film and multimedia production to engage its students. Walden, Paradigm High and American Leadership Academy employ the Socratic method as a central element of their educational programs. Investigative or project-based learning drives learning at AMES, City Academy, Walden and the DaVinci Academy of Science & the Arts.

Minnesota developed the nation's first charter school law in 1991. Today, 40 states have charter legislation and there are more than 3,400 charter schools in existence. Starting in 1999, Utah has jumped in with both feet by legislating a state chartering board and removing the cap on the numbers of schools that may be authorized. Charter students are anticipated to comprise 4% of Utah's total student population in 2006-07.

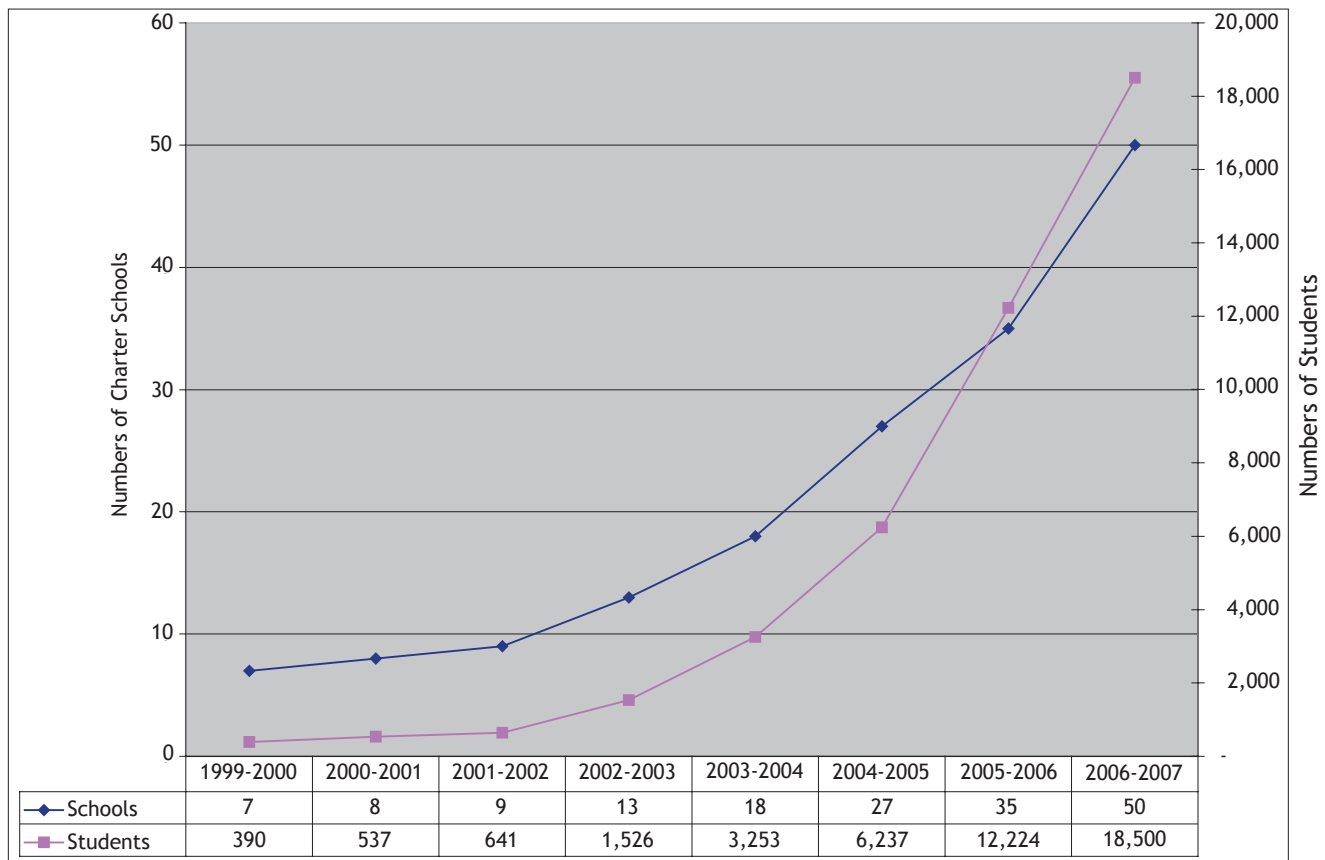
Most of our charter schools are clustered on the Wasatch Front from Logan to Spanish Fork. Charters have sprouted in rural areas as well, from the Uintah River High School in Ft. Duchesne, Moab Community School,

Millard district's Conceive-Believe-Achieve Center in Delta, to the Tuacahn High School for the Performing Arts and the new George Washington Academy in Washington County.

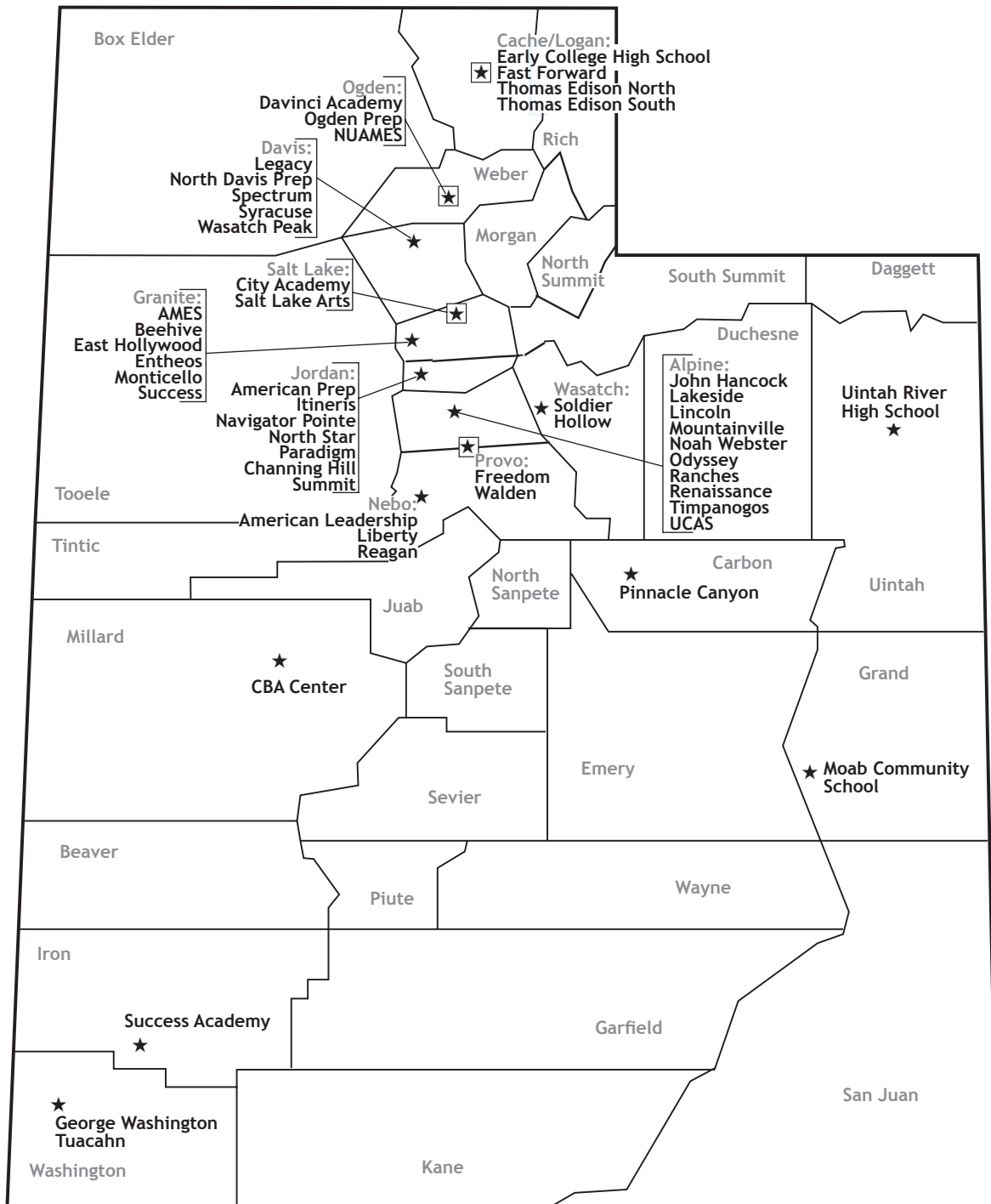
After six years of the charter experience, student demographics are beginning to look similar to traditional districts. Our percentages of special education, economically disadvantaged and minority student populations move closer each year to local district percentages (see table on page 4).

The charter school community is grateful to the state of Utah and the Utah Legislature for giving us a chance to prove ourselves. We appreciate the great strides that have been made in narrowing the funding parity gap. We are grateful to the Utah State Office of Education for developing the means to assimilate charters into the public education fold and for providing the support and expertise to help us be successful. We look forward to many more years of improving our programs and continuing to meet the needs of individual students.

### Utah Charter School Growth 1999-2007



# Utah's 50 Charter Schools & 40 School Districts for FY07





## Utah Charter School Student Demographics

FY05 Charter School Data	Enrollment	Percent Special Ed	Percent Disadvantaged	Percent Minority	Grade	Year of Operation	District Location
Academy of Math, Engineering & Science - AMES	394	8%	35%	29%	9-12	2	Granite/Salt Lake
American Preparatory Academy	504	7%	2%	5%	K-9	2	Jordan
CBA Center	38	26%	66%	13%	9-12	6	Millard
City Academy	183	19%	52%	25%	7-12	5	Salt Lake
DaVinci Academy of Science & the Arts	232	5%	37%	15%	9-12	1	Ogden/Weber
Dream Charter School	44	0%	52%	43%	9-12	2	Granite
East Hollywood High School	146	5%	45%	19%	9-12	1	Granite
Fast Forward	204	25%	49%	12%	9-12	3	Logan
Freedom Academy	401	4%	40%	13%	K-8	2	Provo
Itineris Early College High School	80	0%	20%	23%	11-12	1	Jordan
Jean Massieu Charter School	50	78%	0%	18%	K-7	6	Jordan
John Hancock Charter School	184	11%	29%	10%	K-8	3	Alpine
Moab Community School	72	17%	65%	17%	K-6	1	Alpine
North Davis Preparatory Academy	476	2%	19%	18%	K-6	1	Davis
N Utah Academy for Math, Eng & Sci - NUAMES	262	4%	16%	13%	9-12	1	Davis/Ogden/Weber
Ogden Preparatory Academy	279	14%	59%	34%	K-8	2	Ogden
Pinnacle Canyon Academy	317	14%	41%	11%	K-8	6	Carbon
Ranches Academy	340	7%	25%	7%	K-6	1	Alpine
Salt Lake Arts Academy	215	8%	10%	22%	5-8	2	Salt Lake
Soldier Hollow Charter School	70	10%	11%	7%	1-6	6	Wasatch
Success School	112	22%	18%	54%	9-12	6	Iron
Summit Academy	536	7%	9%	7%	K-6	1	Jordan
Thomas Edison Charter School - North	344	8%	0%	5%	K-8	3	Cache
Timpanogos Academy	403	5%	5%	8%	K-8	3	Alpine
Tuacahn High School for the Performing Arts	185	4%	9%	4%	9-12	6	Washington
Uintah River High School	57	1%	87%	96%	9-12	6	Uintah
Walden School of Liberal Arts	103	10%	33%	13%	7-10	1	Provo
averages for 27 charter schools ->		9%	25%	15%			
averages for 40 school districts ->		14%	34%	17%			

## Parent Satisfaction Survey Results

School	Years in Operation	% Satisfied or Very Satisfied		
		Academics / School-Program	Parent Involvement Opportunities	Overall Performance of the School
American Preparatory Academy (Draper)	2	97	95	96
John Hancock Charter School (Pleasant Grove)	3	90	NEI	92
Ranches Academy (Eagle Mountain)	1	NEI	NEI	91
Thomas Edison Charter School (North Logan)	3	90	95	91
Timpanogos Academy (Lindon)	3	96	NEI	93

A sampling of charter parents indicates high degrees of satisfaction. NEI = "Not enough information"

## Utah Association of Public Charter Schools

Public charter schools are an integral component of Utah's vibrant public school system. Charter Schools enhance our educational community

Public charter schools allow Utah parents and educators to create unique educational opportunities for children.

The Utah Association of Public Charter Schools believes that a variety of charter schools, serving different types of student populations, benefits Utah students.

The Utah Association of Public Charter Schools exists to serve the needs of our growing charter school community.

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### OBJECTIVES

- › To promote charter schools in Utah.
- › To educate the public, legislators and others about charter schools.
- › To support charter school operators with resources and expertise to aid them in successful operation of their schools.

### GUIDING PRINCIPLES

- › Public charter schools are an integral component of Utah's vibrant public school system.
- › Charter schools are important public institutions in our state in that they provide diverse educational opportunities to students who may need or choose one.
- › Public charter schools allow Utah parents and educators to create unique educational opportunities for children.



- › Charter schools believe that compliance requirements do not necessarily result in successful student outcomes.
- › Charter schools seek to be evaluated upon student outcomes.
- › Charter schools seek as much autonomy and flexibility as possible so they may deliver a truly innovative education to students.
- › We believe there is strength in combining our efforts for the common good of all charter schools.
- › We believe that a wide variety of charter schools, serving many different types of student populations, is a benefit to Utah students.
- › As an association we do not favor one school model over another and we respect the diversity of Utah public schools, understanding that we each have something unique and valuable to offer Utah students.
- › The Association supports laws, rules and policies that promote the foregoing principles.

# TAB 22 ATTACHMENT B

## 2005 CHARTER SCHOOL SERVICES

### Utah Education Network and Charter Schools Basic Internet and Interactive Video Conferencing Services

#### **Internet Connectivity**

Charter Schools within the state are eligible for Utah Education Network Internet connectivity services if the school has 7th – 12th grade enrollments. UEN will arrange for equipment purchase, installation, and payment of circuit charges for secondary schools. UEN's legislative mandate and funding only extends to secondary schools at this time. If you are a K-6 school, UEN will work with the public school district in which the Charter School is located to assist that district to provide connectivity if possible.

- Complete application form requesting connectivity prior to opening of a school
- Site visit, purchase and installation of equipment
- Service level agreements signed

#### **Interactive Video Conferencing -Video Connectivity**

Schools, institutions, and agencies wishing to become Utah Education Network – EDNET - sites proceed through a multi-step site selection and certification process. This process will take 4-6 months to ensure quality and integrity of the transport and delivery of programming.

- Orientation meeting/ Application
- Submission of Application/ Site Survey Visit
- Network Assessment - Readiness
- UEN Budget Review/School Purchase/Funding
- Equipment Order/Installation
- Training and Site Certification

At this time the courses, classes, certifications which are delivered via EDNET, on-line, UEN Satellite Services and H.323 IP Video (IVC) are all appropriate for high school and college students. However, there is more programming being introduced daily which is appropriate for K-7 students and adults. The introduction of IP Video is allowing UEN to further expand its services.

For further information on what is available and how to apply:

Claire Gardner

Utah Education Network

Distance Learning Services Manager

[cgardner@media.utah.edu](mailto:cgardner@media.utah.edu)

(801) 585-5507 office

(801) 554-9754 cell

(801) 585-6105 fax

## ANNOUNCING eMEDIA - DISCUSSION

## Issue

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UEN completed the eMedia Digital Media Service general release on September 15, 2005. All K-12 Utah educators and students now have access to the service.

## Background

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### **General Release Announcement and Promotion**

On September 15, 2005, The Utah Education Network (UEN) opened eMedia, an Internet video download service providing educational media to thousands of educators and students throughout Utah. The initial release includes 210 video titles covering numerous Utah Core Curriculum areas. The collection is especially strong in science and social studies programs.

Teachers and students access eMedia through the K-12 Pioneer Library and search for videos by keywords or Utah core curriculum subject areas. In the first 30 days, the service received over 2,000 visitors who have conducted 2,500 searches and downloaded over 500 video files.

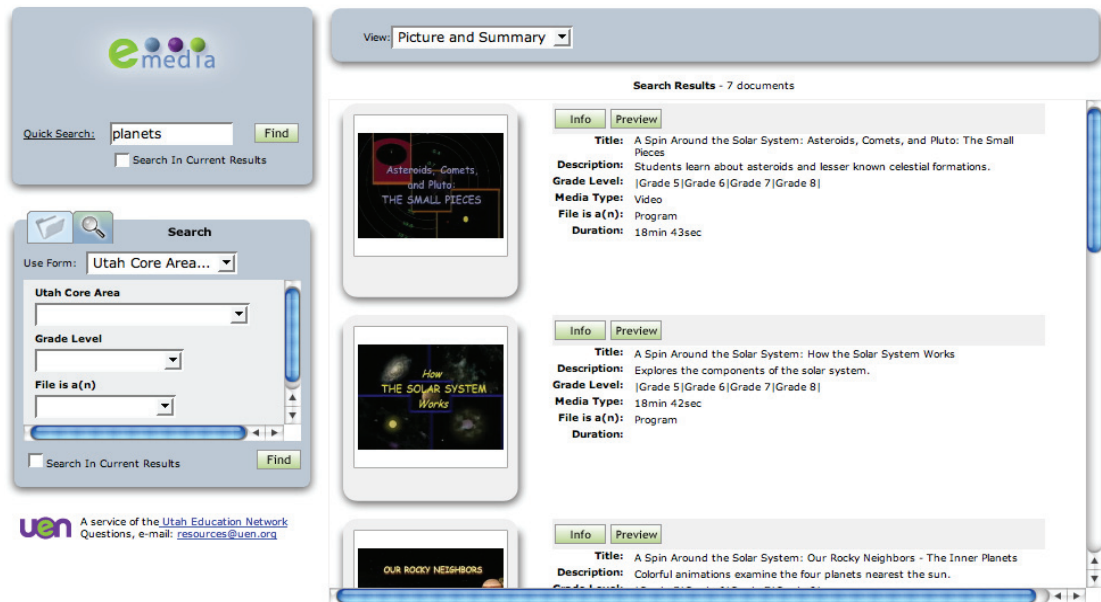
eMedia was officially announced to teachers at 2 regional UELMA conferences in Cedar City and Price. Following the regional conferences the launch announcement was posted on the UEN home page. The service is also featured in an article and a full-page ad in the 2005-2006 Utah Educators Resource Guide, a publication mailed to every teacher in the state. UEN's booth presentations at the annual UEA convention also focused on eMedia and other Pioneer Library resources.

### **Service Description**

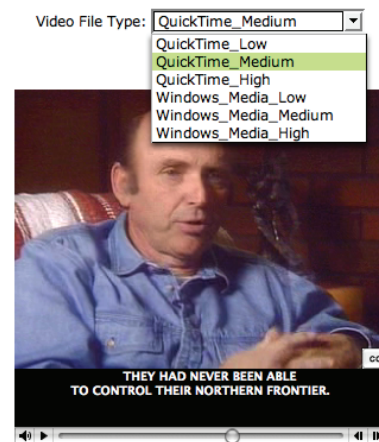
The eMedia service is a collaborative effort between the Utah Education Network, the Utah Instructional Media Consortium (UIMC) and KUED Television. Over the last 4 years these partners piloted various subscription video streaming services, but ultimately decided that the state's interests would best be served by creating a system without the cost and licensing terms imposed by third-party subscription services. With eMedia the state usually licenses the videos for 5 years of distribution and teachers can retain the videos they download as long as they desire.

Using eMedia is simple. Educators and students go to K-12 Pioneer Library and follow the link there to login. In eMedia the user can enter a keyword search (searching titles,

descriptions and Library of Congress authority compliant keywords) or they can search by Utah Core area and/or grade level. The results appear in an easy to browse list with options to preview the media or view additional metadata information.



Unlike most commercial educational video services, eMedia offers the videos for download rather than streamed video. This ultimately reduces the traffic on already congested school networks and provides higher quality picture and sound on the videos. Many videos are available to download as shorter 4-5 minute instructional segments. Each program or segment is available in 6 different renditions: Windows Media high, medium and low bandwidth or QuickTime high, medium and low bandwidth. When available, programs are also closed-captioned.



## Next Steps

Expanding the eMedia collection to include all UIMC licensed titles is the top priority for the near future. By January we hope to have most of the 200 titles from the 2004 UIMC purchase digitized and added to the service. In addition, the 7,000 Utah-specific media objects from the Utah Collections Multimedia Encyclopedia will be added to eMedia by Spring 2006. UEN is also negotiating with TV Ontario and PBS to make their high-quality productions available to teachers and students.

eMedia service will gain significant personalized services in the coming months including access via an educators private my.uen page. Watch for features like an individual account with messaging to other eMedia users (teachers only), search result sharing with colleagues and batch file downloads.

As part of UEN's commitment to new technologies we will examine new, more efficient video encoding such as the H.264 codec. Interoperability with personal media devices like the newest iPod, with video capability, may also be relatively easy to implement. From a collaboration standpoint, UEN is committed to working with other repositories like academic libraries to provide metadata records to open up federated searching across systems when possible.

## **Recommendation**

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This is an information item requiring no further Steering Committee action.

**NEW INSTRUCTIONAL SERVICES SUBCOMMITTEE  
MEMBER - DISCUSSION**

**Issue**

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Marty Kelly, Director of Adult Education for the Utah State Office of Education, has been invited to join the IS Subcommittee to provide input on adult education issues in Utah.

**Background**

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Marty recently joined the Utah State Office of Education. Formerly principal of the Jordan Resource Center, Marty brings a strong background in educating adults with special needs. She is replacing David Steele, who retired from USOE earlier this year. Additional details concerning Marty's background will be shared in the subcommittee meeting.

**Recommendation**

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It is recommended that the Instructional Services Subcommittee extend a formal welcome to Marty Kelly.



## COURSE MANAGEMENT SYSTEM RFP RESULTS - DISCUSSION

### Issue

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UEN recently completed the Request for Proposal process with vendors of enterprise course management software. WebCT Vista was the top product based on the evaluations. Another vendor, Blackboard, has announced that they will acquire WebCT and merge the companies by the end of 2005 (subject to regulatory approval).

### Background

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#### **Statewide Course Management System**

UEN and the USHE institutions have been piloting a UEN hosted installation of WebCT Vista for the past 2 years. The pilot has gone well and CEU, Dixie State College and Snow College have transitioned all their online courses from locally operated WebCT servers to UEN's centrally hosted Vista system.

UEN and USHE are requesting funding in the coming legislative session to purchase a statewide perpetual license for a course management system. In preparation for this ask, UEN conducted a formal RFP.

#### **RFP Process**

The University of Utah (UEN's purchasing agent) issued an extensive RFP on August 2, 2005. An evaluation committee comprised of representatives from higher education institutions across Utah approved the evaluation criteria. The RFP was specifically written to include both commercial and open-source products.

Three vendors responded to the RFP: Angel Learning, Desire2Learn and WebCT. The Angel Learning proposal had to be disqualified because they failed to respond to mandatory items. The evaluation committee received the Desire2Learn and WebCT proposals for review and met to go through product demonstrations.

WebCT Vista was the top evaluated product in terms of learner tools, course building and administration tools, technical requirements and cost.

#### **Vendor Developments**

On October 12, 2005 Blackboard announced that they would acquire WebCT and merge the two companies by the end of 2005. The combined company will be called Blackboard. Several key technology people from WebCT are taking executive positions

with Blackboard.

The existing product lines will continue for the near future with a new product combining the best of both Blackboard and WebCT's products being developed for future release. Timelines and details are not available.

The following message went out to WebCT customers on October 17 with additional information:

As we at WebCT have been talking with many customers over the last couple days, a number of important questions have been asked over and over again. We wanted to follow up with you to ensure you receive answers to those top-of-mind questions:

**What will happen to my product? Will I have to switch to Blackboard's products?**

Blackboard announced that it plans to develop, innovate, upgrade, improve, and support both Blackboard's and WebCT's products, including WebCT Vista and WebCT Campus Edition, and the Blackboard Academic Suite and Blackboard Commerce Suite. The combined company will continue to invest in each company's products consistent with product development directions respectively communicated to each client base. Right now, WebCT is still hard at work on new product releases, including a new release of WebCT Campus Edition and WebCT Vista in 2006.

**What's your product roadmap? When will the next-generation platform be available?**

Blackboard has announced that, following the merger, it will develop common, standards-based APIs, based on Blackboard Building Blocks and WebCT PowerLinks, which will allow the existing product lines to interoperate with one another. Following the merger, under Chris Vento's leadership, we will eventually develop a new next-generation, standards-based, product set that incorporates the best features, usability characteristics, and technical architecture from the two product lines. Note: Chris Vento is WebCT's current Chief Technology Officer and will be taking on the role of Sr. VP of Technology and Product Development in the combined organization.

The development of this next-generation suite is expected to be an effort that will take multiple years and most likely happen as the existing products evolve over time and therefore should not impact your current upgrade and deployments plans. Neither Blackboard nor WebCT can provide more information about future development timelines right now because we are still operating as completely independent companies. After the merger is complete, we will provide more specific information as it becomes available.

**How will WebCT's practices and standards for quality account management, quality service and quality support be integrated into the combined company?**

WebCT employees will represent roughly 50% of the combined company in the Academic Suite business. Blackboard is keenly aware of WebCT's reputation for quality and direct communications in our account management, professional services, and support interactions and will seek to adopt WebCT's best practices across the entire combined company.

## Next Steps

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UEN held a conference call with all the institutions on October 18 to hear their reaction and comments about the Blackboard/WebCT announcement. The general consensus was that the announcement certainly opens more interest in open-source products (none of whom responded to the RFP) and UEN should pursue developing knowledge and skills in installing and testing an open-source CMS product; however, several institutions have just transitioned to WebCT Vista and another change is not desirable.

UEN does have a guaranteed pricing quote from WebCT for a perpetual license and 5 years of annual maintenance. With this guaranteed pricing UEN is in a good position to proceed with our funding request to provide WebCT Vista to all higher education institutions throughout Utah as well as UEN's K-12 professional development users.

In the coming weeks UEN will work with USHE and the institutions to present the case to the legislature for a statewide CMS system based on WebCT Vista. UEN will also install a test instance and begin learning about the Sakai open-source system and monitoring developments as Sakai matures toward feature parity with WebCT Vista.

## Recommendation

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This is an information item requiring no further Instructional Services Subcommittee action.

**HIGHER EDUCATION ADVISORY COMMITTEE  
REPORT - DISCUSSION**

## **Issue**

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The Higher Education Advisory Committee met on September 21, 2005.

## **Background**

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Cyd Grua conducted the advisory meeting where the following topics were discussed:

1. UEN Strategic Plan updates for first quarter
2. Project process
3. Course management system RFP
4. LearnKey
5. Agilix.com
6. Cable video on demand and telecourses
7. Digital asset management update

The next meeting for this committee is November 16 by Phone Bridge. Contact Cyd Gura for more information.

## **Recommendation**

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This is an information item requiring no further Instructional Services Subcommittee action.

# TAB 26 ATTACHMENT A

## HIGHER EDUCATION ADVISORY COMMITTEE

### SEPTEMBER 21, 2005 MINUTES

**Attending:** Ryan Hobbs (for Geoff Brugger), Rosemary Iles, Scott Herd, Laird Hartman, Laura Hunter, Mike Freeman and Cynthia Grua

**Excused:** Mike King, Lynne Shrum, Gary Wixom and Karl Stevens

**Absent:** Wayne Peay and Weldon Sleight

#### **1. Update FY06 UEN Strategic Plan**

Since we last saw the plan, project managers have been assigned to individual projects, target completion dates have been established. End of first quarter updates have been added into the column labeled "Progress." Blank fields in this column indicate no action was taken during the quarter.

Higher education highlights:

- Spanish programming on digital TV – Weldon took a list of legal questions to the Mexican curriculum source which is still reviewing these questions.
- UEN has applied for a federal grant to split off an additional digital TV channel. UEN is in the top 10 applications.
- UEN dropped item 32, involving UVSC students in encoding video for digital output. UVSC building/encoding bay rooms are being remodeled with a completion date of March 2006. This item should be revisited at that time.
- ePortfolio – A number of representatives from public and higher education and Workforce Services met with vendors in July 2005. No action has been taken since these visits. Many questions remain to be explored on the relationship between assessment and employment portfolios and what UEN's role should be in supporting the effort.
- UEN is gearing up for Pioneer Library's 10th anniversary.
- Conversion of EDNET sites to IPV is ongoing.
- UENSS support is ongoing. Although USU is the sole USHE institution using satellite, any USHE institution may use UENSS.
- Adult Basic Education (ABE) – UEN received a grant for DVD copies of basic skills in English and Spanish to be distributed to 24 rural libraries.
- Professional Development – most UEN workshops are requested by public education. The 2-hour orientation to Pioneer Library and the Intro to WebCT Vista have been of interest to higher education.

Suggestion for newsletter support

Currently UEN's eNewsletters are distributed primarily to K-12 folks registered through my.uen. Can UEN, working with the Higher Education Advisory group, do something similar for higher education? Laura Hunter suggested UEN might help capture audio files of guest speakers on various campuses, create a library of these topics and promote them with an eNewsletter.

#### Suggestion for Web calendar support

Discussion turned to the topic of building an online calendar that would list key campus events associated with technology delivered instruction and/or best practices in instruction. **CHARGE TO COMMITTEE: Report campus points of contact for a higher education calendar of events – public relations offices and/or audio production staff; Webmasters might also be a point of contact. Establish business rules for events to be included in a central lecture pool.**

What kinds of events should be included? Lectures on subjects of interest. Pedagogical topics. Standards of best practice. After a lengthy discussion, Laura provided the following summary of the type of events the committee feels might be included in the calendar:

- Web-based faculty resources with calendar of events, audio lectures, printed resources on topics of interest to distance education, blended learning, and broader interest.
- Pod casts of lecture of broad interest to the general public.
- A broadcast calendar of education highlights such as PBS specials.
- Pod Casting 101 – Out of this discussion came the idea for a F2F presentation that would bring together a group of Higher Education administrators and PR folks to introduce pod casting. Laura will send out an example of pod casting from WGBH.

## **2. UEN Project Process Discussion**

Questions to be answered: When should stakeholders be included in the decision-making process starting with the initial meetings? Past precedent: If its in the strategic plan, UEN moves forward. **CHARGE TO COMMITTEE: Provide a list of circumstances where immediate stakeholder involvement is key.**

Discussion – Communication is key. The committee recommended sending Public Education Advisory Committee minutes to the Higher Education Advisory Committee and visa versa.

From our initial discussion it was suggested we first define what a project is. For purposes of this discussion, a project is things that have a beginning and ending date, large budget items, have potential to impact multiple stakeholders, that compete with or complement activities that may already be happening in a district or on a campus, things that involve multiple UEN strategic priorities.

Laura shared a draft document of considerations UEN uses to determine whether or not it should pursue a project. The committee recommended UEN create a rating process that involves multiple items on that document to determine when stakeholders need to be involved. It was also suggested UEN establish a “fast track” policy when it needs

rapid stakeholder feedback or an opportunity will be lost.

### **3. Course Management System RFP Update**

UEN received responses to its CMS RFP from Angel, Desire to Learn, and WebCT Vista. The evaluation committee meets September 20 to discuss the proposals.

### **4. LearnKey Proposal Discussion**

UEN is receiving an increasing number of requests for basic computer classes such as Microsoft Office Suite, Macromedia Flash and Web Development. UEN is exploring licensing a basic content package for K-20. The UEN license allows for credit and resource use for all registered students (versus a per head fee), a state-wide license with more than one installation point with content to be used as part of credit curriculum or stand alone. Committee members did question how well LearnKey is keeping content up to date. **CHARGE TO COMMITTEE: Respond to the following questions: If UEN were able to save institutions money in a central license, would this such a license be attractive? What titles are USHE institutions currently licensing? Are these titles being used as part of credit curriculum or as resources in campus computer labs? Should human resources curriculum be part of the basic package?**

### **5. Agilix.com Proposal Discussion**

An Orem company approached UEN to pilot GoBinder.com, a software package that captures a class so that you can work offline. There is a note taking/organizing file that allows for searching. This solution is best for students taking multiple courses. It works great with a tablet PC; you must have a keyboard with a laptop. **CHARGE TO COMMITTEE: Visit Web site. Provide feedback whether any USHE students might use this software.**

### **6. Cable Video on Demand and Telecourses Update**

We had a brief discussion on moving telecourses to middle of the night. Nothing remarkable to report. UEN has worked with Comcast to make telecourses now available on Comcast Video on Demand.

### **7. Digital Asset Management Update**

UEN launched its eMedia DAM project September 15, 2005. The initial response is very positive. The initial collection of digital assets are the UIMC (public education) collection, most appropriate for K-12 use. You can access eMedia from the UEN Web site and from Pioneer Library's Web site. Use the username, \*\*\*\*\*, password, \*\*\*\*. Per recommendations from the eMedia committee that met mid-summer, the first year eMedia efforts are focused on public education. **CHARGE TO COMMITTEE: 1. Noodle with eMedia and provide feedback to committee. 2. From UALC, begin discussions on what digital content might be included for HE.**

Meeting adjourned at 1:15 pm.

**PUBLIC EDUCATION ADVISORY COMMITTEE  
REPORT - DISCUSSION**

## **Issue**

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The Public Education Advisory Committee met on September 23, 2005.

## **Background**

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Rick Gaisford conducted the advisory meeting where the following topics were discussed:

1. UEN Strategic Plan updates for first quarter
2. eMedia
3. 2005-2005 Utah Educators Resource Guide
4. Ed. Tech Endorsement/Technology Integration Academy
5. Oral History/WWII Veterans
6. Youth in Custody Grant
7. Intel Teach to the Future Grant
8. Hurricane Relief from EHS
9. UEN Project Process

The next meeting for this committee is November 30, 2005. Contact Rick Gaisford for more information.

## **Recommendation**

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This is an information item requiring no further Instructional Services Subcommittee action.



**2005-2006 UTAH EDUCATORS RESOURCE GUIDE -  
DISCUSSION****Issue**

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The annual K-12 educator resource guide has been distributed to Utah educators.

**Background**

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The 2005-2006 Utah Educators Resource Guide was mailed to 26,710 educators on September 20, 2005. An additional 5,290 guides were also sent to the Utah Education Network and UEN Professional Development. The 2005-2006 Utah Educators Resource Guide is jointly produced by the Utah State Office of Education, Utah Instructional Media Consortium, KUED 7 and UEN. Features of the 2005-2006 Utah Educators Resource Guide include:

- 88 pages of educator resources.
- Featured color advertisements: Pioneer Online Library, KUED 7 and UEN.
- Full color insert with program grids for KUED 7 and UEN-TV.
- Screen captures of key Web sites for educators: UtahITV.org, UEN Professional Development, UEN K-12 Educator page, NetSmartz and Visual Thesaurus.
- Instructional television program descriptions.
- Recommended Watch, Do and Learn features for each Core Curriculum subject.
- Three new Core areas represented: American Indian Education, Civics/American Government and World Languages.
- KUED 7 logo for evening programs of interest to educators, such as NOVA and Masterpiece Theater.
- 2005-2006 Utah Educators Resource Guide online in PDF form at *www.utahitv.org*.
- Curriculum articles for Concept Mapping and Video Lesson Plan Rubric.
- Adult Education programs and resources, including *careers.utah.gov*.
- Pioneer Online Library reproducible parent letter and resources.
- Teacher professional development programs and services with screen captures.

During October, UEN and UIMC staff conducted significant outreach to promote the new guide. Presentations at USOE, MESA, UELMA, PECC, 2005 UEA Convention, Speaking of Women's Health Conference and district meetings have been very well received.

## **Recommendation**

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This is an information item requiring no further Instructional Services Subcommittee action.

## UEN CONFERENCE AND SPECIAL EVENT PRESENTATIONS - DISCUSSION

### Issue

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The Utah Education Network promoted key services to several major education and outreach audiences in early fall. Services included the new eMedia, Pioneer Online Library's ten-year celebration, health, education and continuing education resources available on the new UEN-TV and through *www.uen.org*.

### Background

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#### **UELMA (Utah Educational Library Media Association)**

UEN and Southwest Educational Development Center (SEDC) staff presented workshops at the regional UELMA conferences in Price and Cedar City, September 14 and 15, 2005. Both venues provided an opportunity to promote the upcoming the 10th anniversary of Pioneer, Utah's Online Library and to demonstrate eMedia, the joint project of the Utah Instructional Media Consortium and UEN.

In Price, Ross Rogers and Rick Cline made presentations. In Cedar City, Melanie Durfee and Cory Stokes of SEDC provided a hands-on workshop. Both sessions were well received by those in attendance.

Additionally Rick Cline and Rich Finlinson participated in vendor exhibits at both locations and Rich recorded audio interviews with educators.

#### **2005 UEA Convention**

Between 6,000 and 8,000 educators had an opportunity to learn more about UEN at the annual Utah Education Association Convention at the Salt Palace October 20 and 21, 2005. Victoria Rasmussen, Ross Rogers and Jared Covili presented sessions on Standards-Based Web resources technology, Pioneer Online Library and digital storytelling.

At the exhibit booth, UEN staff emphasized eMedia and continued Pioneer Library's 10th anniversary celebration promotion, as well as shared general UEN information. UEN placed a Pioneer Online Library ad on the outside back cover of the UEA Convention program.

### **2005 Speaking of Women's Health Conference**

UEN was a breakout session sponsor of KUED 7's Speaking of Women's Health Conference at the Salt Palace October 22, 2005. This nationally franchised conference brings over 1,100 participants to learn more about health and health-related issues. UEN's exhibit table emphasized UEN-TV, Pioneer Online Library (public), UEN and other resources for healthy bodies, minds and spirits. Laura Hunter's breakout session *Lifelong Learners Have More FUN-Power* focused on using technology to pursue a passion for learning.

## **Recommendation**

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This is an information item requiring no further Instructional Services Subcommittee action.

## NCO CONNECTOR GRANT - DISCUSSION

### Issue

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UEN was recently awarded a \$12,000 grant from the National Center for Outreach to conduct outreach activities surrounding adult education programming on UEN-TV.

### Background

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The National Center for Outreach sponsors projects by CPB funded public broadcasting stations. Last year, KUED 7 was awarded an outreach grant to help fund the Health Matters initiative. This year, UEN has been awarded a grant to help fund outreach activities around the GED Connection, TV411 and Workplace Essential Skills programs on UEN-TV. Grant funding will cover the following activities:

- Production of DVD masters for all episodes of GED Connection, TV411 and Workplace Essential Skills.
- Duplication of GED Connection and TV411 on DVD for placement in public libraries and corrections facilities statewide.
- Production of interstitials highlighting adult education programming to be aired on UEN-TV.
- Production of promotional segments for UEN-TV's adult education programming.
- Printing of posters, brochures, and other information highlighting UEN's adult education activities.
- Screenings and information sessions at 24 public libraries statewide through September 1, 2006.

The NCO Connector Grant will provide an excellent opportunity to reach out to stakeholders statewide and build interest in and usage of UEN's adult education and lifelong learning resources.

### Recommendation

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This is an information item requiring no further Instructional Services Subcommittee action.

## QUARTER ONE PROGRESS REPORT ON FY 2006 STRATEGIC PLAN - DISCUSSION

### Issue

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This report includes a summary of the activities conducted during July, August and September 2005 for the UEN Instructional Services, Instructional Delivery and Public Information departments.

### Background

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Reports follow fiscal year quarters as outlined below:

Quarter 1 – July, August, September

Quarter 2 – October, November, December

Quarter 3 – January, February, March

Quarter 4 – April, May, June

#### **Quarter 1 FY 2006 Strategic Plan Highlights**

- Implemented eMedia general release.
- Completed summer migration/installations for IP Video.
- Conducted 136 professional development classes for 4019 participants.
- Added Financial Literacy, Language Arts Elementary and Kindergarten Core Academy lessons to the UEN.org lesson database.
- Posted WWII Oral History content from Rick Gaisford.
- Uploaded 3 USOE Web sites, designed 2 Web sites and updated 12 Web sites.
- Added four Adult Education Link Centers to Web site and updated the college and career pages.
- Designed and produced eMedia ad; promoted in articles and conferences.
- Deferred UVSC digital media service internship at request of UVSC.
- Participated in planning sessions for Pioneer Library 10th Anniversary and conducted focus groups.
- Continued to refurbish and distribute computers through Utah TECH CORPS.
- Designed TOC remodel.

- Conducted training with hub personnel on new IP Video tools.
- Completed training from MCU vendor on new scheduling software and tools.
- Completed UEN facilitator policy revisions, approved by Steering Committee in August 2005.
- Awarded 12,000 NCO grant to do Adult Education outreach with public libraries.
- Awarded 70,000 Intel Foundation grant for teacher/administrator professional development.
- Completed Adult Basic Education needs assessment with USOE new director.
- Designed and completed the 2005-2006 Utah Educators Resource Guide.
- Updated UtahITV.org Web site with new articles and PDF's.
- Supported UAACCE with listserv, Web support and conference planning.
- Learning objects developed for UEN tools.
- Evolved Integration Academy program to include more classes and options, program name changed to Educational Technology Endorsement Program.
- Started pilot online course with USU/Logan facilitators.
- Trained 14 teachers with PBS TeacherLine.
- Trained 56 teachers with Intel Thinking Workshop; nine administrators with Leadership Forum.
- Conference presentations at: URSA, CyberCorp, Granite/Jordan Interconnections, Granite history symposium.
- Promoted UEN with six newsletters and six professional development newsletters.
- Implemented professional development cost recovery model for workshops with materials.

## Recommendation

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This is an information item requiring no further Instructional Services Subcommittee action.

## 21ST CENTURY ETI - ACTION

### Issue

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As UEN continues to build out a high-speed network infrastructure for Utah's K-12 schools, Educational Technology funding struggles to keep up with even the most basic of replacement and upkeep challenges. Karl Buchanan will be leading a discussion that was started with the reorganization of USOE's Educational Technology Department and is addressing the problems that have developed since ETI funding was eliminated in 2002 and the monies rolled into block grants at the district level.

### Background

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A 2004-2005 Educational Technology Audit has exposed the current state of the workstation aspect of the network as it pertains to Utah Schools.

1. Student Access - As Utah's student population reaches 500,000, there is a need for at least 100,000 computers just to make a 5:1 student/computer ratio. Utah used to be a leader in the student/computer ratio, in 2002 we were ranked 20th in the nation in this area. Today we are at the very bottom.
2. At least 38% of the existing computers are over 4 years old, many even older. Utilizing a 5-year replacement cycle with matching monies from the state and districts we could move Utah back to an overall 2:1 ratio that would provide a rich educational technology experience necessary for our technologically evolving world.
3. Utah currently has 21,272 teachers served by 55 district educational technology trainers. As part of the district match with the new ETI, districts would increase this number almost double. The need for Educational Technology training is a constantly moving target as system, software, and procedure changes with every school-year cycle.
4. Technical Support – Utah has 340 staff technical support personnel. The average state-wide is a 920:1 support ratio. With matching district funds and the new ETI, districts could move this to a 500:1 support ratio. Current industry standards range from the 125:1 to 150:1 levels.
5. Online testing – the growth in online testing will put a tremendous strain on the ability for districts to manage and maintain the amount of computers necessary to complete the testing windows with current staff and machines. The SB-51 funds over the last 2 years have been instrumental in helping with infrastructure and



adding components to the system, but they have not gone far enough to move towards the goal of having end-of-level testing data available in much quicker timeframe. The new ETI will help by providing the extra workstations and support necessary to achieve this goal.

6. Space – Many our schools simply don't have the space to put in labs. Solutions are mobile laptop labs and 1:1 laptop initiatives for students in the upper grades. This brings on a whole new layer of issues that include; breakage, higher upkeep costs, loss or theft, wireless security, and of course training. All of this demands a higher level of responsibility and pressure on the technology staffs of the individual districts and charter schools.

Currently the 21st Century ETI program is directed out of the USOE Educational Technology department with the help of TCC, the State School Board, and many other partners looking for a way to restore Utah's position a leader in technology education. It is essential that we have students that can utilize technology to enhance their future and are able to compete in any area past K-12 that they choose to proceed.

## **Recommendation**

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In order to help K-12 education along with Higher Education, it is proposed that we utilize every avenue available to educate and enlighten the educational community and legislature as to the importance of restoring ETI through the 21st Century ETI program. We know that this is program that should be included in our schools much the same way that transportation, school lunch, media centers, and custodial services are embraced. When we build a new school, our communities would find us negligent if didn't hire a principal, secretary, and a custodian to keep the facility clean. We are currently building schools and failing to provide both technology and staff support to adequately run them.

## QUARTER ONE PROGRESS REPORT ON FY 2006 STRATEGIC PLAN - DISCUSSION

### Issue

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During the FY 2006 first quarter, UEN Technical Services has been very busy completing summer projects, getting ready for the start of another school year and maintaining the current network environment.

### Background

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Attached is a list of accomplishments for FY 2006 Quarter 1. Highlights include:

- Significant progress in security training, tools and collaboration with UEN stakeholders.
- eMedia go-live.
- Data center rack and power upgrades.
- Dixie Internet installation.
- NLR IRU contract completed.
- Significant progress made on the Ethernet Phase 2 deployment.
- San Juan CIB Phase 2 progress.
- Increase activity with charter schools.

Looking forward to the next quarter some major projects include:

- WebCT Vista software upgrade.
- Upgrade of the EBC machine room fire suppression system.
- Completion of Ethernet Phase 2 deployment.
- Site surveys for planning the Ethernet Phase 3 project.
- Phase 4 RFP results and awards.
- Grand DO upgraded connectivity and other point-to-point fiber connections.

No attempt is made to include all of the details for each project. UEN managers will be present at the Technical Services Subcommittee meeting to answer specific questions. Review the list for a basic overview of the most significant activities.

## **Recommendation**

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This is an information item requiring no further Technical Services Subcommittee action.

# TAB 2 ATTACHMENT A

## UEN TECHNICAL SERVICES PROGRESS REPORT

### Quarter 1 Progress

1. National LambdaRail IRU contract completed, work commenced to install fiber and equipment to connect 10 Gbps circuit to Denver.
2. UtahSAINT Conference held August 3-5, 2005 at Wasatch DO.
3. Continued development on security tools with a FlowTools 2.1.x Release.
4. Arbor Network Upgrade completed.
5. Security Monitoring installed with addition of the Internet PoP at Dixie.
6. UEN Network Backbone Audit Performed by the Security Dept.
7. Network-wide Mandatory Password Change completed.
8. UtahSAINT / Security Points of Contact list Updated.
9. Security training and visits to Stakeholder sites.
10. eMedia went live 9/15/2005.
11. Design and 50% implement new UEN mail system.
12. Data Center Rack upgrade 22.5% done.
13. Upgrade Groupwise Server to Linux and SAN.
14. Sybase Server Upgrade.
15. Start the Evaluate and Gain experience with Solaris 10.
16. Manage and maintain every thing else.
17. Installed Internet connectivity (600Mb/s) at Dixie.
18. Last pieces of ATM removed from the network.
19. Replaced 3750 switches with 6503s at all GeoMax-connected districts.
20. Installed 6503/6506 aggregation switch/routers at all GeoMax districts.
21. Completed USU-SLCC and Dixie-SLCC paths.
22. Redundancy in all 7500 routers at backbone PoPs.
23. New backbone routing policy installed on southeast ring.
24. Completed IP Video-over-GL3 pilot project.
25. Murray/Grantie district GL3 connection completed.
26. Upgraded connectivity (OC-3) to Uintah Basin.
27. Upgraded Internet2 connectivity (100Mb Ethernet) to BYU.

28. Lots of new charter schools connected.
29. Tintic DO upgraded to GigE.
30. WSU connectivity redesign Phase 1 completed.
31. Phase 4 Request for Proposal (RFP) completed and sent to vendors.
32. District Office improvements nearing completion.
  - 6500s installed
  - Fiber work in process
  - IOS upgrade to native – planning stage – memory upgrades required
  - Washington School District
    - ◊ Pine View High School complete
  - Iron School District
    - ◊ Parowan High School complete
  - Beaver School District
    - ◊ District office WAN connection complete
33. Uinta Basin transition to IP Video complete.
34. San Juan County transition to IP Video complete - This includes improvements to public education and higher education locations.
35. As of October 21, 2005 two thirds of this project is complete with bandwidth improvements to White Horse High School, Montezuma Higher Ed, Mexican Hat Elem and Bluff Elem.
36. Phase 2 implementation
  - Of 143 sites included in phase 2, we have cut over (data traffic on GeoMax) 32 sites (includes district offices).

## **Quarter 2 Plans**

1. ACS Server Updates.
2. Internet ACL review and Standardization project.
3. Catastrophic Caps Project.
4. Pending Cisco Issues.
5. uRPF Project.
6. Pending Cisco Issues.
7. Sinkhole Redesign.
8. Get to 45% of the Data Center Racks upgraded.
9. Mail System fully finished.
10. WebCT Upgrade to service pack 5.
11. Roll out New Console Servers.
12. Project to link eMedia to myuen.

13. New Building File server Testing and ready for January Production.
14. Negotiate with NOC to Better handle Data Center Networks and other.
15. Internal Net devices.
16. Remove Internet redundancy dependencies.
17. IP Video-over-GL3 project (remove video T1's).
18. GL3 Phase 2 school turn-up.
19. Remaining southeast improvements to Grand and Emery School Districts and CEU scheduled from completion next six months.
20. Codian DVR bid awarded to WireOne – 60 day H.323 DVR pilot will begin in November.
21. Improvements to Monticello High School, Monticello Higher Ed and LaSal Elem scheduled for completion the summer of 2006.
22. Application Engineering currently working on Data casting end site design.
23. Coordinating fire suppression upgrade design with University of Utah Campus Planning for the UEN machine room.
24. Phase 4 RFP results and awards.

## COMMUNICATIONS ASSISTANCE FOR LAW ENFORCEMENT ACT - DISCUSSION

### Issue

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Based on an order from the Federal Communications Commission (FCC), UEN and education and library network members will be required to comply with the Communications Assistance for Law Enforcement Act (CALEA). It is important that Steering Committee members become familiar with the implications of this order, for the statewide network and for their own institution, district, and library.

### Background

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On September 23, the Federal Communications Commission released an Order and Further Notice of Public Rule Making applying for the first time the Communications Assistance for Law Enforcement Act (CALEA) to facilities-based broadband Internet access providers, including higher education institutions, K-12 schools, libraries, and interconnected Voice over Internet Protocol (VoIP) service providers. The order was published in the Federal Register on October 13 and will be enforceable in 18 months.

The FCC Order requires these entities to facilitate lawful requests for surveillance of specific communications on their data networks through a combination of new equipment, trained personnel, policies, and procedures. Preliminary analyses by EDUCAUSE conclude that the order will impose substantial new costs on the institutions involved. (The old CALEA rules applied to telephone companies and focused on modifications in telephone equipment to assist with lawful surveillance of telephone calls.)

EDUCAUSE has contended that educational institutions have always provided prompt assistance in response to lawful requests for surveillance of both voice and data communications in the past, and they will continue to do so in the future. A significant issue here is one of cost effectiveness. It is not cost effective, nor in the public interest, to overhaul the networks of all institutions just in case a lawful surveillance may be required in the future at one of them. And, there are effective alternative solutions to the problem that do not impose such a substantial burden of cost to the community.

While requiring compliance of all institutions in 18 months, this FCC order also seeks to identify procedures through which exemptions from some of the CALEA requirements might be granted to certain types of organizations in the future. The FCC also proposes to issue another order in the future to discuss the exact nature of the CALEA capabilities for Internet access, appropriate compliance extensions, the absence of cost recovery, and how enforcement will be addressed.

In response to the initial Notice of Public Rule Making on this issue last year, EDUCAUSE organized a coalition representing higher education, K-12 schools, and public libraries, and hired Al Gidari, a noted legal expert on CALEA. The coalition filed comments arguing that CALEA does not cover Internet access, but if the FCC extended it to do so, asking for an exemption from CALEA because it is not in the public interest to require that every college, school, and library redesign their networks just in case a lawful request for surveillance may arise in the future. (There have been very few such requests in the past.) EDUCAUSE argued that requiring full compliance with the proposed new rules would impose an unreasonable financial burden, increasing the costs of education and impacting innovation, with no guarantee of better security for our nation.

The FCC listened to these arguments and asked the coalition to try to reach an agreement with the Department of Justice. There are ongoing discussions between EDUCAUSE and the DOJ to consider an approach that better meets the requirements of law enforcement, but at a lower cost and administrative burden to the educational community.

In addition to the efforts being made through EDUCAUSE, the Statenets organization, to which UEN belongs, is conducting interviews with vendors about exactly what network equipment is CALEA-compliant, when the equipment will be available, and what the expected costs will be. Preparation of this information is well under way and should be available soon. This will hopefully provide a more realistic assessment of what we are facing.

Pete Kruckenberg and Troy Jessup have been following these developments for the last several weeks. They are seeking information about any federal funds that may be available to assist in paying for new equipment that may be mandated because of the FCC rulings. They also recommend that UEN identify and contract with a CALEA expert to assist Utah educational institutions in becoming compliant with CALEA.

For more information on CALEA, follow the link to the EDUCAUSE Policy Program Web site (scroll down to CALEA) at [www.educause.edu/policy](http://www.educause.edu/policy).

## Recommendation

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This is an information item requiring no further Technical Services Subcommittee action. However, there will undoubtedly be planning, policy, and budget decisions that will be required in the near future.



COLLEGES PROTEST CALL TO UPGRADE ONLINE SYSTEMS -  
NEW YORK TIMES ARTICLE



October 23, 2005

**Colleges Protest Call to Upgrade Online Systems**

By Sam Dillon and Stephen Labton

The federal government, vastly extending the reach of an 11-year-old law, is requiring hundreds of universities, online communications companies and cities to overhaul their Internet computer networks to make it easier for law enforcement authorities to monitor e-mail and other online communications.

The action, which the government says is intended to help catch terrorists and other criminals, has unleashed protests and the threat of lawsuits from universities, which argue that it will cost them at least \$7 billion while doing little to apprehend lawbreakers. Because the government would have to win court orders before undertaking surveillance, the universities are not raising civil liberties issues.

The order, issued by the Federal Communications Commission in August and first published in the Federal Register last week, extends the provisions of a 1994 wiretap law not only to universities, but also to libraries, airports providing wireless service and commercial Internet access providers.

It also applies to municipalities that provide Internet access to residents, be they rural towns or cities like Philadelphia and San Francisco, which have plans to build their own Net access networks.

So far, however, universities have been most vocal in their opposition.

The 1994 law, the Communications Assistance for Law Enforcement Act, requires telephone carriers to engineer their switching systems at their own cost so that federal agents can obtain easy surveillance access.

Recognizing the growth of Internet-based telephone and other communications, the order requires that organizations like universities providing Internet access also comply with the law by spring 2007.

The Justice Department requested the order last year, saying that new technologies like telephone service over the Internet were endangering law enforcement's ability to conduct wiretaps "in their fight against criminals, terrorists and spies."

Justice Department officials, who declined to comment for this article, said in their written comments filed with the Federal Communications Commission that the new requirements were necessary to keep the 1994 law "viable in the face of the

monumental shift of the telecommunications industry” and to enable law enforcement to “accomplish its mission in the face of rapidly advancing technology.”

The F.C.C. says it is considering whether to exempt educational institutions from some of the law’s provisions, but it has not granted an extension for compliance.

Lawyers for the American Council on Education, the nation’s largest association of universities and colleges, are preparing to appeal the order before the United States Court of Appeals for the District of Columbia Circuit, Terry W. Hartle, a senior vice president of the council, said Friday.

The Center for Democracy and Technology, a nonprofit civil liberties group, has enlisted plaintiffs for a separate legal challenge, focusing on objections to government control over how organizations, including hundreds of private technology companies, design Internet systems, James X. Dempsey, the center’s executive director, said Friday.

The universities do not question the government’s right to use wiretaps to monitor terrorism or criminal suspects on college campuses, Mr. Hartle said, only the order’s rapid timetable for compliance and extraordinary cost.

Technology experts retained by the schools estimated that it could cost universities at least \$7 billion just to buy the Internet switches and routers necessary for compliance. That figure does not include installation or the costs of hiring and training staff to oversee the sophisticated circuitry around the clock, as the law requires, the experts said.

“This is the mother of all unfunded mandates,” Mr. Hartle said.

Even the lowest estimates of compliance costs would, on average, increase annual tuition at most American universities by some \$450, at a time when rising education costs are already a sore point with parents and members of Congress, Mr. Hartle said.

At New York University, for instance, the order would require the installation of thousands of new devices in more than 100 buildings around Manhattan, be they small switches in a wiring closet or large aggregation routers that pull data together from many sites and send it over the Internet, said Doug Carlson, the university’s executive director of communications and computing services.

“Back of the envelope, this would cost us many millions of dollars,” Mr. Carlson said.

F.C.C. officials declined to comment publicly, citing their continuing review of possible exemptions to the order.

Some government officials said they did not view compliance as overly costly for colleges because the order did not require surveillance of networks that permit students and faculty to communicate only among themselves, like intranet services. They also said the schools would be required to make their networks accessible to law enforcement only at the point where those networks connect to the outside world.

Educause, a nonprofit association of universities and other groups that has hired lawyers to prepare its own legal challenge, informed its members of the order in a Sept. 29 letter signed by Mark A. Luker, an Educause vice president.

Mr. Luker advised universities to begin planning how to comply with the order, which university officials described as an extraordinary technological challenge.

Unlike telephone service, which sends a steady electronic voice stream over a wire, the

transmission of e-mail and other information on the Internet sends out data packets that are disassembled on one end of a conversation and reassembled on the other.

Universities provide hundreds of potential Internet access sites, including lounges and other areas that offer wireless service and Internet jacks in libraries, dorms, classrooms and laboratories, often dispersed through scores of buildings.

If law enforcement officials obtain a court order to monitor the Internet communications of someone at a university, the current approach is to work quietly with campus officials to single out specific sites and install the equipment needed to carry out the surveillance. This low-tech approach has worked well in the past, officials at several campuses said.

But the federal law would apply a high-tech approach, enabling law enforcement to monitor communications at campuses from remote locations at the turn of a switch.

It would require universities to re-engineer their networks so that every Net access point would send all communications not directly onto the Internet, but first to a network operations center where the data packets could be stitched together into a single package for delivery to law enforcement, university officials said.

Albert Gidari Jr., a Seattle lawyer at the firm Perkins Coie who is representing Educause, said he and other representatives of universities had been negotiating with lawyers and technology officials from the Federal Bureau of Investigation, the Department of Homeland Security and other agencies since the spring about issues including what technical requirements universities would need to meet to comply with the law.

“This is a fight over whether a Buick is good enough, or do you need a Lexus?” Mr. Gidari said. “The F.B.I. is the lead agency, and they are insisting on the Lexus.”

Law enforcement has only infrequently requested to monitor Internet communications anywhere, much less on university campuses or libraries, according to the Center for Democracy and Technology. In 2003, only 12 of the 1,442 state and federal wiretap orders were issued for computer communications, and the F.B.I. never argued that it had difficulty executing any of those 12 wiretaps, the center said.

“We keep asking the F.B.I., What is the problem you’re trying to solve?” Mr. Dempsey said. “And they have never showed any problem with any university or any for-profit Internet access provider. The F.B.I. must demonstrate precisely why it wants to impose such an enormously disruptive and expensive burden.”

Larry D. Conrad, the chief information officer at Florida State University, where more than 140 buildings are equipped for Internet access, said there were easy ways to set up Internet wiretaps.

“But the wild-eyed fear I have,” Mr. Conrad said, “is that the government will rule that this all has to be automatic, anytime, which would mean I’d have to re-architect our entire campus network.”

He continued, “It seems like overkill to make all these institutions spend this huge amount of money for a just-in-case kind of scenario.”

The University of Illinois says it is worried about the order because it is in the second year of a \$20 million upgrade of its campus network. Peter Siegel, the university’s chief information officer, estimated that the new rules would require the university to buy 2,100 new devices, at a cost of an additional \$13 million, to replace equipment that is brand new.

“It’s like you buy a new car, and then the E.P.A. says you have to buy a new car again,” Mr. Siegel said. “You’d say, ‘Gee, could I just buy a new muffler?’ “

*[www.nytimes.com/2005/10/23/technology/23college.html](http://www.nytimes.com/2005/10/23/technology/23college.html)*

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## TAB 3 ATTACHMENT B

# LAWSUIT WILL CHALLENGE NEW FEDERAL RULE REQUIRING COSTLY CHANGES TO CAMPUS NETWORKS - THE CHRONICLE OF HIGHER EDUCATION ARTICLE

## THE CHRONICLE OF HIGHER EDUCATION

Monday, October 24, 2005

### **Lawsuit Will Challenge New Federal Rule Requiring Costly Changes to Campus Networks**

By Jamilah Evelyn

Washington

The American Council on Education will file a lawsuit today challenging a new federal requirement that could force colleges to overhaul their computer networks so that law-enforcement agencies can monitor e-mail and other forms of online communication. College officials say that making the changes could cost billions of dollars.

The requirement, approved by the Federal Communications Commission and published earlier this month in the Federal Register, is an extension of the Communications Assistance for Law Enforcement Act. The act, also known as CALEA, is an 11-year-old wiretap law that forced telephone companies to rejigger their systems to permit easy law-enforcement surveillance.

Though considered final, the new ruling calls for public comment, leaving college and university lobbyists hopeful that they may appeal for an exemption to the law, or at least get an extension for compliance. As of now, colleges and universities would be required to have their networks in compliance by June 2007. The requirement goes into effect November 14.

Sheldon E. Steinbach, vice president and general counsel for the American Council on Education, said that colleges were not trying to limit access for law-enforcement agencies, but that campus-network administrators questioned whether the new system, which would allow federal agents switch-of-a-button surveillance access, was necessary.

“We feel very strongly that we have provided -- for years before 9-11 -- on the production of a subpoena, almost all the information that law-enforcement officials want,” he said. “This would just make it more efficient for them. When you evaluate the efficiency versus the incredible cost of compliance, we just don’t think it makes a lot of sense.”

Mr. Steinbach said the council has retained Maureen Mahoney, a lawyer at Latham and Watkins who argued one of the University of Michigan affirmative-action cases, to handle the appeal, which will be filed in the United States Circuit Court for the District

of Columbia.

Mr. Steinbach said the council might also appeal to limit the amount of re-engineering of their networks that colleges would have to do.

In order to meet current compliance orders, he said, colleges would spend billions of dollars to purchase new routers and Internet switches, ultimately forcing many institutions to increase tuition. "It is hard to recall a regulatory action by any federal agency that would have as dramatic a financial impact as this one," Mr. Steinbach said.

*<http://chronicle.com/daily/2005/10/2005102401t.htm>*

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## FY 2006 SPECIAL PROJECTS REPORT - ACTION

### Issue

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UEN established an FY 2006 special projects budget totaling \$1.5 million for network upgrades. Last fall UEN circulated a Request for Proposal (RFP) for Ethernet circuits in many of the Utah School Districts. Contracts were awarded and we are now preparing to implement installation of these circuits. The next step is to analyze these contracts and determine what budget support is available.

### Background

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\$1.5 million is available to implement Ethernet and fiber projects placed under contract last winter. An attached spreadsheet analyzes the costs of moving forward with this implementation. The following assumptions were made while developing this analysis:

- Most Conterra projects are not included in the analysis. The delays in connecting two pilot sites have created serious questions regarding the viability of this project. We recommend that no budget be set aside for this portion of the project until the results of the pilot are known.
- The entire Qwest portion for phase three is included in the analysis. This is likely to change for two reasons. (1) This project is a multi-year project and only a portion will be needed this year and (2) early indications from Qwest are that the one-time costs, after final engineering figures are received, will likely be less than the budgetary estimates.
- All point-to-point fiber projects in the Qwest/Cache Valley Electric territory are included in this budget and should be installed ASAP.
- Circuits should not be installed until ongoing funding can be secured as part of the legislative session. Analysis assumes a March install for most of the circuits.

Our analysis is as follows:

Total one-time	\$2,124,454.00
Total FY 2006 Monthly Recurring charges	\$303,362.00
Anticipated one-time net (after E-Rate)	\$705,731.90
Anticipated net MRC (after E-Rate)	\$103,841.66

Point-to-point fiber budget	\$117,284.00
Net from Special Projects budget	\$926,857.56
Net MRC for FY 2007 and beyond	\$454,203.48

Regardless of the Conterra pilot results additional budget from Special Projects will be required for the affected sites. There are other point-to-point fiber sites that will be rebid and will also impact the special projects budget.

## **Recommendation**

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We recommend that Steering Committee approve the installation of Ethernet service for the projects included in this analysis and that installation takes place after ongoing funds are secured in the next legislative session.



# TAB 4 ATTACHMENT A

## FY 2006 SPECIAL PROJECTS ANALYSIS

District	Vendor	Total Schools	One-Time \$\$	Post-E-rate Total	On-Going	Mon Total	Total FY2006MRC	Discount Rate	Post E-rateExpense	Annual	Annual Post E-rate
Alpine School District Pilot	Conterra	1	90,000.00	65,800.00	1,778.00	8	14,224.00	51%	7,552.24	21,336.00	10,881.36
Washington School District Pilot	Conterra	1	33,333.00	11,666.55	3,958.00	8	31,664.00	35%	11,082.40	47,496.00	16,623.60
Washington School District	Conterra	2	50,000.00	17,500.00	3,958.00	3	11,874.00	35%	4,155.90	47,496.00	16,623.60
Emery School District	Emery Telecom	2	94,205.00	24,493.30	4,370.00	4	17,480.00	26%	4,544.80	52,440.00	13,634.40
Garfield School District	South Central	3	92,828.00	23,207.00	3,600.00	-	-	25%	-	-	-
Uintah School District	UBTA	1	10,022.00	2,705.94	2,070.00	-	-	27%	-	-	-
Duchesne School District	UBTA	3	158,983.00	42,925.41	2,205.00	-	-	27%	-	26,460.00	7,144.20
Sevier School District	CUT	4	124,863.00	37,458.90	4,728.00	4	18,912.00	30%	5,673.60	56,736.00	17,020.80
West Phase 3 Elementary	Qwest	34	1,470,220.00	499,874.80	52,302.00	4	209,208.00	34%	71,130.72	627,624.00	213,392.16
West Phase 3 Elementary	Qwest	30	-	-	38,942.00	-	-	-	-	467,304.00	158,883.36
			2,124,454.00	705,731.90	117,911.00		303,362.00		103,841.66	1,346,892.00	454,203.48
			303,362.00	103,841.66	-		-		-	-	-
			2,427,816.00	809,573.56	-		-		-	-	-
Point-to-Point Fiber	CVE			8,522.00							
Cedar South	CVE			15,229.00							
Payson Jr. High	CVE			10,361.00							
Granitsville Middle School	CVE			8,358.00							
Dixie Middle School	CVE			40,835.00							
Hurricane Middle School	CVE			28,483.00							
Pine View Middle School	CVE			5,898.00							
Snow Canyon Middle School	CVE			117,284.00							
				926,857.56							

## FY 2006 REGIONAL PRIORITIES - DISCUSSION

### Issue

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Regional priorities continue to be an important concern to UEN and our stakeholders. Over the past 4 years Regional priorities have been developed and articulated through the Technical Forum process and other meetings. These priorities are specific to each region and are developed at a local level. UEN has been successful each year at addressing about 90% of these requests.

### Background

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Development for this year's Regional priorities began in Technical Forum meetings last spring. Each region was able to meet together and determine local issues that are timely. These have been assembled, prioritized and forwarded to UEN. In past years these priorities have been presented in the annual Technical Services retreat. This time, however, the process has been handled a bit differently.

The retreat held in August was more strategic, addressing changes in the UEN strategic plan. Additionally, the regional priorities process has matured. UEN Technical services staff has now integrated working on regional priorities as part of our routine.

This year we have returned to a single list. Ethernet requests and the desire to see Ethernet circuits installed throughout the state continue to play a dominant role throughout the list. Most of these requests are addressed in the current Phase 2 implementation. Others are included in the Phase 3 contract and implementation will begin, for those sites, in early spring. The final group will be addressed through the Phase 4 RFP process that is currently under way. Responses for this RFP are due November 3, 2005, with awards anticipated late that month.

UEN staff has sorted, prioritized and estimated budget for this year's requests. Again, it is anticipated that 90% or more of these projects will be addressed. Many of them are already being worked and several have been completed.

### Recommendation

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We recommend that the Steering Committee review this list and support the efforts of UEN to participate in this important process.

# TAB 5 ATTACHMENT A

## FY 2006 REGIONAL PRIORITIES LIST

Project	Region	Budget	Status	Comments	Priority
Juab backbone connectivity and selected schools.	CUES		In Process	Phase 3 and Phase 4 RFP for backbone connection.	4
Wayne school and backbone connectivity.	CUES				4
Re-bid the backbone from Wendover to Tooele.	UEN		In Process	Phase 4 RFP.	4
Look at the Deaf and Blind School, all of the ATC's and Charter Schools.	UEN		In Process	Phase 4 RFP.	4
Snow GeoMax.	CUES				4
Sevier Middle School Ethernet connectivity.	CUES				4
Alternate POP in St. George and GL3 backbone connectivity to Richfield, both from Capital and from Snow South to Richfield facility.	ITS				3
Network technician at NUES to assist the districts with networking needs.	NUES				8
Gigabit WAN Ethernet upgrades district offices and schools (Rich, North and South Summit Districts? All West); Park City Ecker Hills Middle School.	NUES				4
Morgan, Wasatch, and Park City backbone connectivity..	NUES				4
Network redundancy to individual district offices	NUES				3
Voice gateway for IP telephony to Salt Lake.	NUES				8
Effective utilization of the MCU at UBATC region-wide.	NUES				8
Hardening of power at the NUES facility	NUES				2
Number 1 Priority: Bandwidth (this includes implementing QOS and Multicast for needed sites)	SEDC				4
1. Ethernet services for high schools in South Central area - Milford High, Minersville, Escalante, Bryce Valley, Valley High, and Enterprise High.	SEDC				4
1. UEN file E-Rate documents for the region elementary schools.	SEDC				8
2. Ethernet Services for Fiber High School sites (FN sites) in the Qwest area-Beaver High, Parowan High, Canyon View, Cedar High, Snow Canyon High, Pine View High, Dixie High, and Hurricane High.	SEDC				4

3. Ethernet Services for Middle and Intermediate Schools in the Qwest area- Cedar Middle, Lava Ridge, Desert Hills, Fossil Ridge, Snow Canyon, area-Cedar Middle, Lava Ridge, Desert Hills, Fossil Ridge, Snow Canyon, Dixie, Pine View and Hurricane.	SEDC				4
4. Help SEDC and the districts find a reliable high speed solution for Antimony, Panguitch, Boulder, Bryce Valley, Escalante, Milford, Kanab, Valley and E-Valley Elementary Schools (fund the one time connection costs for these sites and help develop an ongoing price structure that won't brake the districts).	SEDC				4
5. Ethernet Services for Eskdale	SEDC				4
Number 2 Priority: Fund Additional Local Technical Support-Network Engineering for LAN/WAN.	SEDC				8
Number 3 Priority: Security Training and Tools for the districts - On-going Peer-to-Peer management tools.	SEDC				6
Number 4 Priority: Backbone Redundancy - on it's way. This includes a redundant path from Dixie College and SUU to the Internet. This includes a redundant path from Dixie College and SUU to the Internet POP in SLC.	SEDC		DONE		3
Number 5 Priority: Elementary Connectivity - We need to start moving forward on this issue.	SEDC				1
Number 6 Priority: Alternate POP to the Internet - on it's way.	SEDC		DONE		3
GeoMax service to Price (CEU).	SESC				4
Redundant data path for the SE Region.	SESC				3
Finish D.O. connections at Emery and Grand.	SESC				4
Place routers or L3 switches at Emery's secondary schools.	SESC				2
Finish Ethernet connection at East Carbon building.	SESC				4
Connect Helen M. Knight Intermediate school to UEN network.	SESC				4
Connect Grand technology office to UEN network.	SESC				1
Support for technical summits.	SESC				7
Continue funding for regional UEN supported positions.	SESC				8
Allocate an Ipv6 block of numbers to the SE Region.	SESC				8
Install 48 port conference bridge at San Juan District Office.	SESC		DONE		8

Fiber improvements & Ethernet connectivity at CEU San Juan.	SESC		DONE		4
San Juan CIB Phase II - Bandwidth Upgrades.	SESC				4
Finish the Ethernet projects.	SLCC				4
Generator backup at SLCC.	SLCC				2
Install 48 port conference bridge.	SLCC		In Process		8
Box Elder - Complete Ethernet solution for Bear River HS.	USU	x	In Process	Phase 4 RFP.	4
Box Elder - Work on complete Ethernet solution for all schools.	USU	x	In Process	Phase 4 RFP.	4
All - on-going sharing of information about monitoring and statistics.	USU	0	Ongoing	T Forum discussion item.	8
Box Elder - replace 2500 routers (still one at Grouse Creek or Park Valley?).	USU	2500		Need to verify and order equipment.	2
Cache - Complete all schools in phase II.	USU	Special Projects	In Process	Scheduled for completion December 2005.	4
Cache - New school, Canyon Elementary .	USU			Included in Phase 2, installation postponed until next year.	1
Cache/BATC - Old Bourne building now BATC, Cache HS to relocate there? May be a way to get BATC Logan on GigE? .5 miles from main BATC Logan campus.	USU			Will remain BATC. Remove from list?	1
Logan - Phase II GeoMax Logan DO and HS, Phase III Mount Logan Middle, LHS So. Campus.	USU		In Process	Scheduled for completion December 2005.	4
Logan - UEN and Logan to work together on comprehensive bid/RFP for all schools.	USU		In Process	Phase 4 RFP.	4
Bridgerland ATC - Ethernet to Logan and Brigham City campuses.	USU		In Process	ATC sites included in the phase 4 RFP.	4
USU all - Diverse/protected route to Logan.	USU	\$60,000	Vendor Negotiations	Comcast, Qwest, others are engaged in providing bids for this request. There may be an opportunity to re-purpose the Comcast SLCC/EBC link to Logan.	3
USU - Complete GL3.	USU		DONE		4
USU all - Remove LSS.	USU				8
USU - Internet POP.	USU	X	Hold	Revisit in the next Internet RFP.	3

USU - Dedicated link for I2/NLR/High Performance/research.	USU		In Process	Exploring IRU and other options.	4
Provo - Ethernet to remaining schools (iProvo except for DO and Independence HS).	UVSC		In Process	Independence is now part of the iProvo project. All other sites are DONE.	4
Alpine - Prepare 500 Sq. Ft space for equipment needed for Ethernet to schools.	UVSC	N/A		District initiative.	8
Alpine - move all services and aggregation point to Lindon Physical Facilities Compound.	UVSC		Hold	District initiative in cooperation with UEN. No timeframe set at present.	8
Alpine - Work with Qwest, Contera, AF City, County, UTOPIA and others for Ethernet plan for all schools.	UVSC		In Process	Phase 4 RFP.	4
Alpine - Conterra install for Lehi HS.	UVSC		In Process	Pilot site with 11/1 install commitment.	4
Nebo - Ethernet connectivity to secondary schools.	UVSC	Special Projects	Hold	Pending Conterra pilot.	4
Nebo - Connectivity to two new high schools, one new Jr. High and eight elementary schools.	UVSC		In Process	Phase 4 RFP.	1
UVSC - Finish GL3.	UVSC		DONE		4
UVSC - Internet POP.	UVSC	X	Hold	Revisit in the next Internet RFP.	3
UVSC - Firewall.	UVSC	N/A		UVSC initiative.	6
UVSC - Port Mirror solution from new backbone equipment.	UVSC	0	In Process	Details required to coordinate between UEN and UVSC.	6
UVCN - Fix routing from UEN to UVCN partners (iProvo, Spanish Fork, American Fork, County and UTOPIA).	UVSC	0	In Process		8
UVSC all - Higher b/w or Ethernet to all schools.	UVSC	Special Projects	In Process	Phases 2, 3 and 4.	4
American Achievement Academy circuit installation.	UVSC	Circuit	DONE		1
Ronald Reagan Academy circuit installation.	UVSC	Circuit	DONE		1
DATC - Complete GL3.	WSU		DONE		4
Ogden - Phase II - Ben Lomand HS, Ogden HS, Dist. Office, Washington High.	WSU		In Process	Scheduled for completion December 2005.	4
Ogden - Conterra Ethernet to secondary schools.	WSU	Special Projects	Hold	Pending Conterra pilot.	4
Ogden - GeoMax to both DO locations.	WSU	Special Projects	In Process	Scheduled for completion December 2005.	4

Weber - Secondary in phase II, Elementary in phase III.	WSU	Special Projects	In Process	Phase 2 scheduled for completion Dec 2005, site surveys for phase 3 Elementary need to be scheduled and completed this fall.	4
Weber - move all services and aggregation point (except for voice) to Two Rivers. Still running a couple DS-3's at DO.	WSU	N/A	DONE		8
WSU - support 24/7 nature with robust connectivity.	WSU	N/A	DONE		2
WSU - Establish a permanent workable solution for the Davis campus.	WSU	N/A	In Process	Pending WSU personnel changes and planning.	4
WSU/DATC all - Remove LSS.	WSU	N/A	DONE		8
OWATC - GeoMax to all three locations (Main, BDO in conjunction with Weber and Roy/Iomega location).	WSU	N/A	In Process	Phase 4 RFP.	4
WSU - Complete GL3.	WSU	N/A	DONE		4
Install 48 port conference bridge.	WSU	N/A	DONE		8

**REPORT OF THE INSTRUCTIONAL SERVICES  
SUBCOMMITTEE - DISCUSSION**

The Instructional Services Subcommittee will report to the Steering Committee on items covered in the subcommittee agenda.



**REPORT OF THE TECHNICAL SERVICES  
SUBCOMMITTEE - DISCUSSION**

The Technical Services Subcommittee will report to the Steering Committee on items covered in the subcommittee agenda.

## STEERING COMMITTEE MEETING MINUTES

### UTAH EDUCATION NETWORK STEERING COMMITTEE

August 26, 2005 – 9:00 am

**Members Present:** Jon Crawford, Linda Fife, Stephen Hess, Kory Holdaway, Pat Lambrose, Wayne Peay, Mike Petersen, Dick Siddoway, Weldon Sleight, Ray Walker, and Gary Wixom.

**Others Present:** Charice Black, Barry Bryson, Karl Buchanan, Jeff Egly, Claire Gardner, Boyd Garriott, Cynthia Grua, Laura Hunter, Troy Jessup, Karen Krier, Pete Kruckenberg, Bill Kucera, Lisa Kuhn, Jim Langston, Bryan Peterson, Victoria Rasmussen, Dennis Sampson, Jim Stewart, Cory Stokes and Louise Tonin .

#### **Welcome and Introductions**

Gary Wixom welcomed everyone to the August meeting.

#### **Committee of the Whole**

#### **Tab 30 – FY 2006 Strategic Plan Goal 1**

Jim Stewart discussed the Technical Services retreat earlier in August in Price and how successful it was this year. Ryan Thomas and Bryan Peterson were key players in the planning and execution and thanks were extended to them for their hard work. A working group comprising of nine individuals met on June 7 for half a day of preliminary planning. Using the information that was collected during that meeting the UEN management team planned the retreat agenda and activities.

Expectations and objectives were shared during the afternoon session on August 10th. Participants were divided into five groups. Each group was asked to consider one or two existing strategic objectives. Four of the groups were assigned to consider adding new objectives based on the presentations made during the first afternoon. Upon completion of the five group reports, President Thomas led a discussion to finalize a draft document to be presented at the August Steering Committee meeting.

Several new objectives were created. For a detailed list of the goals and objectives please see Tab 30, Attachment A. Discussion focused on goals one and six. It was determined that Goal 6 needed to have two additional objectives added and that they should be inserted as objectives one and two. They should read as follows:

6.1.1 Support the efforts of the State Office of Education and districts to re-establish an Education Technology Initiative providing adequate funding to meet the technical needs of public schools.

6.1.2 Support the Utah System of Higher Education to increase the level of funding provided through the Higher Education Technology Initiative.

Objectives 6.1.1 and 6.1.2 in the current draft of the strategic plan would then become 6.1.3 and 6.1.4.

Steve Hess moved that: (1) Goal 6 be amended to add the two new items, (2) that the Steering Committee support the Education Technology Initiative and Higher Education Technology Initiatives, and (3) that UEN would assist as requested to provide data and evidence needed to make the funding case to the Legislature. **THE MOTION PASSED WITH ALL VOTING IN FAVOR.**

Dick Siddoway moved that Goal 1 be approved as written in the agenda. **THE MOTION PASSED WITH ALL VOTING IN FAVOR.**

## **Steering Committee Business Meeting**

### **Instructional Services Subcommittee Report**

#### **Tab 31 – EDNET Facilitators**

Linda Fife explained the major points in the proposed Distance Learning Facilitators Policy. Based on prior action of the Instructional Services Subcommittee, she moved that the Steering Committee approve the policy as written. **THIS MOTION PASSED WITH ALL VOTING IN FAVOR.**

#### **Tab 1 – eMedia Committee Report**

Linda Fife reported that an eMedia Task Force met as recommended during the June meeting of the Steering Committee. Tab 1 has complete discussion notes and recommendations from the task force discussion. She recommended that this remain an item for further discussion in the October Steering Committee.

#### **Tab 2 – IP Video Project Status Report**

Items regarding second phase of the IP Video Project are covered in the report found behind Tab 2.

#### **Tab 3– Charter Schools**

Charter schools require delivery of services comparable to public schools. Unfortunately, this causes unfunded impacts for USOE, UEN, and the public school districts. It was agreed that the charter school system and its effect upon the network need to be better understood. It was agreed that the Instructional Services Subcommittee should have a charter school representative on the committee. Tab 3, Attachment A outlines

Utah Education Network and Charter Schools Basic Internet and Interactive Video Conferencing Services.

**Tab 4 – UEN Professional Development Update**

An annual summary of Professional Development activities is provided in Tab 4. The Professional Development department is fully staffed and classes are full with some waiting lists. The Instructional Service Subcommittee commended the Professional Development department and recommended continued observation of the issue of meeting high demand with existing staff resources.

**Tab 5 – Pioneer Library 10th Anniversary**

Pioneer Library will be celebrating its 10th Anniversary in 2006. More information will be shared at a later date.

**Tab 6 – Adult Education**

A needs assessment is being conducted among adult education directors and will soon be expanded to include additional programs in the urban areas of the state as well as other private and public organizations. Additional needs will be outlined and prioritized as they are identified. In order to help direct and facilitate UEN's adult education efforts, the Instructional Services Subcommittee approved adding an Adult Education professional to join the Instructional Services Subcommittee.

**Tab 7 – UEN-TV Update**

Linda Fife briefly shared the highlights of the information items provided in the update. The UEN-TV fall programming guide, responses to programming changes, and the top series were presented. A detailed list of the programs can be found behind Tab 7, Attachment A. The Executive Summary on the CPB Digital Services Fund Grant (Youth in Custody) can be found behind Tab 7, Attachment B. Information on the Call for Submissions for original interstitials can be found behind Tab 7, Attachment C.

**Tab 8 – Quarter Four Progress Report on FY 2005 Strategic Plan**

Linda Fife reported that this section was a progress report and no further action is required on this item.

**Tab 9 – Higher Education Advisory Committee Report**

Linda Fife briefly talked about this committee. There are numerous new members. They are hoping that their next meeting to be held in September will have more attendees.

**Tab 10 – Public Education Advisory Committee Report**

Linda Fife reported that this committee did not meet this summer and that they were looking forward to their September 23, 2005 meeting.

*Utah Education Network Instructional Services Subcommittee Meeting Minutes*

**Attendees:** Charice Black, Rick Cline, Linda Fife, Rich Finlinson, Claire Gardner, Cyd Grua, Laura Hunter, Steven Iinuma, Karen Krier, Pat Lambrose, Wayne Peay, Mike Petersen, Victoria Rasmussen, Weldon Sleight, Dick Siddoway, Cory Stokes, Nate Southerland and Gary Wixom

**Tab 1 - eMedia Committee Report – Discussion**

The Subcommittee discussed the eMedia report. A committee met on August 1st to explore how eMedia can serve Public Education and Higher Education needs. A project and status report on UALC discussions were held. Five recommendations are included under Tab 1. The Subcommittee discussed the need for better communication regarding large projects like eMedia.

**Action** - UEN staff will draft a project process document, share with Public Education and Higher Education Advisory Committees and bring to October 2005 Instructional Services Subcommittee for discussion.

**Tab 2 - IP Video Project Status Report – Discussion**

A discussion of second phase of EDNET migration was held. The Subcommittee addressed MCU installation management software, faculty and facilitator training.

**Action** - This is an information item.

**Tab 3 - Charter Schools – Discussion**

The Subcommittee discussed the need to better understand charter schools and the role they play in the network. A summary of these issues is included under Tab 3.

**Action** - A charter school representative will be asked to join the Instructional Services Subcommittee.

**Tab 4 - UEN Professional Development Update – Discussion**

Victoria Rasmussen presented a summary of the work of the Professional Development department. She reported an increased demand for UEN workshops, including waiting lists for most workshops. The full report is under Tab 4.

**Action** - The Subcommittee commended Victoria Rasmussen for the work of the Professional Development department and recommended continued observation of the issue of meeting high demand with existing staff resources.

**Tab 5 - Pioneer Library 10th Anniversary – Discussion**

Rich Finlinson presented a Pioneer Library audio report to the committee, created as part of site focus group discussions with librarians in Weber, Cache, Davis and Salt

Lake counties in August 2005.

**Action** - This is an information item.

### **Tab 6 - Adult Education – Discussion**

Laura Hunter discussed UEN's adult education development in cooperation with district adult education directors, adult education staff at the Utah State Office of Education, Department of Workforce Services and Utah System of Higher Education. An on-going survey of district adult education directors throughout the state has exposed many different needs, summarized in tab 6.

**Action** - The Subcommittee approved adding an Adult Education professional to join the Instructional Services Subcommittee.

### **Tab 7 - UEN-TV Update – Discussion**

Attachment A

Laura Hunter discussed the fall programming schedule for UEN-TV, including the top series information pages visited, and positive responses to programming changes. The fall program grid is available in Tab 7.

Attachment B

Laura Hunter discussed the CPB Digital Services Fund Grant (Youth in Custody) and two other grants in process.

Attachment C

UEN-TV issued a call for submissions to all Utah high schools, colleges, and universities to submit original interstitials for broadcast beginning in the summer of 2006. All information regarding submissions is available in Tab 7.

**Action** - These are information items.

### **Tab 8 - Quarter Four Progress Report on FY 2005 Strategic Plan – Discussion**

This report includes a summary of Q4 2005 for UEN Instructional Services, Instructional Delivery and Public Information Departments.

The next report will be for Quarter 1 FY 2006 will be in the October meeting.

**Action** - This is an information item.

### **Tab 9 - Higher Education Advisory Committee (HECC) Report – Discussion**

Cyd Grua discussed the HECC conference call on July 20th. An updated email and phone list of all HECC members will be compiled and distributed. Contact Cyd Grua if you have questions or suggestions for this Subcommittee.

**Action** - This is an information item.

### **Tab 10 - Public Education Advisory Committee (PECC) Report – Discussion**

The Public Education Advisory Committee did not meet during the summer. Contact Rick Gaisford if you have questions or suggestions for this Subcommittee.

**Action** - This is an information only item.

### Technical Services Subcommittee Report

#### **Tab 11 – Secondary School Ethernet Multi District RFP**

Ray Walker reported that UEN staff has been working with all districts statewide over the past several months to plan the scope of the RFP and desired outcomes, including coordination on school preparation and readiness, E-Rate filings, resource planning, etc. They have requested that one representative from each district and/or regional service center participate in the evaluation of proposals relevant to their district. They also anticipate having completed all contract negotiations resulting from the RFP before the Thanksgiving holiday in November. A final report will be shared with the Steering Committee in December.

Ray Walker moved that the UEN Steering Committee endorse the efforts by UEN to work with the districts in developing and circulating this RFP. **THIS MOTION WAS APPROVED WITH ALL VOTING IN FAVOR.**

#### **Tab 12 – FY 2006 Regional Priorities**

Ray Walker reported that UEN and the Regional Technical Forums have been working together over the past 4 years to establish regional priorities. These priorities have been addressed at UEN retreats prior to this year. For the past few months UEN Advocates have been working with regional leaders to develop regional priorities for the current fiscal year. A first draft of those priorities can be found behind Tab 12, Attachment A. Revamping of the priority list will be done at a later date. There was discussion of the impact of charter schools on UEN's circuit budget and NOC and Field Operations staff members. Charters schools must be taken into account in the strategic planning process.

Ray Walker moved that the impact of Charter Schools be discussed at the next Steering Committee meeting. **THIS MOTION PASSED WITH ALL VOTING IN FAVOR.**

#### **Tab 13 – FY 2005 Final Progress Report**

The final 6 month report for the FY05 year was briefly discussed. More detail can be found behind Tab 13, Attachment A.

#### **Tab 14 – Internet Capacity/St George PoP Update**

A new Internet connection has been established at the UEN St. George Point of Presence. Internet capacity with other providers has been increased. The connectivity

to Broadwing has been so effective that it has required UEN to take additional steps to load balance our Internet traffic across all three of our Internet links. This balancing effort will continue through August and September as fall term begins and traffic patterns and needs are established. For the list of improvements that have been made as a result of these activities please see Tab 14.

*Utah Education Network Technical Services Subcommittee Meeting Minutes*

**Attendees:** Barry Bryson, Karl Buchanan, Boyd Garriott, Stephen Hess, Troy Jessup, Lisa Kuhn, Pete Kruckenberg, Bryan Peterson, Jim Stewart, Louise Tonin and Ray Walker

**Tab 11 – Secondary School Ethernet Multi-District RFP**

Barry Bryson and Dennis Sampson have been working very hard on the RFP. In support of the E-Rate program, we began the process earlier in the year and have coordinated with the districts. We have required that each district and/or regional service center be involved in the evaluation of the proposals relevant to their district. The proposal will include at least 15 districts both urban and rural, applied technology colleges and charter schools. It is anticipated that the work with the districts and the research will be completed next week.

The question was raised if any analysis has been done on the impact of the charter schools and how they impact UEN from the dollar standpoint. Jim Stewart stated there has been no financial analysis done on charter schools. In the past, we worked with USOE and determined we were responsible for charter secondary schools. This year it has come to our attention that we need to do some strategic planning as they consume more of our resources. Each charter school is considered a separate district and needs to file their E-Rate reimbursement. Troy Jessup would like to see a constant point of contact for security purposes. Karl Buchanan would like to see representation from the charter schools on the TCC committee. We are planning on bringing up charter schools in the next Steering Committee meeting to have a detailed discussion.

**Tab 12 – FY 2006 Regional Priorities**

The Regional Priority list shows most of the requests are Priority 4 – Increased Capacity.

The PRIORITIES column is based on the eight hierarchy priorities provided by and approved by the Steering Committee. Jim Stewart will be making a few changes to the list. As new priorities come up, they will be added to the Regional Priorities List. We don't get to everything every year, but the projects are kept on the list until completed. We will take the list and start to develop costs to meet these needs and take it to the Steering Committee in October.

We will need to be alert as we renew contracts and make sure we refresh equipment at that point. We need to make sure we continue with finished services and have a good plan for refreshing equipment.



Stephen Hess suggested building a redundant path that is not built on E-Rate. Jim Stewart stated that we are now seeing the next step is IRU's – dark fiber and lighting. E-Rate will not fund this nor redundant circuits. We need to consider UEN's role in obtaining fiber and move from E-Rate services on the backbone. Another issue is reliance upon just one service provider. UEN has had some strategic discussions with Utopia who has acquired some fiber IRU's between northern Idaho and Las Vegas. There are other providers coming onto the scene. We need to see how UEN can leverage that new infrastructure and decrease reliance on one single provider.

### **Tab 13 – FY 2005 Final Progress Report**

This is a report of the last six months and will finalize FY05. A lot of core work was completed by the end of February. There was a lot of other work that was done during this time. There is a spark in UEN Technical Services right now because we have accomplished so much in the last six months. There is an energy and confidence that has developed because of this even though we lost two engineers and a NOC employee prior to doing all this work.

We now have two Junipers located here and one in St. George. They are working very well and we are satisfied with their performance.

### **Tab 14 – Internet Capacity/St. George PoP Update**

Barry Bryson reported that there have been a number of improvements to Internet access. In early May we disconnected the Sprint link and the AFS link was doubled from 300 meg to 600 meg. AFS has done some improvements to their network and have tunneled us to Level Three. They have now added Global Crossing and we have peering to Global Crossing. We are now getting 600 meg instead of 450 meg at no change in cost.

On August 5th we turned up the GigE link Broadwing in St. George. Broadwing has very good connectivity and we have had to do some work to keep all traffic from wanting to go in that direction. We are charged on the outbound and need to keep under 300 meg. We have unlimited incoming on the line.

Pete Kruckenberg talked about the St. George link and how we now have opened the option where if there is a backbone cut, the whole state could be going out on different Internet connections. This is affected by the way our Internet addresses are assigned throughout the network. If there was a cut, there would be a significant amount of school districts and other customers who use UEN address space that would lose connectivity regardless of Internet availability. The addresses would be announced out of one place as part of larger block, but their connectivity with us would be to another place.

This is an example of the need for a strong policy in place that would benefit all of our customers. We have a list of addresses of who will be affected. One of the Regional Priorities is the allocation of IPV6 addresses. Jim Stewart stated that no addresses will be allocated until the TCC has completed its work with policies and they are in place. The TCC understands we are not interested in re-addressing the entire network. We are interested in managing IP addresses and setting in place policies that are fair to everyone. It will allow people to have the IP address space they need going forward.

There will be a need to make some changes when managing the IP address space. It is not directed at any one customer. The TCC was looking to do two things: 1) inventory and find where all the different addresses resided and 2) to put a policy in place to continue with our IPV4 and move into the IPV6 framework. When we move into IPV6 there will be a clear policy in place. The TCC general meeting will be September 29, 2005.

#### **Tab 17 – Steering Committee Meeting Minutes**

A motion was made to approve the previous minutes. **THIS MOTION PASSED WITH ALL VOTING IN FAVOR.**

#### **Tab 18 – Other**

Gary Wixom and Mike Petersen reported on the status of appointments to fill vacancies on the Steering Committee. When a new Public Education Deputy has been named, we will send the recommendations on to the Governor's Office. They are still working on a recommendation for the business sector vacancy and a final decision has not been made at this time.

The meeting was adjourned. The next Steering Committee meeting is on October 28, 2005, 9:00 am, at the Dolores Doré Eccles Broadcast Center.

***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](http://www.uen.org/steering/html/materials.html). Please refer to them for additional reference.***

**STEERING COMMITTEE BUSINESS MEETING**

**TAB 9**  
**OTHER**