UEN Board Meeting

February 15, 2013   9:00 a.m.
Dolores Doré Eccles Broadcast Center and IVC

UEN

UTAH EDUCATION NETWORK
WWW.UEN.ORG

Utah Education Network Board Meeting

Agenda

February 15, 2013 9:00 a.m.

Welcome and Introductions

Upcoming Meetings

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

Approval of the Minutes – Action

Description

Minutes from the UEN Board meeting on January 18, 2013 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

Dolores Doré Eccles Broadcast Center and IVC
January 18, 2013 9:00 a.m.

PRESENT: Clark Baron, Eric Denna, Christine Kearl, Gary Koeven, Donna Jones Morris, Judy Park, Glen Taylor, Robert Wagner, Barry Walker, Ray Walker, Lee Tansock for Dana Miller and Denise Elwood-Secretary. *UEN staff in attendance:* Laura Hunter, Lisa Kuhn, Jim Stewart, and Rich Finlinson.

Welcome and Introductions

Eric welcomed everyone to the January UEN Board Meeting and introduced Judy Park as the newest member of the Board. Judy is replacing Brenda Hales.

Approval of Minutes from Previous Meeting

Minutes from the December 5, 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. The members present voted unanimously. THE MOTION CARRIED.**

Tab 2 – UEN Board Co-Chair Election

With the resignation of Brenda Hales, the UEN Board is asked to elect a co-chair representing Public Education. Eric read the names of those eligible for this position and they are: Clark Baron, Judy Park, Glen Taylor and Barry Walker. Eric then opened up the floor to accept nominations. Barry Walker was nominated for the co-chair position and accepted. **A motion was made and seconded to approve Barry Walker as the new co-chair for the UEN Board. The members present voted unanimously. THE MOTION CARRIED.**

Tab 3 – Executive Director's Report

Ray Timothy handed out a copy of his report and these were the topics that were covered:

Legislative Overview: Ray shared with the Board the website he uses to access information on Committees, Bills and Legislators. The website is *le.utah.gov*. This website has a lot of useful information on it. Ray also showed the Board members where all of UEN's Legislative Requests information can be found and this website is *uen.org*, then click on About UEN, then click on Planning - FY 2014 Funding Request. Ray is hoping that this Legislative Session we will be able to bring UEN's report to all three committees which include Higher Education, Public Education and Retirement.

Ray also shared with the Board Members that yearly we need to go through the training on the Open and Public Meetings Act. This training can now be done online and Denise will be sending out the information on how to access this via the web. The training was held in April 2012.

The UEN Advisory Council invitations have been sent out to the previously approved people. We are waiting to hear back from five people on whether they will serve on this committee. Ray advised the Board members that he will set a date for their first meeting to be held in February.

Ray reported to the Board Members that we will be converting to BoardDocs for the publication and distribution of the Board Meeting materials. Laura Hunter is working on a date and time for UEN staff to be trained on this. Board Member training will be after the February meeting.

Laura Hunter shared with the Board Members the latest project on "Cheese Science". Harmons Grocery is a sponsor of the Cheese Science projects and they are bringing in Allison Hooper who is an Artisan Cheese maker from Vermont. Laura passed out a flyer that shows the dates and times of Hooper's workshop.

Tab 4 – UEN Services

Ray Timothy shared with the Board Members that in the December meeting they saw detail on the Top Ten of the 72 different UEN services in terms of overall cost. UEN has identified 4 core services; 15 service categories and 72 services. The hierarchy helps provide additional detail on the relationship of one service to another, how individual services roll up into larger service categories and the four main core services of UEN. There is still a lot of work to do on this section and this will also be a work in progress as the requests for specific information are being defined. Board members discussed the services list and requested additional information on service dependencies and priorities, as well as requests for services. Staff will continue to work on this.

Tab 5 – Internet2 Services and NET+

Laura Hunter shared with the Board Members some background on Internet2 and NET+. Internet2 (I2) is a networking consortium linking optical connections, along with projects and collaborations that advance the collective mission of its consortium members. Internet2 is a key part of the U.S. National Broadband Plan and research initiatives in Utah. NET+ is a collaborative licensing/purchasing group that UEN is eligible to partner with for various applications and services. Board members expressed interest in pursuing NET+ consortium offerings. Staff will continue to monitor those offerings and bring them to the Board. To see more detailed information about Internet2 and NET+ please refer to Tab 5.

Tab 6 – Utah Data Alliance

Ray Timothy provided an update on the recent activities with the UDA project including meetings and new budget information. There was a lot of discussion based on the information that can be found in Tab 6. Judy Park asked if a decision could be made in the next meeting as to whether or not UEN will be supporting this Alliance going forward. If not, then USOE will need to absorb this Alliance in their FY 2014 budget. This item will be presented as an action item in the next Board meeting.

Tab 7 – BTOP Project Update and Recent Publicity

Ray Timothy shared the most recent national publicity UEN has received in regards to the BTOP project. Excerpts of a speech given by NTIA Assistant Secretary Larry Strickling can be found in Tab 7. 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 to the UEN backbone, a different proposal was recommended. To see the complete detailed proposal please refer to Tab 7.

Tab 8 – UEN Calendar

To facilitate planning, staff members have shared a master calendar of key milestones for the Board to consider as well as a detailed calendar for the current quarter.

Other Business

There was no other business to discuss at this time. Our next meeting will be February 15, 2013 from 9:00 a.m. – 11:00 a.m.

A motion was made and seconded to adjourn the January Board Meeting. The members present voted unanimously. THE MOTION CARRIED.

Respectfully submitted,

Denise Elwood

Executive Director's Report – Discussion

Description

Ray Timothy will update the Board on several informational items.

Closed Session

Description

The UEN Board will vote to enter into a closed session. In accordance with the Utah Open and Public Meetings act, a closed meeting may only be held for the following purposes, any of which are limited to discussion:

- involving discussion of individual persons' character, competence, or health
- strategies for collective bargaining
- pending or imminent litigation
- the price of real property
- involving discussion of security personnel, devices or systems
- criminal misconduct allegations

Actions deriving from these discussions will be handled in an open meeting session.

4   **UEN BOARD MEETING**

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

Services Dependencies – Discussion

Description

This is a continuation of strategic question #2, *"What services **do** you provide so that UEN customers can do what they need to do?"* and *"What services **should** you provide so that UEN customers can do what they need to do?"*

Background

During the January meeting, Board members requested that staff conduct further analysis on the 72 UEN services, specifically mapping dependencies among the services and additional requests for services. The analysis resulted in three outcomes that are presented below, in Attachment A and at *http://go.uen.org/8X*.

SERVICE CONSOLIDATION/ELIMINATION

A few smaller, discrete services were eliminated or combined with larger services. For example, the "Compuware License" was included with "Internal Tools" and "Distance Ed Catalog" was combined with "Online Tools and Resources." This resulted in a total of 68 services rather than our original 72.

SERVICE DEPENDENCIES

We created a frequency analysis matrix with the revised 68 UEN services on the x axis and the y axis. Then staff went through each service and noted what was dependent on what. For example, "Is End Site Connectivity dependent on Wide Area Network?" if Yes, then the cell was marked as dependent. After doing this exercise for all services and totaling the frequency of dependencies we did a sort to rank the highest frequencies vs. the lowest frequencies. The service with the most dependencies is Interactive Video Conferencing.

Of course, dependencies don't necessarily equate to priority ranking. Filtering is a critical service, but it's essentially an external contract with some staff support, so Filtering is not dependent on many services, although there are many services that depend on Filtering. This is just another way to analyze the UEN services and how they relate to each other.

REQUESTED/UNFULFILLED SERVICES

In addition to the 68 services that were analyzed, there are other services that have been requested by UEN customers that we are unable to fulfill with current resources. This is not a comprehensive list, but should provide additional background for Board member discussion.

Other services unable to fulfill with current resources:

- Virtual Field Trips using IVC
- Plan Tool
- Student Employment Program and Mentorships
- Desktop Conferencing system that interfaces with IVC
- HDTV
- Mobile Apps
- Statewide K-12 Canvas License
- More PD course offerings and more PD course sections to relieve waitlists
- More USOE partner courses
- Captioning service for web-based video
- Lecture-capture solution
- eBooks subscription added to Pioneer Library
- NoodleTools research application added to Pioneer Library
- IPTV
- Better/more support for wireless LANs
- eMedia tool for teacher/student contributions
- Additional trainers for the rural K-12 Regional Service Centers.

Recommendation

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

4. Attachment A – Services Dependencies Analysis
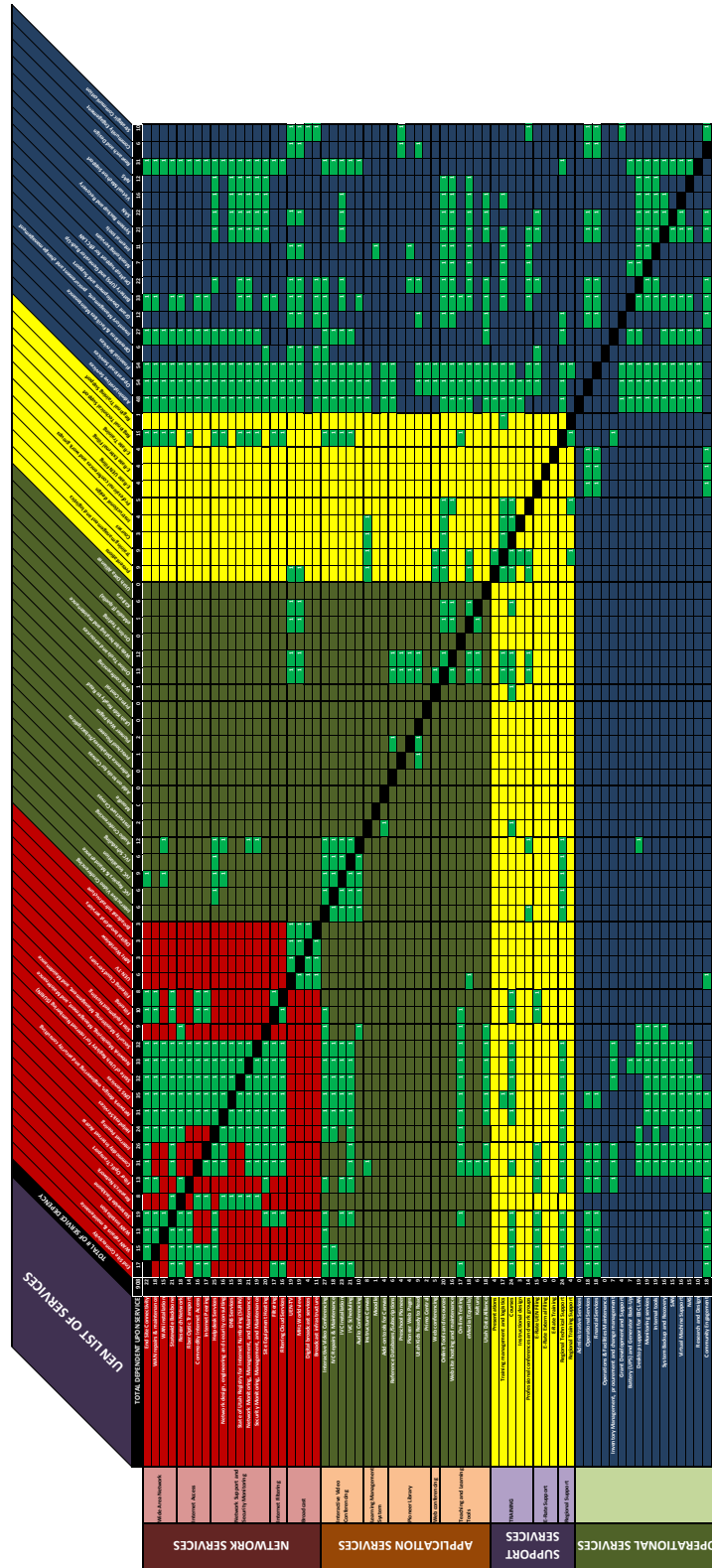
NUMBER OF DEPENDENCIES
BY UEN 4 MAJOR SERVICES

Legend:
- No. of Services OVER 20 DPDCY
- No. of Services 11 - 20 DPDCY
- No. of Services 5 - 10 DPDCY
- No. of Services 2 - 4 DPDCY
- No. of Services 0 - 1 DPDCY

SUPPORT SERVICES
- 1
- 3
- 5
- 1

OPERATIONAL SERVICES
- 9
- 4
- 4

NETWORK SERVICES
- 8
- 5
- 5
- 3

APPLICATION SERVICES
- 3
- 6
- 2
- 9
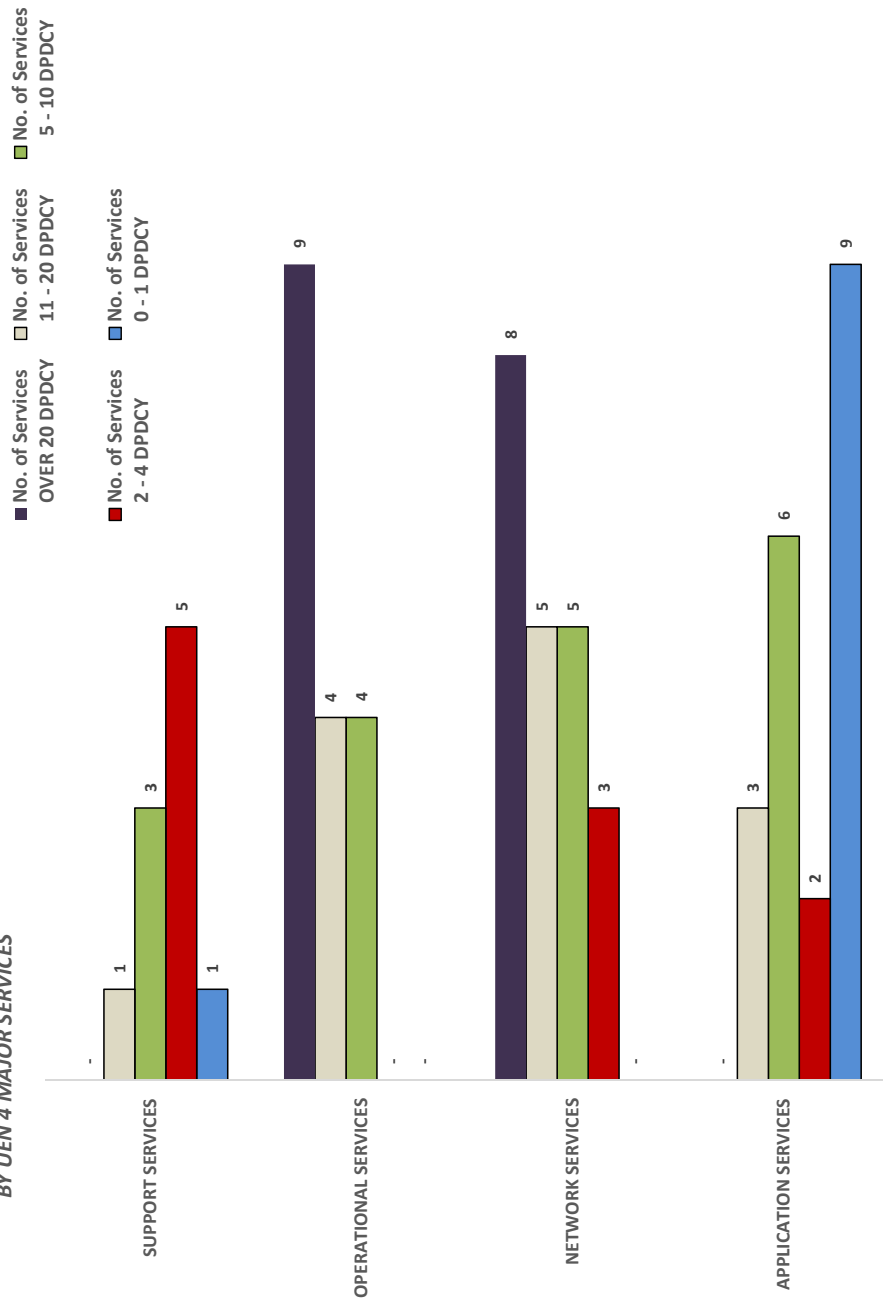
UEN BY SERVICES - SUMMARY NO. OF DEPENDENCIES

SERVICE LEVEL 1 (4 SERVICE AREAS)	SERVICE LEVEL 2 (15 UEN SERVICES)	No. of Services 0 - 1 DPDCY	No. of Services 2 - 4 DPDCY	No. of Services 5 - 10 DPDCY	No. of Services 11 - 20 DPDCY	No. of Services OVER 20 DPDCY
APPLICATION SERVICES	Interactive Video Conferencing	-	-	4	1	-
	Learning Management System	2	1	-	-	-
	Pioneer Library	4	1	-	-	-
	Teaching and Learning Tools	2	-	2	2	-
	Web conferencing	1	-	-	-	-
NETWORK SERVICES	Broadcast	-	3	1	-	-
	Internet Access	-	-	1	1	2
	Internet Filtering	-	-	2	-	-
	Network Support and Security Monitoring	-	-	1	-	6
	Wide Area Network	-	-	-	4	-
OPERATIONAL SERVICES	Operational Services	-	-	4	4	9
SUPPORT SERVICES	E-Rate Support	-	3	-	-	-
	Regional Support	1	-	-	1	-
	Training	-	2	3	-	-
Grand Total		10	10	18	13	17

SERVICE LEVEL 1 (4 SERVICE AREAS)	No. of Services 0 - 1 DPDCY	No. of Services 2 - 4 DPDCY	No. of Services 5 - 10 DPDCY	No. of Services 11 - 20 DPDCY	No. of Services OVER 20 DPDCY
APPLICATION SERVICES	9	2	6	3	-
NETWORK SERVICES	-	3	5	5	8
OPERATIONAL SERVICES	-	-	4	4	9
SUPPORT SERVICES	1	5	3	1	-
Grand Total	10	10	18	13	17

UEN BY SERVICE CATEGORIES WITH 0 - 4 DEPENDENCIES

	SERVICE LEVEL 1 (4 SERVICE AREAS)	SERVICE LEVEL 2 (15 UEN SERVICES)	SERVICE CATEGORY	HORIZONTAL DEPENDENCY[1]	VERTICAL DEPENDENCY[2]
1	APPLICATION SERVICES	Learning Management System	Moodle	0	1
2	APPLICATION SERVICES	Learning Management System	Add-on tools for Canvas	0	4
3	APPLICATION SERVICES	Pioneer Library	Reference Databases/Subscriptions	0	6
4	APPLICATION SERVICES	Pioneer Library	Utah Kids Ready to Read	0	9
5	APPLICATION SERVICES	Pioneer Library	Primo Central	0	2
6	APPLICATION SERVICES	Teaching and Learning Tools	On-line Testing	0	17
7	APPLICATION SERVICES	Teaching and Learning Tools	Utah Data Alliance	0	18
8	APPLICATION SERVICES	Pioneer Library	Preschool Pioneer	1	4
9	APPLICATION SERVICES	Web conferencing	Web conferencing	1	5
10	SUPPORT SERVICES	Regional Support	Regional Training Support	1	4
11	APPLICATION SERVICES	Learning Management System	Instructure Canvas	2	8
12	APPLICATION SERVICES	Pioneer Library	Pioneer Web Pages	2	4
13	NETWORK SERVICES	Broadcast	MHz Worldview	3	19
14	NETWORK SERVICES	Broadcast	Digital broadcast services	3	4
15	NETWORK SERVICES	Broadcast	Broadcast infrastructure	3	11
16	SUPPORT SERVICES	Training	Courses	3	24
17	SUPPORT SERVICES	Training	Instructional design	4	3
18	SUPPORT SERVICES	E-Rate Support	E-Rate UEN Filing	4	15
19	SUPPORT SERVICES	E-Rate Support	E-Rate External Filing	4	0
20	SUPPORT SERVICES	E-Rate Support	E-Rate Training	4	0

NOTES (HORIZONTAL & VERTICAL DEFINED)

1 IF THIS SERVICE NAME WERE DISCONTINUED, HOW MANY OTHER UEN SERVICES WOULD BE AFFECTED?

2 HOW MANY OTHER UEN SERVICES AFFECT THIS SERVICE?

UEN BY SERVICE CATEGORIES WITH OVER 20 DEPENDENCIES

	SERVICE LEVEL 1 (4 SERVICE AREAS)	SERVICE LEVEL 2 (15 UEN SERVICES)	SERVICE CATEGORY	HORIZONTAL DEPENDENCY[1]	VERTICAL DEPENDENCY[2]
1	OPERATIONAL SERVICES	Operational Services	Desktop support for EBC LAN	22	19
2	OPERATIONAL SERVICES	Operational Services	SAN	22	15
3	OPERATIONAL SERVICES	Operational Services	System Backup and Recovery	23	16
4	NETWORK SERVICES	Network Support and Security Monitoring	Helpdesk Services	24	25
5	NETWORK SERVICES	Internet Access	Internet Peering	26	17
6	OPERATIONAL SERVICES	Operational Services	Inventory Management, procurement and change management	27	7
7	NETWORK SERVICES	Internet Access	Commodity Internet Access	31	16
8	NETWORK SERVICES	Network Support and Security Monitoring	Network design, engineering and security consulting	31	16
9	OPERATIONAL SERVICES	Operational Services	Research and Design	31	10
10	NETWORK SERVICES	Network Support and Security Monitoring	State of Utah Registry for Internet Numbering (SURIN)	32	18
11	NETWORK SERVICES	Network Support and Security Monitoring	Security Monitoring, Management, and Maintenance	32	19
12	NETWORK SERVICES	Network Support and Security Monitoring	Network Monitoring, Management, and Maintenance	33	21
13	OPERATIONAL SERVICES	Operational Services	Battery (UPS) and Generator Back-Up	33	7
14	NETWORK SERVICES	Network Support and Security Monitoring	DNS Services	35	15
15	OPERATIONAL SERVICES	Operational Services	Administrative Services	48	0
16	OPERATIONAL SERVICES	Operational Services	Operational Services	54	18
17	OPERATIONAL SERVICES	Operational Services	Financial Services	54	18

NOTES (HORIZONTAL & VERTICAL DEFINED)

1 IF THIS SERVICE NAME WERE DISCONTINUED, HOW MANY OTHER UEN SERVICES WOULD BE AFFECTED?

2 HOW MANY OTHER UEN SERVICES AFFECT THIS SERVICE?

UEN BY SERVICE CATEGORIES WITH 0 - 4 DEPENDENCIES

	SERVICE LEVEL 1 (4 SERVICE AREAS)	SERVICE LEVEL 2 (15 UEN SERVICES)	SERVICE CATEGORY	HORIZONTAL DEPENDENCY[1]	VERTICAL DEPENDENCY[2]
1	APPLICATION SERVICES	Learning Management System	Moodle	0	1
2	APPLICATION SERVICES	Learning Management System	Add-on tools for Canvas	0	4
3	APPLICATION SERVICES	Pioneer Library	Reference Databases/Subscriptions	0	6
4	APPLICATION SERVICES	Pioneer Library	Utah Kids Ready to Read	0	9
5	APPLICATION SERVICES	Pioneer Library	Primo Central	0	2
6	APPLICATION SERVICES	Teaching and Learning Tools	On-line Testing	0	17
7	APPLICATION SERVICES	Teaching and Learning Tools	Utah Data Alliance	0	18
8	APPLICATION SERVICES	Pioneer Library	Preschool Pioneer	1	4
9	APPLICATION SERVICES	Web conferencing	Web conferencing	1	5
10	SUPPORT SERVICES	Regional Support	Regional Training Support	1	4
11	APPLICATION SERVICES	Learning Management System	Instructure Canvas	2	8
12	APPLICATION SERVICES	Pioneer Library	Pioneer Web Pages	2	4
13	NETWORK SERVICES	Broadcast	MHz Worldview	3	19
14	NETWORK SERVICES	Broadcast	Digital broadcast services	3	4
15	NETWORK SERVICES	Broadcast	Broadcast infrastructure	3	11
16	SUPPORT SERVICES	Training	Courses	3	24
17	SUPPORT SERVICES	Training	Instructional design	4	3
18	SUPPORT SERVICES	E-Rate Support	E-Rate UEN Filing	4	15
19	SUPPORT SERVICES	E-Rate Support	E-Rate External Filing	4	0
20	SUPPORT SERVICES	E-Rate Support	E-Rate Training	4	0

NOTES (HORIZONTAL & VERTICAL DEFINED)
1 IF THIS SERVICE NAME WERE DISCONTINUED, HOW MANY OTHER UEN SERVICES WOULD BE AFFECTED?
2 HOW MANY OTHER UEN SERVICES AFFECT THIS SERVICE?

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OVERALL UEN SERVICES DEPENDENCY DETAIL LIST

Sorted Alphabetically by Service Category

SERVICE LEVEL 1 (4 SERVICE AREAS)	SERVICE LEVEL 2 (15 UEN SERVICES)	SERVICE CATEGORY	HORIZONTAL DEPENDENCY[1]	VERTICAL DEPENDENCY[2]
APPLICATION SERVICES	Interactive Video Conferencing	Audio Conferencing	12	10
APPLICATION SERVICES	Learning Management System	Add-on tools for Canvas	0	4
OPERATIONAL SERVICES	Operational Services	Administrative Services	48	0
OPERATIONAL SERVICES	Operational Services	Battery (UPS) and Generator Back-Up	33	7
NETWORK SERVICES	Broadcast	Broadcast infrastructure	3	11
NETWORK SERVICES	Internet Access	Commodity Internet Access	31	16
OPERATIONAL SERVICES	Operational Services	Community Engagement	6	18
SUPPORT SERVICES	Training	Courses	3	24
OPERATIONAL SERVICES	Operational Services	Desktop support for EBC LAN	22	19
NETWORK SERVICES	Broadcast	Digital broadcast services	3	4
NETWORK SERVICES	Network Support and Security Monitoring	DNS Services	35	15
APPLICATION SERVICES	Teaching and Learning Tools	eMedia (Equella)	5	18
NETWORK SERVICES	Wide Area Network	End Site Connectivity	17	22
SUPPORT SERVICES	E-Rate Support	E-Rate External Filing	4	0
SUPPORT SERVICES	E-Rate Support	E-Rate Training	4	0
SUPPORT SERVICES	E-Rate Support	E-Rate UEN Filing	4	15
NETWORK SERVICES	Internet Access	Fiber Optic Transport	13	14
NETWORK SERVICES	Internet Filtering	Filtering	10	17
NETWORK SERVICES	Internet Filtering	Filtering Cloud Services	8	16
OPERATIONAL SERVICES	Operational Services	Financial Services	54	18
OPERATIONAL SERVICES	Operational Services	Grant Development and Support	12	4
NETWORK SERVICES	Network Support and Security Monitoring	Helpdesk Services	24	25
SUPPORT SERVICES	Training	Instructional design	4	3
APPLICATION SERVICES	Learning Management System	Instructure Canvas	2	8
APPLICATION SERVICES	Interactive Video Conferencing	Interactive Video Conferencing	6	27
OPERATIONAL SERVICES	Operational Services	Internal tools	11	19
NETWORK SERVICES	Internet Access	Internet Peering	26	17
OPERATIONAL SERVICES	Operational Services	Inventory Management, procurement and change management	27	7
APPLICATION SERVICES	Interactive Video Conferencing	IVC Installation	9	23
APPLICATION SERVICES	Interactive Video Conferencing	IVC Repairs & Maintenance	6	18
APPLICATION SERVICES	Interactive Video Conferencing	IVC Scheduling	6	21
APPLICATION SERVICES	Teaching and Learning Tools	Kaltura	6	6
NETWORK SERVICES	Broadcast	MHz Worldview	3	19
OPERATIONAL SERVICES	Operational Services	Monitoring services	7	19
APPLICATION SERVICES	Learning Management System	Moodle	0	1
OPERATIONAL SERVICES	Operational Services	NAS	12	15
NETWORK SERVICES	Network Support and Security Monitoring	Network design, engineering and security consulting	31	16
NETWORK SERVICES	Network Support and Security Monitoring	Network Monitoring, Management, and Maintenance	33	21
APPLICATION SERVICES	Teaching and Learning Tools	On-line Testing	0	17
APPLICATION SERVICES	Teaching and Learning Tools	Online Tools and resources	13	20
OPERATIONAL SERVICES	Operational Services	Operational Services	54	18
OPERATIONAL SERVICES	Operational Services	Operations & Facilities Maintenance	6	0
APPLICATION SERVICES	Pioneer Library	Pioneer Web Pages	2	4
APPLICATION SERVICES	Pioneer Library	Preschool Pioneer	1	4
SUPPORT SERVICES	Training	Presentations	9	4
APPLICATION SERVICES	Pioneer Library	Primo Central	0	2
SUPPORT SERVICES	Training	Professional conferences and work groups	5	14
APPLICATION SERVICES	Pioneer Library	Reference Databases/Subscriptions	0	6
SUPPORT SERVICES	Regional Support	Regional Technical Support	19	24
SUPPORT SERVICES	Regional Support	Regional Training Support	1	4
OPERATIONAL SERVICES	Operational Services	Research and Design	31	10
NETWORK SERVICES	Internet Access	Research Network	8	18
OPERATIONAL SERVICES	Operational Services	SAN	22	15
NETWORK SERVICES	Network Support and Security Monitoring	Security Monitoring, Management, and Maintenance	32	19
NETWORK SERVICES	Network Support and Security Monitoring	Site Equipment Hosting	9	20
NETWORK SERVICES	Network Support and Security Monitoring	State of Utah Registry for Internet Numbering (SURIN)	32	18
NETWORK SERVICES	Wide Area Network	Statewide Backbone	19	21
OPERATIONAL SERVICES	Operational Services	Strategic Communication	10	4
OPERATIONAL SERVICES	Operational Services	System Backup and Recovery	23	16
SUPPORT SERVICES	Training	Training management and logistics	9	17
NETWORK SERVICES	Broadcast	UEN-TV	6	19
APPLICATION SERVICES	Teaching and Learning Tools	Utah Data Alliance	0	18
APPLICATION SERVICES	Pioneer Library	Utah Kids Ready to Read	0	9
OPERATIONAL SERVICES	Operational Services	Virtual Machine Support	16	16
NETWORK SERVICES	Wide Area Network	WAN installation	13	15
NETWORK SERVICES	Wide Area Network	WAN repairs & maintenance	15	18
APPLICATION SERVICES	Web conferencing	Web conferencing	1	5
APPLICATION SERVICES	Teaching and Learning Tools	Web site hosting and maintenance	12	16

OVERALL UEN SERVICES DEPENDENCY DETAIL LIST

SORTED BY 4 MAJOR SERVICE AREAS | BY SERVICE LEVEL 2 | BY SERVICE CATEGORY

SERVICE LEVEL 1 (4 SERVICE AREAS)	SERVICE LEVEL 2 (15 UEN SERVICES)	SERVICE CATEGORY	HORIZONTAL DEPENDENCY[1]	VERTICAL DEPENDENCY[2]
APPLICATION SERVICES	Interactive Video Conferencing	Audio Conferencing	12	10
APPLICATION SERVICES	Interactive Video Conferencing	Interactive Video Conferencing	6	27
APPLICATION SERVICES	Interactive Video Conferencing	IVC Installation	9	23
APPLICATION SERVICES	Interactive Video Conferencing	IVC Repairs & Maintenance	6	18
APPLICATION SERVICES	Interactive Video Conferencing	IVC Scheduling	6	21
APPLICATION SERVICES	Learning Management System	Add-on tools for Canvas	0	4
APPLICATION SERVICES	Learning Management System	Instructure Canvas	2	8
APPLICATION SERVICES	Learning Management System	Moodle	0	1
APPLICATION SERVICES	Pioneer Library	Pioneer Web Pages	2	4
APPLICATION SERVICES	Pioneer Library	Preschool Pioneer	1	4
APPLICATION SERVICES	Pioneer Library	Primo Central	0	2
APPLICATION SERVICES	Pioneer Library	Reference Databases/Subscriptions	0	6
APPLICATION SERVICES	Pioneer Library	Utah Kids Ready to Read	0	9
APPLICATION SERVICES	Teaching and Learning Tools	eMedia (Equella)	5	18
APPLICATION SERVICES	Teaching and Learning Tools	Kaltura	6	6
APPLICATION SERVICES	Teaching and Learning Tools	On-line Testing	0	17
APPLICATION SERVICES	Teaching and Learning Tools	Online Tools and resources	13	20
APPLICATION SERVICES	Teaching and Learning Tools	Utah Data Alliance	0	18
APPLICATION SERVICES	Teaching and Learning Tools	Web site hosting and maintenance	12	16
APPLICATION SERVICES	Web conferencing	Web conferencing	1	5
NETWORK SERVICES	Broadcast	Broadcast infrastructure	3	11
NETWORK SERVICES	Broadcast	Digital broadcast services	3	4
NETWORK SERVICES	Broadcast	MHz Worldview	3	19
NETWORK SERVICES	Broadcast	UEN-TV	6	19
NETWORK SERVICES	Internet Access	Commodity Internet Access	31	16
NETWORK SERVICES	Internet Access	Fiber Optic Transport	13	14
NETWORK SERVICES	Internet Access	Internet Peering	26	17
NETWORK SERVICES	Internet Access	Research Network	8	18
NETWORK SERVICES	Internet Filtering	Filtering	10	17
NETWORK SERVICES	Internet Filtering	Filtering Cloud Services	8	16
NETWORK SERVICES	Network Support and Security Monitoring	DNS Services	35	15
NETWORK SERVICES	Network Support and Security Monitoring	Helpdesk Services	24	25
NETWORK SERVICES	Network Support and Security Monitoring	Network design, engineering and security consulting	31	16
NETWORK SERVICES	Network Support and Security Monitoring	Network Monitoring, Management, and Maintenance	33	21
NETWORK SERVICES	Network Support and Security Monitoring	Security Monitoring, Management, and Maintenance	32	19
NETWORK SERVICES	Network Support and Security Monitoring	Site Equipment Hosting	9	20
NETWORK SERVICES	Network Support and Security Monitoring	State of Utah Registry for Internet Numbering (SURIN)	32	18
NETWORK SERVICES	Wide Area Network	End Site Connectivity	17	22
NETWORK SERVICES	Wide Area Network	Statewide Backbone	19	21
NETWORK SERVICES	Wide Area Network	WAN installation	13	15
NETWORK SERVICES	Wide Area Network	WAN repairs & maintenance	15	18
OPERATIONAL SERVICES		Administrative Services	48	0
OPERATIONAL SERVICES		Battery (UPS) and Generator Back-Up	33	7
OPERATIONAL SERVICES		Community Engagement	6	18
OPERATIONAL SERVICES		Desktop support for EBC LAN	22	19
OPERATIONAL SERVICES		Financial Services	54	18
OPERATIONAL SERVICES		Grant Development and Support	12	4
OPERATIONAL SERVICES		Internal tools	11	19
OPERATIONAL SERVICES		Inventory Management, procurement and change management	27	7
OPERATIONAL SERVICES		Monitoring services	7	19
OPERATIONAL SERVICES		NAS	12	15
OPERATIONAL SERVICES		Operational Services	54	18
OPERATIONAL SERVICES		Operations & Facilities Maintenance	6	0
OPERATIONAL SERVICES		Research and Design	31	10
OPERATIONAL SERVICES		SAN	22	15
OPERATIONAL SERVICES		Strategic Communication	10	4
OPERATIONAL SERVICES		System Backup and Recovery	23	16
OPERATIONAL SERVICES		Virtual Machine Support	16	16
SUPPORT SERVICES	E-Rate Support	E-Rate External Filing	4	0
SUPPORT SERVICES	E-Rate Support	E-Rate Training	4	0
SUPPORT SERVICES	E-Rate Support	E-Rate UEN Filing	4	15
SUPPORT SERVICES	Regional Support	Regional Technical Support	19	24
SUPPORT SERVICES	Regional Support	Regional Training Support	1	4
SUPPORT SERVICES	Training	Courses	3	24
SUPPORT SERVICES	Training	Instructional design	4	3
SUPPORT SERVICES	Training	Presentations	9	4
SUPPORT SERVICES	Training	Professional conferences and work groups	5	14
SUPPORT SERVICES	Training	Training management and logistics	9	17

OVERALL UEN SERVICES DEPENDENCY DETAIL LIST

SORTED LEAST AMT OF HORIZONTAL DEPENDENCIES TO GREATEST

SERVICE LEVEL 1 (4 SERVICE AREAS)	SERVICE LEVEL 2 (15 UEN SERVICES)	SERVICE CATEGORY	HORIZONTAL DEPENDENCY[1]	VERTICAL DEPENDENCY[2]
APPLICATION SERVICES	Learning Management System	Add-on tools for Canvas	0	4
APPLICATION SERVICES	Learning Management System	Moodle	0	1
APPLICATION SERVICES	Teaching and Learning Tools	On-line Testing	0	17
APPLICATION SERVICES	Pioneer Library	Primo Central	0	2
APPLICATION SERVICES	Pioneer Library	Reference Databases/Subscriptions	0	6
APPLICATION SERVICES	Teaching and Learning Tools	Utah Data Alliance	0	18
APPLICATION SERVICES	Pioneer Library	Utah Kids Ready to Read	0	9
APPLICATION SERVICES	Pioneer Library	Preschool Pioneer	1	4
SUPPORT SERVICES	Regional Support	Regional Training Support	1	4
APPLICATION SERVICES	Web conferencing	Web conferencing	1	5
APPLICATION SERVICES	Learning Management System	Instructure Canvas	2	8
APPLICATION SERVICES	Pioneer Library	Pioneer Web Pages	2	4
NETWORK SERVICES	Broadcast	Broadcast infrastructure	3	11
SUPPORT SERVICES	Training	Courses	3	24
NETWORK SERVICES	Broadcast	Digital broadcast services	3	4
NETWORK SERVICES	Broadcast	MHz Worldview	3	19
SUPPORT SERVICES	E-Rate Support	E-Rate External Filing	4	0
SUPPORT SERVICES	E-Rate Support	E-Rate Training	4	0
SUPPORT SERVICES	E-Rate Support	E-Rate UEN Filing	4	15
SUPPORT SERVICES	Training	Instructional design	4	3
APPLICATION SERVICES	Teaching and Learning Tools	eMedia (Equella)	5	18
SUPPORT SERVICES	Training	Professional conferences and work groups	5	14
OPERATIONAL SERVICES	Operational Services	Community Engagement	6	18
APPLICATION SERVICES	Interactive Video Conferencing	Interactive Video Conferencing	6	27
APPLICATION SERVICES	Interactive Video Conferencing	IVC Repairs & Maintenance	6	18
APPLICATION SERVICES	Interactive Video Conferencing	IVC Scheduling	6	21
APPLICATION SERVICES	Teaching and Learning Tools	Kaltura	6	6
OPERATIONAL SERVICES	Operational Services	Operations & Facilities Maintenance	6	0
NETWORK SERVICES	Broadcast	UEN-TV	6	19
OPERATIONAL SERVICES	Operational Services	Monitoring services	7	19
NETWORK SERVICES	Internet Filtering	Filtering Cloud Services	8	16
NETWORK SERVICES	Internet Access	Research Network	8	18
APPLICATION SERVICES	Interactive Video Conferencing	IVC Installation	9	23
SUPPORT SERVICES	Training	Presentations	9	4
NETWORK SERVICES	Network Support and Security Monitoring	Site Equipment Hosting	9	20
SUPPORT SERVICES	Training	Training management and logistics	9	17
NETWORK SERVICES	Internet Filtering	Filtering	10	17
OPERATIONAL SERVICES	Operational Services	Strategic Communication	10	4
OPERATIONAL SERVICES	Operational Services	Internal tools	11	19
APPLICATION SERVICES	Interactive Video Conferencing	Audio Conferencing	12	10
OPERATIONAL SERVICES	Operational Services	Grant Development and Support	12	4
OPERATIONAL SERVICES	Operational Services	NAS	12	15
APPLICATION SERVICES	Teaching and Learning Tools	Web site hosting and maintenance	12	16
NETWORK SERVICES	Internet Access	Fiber Optic Transport	13	14
APPLICATION SERVICES	Teaching and Learning Tools	Online Tools and resources	13	20
NETWORK SERVICES	Wide Area Network	WAN installation	13	15
NETWORK SERVICES	Wide Area Network	WAN repairs & maintenance	15	18
OPERATIONAL SERVICES	Operational Services	Virtual Machine Support	16	16
NETWORK SERVICES	Wide Area Network	End Site Connectivity	17	22
SUPPORT SERVICES	Regional Support	Regional Technical Support	19	24
NETWORK SERVICES	Wide Area Network	Statewide Backbone	19	21
OPERATIONAL SERVICES	Operational Services	Desktop support for EBC LAN	22	19
OPERATIONAL SERVICES	Operational Services	SAN	22	15
OPERATIONAL SERVICES	Operational Services	System Backup and Recovery	23	16
NETWORK SERVICES	Network Support and Security Monitoring	Helpdesk Services	24	25
NETWORK SERVICES	Internet Access	Internet Peering	26	17
OPERATIONAL SERVICES	Operational Services	Inventory Management, procurement and change management	27	7
NETWORK SERVICES	Internet Access	Commodity Internet Access	31	16
NETWORK SERVICES	Network Support and Security Monitoring	Network design, engineering and security consulting	31	16
OPERATIONAL SERVICES	Operational Services	Research and Design	31	10
NETWORK SERVICES	Network Support and Security Monitoring	Security Monitoring, Management, and Maintenance	32	19
NETWORK SERVICES	Network Support and Security Monitoring	State of Utah Registry for Internet Numbering (SURIN)	32	18
OPERATIONAL SERVICES	Operational Services	Battery (UPS) and Generator Back-Up	33	7
NETWORK SERVICES	Network Support and Security Monitoring	Network Monitoring, Management, and Maintenance	33	21
NETWORK SERVICES	Network Support and Security Monitoring	DNS Services	35	15
OPERATIONAL SERVICES	Operational Services	Administrative Services	48	0
OPERATIONAL SERVICES	Operational Services	Financial Services	54	18
OPERATIONAL SERVICES	Operational Services	Operational Services	54	18

OVERALL UEN SERVICES DEPENDENCY DETAIL LIST

SORTED LEAST AMT OF VERTICAL DEPENDENCIES TO GREATEST

SERVICE LEVEL 1 (4 SERVICE AREAS)	SERVICE LEVEL 2 (15 UEN SERVICES)	SERVICE CATEGORY	HORIZONTAL DEPENDENCY[1]	VERTICAL DEPENDENCY[2]
SUPPORT SERVICES	E-Rate Support	E-Rate External Filing	4	0
SUPPORT SERVICES	E-Rate Support	E-Rate Training	4	0
OPERATIONAL SERVICES	Operational Services	Operations & Facilities Maintenance	6	0
OPERATIONAL SERVICES	Operational Services	Administrative Services	48	0
APPLICATION SERVICES	Learning Management System	Moodle	0	1
APPLICATION SERVICES	Pioneer Library	Primo Central	0	2
SUPPORT SERVICES	Training	Instructional design	4	3
APPLICATION SERVICES	Learning Management System	Add-on tools for Canvas	0	4
APPLICATION SERVICES	Pioneer Library	Preschool Pioneer	1	4
SUPPORT SERVICES	Regional Support	Regional Training Support	1	4
APPLICATION SERVICES	Pioneer Library	Pioneer Web Pages	2	4
NETWORK SERVICES	Broadcast	Digital broadcast services	3	4
SUPPORT SERVICES	Training	Presentations	9	4
OPERATIONAL SERVICES	Operational Services	Strategic Communication	10	4
OPERATIONAL SERVICES	Operational Services	Grant Development and Support	12	4
APPLICATION SERVICES	Web conferencing	Web conferencing	1	5
APPLICATION SERVICES	Pioneer Library	Reference Databases/Subscriptions	0	6
APPLICATION SERVICES	Teaching and Learning Tools	Kaltura	6	6
OPERATIONAL SERVICES	Operational Services	Inventory Management, procurement and change management	27	7
OPERATIONAL SERVICES	Operational Services	Battery (UPS) and Generator Back-Up	33	7
APPLICATION SERVICES	Learning Management System	Instructure Canvas	2	8
APPLICATION SERVICES	Pioneer Library	Utah Kids Ready to Read	0	9
APPLICATION SERVICES	Interactive Video Conferencing	Audio Conferencing	12	10
OPERATIONAL SERVICES	Operational Services	Research and Design	31	10
NETWORK SERVICES	Broadcast	Broadcast infrastructure	3	11
SUPPORT SERVICES	Training	Professional conferences and work groups	5	14
NETWORK SERVICES	Internet Access	Fiber Optic Transport	13	14
SUPPORT SERVICES	E-Rate Support	E-Rate UEN Filing	4	15
OPERATIONAL SERVICES	Operational Services	NAS	12	15
NETWORK SERVICES	Wide Area Network	WAN installation	13	15
OPERATIONAL SERVICES	Operational Services	SAN	22	15
NETWORK SERVICES	Network Support and Security Monitoring	DNS Services	35	15
NETWORK SERVICES	Internet Filtering	Filtering Cloud Services	8	16
APPLICATION SERVICES	Teaching and Learning Tools	Web site hosting and maintenance	12	16
OPERATIONAL SERVICES	Operational Services	Virtual Machine Support	16	16
OPERATIONAL SERVICES	Operational Services	System Backup and Recovery	23	16
NETWORK SERVICES	Internet Access	Commodity Internet Access	31	16
NETWORK SERVICES	Network Support and Security Monitoring	Network design, engineering and security consulting	31	16
APPLICATION SERVICES	Teaching and Learning Tools	On-line Testing	0	17
SUPPORT SERVICES	Training	Training management and logistics	9	17
NETWORK SERVICES	Internet Filtering	Filtering	10	17
NETWORK SERVICES	Internet Access	Internet Peering	26	17
APPLICATION SERVICES	Teaching and Learning Tools	Utah Data Alliance	0	18
APPLICATION SERVICES	Teaching and Learning Tools	eMedia (Equella)	5	18
OPERATIONAL SERVICES	Operational Services	Community Engagement	6	18
APPLICATION SERVICES	Interactive Video Conferencing	IVC Repairs & Maintenance	6	18
NETWORK SERVICES	Internet Access	Research Network	8	18
NETWORK SERVICES	Wide Area Network	WAN repairs & maintenance	15	18
NETWORK SERVICES	Network Support and Security Monitoring	State of Utah Registry for Internet Numbering (SURIN)	32	18
OPERATIONAL SERVICES	Operational Services	Financial Services	54	18
OPERATIONAL SERVICES	Operational Services	Operational Services	54	18
NETWORK SERVICES	Broadcast	MHz Worldview	3	19
NETWORK SERVICES	Broadcast	UEN-TV	6	19
OPERATIONAL SERVICES	Operational Services	Monitoring services	7	19
OPERATIONAL SERVICES	Operational Services	Internal tools	11	19
OPERATIONAL SERVICES	Operational Services	Desktop support for EBC LAN	22	19
NETWORK SERVICES	Network Support and Security Monitoring	Security Monitoring, Management, and Maintenance	32	19
NETWORK SERVICES	Network Support and Security Monitoring	Site Equipment Hosting	9	20
APPLICATION SERVICES	Teaching and Learning Tools	Online Tools and resources	13	20
APPLICATION SERVICES	Interactive Video Conferencing	IVC Scheduling	6	21
NETWORK SERVICES	Wide Area Network	Statewide Backbone	19	21
NETWORK SERVICES	Network Support and Security Monitoring	Network Monitoring, Management, and Maintenance	33	21
NETWORK SERVICES	Wide Area Network	End Site Connectivity	17	22
APPLICATION SERVICES	Interactive Video Conferencing	IVC Installation	9	23
SUPPORT SERVICES	Training	Courses	3	24
SUPPORT SERVICES	Regional Support	Regional Technical Support	19	24
NETWORK SERVICES	Network Support and Security Monitoring	Helpdesk Services	24	25
APPLICATION SERVICES	Interactive Video Conferencing	Interactive Video Conferencing	6	27

UEN DEPENDENCY DETAIL

Displays the number of 'Horizontal' dependencies per service & lists the service names below for reference. Sorted Alphabetically

No. of Dependencies (column list total)

SERVICE CATEGORY

Column header groups (service categories): Operational Services | Financial Services | Administrative Services | DNS Services | Network Monitoring, Management, and Maintenance | Battery (UPS) and Generator Back Up | State of Utah Registry for Internet Numbering (SURN) | Security Monitoring, Management, and Maintenance | Commodity Internet Access | Network design, engineering and security consulting | Research and Design | Inventory Management, procurement and change management | Internet Peering

#	Operational Services
1	Add-on tools for Canvas
2	Audio Conferencing
3	Battery (UPS) and Generator Back Up
4	Broadcast infrastructure
5	Commodity Internet Access
6	Courses
7	Desktop support for EBC LAN
8	DNS Services
9	eMedia (Equella)
10	End Site Connectivity
11	E-Rate/UEN Filing
12	Fiber Optic Transport
13	Filtering
14	Filtering Cloud Services
15	Grant Development and Support
16	Helpdesk Services
17	Instructional design
18	Instructor Canvas
19	Interactive Video Conferencing
20	Internet Peering
21	IVC Installation
22	IVC Repairs & Maintenance
23	IVC Scheduling
24	Kaltura
25	MHz Workflow
26	Monitoring services
27	NAS
28	Network design, engineering and security consulting
29	Network Monitoring, Management, and Maintenance
30	On-line Testing
31	Online Tools and resources
32	Presentations
33	Primo Central
34	Professional conference and work groups
35	Reference Databases/Subscriptions
36	Regional Technical Support
37	Research and Design
38	Research Network
39	SAN
40	Security Monitoring, Management, and Maintenance
41	Site Equipment Hosting
42	State of Utah Registry for Internet Numbering (SURN)
43	Statewide Backbone
44	System Backup and Recovery
45	Training management and logistics
46	UEN-TV
47	Utah Data Alliance
48	Utah Kids Ready to Read
49	Virtual Machine Support
50	WAN installation
51	WAN repairs & maintenance
52	Web conferencing
53	Web site hosting and maintenance

SERVICE CATEGORY

#	Helpdesk Services (24)	System Backup and Recovery (23)	Desktop support for EBC LAN (22)	SAN (22)	Statewide Backbone (19)	Regional Technical Support (19)	End Site Connectivity (17)	Virtual Machine Support (16)	WAN repairs & maintenance (15)	WAN Installation (13)	Fiber Optic Transport (13)	Online Tools and resources (13)	Audio Conferencing (12)
1	Desktop support for EBC LAN	Community Engagement	Broadcast infrastructure	Community Engagement	Community Engagement	End Site Connectivity	Community Internet Access	Desktop support for EBC LAN	Community Internet Access	Community Engagement	Community Engagement	Courses	Desktop support for EBC LAN
2	DNS Services	Desktop support for EBC LAN	Community Engagement	Desktop support for EBC LAN	Courses	Fiber Optic Transport	Community Engagement	DNS Services	Community Engagement	Courses	End Site Connectivity	eMedia (Equella)	Helpdesk Services
3	End Site Connectivity	DNS Services	eMedia (Equella)	DNS Services	End Site Connectivity	Filtering	Courses	eMedia (Equella)	Courses	End Site Connectivity	E-Rate UEN Filing	Kaltura	Interactive Video-Conferencing
4	Filtering	eMedia (Equella)	E-Rate UEN Filing	eMedia (Equella)	E-Rate UEN Filing	Filtering Cloud Services	E-Rate UEN Filing	Helpdesk Services	End Site Connectivity	E-Rate UEN Filing	Financial Services	MHz Worldview	IVC Installation
5	Filtering Cloud Services	E-Rate UEN Filing	Financial Services	E-Rate UEN Filing	Fiber Optic Transport	Helpdesk Services	Filtering Cloud Services	Internal tools	E-Rate UEN Filing	Fiber Optic Transport	Interactive Video Conferencing	Pioneer Web Pages	IVC Repair & Maintenance
6	Interactive Video Conferencing	Financial Services	Helpdesk Services	Financial Services	Filtering	Interactive Video Conferencing	Financial Services	IVC Installation	Financial Services	Financial Services	Inventory Management, procurement and change management	Preschool Pioneer	IVC Scheduling
7	Internal tools	Helpdesk Services	Interactive Video Conferencing	Helpdesk Services	Filtering Cloud Services	Inventory Management, procurement and change management	Interactive Video Conferencing	Monitoring services	Helpdesk Services	Helpdesk Services	IVC Installation	Professional conferences and work groups	Network design, engineering and security consulting
8	IVC Repairs & Maintenance	Internal tools	Internal tools	Interactive Video Conferencing	Financial Services	IVC Installation	Internet Peering	Network Monitoring, Management, and Maintenance	Interactive Video Conferencing	Interactive Video Conferencing	IVC Scheduling	Reference Databases/Subscriptions	Network Monitoring, Management, and Maintenance
9	IVC Scheduling	IVC Installation	IVC Installation	IVC Installation	Helpdesk Services	IVC Repairs & Maintenance	IVC Installation	Online Tools and resources	Internet Peering	Operational Services	Operational Services	Training management and logistics	Professional conferences and work groups
10	NAS	Monitoring services	MHz Worldview	MHz Worldview	Interactive Video Conferencing	IVC Scheduling	IVC Repairs & Maintenance	Security Monitoring, Management, and Maintenance	IVC Repair & Maintenance	Regional Technical Support	Regional Technical Support	UEN-TV	WAN installation
11	Network design, engineering and security consulting	NAS	Monitoring services	Monitoring services	IVC Installation	Network design, engineering and security consulting	IVC Scheduling	Site Equipment Hosting		Research Network	Research Network	Utah Kids Ready to Read	
12	Network Monitoring, Management, and Maintenance	Network Monitoring, Management, and Maintenance	Network Monitoring, Management, and Maintenance	Network Monitoring, Management, and Maintenance	IVC Scheduling	Network Monitoring, Management, and Maintenance	On-line Testing	State of Utah Registry for Internet Numbering (SURIN)	Operational Services	Statewide Backbone	Site Equipment Hosting	Web conferencing	
13	On-line Testing	Online Tools and resources	Online Tools and resources	Online Tools and resources	On-line Testing	On-line Testing	Operational Services	System Backup and Recovery	Regional Technical Support	WAN repairs & maintenance	WAN repairs & maintenance	Web-site hosting and maintenance	
14	Regional Technical Support	Operational Services	Operational Services	Operational Services	Operational Services	Regional Training Support	Regional Technical Support	Training management and logistics	Research Network				
15	Research and Design	Professional conferences and work groups	Pioneer Web Pages	Security Monitoring, Management, and Maintenance	Regional Technical Support	Security Monitoring, Management, and Maintenance	Research Network	Utah Data Alliance	Statewide Backbone				
16	Research Network	SAN	Professional conferences and work groups	Site Equipment Hosting	Research Network	State of Utah Registry for Internet Numbering (SURIN)	Statewide Backbone	Web-site hosting and maintenance					
17	SAN	Security Monitoring, Management, and Maintenance	State of Utah Registry for Internet Numbering (SURIN)	State of Utah Registry for Internet Numbering (SURIN)	Site Equipment Hosting	Statewide Backbone							
18	Security Monitoring, Management, and Maintenance	Site Equipment Hosting	Training management and logistics	System Backup and Recovery	State of Utah Registry for Internet Numbering (SURIN)	WAN Installation							
19	Site Equipment Hosting	State of Utah Registry for Internet Numbering (SURIN)	UEN-TV	UEN-TV	WAN Installation	WAN repairs & maintenance							
20	State of Utah Registry for Internet Numbering (SURIN)	Training management and logistics	Utah Data Alliance	Utah Data Alliance	WAN repairs & maintenance								
21	Statewide Backbone	Utah Data Alliance	Utah Kids Ready to Read	Virtual Machine Support									
22	Virtual Machine Support	Virtual Machine Support	Web-site hosting and maintenance	Web-site hosting and maintenance									
23	WAN Installation	Web-site hosting and maintenance											
24	WAN repair & maintenance												

SERVICE CATEGORY	12	12	12	11	10	10	9	9	9	9	8	8	7
	Web site hosting and maintenance	Grant Development and Support	NAS	Internal tools	Filtering	Strategic Communication	Site Equipment Hosting	IVC Installation	Presentations	Training management and logistics	Research Network	Filtering Cloud Services	Monitoring services
1	Courses	Broadcast infrastructure	Desktop support for EBC LAN	Desktop support for EBC LAN	Commodity Internet Access	Broadcast infrastructure	Audio Conferencing	Audio Conferencing	Courses	Courses	Commodity Internet Access	Commodity Internet Access	Battery (UPS) and Generator Back-Up
2	eMedia (Equella)	Community Engagement	DNS Services	eMedia (Equella)	Courses	Community Engagement	Desktop support for EBC LAN	End Site Connectivity	eMedia (Equella)	eMedia (Equella)	DNS Services	Courses	Desktop support for EBC LAN
3	Kaltura	Financial Services	eMedia (Equella)	MHz Worldview	End Site Connectivity	Digital broadcast services	Interactive Video Conferencing	Helpdesk Services	Instructure Canvas	Instructional design	Internet Peering	End Site Connectivity	eMedia (Equella)
4	MHz Worldview	Interactive Video Conferencing	Helpdesk Services	Monitoring services	E-Rate UEN Filing	Financial Services	Internal tools	Interactive Video Conferencing	MHz Worldview	Instructure Canvas	Network design, engineering and security consulting	E-Rate UEN Filing	Online Tools and resources
5	Online Tools and resources	MHz Worldview	Internal tools	Moodle	Filtering Cloud Services	Grant Development and Support	Monitoring services	IVC Repair & Maintenance	Online Tools and resources	Online Tools and resources	Network Monitoring, Management, and Maintenance	Filtering	Professional conferences and work groups
6	Pioneer Web Pages	Online Tools and resources	Monitoring services	Online Tools and resources	Interactive Video Conferencing	MHz Worldview	On-line Testing	IVC Scheduling	Professional conferences and work groups	Presentations	Security Monitoring, Management, and Maintenance	Internet Peering	Training management and logistics
7	Preschool Pioneer	Operational Services	Network Monitoring, Management, and Maintenance	Pioneer Web Pages	Internet Peering	Operational Services	Research Network	Network design, engineering and security consulting	UEN-TV	Professional conferences and work groups	State of Utah Registry for Internet Numbering (SURN)	Statewide Backbone	Web site hosting and maintenance
8	Professional conferences and work groups	Regional Technical Support	Online Tools and resources	Professional conferences and work groups	On-line Testing	Preschool Pioneer	System Backup and Recovery	Regional Technical Support	Web conferencing	Regional Training Support	Statewide Backbone	WAN repairs & maintenance	
9	Reference Databases/Subscriptions	UEN-TV	Security Monitoring, Management, and Maintenance	Training management and logistics	Statewide Backbone	Professional conferences and work groups	Utah Data Alliance	WAN installation		Web conferencing			
10	Training management and logistics	Utah Data Alliance	Site Equipment Hosting	UEN-TV	WAN repairs & maintenance	UEN-TV							
11	UEN-TV	Utah Kids Ready to Read	State of Utah Registry for Internet Numbering (SURN)	Web site hosting and maintenance									
12	Utah Kids Ready to Read	Web site hosting and maintenance	Web site hosting and maintenance										

FIELD of Dependencies (Derived in Level)													
SERVICE CATEGORY	6	6	6	6	6	6	6	5	5	4	4	4	4
	UEN-TV	Interactive Video Conferencing	IVC Repairs & Maintenance	IVC Scheduling	Kaltura	Operations & Facilities Maintenance	Community Engagement	eMedia (Equella)	Professional conferences and work groups	Instructional design	E-Rate UEN Filing	E-Rate External Filing	E-Rate Training
1	Broadcast infrastructure	Audio Conferencing	Audio Conferencing	Audio Conferencing	Courses	Broadcast infrastructure	Financial Services	Kaltura	Courses	Courses	Community Engagement	Community Engagement	Community Engagement
2	Community Engagement	IVC Installation	Helpdesk Services	Helpdesk Services	eMedia (Equella)	E-Rate UEN Filing	MHz Workflow	MHz Workflow	Online Tools and resources	Instructure Canvas	Financial Services	Financial Services	Financial Services
3	Digital broadcast services	IVC Repairs & Maintenance	Interactive Video Conferencing	Interactive Video Conferencing	MHz Workflow	Interactive Video Conferencing	Operational Services	Online Tools and resources	Regional Training Support	Online Tools and resources	Operational Services	Operational Services	Operational Services
4	eMedia (Equella)	IVC Scheduling	IVC Installation	IVC Installation	Online Tools and resources	MHz Workflow	Preschool Pioneer	UEN-TV	Training management and logistics	Training management and logistics	Strategic Communication	Strategic Communication	Strategic Communication
5	MHz Workflow	Professional conferences and work groups	IVC Scheduling	IVC Repairs & Maintenance	UEN-TV	Site Equipment Hosting	UEN-TV	Web site hosting and maintenance	Web site hosting and maintenance				
6	Strategic Communication	Regional Technical Support	Regional Technical Support	Regional Technical Support	Web site hosting and maintenance	UEN-TV	Utah Kids Ready to Read						
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No. of Dependencies (Greatest to Least)

	3	3	3	3	2	2	1	1	1	0	0	0	0
SERVICE CATEGORY	MHz WorldView	Digital broadcast services	Broadcast infrastructure	Courses	Instructure Canvas	Pioneer Web Pages	Preschool Pioneer	Web conferencing	Regional Training Support	Moodle	Add-on tools for Canvas	Reference Databases/Subscriptions	Utah Kids Ready to Read
1	Broadcast infrastructure	Broadcast infrastructure	Digital broadcast services	Instructure Canvas	Add-on tools for Canvas	Reference Databases/Subscriptions	Utah Kids Ready to Read	Courses	Training management and logistics				
2	Digital broadcast services	Mhz WorldView	Mhz WorldView	Online Tools and resources	Courses	Utah Kids Ready to Read							
3	UEN-TV	UEN-TV	UEN-TV	Training management and logistics									
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No. of Dependencies [Greatest to Least]	0	0	0
SERVICE CATEGORY	Primo Central	On-line Testing	Utah Data Alliance
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NTIA BTOP Infrastructure Grant Update – 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. In late December, UEN submitted a request to extend the grant through May 31, 2013 and requested a modification to the project. UEN received official notification from the NOAA Grants Office (the fiscal agent for the BTOP grant) that the modification and extension was approved by the NTIA BTOP Program Office on January 30, 2013.

Background

UEN has approximately $5.3 million remaining for the BTOP project. UEN is moving forward with the following projects approved in the modification request:

- Purchasing five (5) additional IRUs that connect to the middle mile core infrastructure of our project. See the attached maps. The IRU routes are:
    - Salt Lake Community College to the Level 3 Delong Point-of-Presence Facility
    - University of Utah Downtown Data Center to Salt Lake Community College
    - 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 *(may not be possible due to available budget)*
- 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.

UEN also worked with The University of Utah Office of General Counsel and a local law firm to complete an NTIA federal security interest filing (UCC-1 statement) with the State of Utah by January 31st. The UCC-1 filing statement included any assets paid for by BTOP funds that have a federal interest retained by NTIA for the useful life of the particular asset. UEN will work with The University of Utah Office of General Counsel and the local firm to file an additional UCC-1 prior to the closeout of the grant which will include the additional assets (IRUs, etc.) acquired with the BTOP funding.

Recommendation

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

5. Attachment A – UEN Proposed BTOP Fiber IRUs: Northern Utah and Salt Lake City Downtown Area

December 19, 2012
UEN Proposed BTOP Fiber IRUs:
Salt Lake City Downtown Area

———	Existing Metro Fiber
———	Proposed Fiber IRUs
🔴	New IRU Sites
🔵	Existing Metro Fiber Sites
⚪	Downtown Metro Fiber Sites
	1 Mile
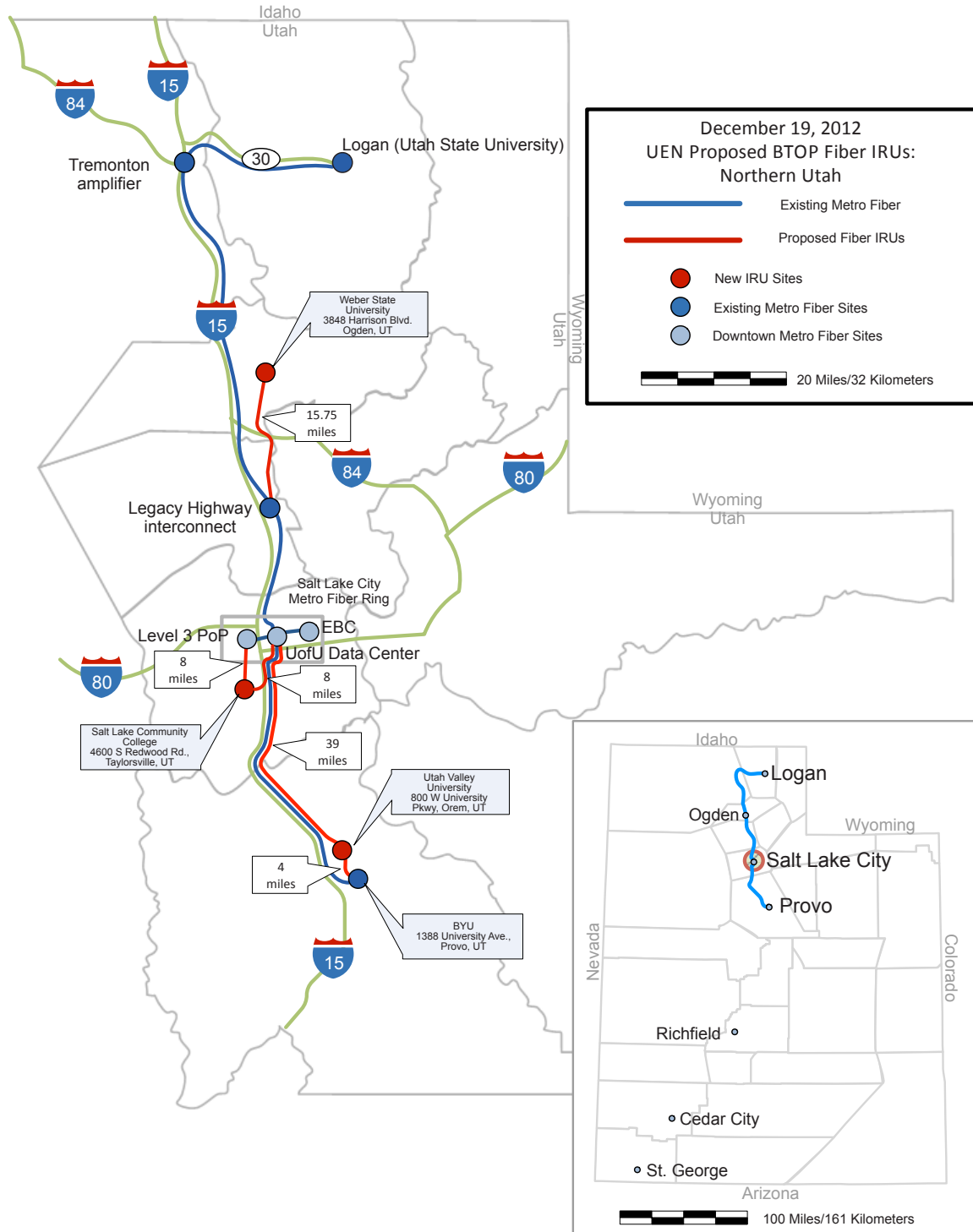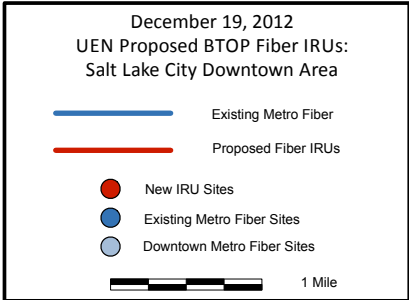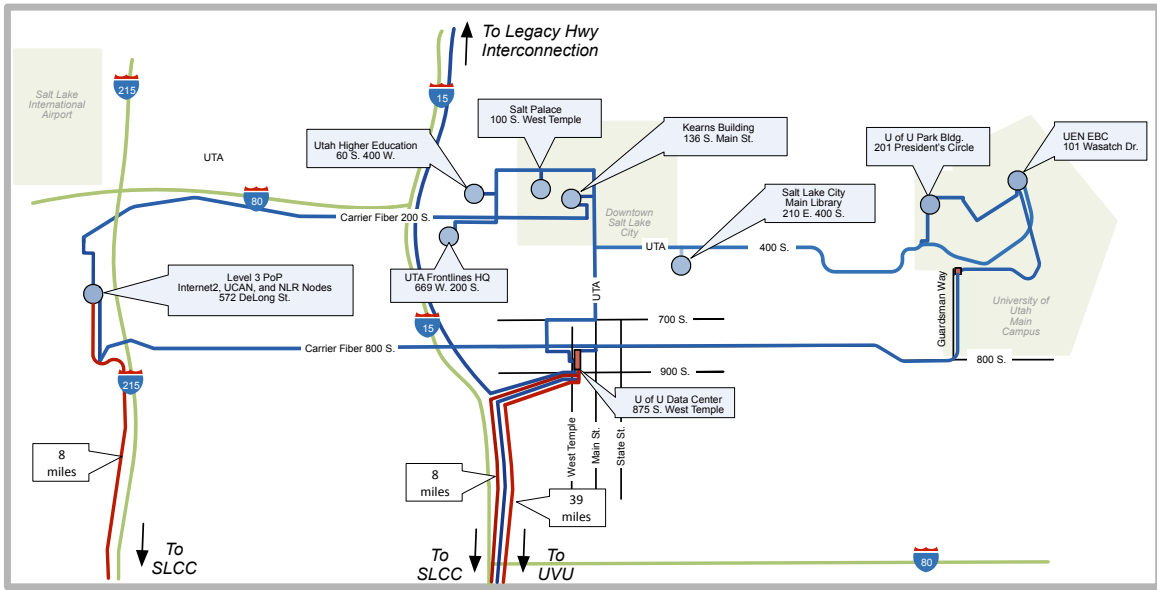
Utah Data Alliance – Action

Description

In the January meeting, the UEN Board was asked to make a commitment to either continue developing and maintaining the Utah Data Alliance (UDA) data warehouse, regardless of funding, or to relinquish their role and help transition the UDA data warehouse to the Utah State Office of Education (USOE). Board members are asked to take action regarding this request.

Background

At the last Board meeting, Judy Park and Jim Stewart were asked to collaborate and define various scenarios for hosting the UDA data warehouse and to make recommendations for Board action. Multiple meetings and discussion occurred with the resulting enclosed materials being developed.

Recommendation

Judy Park, as a member of the UEN Board, co-chair of the Utah Data Alliance Executive Board, and representing USOE, will present recommendations to the Board for further action.

6. Attachment A – Utah Data Alliance Brief for UEN Board

The Utah Education Network (UEN) has provided infrastructure (i.e. hosting) services for the Utah Data Alliance (UDA) for the past two years. Since the three-year UDA federal grant period ends on June 30, 2013 the UDA needs to make plans for continued infrastructure support either at the UEN or the USOE. Although the UDA partners very much prefer to have UEN continue to provide services, it understands the UEN board must consider numerous options due to the uncertainty of future funding.

To help the UEN make a decision about the future of UDA infrastructure support this brief presents four possible options each with their pros and cons. In addition it describes four funding scenarios that can occur within the coming months and factors to be considered in making a decision about who will provide the UDA infrastructure and at what point in time.

Since the 2013 Utah State Legislature ends its session in mid-March the UDA should know the outcome of its $600,000 ongoing budget request by that time. The granting of an extension of UDA's federal grant period, which would provide approximately $1.5 million dollars to be spent throughout some period in the 2013-14 fiscal year is currently unknown. Although such an extension could occur for a period of three to twelve months after the original end of the grant on June 30, 2013; an official decision about such an extension will probably not be forthcoming until April or later in the spring.

Another major consideration in these analyses is the start-up costs of providing infrastructure for the UDA at USOE. This cost is estimated to be $360,000. This cost will be incurred if and when the infrastructure support is moved from UEN to USOE. These costs have already been borne by UEN. Unfortunately, because the IT environments at the UEN and USOE are not completely compatible, all hardware and some software cannot be transferred from UEN to the USOE.

In making a decision about the continued support of the UDA infrastructure, four basic options, along with relevant considerations, are listed below.

1. UEN supports UDA until June 30, 2013, but the move to USOE begins March 2013 (120 days prior to June 30, 2013).
   a. USOE infrastructure start-up costs of $360,000 (from grant funds)
   b. Severe disruption in UDA implementation schedule and service occurs that would threaten the entire project. This is compounded by the fact that the project is currently behind schedule.
   c. The move from UEN to USOE will take 90-120 days.
   d. USOE will transition at least two of UEN's UDA staff to their employment or hire needed staff.
2. UEN supports UDA until June 30, 2013 (federal funds end June 30, move begins July 1, 2013)
   a. USOE infrastructure start-up costs of $360,000 (from grant funds – hardware & software are delivered prior to June 30, 2013)
   b. Some disruption in UDA implementation schedule and service.
   c. The move from UEN to USOE will take 90-120 days during which there will be no services.
   d. UEN will incur personnel cost of $60,000 - $80,000 for 3 FTE for 90-120 days to help with the infrastructure move. This could possibly be paid by state funds if they are appropriated.
   e. USOE will transition at least two of UEN's UDA staff to their employment or hire needed staff.
3. UEN supports UDA beyond June 30, 2013 up until 120 days prior to the end of federal funding.
   a. USOE infrastructure start-up costs of $360,000 will be incurred (likely from grant funds)
   b. Some disruption in UDA implementation schedule and service
   c. Assumes there will be at least a three federal month grant extension
   d. The move from UEN to USOE will take 90-120 days.
   e. USOE will transition at least two of UEN's UDA staff to their employment or hire needed staff.

4. UEN Supports UDA infrastructure indefinitely.
   a. No infrastructure start-up costs
   b. No disruption in UDA implementation schedule or service
   c. If $450,000 for expenses is not available from a state appropriation or federal grant extension funding would need to come from elsewhere.

Four Funding Scenarios

In order to provide a clearer picture of how potential state and federal funding will impact payment for UDA infrastructure past June 30, 2013; four future funding scenarios need to be considered.   These are depicted in the grid below. The estimated expense of providing infrastructure for the UDA for a period of one year is $450,000. The estimated breakdown of those expenses is:

$200,000 -- Software licenses
$ 50,000 – Servers and storage devices
$100,000 – Wages/benefits for 1 database administrator
$100,000 – Wages/benefits for 1 Systems administrator
$450,000 - Total one year infrastructure costs

Funding scenarios for fiscal year 2013-14 (amounts in thousands of dollars)

Funding Scenarios FY 2013-2014	State Funding	No State Funding
Federal Grant	500 Federal Funds 300 State Funds - 450 Infrastructure costs 350 surplus	500 Federal Funds 0 State Funds - 450 Infrastructure costs 50 surplus
No Federal Grant	300 State Funding 0 Federal Funds - 450 Infrastructure costs - 150 additional needed	0 Federal Funds 0 State Funding - 450 Infrastructure costs - 450 additional needed

Federal Grant - assumes a one year extension of which $450,000 is available for infrastructure
State Funding - assumes a $600,000 UDA appropriation of which $300,000 is available for infrastructure

Other relevant considerations:

• The UEN's primary mission and core competency is providing services specifically tailored to the Utah education community. These include: student resources, professional development, distance learning, and educator resources such as lesson plans, core standards, educational program broadcasting, and digital media.

• The UDA is a new (two years old) service/resource to help educators at all levels and other stakeholders such as businesses, Prosperity 2020, and the Governor's Excellence Education Commission make data-driven decisions and inform students and the public. UEN's mission is to support these efforts that have technology components.

• From the very beginning of the UDA initiative and as part of the grant application, the UDA had full backing of the UEN Executive Director and Steering Committee, the University of Utah CIO and the chiefs of all the partner agencies.

7   **UEN BOARD MEETING**

How do we know we're
doing a good job?   Q3

FY 2013 Mid-Year Progress Report –
Discussion

Description

This is a mid-year report on FY 2013 projects and initiatives.

Background

Board members reviewed a list of FY 2013 Initiatives during their June and August 2012 meetings. Now that the fiscal year is halfway complete, the initiatives list has been updated to reflect progress on various initiatives in Networking Services, Application Services, Support Services and Operational Services.

The list has also expanded to include initiatives for the entire fiscal year. These are typically projects that start and end during the year, rather than ongoing projects that require continuous attention.

In order to increase our transparency, the FY 2013 Initiatives list is posted online at *http://www.uen.org/ueninfo/initiatives/index.shtml*

Recommendation

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

7. Attachment A – UEN FY 2013 Initiatives

UEN Projects and Initiatives For FY2013

This initiatives list represents projects that will be addressed during fiscal year 2013 (July 2012-June 2013). This does not include ongoing operations or maintenance items.

Network Services ○ **Application Services** ○ **Support Services** ○ **Operational Services**

	Network Services	Lead	% Complete	Status Report as of 1/25/2013
1	☑ Complete Metro Ring project	J.Stewart S.Corbató	90%	USU, Salt Palace, 100 GigE turn up remaining
2	☑ Complete BTOP project	J.Brown J.Stewart J.Egly	80%	USU, Salt Palace, 100 GigE turn up remaining
3	☑ Support SC12 conference	J.Stewart L.Hunter	100%	COMPLETE - Nov. 2012
4	☑ Complete EPSCoR connectivity projects	J.Egly	90%	Equipment ordered; fiber testing underway
5	☑ BYOD = Bring Your Own Device.	B.Bryson J.Stewart	15%	Started discussions, working to build a broader base of those involved.
6	☑ Install non-BTOP head start & elementary sites	J.Stewart K.Dutt	0%	Notice to proceed letters received in July and site surveys are proceeding
7	☑ Initiate Tellabs backbone conversion	J.Brown	5%	Currently in initial planning stage
8	☑ Complete move into the USU RCDE building	L.Valles	90%	Classsroom 100% complete, UEN work area details remain
9	☑ Upgrade Uinta basin network with Strata	K.Dutt	100%	COMPLETE August 2012
10	☑ Develop comprehensive plan for move to Downtown Data Center	J.Stewart	20%	Initial planning and coordination underway with UEN/UU team
11	☑ Resolve IRON I2 issues	J.Stewart K.Quire	100%	COMPLETE August 2012
12	☑ Provide commodity connectivity for UMontana	J.Stewart B.Bryson	50%	
13	☑ Complete the NOC/TSSC redesign	T.Jessup	90%	Working on finalizing the visualization systems during the week of January 21. Everything should be complete by February 1, 2013.
14	☑ Update the online public file for KUEN	K.Krier J.Wong	100%	COMPLETE Sept 30, 2012
15	☑ Planning and release annual WAN RFP	L.Kuhn D.Sampson B.Bryson	100%	Evaluations and awards completed on 1-24. New contract negotiations underway.
16	☑ Conduct SIP pilot	J.Stewart	30%	Reviewing RFI proposals.
17	☑ Upgrade Omneon server for KUEN	P.Titus	95%	Equipment has been ordered and received. Installation is scheduled for January 23rd.
18	☑ Assess impact of moving IT services to Downtown Data Center	J. Stewart	Duplicate of Initiative #10	
19	☑ Connect Board of Regents to the Metro Ring	J. Stewart	50%	Alternative plan to the UU Data Center in place. Exploring options to connect Regents at Gateway to the Metro Ring.
20	Level3 router upgrades	K.Quire	10%	Developing configs
21	EBC Enterprise LAN upgrades	K.Quire	10%	Firewalls on order
22	Panguitch CO MPLS Conversion	K.Quire	10%	In planning stages
23	Internet Border Router Replacement	K.Quire	0%	Waiting for funding

Application Services		Lead	% Complete	Status Report as of 1/28/2013
24	▷ Rewrite and launch Independent Materials alignment	K.Branson K.Krier	65%	The interface that aligners use to submit their alignment is back online.
25	Standardize on Oracle & Postgres databases	B.Peterson	30%	Postgres Architecture designed; testing underway
26	Retool web hosting toward increased automation	B.Peterson	10%	Network design complete; implementation on schedule
27	▷ Expand content learning management ecosystem	K.Garrett	Ongoing	Informational website and video were created and posted online: uen.org/legislature
28	▷ Update UEN.org website	K.Krier	20%	Developed three redesign mockups and gathering user feedback.
29	Pilot-test Vmware cloud	B.Peterson	5%	Deployed vCloud Director, initial training
30	▷ Complete my.UEN enhancements	K.Branson K.Krier	Ongoing	The Documents Manager and message portlets were revised to allow educators to easily add images to their my.uen pages. The Services / Tools portlet now provides access to the UIMC+ eMedia for educators in UIMC districts / school.
31	▷ Explore broader UEN role in consortium software	L.Kuhn	25%	On schedule
32	▷ Support UIMC licensing, accounting, member services	L.Hunter	100%	FY12 licensing complete, FY13 billing complete, evaluations on schedule.
33	▷ Update the lesson plan tool	K.Branson K.Krier	5%	
34	▷ Integrate Open Tapestry and my.UEN	K.Krier	Deferred	This project has been deferred until product is complete.
35	▷ Expand eMedia integrations with Canvas, Learning	K.Garrett	90%	Equella/Canvas integration nearly complete; awaiting on bug fix from Instructure
36	Support UDA project	B.Peterson	35%	Environments deployed, initial release in BETA testing
37	▷ Explore NET+ partnership opportunities; pilot-testing	S.Allen J.Egly	80%	Pilot-testing SeeVogh with UU continues; Canvas Net+ service validation phase is about 95% complete.
38	▷ Develop state government IVC support plan	J.Egly	90%	Plan developed; awaiting feedback from DTA via Eric Denna
39	▷ Complete Virtual Route Forwarding project	K.Quire	10%	Met with USU and launched initiative to implement across USU sites statewide
40	▷ Rewrite Distance Education Catalog	K.Branson	100%	Complete
41	▷ Resolve filtering issues and move districts to cloud	J.Stewart T.Jessup B.Bryson	30%	Filtering RFP currently out, and expected to be completed by the end of January.
42	Explore consortium licensing for NBC Learn	L.Hunter	10%	Initial meetings and price proposal; awaiting meeting with Pioneer Committee
43	▷ IVC Network Capitol Refresh Planning	J.Egly		
44	▷ Daggett, Grand and San Juan Licensed Microwave Refresh/Replacement	J.Egly		
45	▷ Develop online Civics/Character Ed PD Course	L.Hunter	5%	Initial planning and development stages.

	Support Services	Lead	% Complete	Status Report as of 1/28/2013
46	▷ Implement Intel Teach grant	V.Rasmussen	98%	7 sections offered, follow up to complete remaining 3
47	▷ Launch new courses aligned to standards; track	V.Rasmussen	100%	COMPLETE Nov. 2012 Added 4 Intel courses, Teaching and Learning with iPads, eBooks and eReaders in the Classroom, Teach Online with Canvas CMS, Utah Core Curriculum Resources and Projects, Canvas LMS: Deliver Instruction Online.
48	▷ Support new Cyberpedagogy endorsement with USOE	V.Rasmussen	80%	1 course completed, starts January 17; 2 courses in development
49	▷ Produce guides for effective technology use in the classroom	V.Rasmussen	95%	11 guides complete, formatting nearly done, published online by end of January 2013
50	▷ Support Utah EPSCoR projects	L.Hunter L.Cohne	33%	Education-engagement projects on track as described in NSF proposals
51	▷ Create new online courses with USOE Specialists	D.Jones	50%	Courses developed and deployed, undergoing course revision and improvements based on pilot semester.
52	▷ Promote NetSafe Utah solution for CIPA compliance	R.Cline	85%	CIPA compliance letter sent to superintendent's and principals; NetSafe trainers responding to presentation requests.
53	▷ Support USHE TICE project: courses, videos, website	K.Garrett	30%	website, videos complete; additional support as requested
54	▷ Support UtahFutures.org	L.Hunter K.Krier	Ongoing	Website, videos complete; additional support as requested. Hosted NROC webinars to aid in course development. Steering Cmte and workgroup support ongoing
55	▷ Complete installation of 80 IVC sites	D.Maw	0%	
56	▷ Complete USHE security assessments	T.Jessup	33.33%	Three institutions are complete, Continuing process for the remaining.
57	▷ Support conferences: UtahSAINT, SUECON, etc.	J.Stewart	25%	Tech Summit is currently being planned by Barry Bryson. UtahSAINT location identified. Planning for the 2013 conferences are well underway.
58	▷ Complete engagement activities with diverse audiences	L.Cohne	100%	Complete. As of 12/1/12, five film screenings took place at museums, libraries and higher ed. institutions with over 200 participants highlighting American Indian Heritage Month.
59	▷ Complete VoteUtah activities with KUED, KBYU and radio partners	L.Hunter K.Krier K.Garrett	100%	COMPLETE Nov. 6, 2012 - ed website, PR to journalism departments, promoted in a variety of ways, supported debatee video and audio files in eMedia
60	▷ Support NSF, and other grant projects with STEM faculty	L.Hunter J.Gibbs	50%	Ongoing
61	▷ Explore Teaching Channel partnership with USOE and teacher ed programs	L.Hunter	25%	Meetings in Dec 2012, partnership outlined and in progress with USOE.
62	▷ Propose eBooks solutions for public ed committee	R.Cline	50%	Currently researching potential solutions for a statewide K-12 eBook service.
63	▷ Implement 2013 Intel Teach grant	V.Rasmussen	0%	
64	▷ Support UCET Conference	V.Rasmussen	0%	
65	Implement NROC Webinars and Training	K.Garrett	25%	Some webinars complete, others pending requests from USHE
66	Research online Ed Tech Endorsement program	L.Hunter	10%	Initial meetings with SUU, SEDC, and others
67	Design FY14 Training program for web conferencing	L.Hunter		

Operational Services		Lead	% Complete	Status Report as of 1/28/2013
68	Hire new Executive Director	E.Denna	100%	COMPLETE September 2012
69	▣ Update UEN Bylaws	L.Hunter	100%	COMPLETE October 2012
70	▣ Finalize and support UEN advisory council	L.Hunter	50%	Meeting planned for February
71	▣ Update repository of UEN guidelines, implement diversity policy and other governance documents	L.Hunter	50%	Diversity Guidelines Approved, website updates in progress.
72	▣ Demonstrate substantial progress on inventory database	J.Stewart	50%	Processes and systems have been developed, active inventory scanning begins late January.
73	Develop capital equipment refresh budget & Board	L.Kuhn	100%	COMPLETE August 2012
74	▣ Implement communications plans for legislature	R.Finlinson	80%	Research and planning complete. Implementation well underway. Evaluation ongoing.
75	▣ Finalize 'should' planning questions with Board	R. Timothy	50%	Continued refinement.
76	Prepare service-aligned budget	L.Kuhn	100%	COMPLETE December 2012
77	▣ Research implementing a student employment program	L.Hunter	0%	
78	▣ Develop service prioritization/dependency methodology	J.Stewart	33%	Draft methodology developed and being evaluated; will re-work in preparation for sharing to a larger audience
79	Produce Legislative Ask website, videos, materials	L. Hunter K. Krier K. Garrett	100%	COMPLETE: uen.org/legislature
80	Implement BoardDocs	L. Hunter	25%	Contracting/licensing complete; on schedule for March implementation.

Advisory Council – Action

Description

Board members will hear an update on the Advisory Council meeting and are asked to approve the addition of an urban area teacher.

Background

Ray will provide an update on the first UEN Advisory Council meeting on February 12, 2012. After further analysis of the final slate of Advisory Council members, it became evident that there was a lot of representation from rural areas, but not larger urban school districts. Board members are asked to approve the addition of a teacher representative recommended by the Utah Coalition for Educational Technology (UCET) professional group of technology-using educators.

Recommendation

This is an action item.

Video Productions – Discussion

Description

UEN has collaborated with public and higher education partners to produce videos for several educational initiatives.

Background

As a public broadcaster, one of UEN's core services is to produce educational media. UEN works with public and higher education partners, where media production is increasingly in demand for TV, websites, social media, and training presentations. To accomplish this, UEN employs one film studies student and works with several video production subcontractors for projects.

Three video programs were created for the SC12 conference highlighting Salt Lake City's role as the fourth node on the Internet, computing and graphics history, and advances in data imaging. These videos were funded through an EPSCoR cyber-infrastructure grant. The videos and accompanying exhibit will be placed on permanent display in The University of Utah Marriott Library. There will be a VIP reception on March 5th for the opening – UEN Board members will receive an email invitation from the School of Computing for this event.

UEN is assisting the Utah Women and Education Initiative producing video public service announcements for TV, web, and training events. The video spots highlight research from the initiative designed to increase the number of women who complete college in Utah. *http://www.utahwomenandeducation.org/*

UEN partnered with Utah Higher Education Assistance Authority (UHEAA) to produce videos on financing college, understanding the FAFSA, student loans, and saving for college. The videos are slated for completion this semester.

The Technology Intensive Concurrent Enrollment (TICE) program with the Utah System of Higher Education features three UEN-produced videos highlighting the program and the importance of a valuable senior-year through concurrent enrollment. *http://www.uen.org/concurrent/*

In addition to video production, UEN has helped deliver key instructional videos using our player called Kaltura. When USOE placed a new requirement on Utah teachers to watch a suicide prevention video, UEN worked to place the video in a password-protected location. Since its launch in August 2012 the video has been viewed over 3,634 times. Likewise, the internet safety

requirements of schools are being met with NetSafe Utah videos that receive an average of 3,105 views per month and are available in 10 different languages.

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

July	August	September
• FY Start • Update plan on website • Update budget on website • GOPB guidelines released • Advisory Council Meeting	• Draft legislative request for next FY • Preliminary request forms due to GOPB at end of month	• FY request to Governor's office and Legislative analyst

FY Quarter 2

October	November	December
• Federal FY starts • CPB CSG certification forms due • Schedule next year's Board meetings • Several conferences this month • GOPB budget briefings are held • Advisory Council Meeting	• Meetings with stakeholders re: fiscal request • Update UEN booklet and documents	• Governor's budget recommendations released • Annual *Diversity Training* for Board and managers

FY Quarter 3

January	February	March
• Start legislative session • Mid-year progress report to Board • Advisory Council Meeting	• CPB CSG grant report due • Capitol Hill Day w/public media	• Several conferences this month • End legislative session • Annual UEN staff meeting "State of UEN" after legislature • New FY budget and plan are drafted

FY Quarter 4

April	May	June
• Results of legislative session are known • Planning retreat for new FY w/Board and Advisory Council • New FY budget and plan are drafted • Annual *Open Meeting* training for Board and leadership team	• Board meeting re: draft budget • Board meeting re: draft plan	• Board approves strategic plan • Board approves next FY budget

UEN Current Quarter Planning Calendar

January 2013	February 2013	March 2013
• 18- Board Meeting • 28 - Start legislative session • UEN managers in HR course • Update FY initiatives list	• 15 – Board Meeting • Set up/training BoardDocs • CPB CSG grant reports due • 24-26 - Capitol Hill Day w/public media	• 7 – UELMA Conference • 8-9 - UCET Conference • 14 - End legislative session • 22 – Board Meeting • Annual UEN staff meeting • "State of UEN" after legislature • New FY budget and plan are drafted

Other