

# **UEN Board Meeting**

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January 18, 2013 9:00 a.m.

Dolores Doré Eccles Broadcast Center and IVC



# Utah Education Network Board Meeting

## Agenda

January 18, 2013 9:00 a.m.

### Welcome and Introductions

<b>1. Approval of the Minutes – Action</b> .....	1
1. Attachment A – Utah Education Network Board Meeting Minutes.....	3
<b>2. UEN Board Co-Chair Election – Action</b> .....	7
<b>3. Executive Director’s Report – Discussion</b> .....	9
<b>4. UEN Services Discussion and Cost Ranking – Discussion</b> .....	11
4. Attachment A – UEN FY 2013 Budget Summary.....	13
<b>5. Internet2 Services and Net+ – Discussion</b> .....	19
<b>6. Utah Data Alliance – Discussion</b> .....	21
6. Attachment A – Utah Data Alliance Budget Request and Letters of Endorsement.....	23
<b>7. BTOP Project Update and Recent Publicity – Discussion</b> .....	27
<b>8. UEN Calendar – Discussion</b> .....	31
<b>9. Other</b> .....	35

## **Upcoming Meetings**

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UEN Board Meeting – February 15, 2013 at 9:00 a.m.

## **Approval of the Minutes – Action**

### **Description**

Minutes from the UEN Board meeting on December 5, 2012 have been prepared by Denise Elwood and are presented for Board review and approval.

### **Recommendation**

This is an action item requiring Board approval.



# 1. Attachment A – Utah Education Network Board Meeting Minutes

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Dolores Doré Eccles Broadcast Center and IVC  
December 5, 2012 9:00 a.m.

**PRESENT:** Clark Baron, Eric Denna, Brenda Hales, Gary Koeven, Dana Miller, Donna Jones Morris, Glen Taylor, Robert Wagner, Barry Walker, Ray Walker and Denise Elwood-Secretary. *UEN staff in attendance:* Ray Timothy, Laura Hunter, Lisa Kuhn and Rich Finlinson. *Guest:* Steve Corbató.

## **Welcome and Introductions**

Brenda welcomed everyone to the December UEN Board Meeting.

## **Approval of Minutes from Previous Meeting**

Minutes from the October 26, 2012 meeting were previously emailed to the Board Members plus a hard copy was provided at this meeting. **A motion was made and seconded to approve the minutes from October 26, 2012. The members present voted unanimously. THE MOTION CARRIED.**

Minutes from the November 16, 2012 conference call meeting were previously emailed to the Board Members plus a hard copy was provided at this meeting. **A motion was made and seconded to approve the minutes from November 16, 2012. The members present voted unanimously. THE MOTION CARRIED.**

**A motion was made and seconded for this next portion of the business meeting to be a closed meeting. All those in favor:** Clark Baron, Eric Denna, Brenda Hales, Gary Koeven, Dana Miller, Donna Jones Morris, Glen Taylor, Robert Wagner, Barry Walker, Ray Walker. No opposed, no abstentions. **THE MOTION CARRIED.**

**A motion was made and seconded to adjourn the closed meeting. All those in favor:** Clark Baron, Eric Denna, Brenda Hales, Gary Koeven, Dana Miller, Donna Jones Morris, Glen Taylor, Robert Wagner, Barry Walker, Ray Walker. No opposed, no abstentions. **THE MOTION CARRIED.**

## **Tab 4 – Advisory Council Guidelines**

Ray Timothy shared with the Board the recommended list of new UEN Advisory Council Appointees. It was recommended that two more representatives be added to the list, a teacher and a representative from a private higher education institution. It was also recommended that council members serve staggered 2 and 4 year terms which will be determined at a later date. Ray then went through the proposed Advisory Council Guidelines. Please note the following corrections:

- II. Organization
  - A. Applied Technology Center should read Applied Technology College  
Add Private Higher Education Institution  
Add Teachers for a total of two; one from Elementary and one from Secondary
  - C. Change the wording in the first sentence to read: Whenever a vacancy on the Advisory Council occurs, the UEN Board shall appoint a replacement, after consultation with the Executive Director.

III. Responsibilities

B. Change the wording to read: they may be asked to...

**A motion was made and seconded to approve the Advisory Council member list and guidelines as amended. THE MOTION CARRIED.**

**Tab 5a – NTIA BTOP Infrastructure Grant Update**

Lisa Kuhn reported to the Board members that UEN has requested a 90-day BTOP extension accommodate receiving and installing 100 Gbps equipment. The grant is scheduled to officially end on January 31, 2013. NTIA has indicated to UEN the funds are not subject to federal sequestration. UEN is developing a sustainability plan for on-going maintenance, equipment replacement and support costs associated with the new equipment being purchased with BTOP funds.

**Tab 6a – UEN Services List**

Laura Hunter presented the list of UEN's top ten services in terms of overall budget, operating budget, personnel and website visits. To see the complete list please refer to Attachment A, Tab 6a as there are numerous graphs and charts with detailed information.

**Tab 6b – NOAA Proposal**

Ray Timothy shared with the Board members that UEN has been invited to submit a proposal to the National Oceanic and Atmospheric Administration (NOAA) to establish optical network connectivity to two National Weather Service sites in Salt Lake City. Steve Corbató provided additional information. A formal RFP has not been issued yet and as with any RFP, UEN will need to seek guidance from the University of Utah purchasing department when the NOAA RFP is issued to make sure we're in compliance. To see more detailed information regarding the background and benefits please refer to Tab 6b. **A motion was made and seconded to approve UEN moving forward on this proposal when the formal RFP is issued. THE MOTION CARRIED.**

**Tab 6c– Utah Data Alliance**

The Utah Data Alliance (UDA) project provides statewide longitudinal educational data that is valuable for policy makers and decision leaders. The project was initially funded through ARRA funding that is ending in June 2013. Members of the planning group for UDA are exploring options for hosting this project after the grant funding ends. UEN's role with UDA consists of purchasing and building a secure environment to house the data storage system and to coordinate the development of the system with UDA partners and the developer contractors. Please refer to Attachment A Tab 6c for more information on the Utah Data Alliance project and the services it offers. **A motion was made and seconded for UEN to move forward if funding is available for the UDA project. THE MOTION CARRIED.**

**Tab 7a – Strategic Communication: Fall Conferences**

Due to time constraints the Board members were asked to read this on their own.



### **Tab 7b – Legislative Request Website**

Due to time constraints the Board members were asked to read this on their own.

### **Tab 8 – Annual Planning Calendar**

Due to time constraints the Board members were asked to read this on their own.

### **Tab 9 – Executive Director’s Report**

Ray Timothy reported to the Board members on several items. The first item was that UEN is in the process of updating their “Welcome to UEN” booklet. We are still making some updates to this publication and hope to have the final version ready for printing next week. Ray also shared that Victoria Rasmussen will be leaving her full-time job at UEN after the first of the year. Victoria has expressed her desire to stay with UEN in a part-time capacity. Her husband, Chuck Wight, is the new president of Weber State University.

Ray then presented Brenda Hales with an award for her five years of service as co-chair of the UEN board and, prior to that, the UEN Steering Committee. He read the following tribute which was inscribed on the award:

*Whereas, Brenda Lee Hales has long championed the Utah Education Network; and whereas UEN has made a smooth transition in governance and executive leadership under her insightful guidance; and whereas she has therefore sustained high quality educational resources for students, faculty and staff throughout public education, higher education and libraries in Utah; and whereas, she is now stepping down as UEN Board Co-Chair after five years of superb service; Now therefore the Utah Education Network hereby pays tribute to Brenda Lee Hales  
On the occasion of her last UEN Board Meeting  
Wednesday, December 5, 2012*

A brief tribute video was shown and she was presented with a UEN jacket. Several board members expressed their gratitude to Brenda for her many years of service to UEN. Brenda noted that she would have more details on her new assignment at USOE after their Friday board meeting on December 7. **A motion was made and seconded to adjourn. THE MOTION CARRIED.**

Respectfully submitted,  
Denise Elwood



## **UEN Board Co-Chair Election – Action**

### **Description**

Board members are asked to elect a new co-chair.

### **Background**

With the resignation of Brenda Hales, the UEN Board is asked to elect a co-chair representing Public Education. The relevant excerpt from Utah Code is:

- (f) (i) The Utah Education Network Board shall elect:
  - (A) a co-chair from the members representing the state system of public education; and
  - (B) a co-chair from the members representing the state system of higher education.

### **Recommendation**

This is an action item.



## **Executive Director's Report - Discussion**

### **Description**

Ray Timothy will update the Board on several informational items.



## UEN Services Discussion and Cost Ranking – Discussion

### Description

Board members are invited to continue their discussion of the detailed services list with cost accounting.

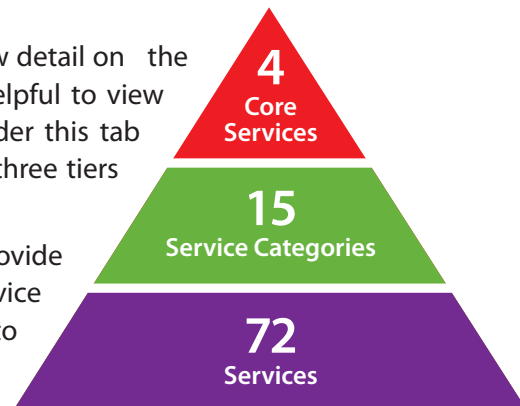
### Background

To further our work on the planning question: *What services do/should UEN provide so that they [UEN's customers] can do what they need to do?* There are several reports that have been developed and discussions that have occurred in prior Board meetings as follows:

- May 2012 – Five Questions summary with detail on Application Services
- September 2012 – Detailed services list with cost accounting
- October 2012 – Detailed services list with cost accounting and personnel allocation
- December 2012 – Top 10 services in terms of overall cost, operating budget, and personnel

In the December meeting, Board members saw detail on the Top Ten of 72 different UEN services. While it's helpful to view these at a granular level, the report included under this tab helps to summarize the service categories in the three tiers illustrated to the right.

Understanding this hierarchy helps provide additional detail on the relationship of one service to another and how individual services roll up into larger service categories and the four main core services of UEN.



The 15 second-level services are also described in the UEN Informational Booklet provided to Legislators and stakeholders, and our cost accounting detail has been done at the most granular level for 72 different services.

Of course, this is a work in progress based on both Board input and how managers at UEN have reported their work. Board members are invited to review the service categorization and discuss whether the categories seem appropriate as outlined, make sense, and provide valuable additional context.

## **Recommendation**

This is an information item. No further action is required of the Board members at this time.



## 4. Attachment A – UEN FY 2013 Budget Summary

### FY 2013 BUDGET SUMMARY UEN SERVICES COST ALLOCATION

SERVICE LEVEL 1 (4 SERVICE AREAS)	SERVICE LEVEL 2 (15 UEN SERVICES)	COST: TOTAL
<b>Network Services</b>	Broadcast	1,341,509
	Internet Access	9,479,893
	Internet Filtering	219,034
	Network Support and Security Monitoring	1,728,400
	Wide Area Network	9,669,526
<b>Application Services</b>	Interactive Video Conferencing	2,157,950
	Learning Management System	1,284,511
	Pioneer Library	534,306
	Teaching and Learning Tools	3,568,982
	Web conferencing	175,473
<b>Support Services</b>	Distance Ed Support	4,025
	E-Rate Support	357,130
	Regional Support	655,998
	Training	1,215,202
<b>Operational Services</b>	Operational Services	3,622,097
<b>Grand Total</b>		<b>36,014,035</b>

SERVICE LEVEL 1 (4 SERVICE AREAS)	COST: TOTAL
<b>Network Services</b>	22,438,362
<b>Application Services</b>	7,721,222
<b>Support Services</b>	2,232,355
<b>Operational Services</b>	3,622,097
<b>Grand Total</b>	<b>36,014,035</b>

Continued on pg 14

CORE SERVICE	SERVICE CATEGORY	#	NAME OF SERVICE	PURPOSE	COST: TOTAL
Network Services	Wide Area Network	1	End Site Connectivity	Achieve efficiency by aggregating into either major backbone PoPs or school district offices.	9,000,477
		2	WAN repairs & maintenance	Continue essential services.	265,918
		3	WAN installation	Continue essential services.	403,132
	Internet Access	4	Statewide Backbone	Perform critical educational services, connect to the Internet with 10GE and 1GE	8,167,303
		5	Research Network	Advance collaborative research using Internet2 and commodity Internet; includes the University of Utah Metro Fiber Ring and additional EPSCoR funded connections among area research institutions	207,531
		6	Fiber Optic Transport	Manage UEN and stakeholder owned fiber; includes municipal/cross town fiber systems and large high capacity DWDM ROADM systems .	308,232
		7	Commodity Internet Access	Access the Internet via multiple geographically diverse access points to the commodity Internet using tier-1 providers.	767,099
		8	Internet Peering	Maximize service and efficiency; includes settlement free peering and exchange of bandwidth where possible.	29,728
	Network Support and Security Monitoring	9	Helpdesk Services	Receive timely support or support escalation to resolve issues relating to UEN services; includes TSSC call center, NOC call support and KUEN Viewer Services using Quickticket	63,997
		10	Network design, engineering and security consulting	Implement secure and effective network solutions; includes security assessments, design consultations, solution development.	168,420
		11	DNS Services	Convert IP names to addresses; includes InfoBlox for UEN-hosted domains, AnyCast name resolution in the event of backbone failure, and DNS maintenance.	51,099
		12	State of Utah Registry for Internet Numbering (SURIN)	Provide and manage limited IPv4/16 and IPv6 addresses	14,165
		13	Network Monitoring, Management, and Maintenance	Have a reliable, secure network; this is a continuous service.	1,121,963
		14	Security Monitoring, Management, and Maintenance	Be assured of network security; this includes firewalling, vulnerability assessments, continuous monitoring and prevention, responding to breaches, and development of monitoring tools.	282,775
		15	Site Equipment Hosting	Co-location of equipment for Partners, Customers, and Stakeholders.	25,980
	Internet Filtering	16	Filtering	Maintain CIPA compliance; includes M8e6 filtering software, strategic planning with network administrators, appliances, and problem resolution	187,376
		17	Filtering Cloud Services	Maintain CIPA compliance with cloud solutions that are easier to manage and maintain; includes software maintenance and support	31,658
	Broadcast	18	UEN-TV	Learn, engage, and connect with educational content.	810,842
		19	MHz Worldview	Learn, engage, and connect with English accessible international news, cultural, and educational programming	6,275
		20	Digital broadcast services	Receive content using Mobile DTV in Wasatch Front and KUER digital relay in rural areas	4,056
		21	Broadcast infrastructure	Provide broadcast services; includes master control, transmitter, translators, field engineering, microwave interconnect, UEN Data telemetry for KUED in Richfield and St. George; HD audio over IP for KUER to 3 sites	520,336

\*SERVICE NUMBERS CONTAINING THIS COLOR ARE WITHIN UEN'S TOP 10 OVERALL COSTS

CORE SERVICE	SERVICE CATEGORY	#	NAME OF SERVICE	PURPOSE	COST: TOTAL
Application Services	Interactive Video Conferencing	22	Interactive Video Conferencing	Teach, learn, conduct meetings; includes service management, administration, monitoring, end site	936,340
		23	IVC Repairs & Maintenance	Conduct high quality distance learning events.	859,288
		24	IVC Installation	Conduct high quality distance learning events.	295,526
		25	IVC Scheduling	Schedule classes, meetings and events	55,653
		26	Audio Conferencing	Conduct meetings: the conference call system can also integrate with UEN IVC video.	11,142
	Learning Management System	27	Instructure Canvas	Deliver courses	1,235,177
		28	Moodle	Deliver courses (be retired when all classes are moved to Canvas)	21,804
		29	Add-on tools for Canvas	Teach effectively and realize cost-savings through consortium licensing; includes Turnitin, Respondus,	27,529
	Pioneer Library	30	Reference Databases/Subscriptions	Teach effectively and realize cost-savings through consortium licensing; includes Culturegrams, EBSCO,	495,912
		31	Preschool Pioneer	Teach early learners; includes activity calendars, local events, skill resources, media resources, professional development links. Student interactives: Literacy, numeracy,STEM.	13,956
		32	Pioneer Web Pages	Access content efficiently; includes main page, K-12 page, preschool page provides web front end and back-end authentication to licensed products	780
		33	Utah Kids Ready to Read	Locate early literacy resources; Partnership with Utah State Libraries. Grant supported, part of Preschool Pioneer.	4,329
		34	Primo Central	Conduct centralized searches (i.e., federated search engine) for the databases in Pioneer Online Library.	19,328
	Web conferencing	35	Web conferencing	Create and participate in web conferencing; includes consortium licensing and support for Wimba, MOVI, Adobe Connect, SeeVogh (pilot), Big Blue Button (via Canvas)	175,473
	Teaching and Learning Tools	36	Online Tools and resources	Teach and learn. Includes: Activities Tool, Apps4Edu, CACTUS licensing data, Core database and display, Curriculum Search, Distance Ed Course Catalog, DNS Tools, Educator Search, eMedia, NROC Hippocampus, Lesson Plans (display, creation tool, admin), My UEN Courses, my.uen portal, Rubric Tool, UEN Cheese Science, UEN SciFi Friday,UEN.org (and mobile friendly version), UEN-TV What's On, UEN Widgets, Utah Schools search, Virtual Tools	1,092,204
		37	Web site hosting and maintenance	Access educational projects and resources including: Ci-Water EPSCoR, CSSS-Science, Eccles Broadcast Center, Finance in the Classroom, Heritage Gateway, Independent Materials Alignment, iUTAH EPSCoR, NetSafe Utah, RII EPSCoR, StateNets, STEM Learning Opportunities, SURIN Utah, TAH Connection Project, UAACCE, UIMC Media Evaluations, Utah Coalition for Civic, Character & Service Learning, Utah Data Alliance, Utah ITV, WaterWise Utah	391,696
		38	On-line Testing	Administer online testing services for K-12; includes server, network, and firewall equipment for UTIPS service, secondary admin and support for servers, backup storage services, colocation for Measured Progress (USOE contracted) servers, and network assessment for online testing performance	4,687
		39	eMedia (Equella)	Access digital learning content; includes repository, indexing, and front-facing service, licensed content and open educational resources	506,915
		40	Kaltura	Streaming media server. Hosts streaming media for UEN.org and eMedia (Equella).	10,415
		41	Utah Data Alliance	Tools to facilitate data-driven decision making for school and district improvement.	1,563,065

\*SERVICE NUMBERS CONTAINING THIS COLOR ARE WITHIN UEN'S TOP 10 OVERALL COSTS

CORE SERVICE	SERVICE CATEGORY	#	NAME OF SERVICE	PURPOSE	COST: TOTAL
Support Services	TRAINING	42	Presentations	Learn about UEN tools and services and developments in educational technology	461,651
		43	Training management and logistics	Develop solutions for training needs including scheduling, quality assurance, and credit processing	232,441
		44	Courses	Learn about integration and effective use of UEN services, usually for USOE or SUU credit for licensed educators; may be in person or online	309,347
		45	Instructional design	Design online courses using effective methods.	51,106
		46	Professional conferences and work groups	Convene for professional learning. Includes: UEN Tech Summit, Content Forum, Utah Instructional Media Consortium, UtahSAINT, UELMA, UEA, SUECON, regional Technical Forums and others.	160,657
	Distance Ed Support	47	UEN Distance Education Catalog	Search and locate courses	4,025
		E-Rate Support	48	E-Rate UEN Filing	Maximize E-Rate returns; includes managing eligibility, procurement, documentation, quality control, teleco contracts, and responding to requests.
	49		E-Rate External Filing	File their own E-Rate applications with accuracy.	12,377
	50		E-Rate Training	Effectively execute required E-Rate information.	17,914
	Regional Support	51	Regional Technical Support	Receive financial support for technical issues at each of the four regional service centers.	370,094
		52	Regional Training Support	Receive financial support for training at each of the four regional service centers.	285,904
	Operational Services		53	Administrative Services	Actualize the vision set by UEN Board; includes legislature and stakeholder relations and organization oversight
54			Operational Services	Manage internal operations including staffing, strategic and tactical planning, performance reports and legal/regulatory issues.	255,286
55			Financial Services	Provide administrative, governmental and managerial accounting support to UEN; includes following U of U procurement processes, audits, records management, payroll and reporting	473,452
56			Operations & Facilities Maintenance	Provides for the maintance and physical infrastructure for UEN facilities	471,469
57			CMDB-Change Management Database	Track and effectively plan for equipment upgrades and replacement	8,457
58			Grant Development and Support	Develop grant applications to secure funding for UEN projects; includes grant reporting.	97,733
59			Battery (UPS) and Generator Back-Up	Maintain services in the event of an outage; includes battery systems, motor generators, and large and small solar power systems.	120,136
60			Desktop support for EBC LAN	continue doing business; cost recovery service for non-UEN entities	15,942
61			Inventory management & Procurement	Manage an accurate inventory of equipment at UEN and various end-sites	265,822
62			Monitoring services	Rely on UEN infrastructure; includes monitoring, testing, mitigation and issue resolution	101,088
63			Consortium Licensing	Save money; includes shared contracts for applications, equipment, and infrastructure.	37,936
64			Internal tools	Work effectively. Includes: Confluence (internal collaboration tool), Core database manager, Core Links Interface, Crowd (identity management), FTP for file transfer, go.uen.org (URL shortener), Greenhopper (agile project management software), IVC Billing, Mailing Lists, NetNews, Newsletter Tool, Professional Development course management, registration, evaluations and reports, Profile Management Tool (login lookup), ProTrack (Myers Information Systems), RSS feeds, RESTful Web Service (core database, core links, lesson plans and UtahLINK data), Breakwriter (fundraiser managment system for KUED), Sites Admin Interface (for maintaining sites data on UEN.org), Twitter (UENNews), UEN Tech Summit registration, UEN-TV What's On, Urchin web stats software	69,750

\*SERVICE NUMBERS CONTAINING THIS COLOR ARE WITHIN UEN'S TOP 10 OVERALL COSTS

CORE SERVICE	SERVICE CATEGORY	#	NAME OF SERVICE	PURPOSE	COST: TOTAL
		65	<b>System Backup and Recovery</b>		<b>136,428</b>
		66	<b>SAN</b>	Access Local Storage Area Network for dynamic storage allocation though-out UEN's EBC and Richfield data centers. This to extend to the Downtown Data Center.	<b>58,586</b>
		67	<b>Virtual Machine Support</b>	Manage and maintain Virtual Machine clusters in support of all data center support	<b>73,228</b>
		68	<b>NAS</b>	Highly available Network Attached Storage for hosting and all web services where shared file services are required	<b>59,448</b>
		69	<b>Compuware License</b>	Conduct network application troubleshooting	<b>2,741</b>
		70	<b>Research and Design</b>	Benefit from innovative tools, services, and practices; UEN participates in research activities, monitors industry developments, conducts pilot-tests, lab and feature testing, and experiments to optimize services.	<b>43,538</b>
		71	<b>Community Engagement</b>	Learn about, benefit from, and engage with UEN services; includes community screenings, events, social media.	<b>194,846</b>
		72	<b>Strategic Communication</b>	Build and sustain productive relationships and access the information they need to make critical decisions; includes the planning, research, analysis, implementation and evaluation for strategic communication initiatives, including annual legislative session, BTOP completion, crisis management and communication planning and alignment with new EBC and UofU emergency management priorities.	<b>229,049</b>
<b>TOTALS</b>					<b>36,014,035</b>

\*SERVICE NUMBERS CONTAINING THIS COLOR ARE WITHIN UEN'S TOP 10 OVERALL COSTS



What services do/should we provide so they can do what they need to do? Q2

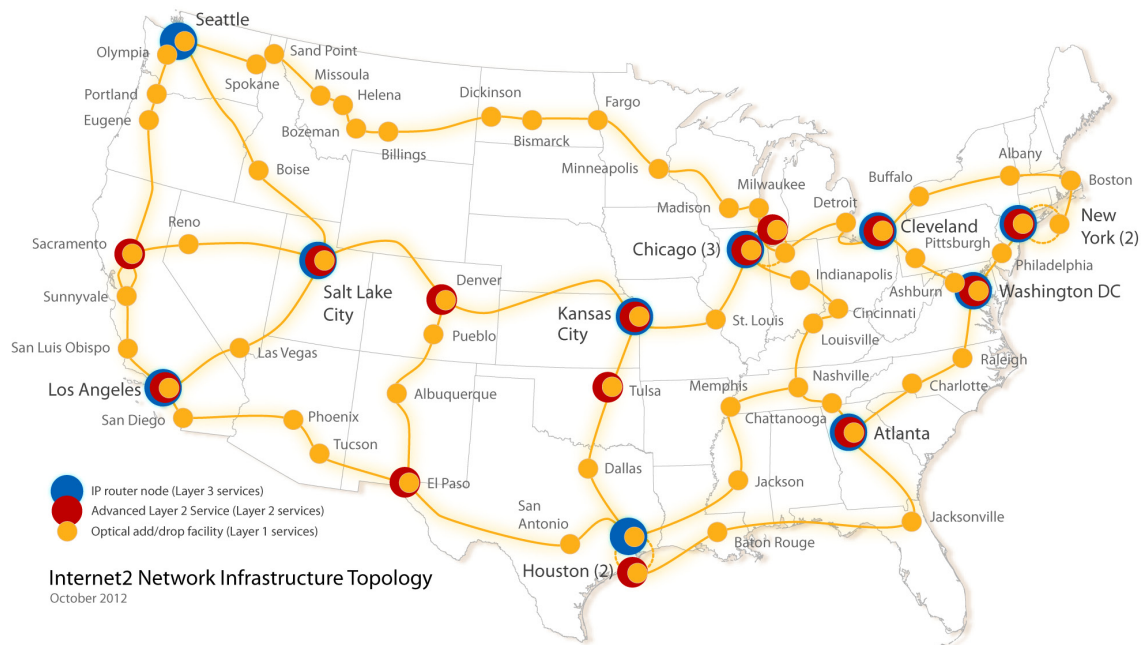
## Internet2 Services and Net+ – Discussion

### Description

This is an informational item to share recent developments with Internet2 partners and NET+.

### Background

Internet2 (I2) is an advanced technology community, owned and led by the U.S. research and education community. UEN has been one of 38 Research & Educational Network members since 2007. The University of Utah, Utah State University and Brigham Young University are also long-time institutional members. Internet2 is a networking consortium linking optical connections, along with projects and collaborations that advance the collective mission of its consortium members. Because its optical networks don't carry commodity traffic or need to focus on commercial applications, the network partners are free to develop open, shared, and collaborative initiatives that advance the missions of researchers, academia, industry and government. Internet2 is a key part of the U.S. National Broadband Plan and research initiatives in Utah.



## **Internet2 and NET+**

One recent initiative has been to collaborate on various applications and application licensing to assist consortium partners – called NET+. Internet2 offers a growing number of cloud services from vendors and research groups to eligible educational institutions.

The Internet2 NET+ offerings are fairly new, and most services that are going through the service validation process are not generally available yet, but more and more services will become available in 2013 and in years to come. Internet2 currently has over 150 schools participating in some capacity with the NET+ program.

Before a service is offered to the community, it is put through a series of testing and validation steps, until it is made generally available. The phases of certification as a NET+ service include the following:

- Research Incubator
- Evaluation
- Service Validation
- Early Adopter
- General Availability

The current Internet2 NET+ cloud services and their phases of certification are summarized here:

*<http://www.internet2.edu/netplus/cloud-services.html>*

Internet2 negotiates with vendors to provide very good pricing for services and leverages the infrastructure of the Internet2 network and federated identity authentication and authorization services (inCommon) to lower the costs of providing these services. The goal is to offer services that Internet2 member institutions need that are cost-effective and easy to access and administer. Some services are only available to Internet2 members, but most vendors will extend services to all of higher education and in many cases, to K-12 schools as well.

UEN is participating in the service validation phase for Instructure Canvas as a NET+ service, and is piloting SeeVogh (with The University of Utah), another NET+ service. This is an opportunity we'll continue to monitor to achieve beneficial cost efficiencies.

## **Recommendation**

This is an information item. No further action is required of the Board members at this time.



## Utah Data Alliance – Discussion

### Description

In its December meeting, the UEN Board voted to continue to support the UDA project if funding becomes available. Ray will provide an update on recent activities with the UDA project including meetings and new budget information. Notes from recent meetings are included as an attachment.

### Background

The Utah Data Alliance is a partnership of educational agencies formed to create tools that facilitate data-driven decision making. UDA uses an integrated and confidential statewide longitudinal data system to assist policy and decision leaders with research to assist in their goal of improving education and workforce policy practice.

The Utah Data Alliance (UDA) project provides statewide longitudinal educational data that is valuable for policy makers and decision leaders. The project was initially funded through ARRA funding that is ending in June 2013. Members of the planning group for UDA are exploring options for hosting this project after the grant funding ends. Board guidance is sought regarding UEN's role with this project after the grant.

Partners in this effort include the Utah State Office of Education, Utah System of Higher Education, Utah Education Policy Center, Utah Department of Workforce Services, Utah Education Network, and Utah College of Applied Technology. Several research questions are currently being addressed by the project. Additional information can be obtained at [www.utahdataalliance.org](http://www.utahdataalliance.org).

UDA was initially funded through a U.S. Department of Education 2009 ARRA Grant of \$9,617,736 to the Utah State Office of Education. The project started July 1, 2010 and grant funding ends June 30, 2012. As part of the grant proposal, letter of support from the partnership agencies were submitted. UEN's letter, the USHE letter and a one-page budget summary are included under this tab.

UEN's role with UDA consists of purchasing and building a secure environment to house the data share system and to coordinate the development of the system with UDA partners and the developer contractors. UEN has three grant-funded FTE that support this effort.

## **Recommendation**

This is an information item that UEN will continue to monitor. It may be presented as an action item at a future UEN Board meeting pending legislative action in the coming session.

## 6. Attachment A – Utah Data Alliance Budget Request (November 28, 2012) and Letters of Endorsement

Focus on Interagency Reporting	UDA Request Oct, 2012	UDA Request Nov, 2012	Gov. Budget
<u>Utah State Office of Education</u> 1 FTE (Data Analyst/IT Analyst)	<u>\$200,000</u>	<u>\$100,000</u>	<u>\$100,000</u>
<u>Utah System of Higher Education</u> 1 FTE (Data Analyst/IT Analyst)	<u>\$200,000</u>	<u>\$100,000</u>	<u>\$100,000</u>
<u>Utah College of Technology</u> 1 FTE (Data Analyst/IT Analyst)	<u>\$200,000</u>	<u>\$100,000</u>	<u>\$100,000</u>
<u>Workforce Services</u> Data contract with Utah DTS for data extracts	<u>\$8,000</u>	<u>\$4,000</u>	<u>\$0</u>
<u>Utah Education Network</u> Data Warehouse Maintenance and Support \$300,000 - 3 FTE (Database Administrator, Network Administrator, IT Analyst/Programmer) \$200,000 – software licenses	<u>\$460,000</u>	<u>\$450,000</u>	<u>\$300,000</u>
<u>Utah Education Policy Center</u> Research Analysts	<u>\$320,000</u>	<u>\$0</u>	<u>\$0</u>
<b>Total FTE, software, hardware</b>	<b>\$1,388,000</b>	<b>\$754,000</b>	<b>\$600,000</b>

### Deliverables and estimated accomplishments per funding amounts

#### \$1,388,000 Annually

- Up to five formal research projects
- Multiple and rigorous statistical analyses per agency
- Many predefined and ad hoc reports with simple descriptive statistics per agency
- Data dashboards, portals and data visualizations can be constructed
- Data warehouse with ongoing improvements and expansion into new data from existing and new UDA partner agencies

#### \$754,000 Annually

- No formal research projects
- Limited rigorous statistical analyses per agency
- Some predefined and ad hoc reports with simple descriptive statistics per agency
- Limited dashboards, portals and data visualizations can be constructed
- Data warehouse will only receive routine maintenance; no expansion into new data

#### No Funding

- No formal research projects
- No data warehouse
- No dashboards, portals and data visualizations
- Minimal reporting and statistical analyses requiring increased timelines
- Minimal predefined or ad hoc reports requiring increased timelines

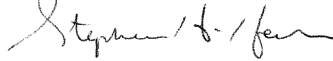
To whom it may concern:

The Utah System of Higher Education (USHE) and the University of Utah Information Technology Organizations endorses the development of the Utah Data Alliance (UDA), and the IES Statewide Longitudinal Data System (IES-SLDS) Grant. The benefits of the UDA will provide longitudinal data to track student progress through the public and post secondary educational experience. This data will help researchers, educators, and parents identify critical issues that need to be resolved to improve education.

Tracking student data through the entire education process and combining it with work force data into one repository will provide valuable information on how well students are prepared as they enter the work force. This combined data warehouse will be a key tangible outcome for this project, since it will allow project partners to share and utilize the data to answer questions about agency and state policies, programs and practice.

The goals of the Utah Data Alliance align nicely with the USHE goals to move to a more closely integrate secondary and postsecondary information systems. We therefore look forward to collaborating with the other Utah Data Alliance partners to build this data warehouse system.

Sincerely,



Stephen H. Hess  
Chief Information Officer  
Utah System of Higher Education and the University of Utah



UEN Letter of Support  
Utah Data Alliance

The Utah Education Network enthusiastically endorses and is committed to full participation in the Utah Data Alliance, contingent on the award of an IES SLDS grant. The role of UEN in this proposed grant will be to manage and store data provided by the partner agencies in a common, secure data warehouse. This will be a key element of successful completion of our project, since it will allow project partners to share and utilize the data to answer questions about agency and state policies, programs and practice.

UEN is ideally suited to maintain data in a secure data warehouse. All partners to the grant already have a long working relationship with UEN, and many of the partners work with UEN as the core partner in collaborative projects.

The Utah Education Network has a proven track record of providing top of class Enterprise Services in a secure and reliable manner. One example is that the public colleges and universities in the state depend on UEN to operate for them an enterprise-level course management system, Blackboard Vista, which is used daily to support course content and activities for more than 20,000 courses. Daily, there are approximately 100,00 separate log-ins by about 45,000 unique student and faculty users of this applications. It is the most used enterprise application in Utah higher education, and our partners trust us to deliver the service with the highest standards for reliability and speed.

UEN has the respect of the partners involved in this grant , as demonstrated by the request of partner agencies for UEN to be the host and primary developer of the SLDS service. UEN has provided centrally managed, locally controlled network, web, and enterprise services for our public and higher education partners for three decades. UEN continually saves the state money by negotiating statewide contracts for telecommunications, network, and Internet services.

The project goals of the Utah Data Alliance align with the UEN mission to use technology to continually improve education. We therefore look forward to supporting the partners in this project by establishing and managing a state-of-the-art data warehouse.

Sincerely,  
  
Michael Petersen  
Executive Director  
Utah Education Network

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## BTOP Project Update and Recent Publicity – Discussion

### Description

This is an update on recent BTOP project activity including a proposal for using remaining funds and a request for an extension on the grant deadline. The BTOP grant was originally scheduled to end on January 31, 2013. UEN has submitted a request to extend the grant through May 31, 2013. UEN also received favorable national publicity in Washington D.C. this month at the Brookings Institute when NTIA Assistant Secretary Larry Strickling highlighted UEN's BTOP accomplishments in a speech at the Brookings Institution on January 16.

### Background

UEN was required to submit the extension request to NTIA by December 19. Any proposals for use of remaining BTOP funds had to also be submitted at the same time. UEN has approximately \$5.3 million remaining for the BTOP project. After UEN and University of Utah staff met to discuss the proposal approved by the Board in December and additional ideas for remaining BTOP funds, instead of 100 Gbps core upgrades the UEN backbone, the following proposal was recommended and submitted to NTIA:

- Request to purchase six (6) additional IRUs that connect to the middle mile core infrastructure of our project. See the attached map. The IRU routes are:
  - Salt Lake Community College to the Level 3 Delong Point-of-Presence Facility
  - The University of Utah Downtown Data Center to Salt Lake Community College
  - The University of Utah Downtown Data Center to Utah Valley University
  - Brigham Young University to Utah Valley University
  - Weber State University Main Ogden Campus to Legacy Highway Interconnection at the UDOT Hut Facility at Highway 89
- Request for five (5) Internet Border Routers
- A UEN network Layer 3 Point-of-Presence at the University Downtown Data Center
- 100 Gbps Wavelength between the Level 3 Delong Point-of-Presence Facility and University Downtown Data Center
- Spirent Test Equipment for Benchmark and Network Performance Optimization
- Security Firewalls and Nexus Data Center Switch

- OMEA Ciena Software for network fiber optimization and optical network management
- Outside Fiber Plant Management System for fiber assets acquired through BTOP, etc.

The focus on the proposal to NTIA was to request equipment and fiber IRUs that are not eligible for E-Rate funding. UEN will still have a sustainable plan using E-Rate to accomplish the 100 Gbps core network upgrades in a few years.

UEN's program officer at NTIA has indicated the extension is likely to be approved. The modification request for the use of the remaining funds is currently undergoing review by the Environmental Assessment Team at NTIA. If approved UEN should be notified before the end of January.

### **NATIONAL PUBLICITY FOR UEN**

NTIA Assistant Secretary Larry Strickling was scheduled to highlight UEN's BTOP accomplishments in a speech at the Brookings Institution on January 16. The Brookings Institution is a private nonprofit organization devoted to independent research and innovative policy solutions in Washington D.C. An advanced copy of his speech mentioned UEN in this context:

*Let me tell you about one school in particular that is being transformed by broadband.*

*The Jordan Valley School, in Midvale, Utah, teaches 150 kids with significant physical and cognitive disabilities. Those kids range from infants to young adults, and many are non-verbal. So Jordan Valley School has equipped each of its classes with four iPads plus an Apple TV to connect the devices to a projector at the front of the classroom. On each of those iPads, the school has loaded software programs that allow the students to communicate their thoughts, feelings and needs by navigating icons, screens and keyboards.*

*Thanks to broadband, Jordan Valley School is able to have as many as 70 iPads online at the same time. Mark Donnelley, the school's principal, says technology gives his students a voice.*

*Jordan Valley School is one of 140 schools, libraries, Head Start centers and other anchor institutions across Utah being connected to broadband as a result of a \$13.4 million BTOP grant to the Utah Education Network, a statewide research and education network run by the University of Utah. Many of the participating schools, including Jordan Valley, now have up to a gigabit in bandwidth.*

*Another school upgraded by the Utah Education Network is Hanksville Elementary, a K-5 school with just 23 students in rural Hanksville, Utah, population 300. Before BTOP, Hanksville had a 1.5-megabit T-1 connection that couldn't support more than three kids logged on at once. Today, with 100 megabits of capacity, the school has integrated streaming video, interactive white boards called "smartboards" and online educational software like Study Island into the classroom.*

*Most important, says Corri Robinson, one of three teachers at Hanksville Elementary, broadband brings the outside world to a group of kids who may never have traveled beyond a two-hour radius of their little hometown in southeast Utah.*



Some of the information for the speech was culled from videos that UEN Public Information shot in late 2012. UEN supplied the following frame grabs from the video to NTIA for Larry's Strickland's presentation:

*Jordan Valley principal Mark Donnelly in his office.*



*Jordan Valley teacher Derek Menlove in his classroom.*



*Jordan Valley aide connecting a laptop device for a student.*



*Jordan Valley student interacting with a laptop application.*

## **Recommendation**

This is an information item. No further action is required of the Board members at this time.



## UEN Calendar – Discussion

### **Description**

A planning calendar for the upcoming year and quarter are presented for Board discussion. Board members are encouraged to discuss the planning calendar and provide input to help guide UEN.

### **Background**

To facilitate planning, staff members have developed a master calendar of key milestones for the Board to consider. This will help the Board co-chairs as they develop agendas for each meeting.

This is a general timeline of events for planning, finances, and reports that typically occur each year. It is not meant to be all-inclusive, but will help facilitate planning and guide UEN staff in the preparation of materials to assist the Board.

A more detailed calendar for the current quarter is also available for Board review and input.

### **Recommendation**

This is an information item. No further action is required of the Board members at this time.

## UEN Annual General Calendar

### FY Quarter 1

<p><b>July</b></p> <ul style="list-style-type: none"> <li>• FY Start</li> <li>• Update plan on website</li> <li>• Update budget on website</li> <li>• GOPB guidelines released</li> <li>• Advisory Council Meeting</li> </ul>	<p><b>August</b></p> <ul style="list-style-type: none"> <li>• Draft legislative request for next FY</li> <li>• Preliminary request forms due to GOPB at end of month</li> </ul>	<p><b>September</b></p> <ul style="list-style-type: none"> <li>• FY request to Governor's office and Legislative analyst</li> </ul>
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### FY Quarter 2

<p><b>October</b></p> <ul style="list-style-type: none"> <li>• Federal FY starts</li> <li>• CPB CSG certification forms due</li> <li>• Schedule next year's Board meetings</li> <li>• Several conferences this month</li> <li>• GOPB budget briefings are held</li> <li>• Advisory Council Meeting</li> </ul>	<p><b>November</b></p> <ul style="list-style-type: none"> <li>• Meetings with stakeholders re: fiscal request</li> <li>• Update UEN booklet and documents</li> </ul>	<p><b>December</b></p> <ul style="list-style-type: none"> <li>• Governor's budget recommendations released</li> <li>• Annual <i>Diversity Training</i> for Board and managers</li> </ul>
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### FY Quarter 3

<p><b>January</b></p> <ul style="list-style-type: none"> <li>• Start legislative session</li> <li>• Mid-year progress report to Board</li> <li>• Advisory Council Meeting</li> </ul>	<p><b>February</b></p> <ul style="list-style-type: none"> <li>• CPB CSG grant report due</li> <li>• Capitol Hill Day w/public media</li> </ul>	<p><b>March</b></p> <ul style="list-style-type: none"> <li>• Several conferences this month</li> <li>• End legislative session</li> <li>• Annual UEN staff meeting "State of UEN" after legislature</li> <li>• New FY budget and plan are drafted</li> </ul>
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### FY Quarter 4

<p><b>April</b></p> <ul style="list-style-type: none"> <li>• Results of legislative session are known</li> <li>• Planning retreat for new FY w/Board and Advisory Council</li> <li>• New FY budget and plan are drafted</li> <li>• Annual <i>Open Meeting</i> training for Board and leadership team</li> </ul>	<p><b>May</b></p> <ul style="list-style-type: none"> <li>• Board meeting re: draft budget</li> <li>• Board meeting re: draft plan</li> </ul>	<p><b>June</b></p> <ul style="list-style-type: none"> <li>• Board approves strategic plan</li> <li>• Board approves next FY budget</li> </ul>
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## UEN Current Quarter Planning Calendar

<b>January 2013</b>	<b>February 2013</b>	<b>March 2013</b>
<ul style="list-style-type: none"><li>• 18- Board Meeting</li><li>• 28 - Start legislative session</li><li>• UEN managers in HR course</li><li>• Update FY initiatives list</li></ul>	<ul style="list-style-type: none"><li>• 15 – Board Meeting</li><li>• Set up/training BoardDocs</li><li>• CPB CSG grant reports due</li><li>• 24-26 - Capitol Hill Day w/public media</li></ul>	<ul style="list-style-type: none"><li>• 7 – UELMA Conference</li><li>• 8-9 - UCET Conference</li><li>• 14 - End legislative session</li><li>• 22 – Board Meeting</li><li>• Annual UEN staff meeting</li><li>• “State of UEN” after legislature</li><li>• New FY budget and plan are drafted</li></ul>



Other

