

# Illinois Century Network

## Policy Committee Meeting Agenda

April 21, 2014  
1:00 p.m.



**ILLINOIS CENTURY NETWORK  
POLICY COMMITTEE  
MEETING AGENDA  
April 21, 2014  
1:00 p.m.**

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**Next Meeting**

July 21, 2014  
Community College Board, Springfield  
James R. Thompson Center, Chicago

**ILLINOIS CENTURY NETWORK**

**January 21, 2014 POLICY COMMITTEE MINUTES**

**Submitted for:** Action

**Summary:** Distribution of the January 21, 2014 minutes for review by the Policy Committee.

**Action Requested:** Adoption of the January 21, 2014 minutes.

**Recommended Motion:** The ICN Policy Committee adopts the January 21, 2014 minutes with any edits as noted.

**ILLINOIS CENTURY NETWORK**

**JANUARY 21, 2014 POLICY COMMITTEE MINUTES**

Greg Wass called the meeting to order at 1:07 PM.

**Members Present (Springfield):**

Greg Wass, Central Management Services	Lori Sorenson, Central Management Services
Brent Engleman, Board of Education	Kathleen Bloomberg, Illinois State Library
Beth Shea, Illinois State Museum	Jeff Newell, Illinois Community College Board
Mike Dickson, Consultant	

**Members Present Chicago:**

Sean Vinck, Office of the Governor	
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**Members on audio bridge:**

Chet Olson, Mayor of Rochelle	Alan Phillips, Board of Higher Education
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**Members absent:**

None	
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**Staff and guests:**

Christ Balich, Office of the Governor	Robin Woodsome, Central Management Services
Deborah Kelley, Central Management Services	

**Announcements**

Greg Wass announced that he is now working at Central Management Services as the Deputy Director of the Bureau of Communication and Computer Services. His goal is to align operations with the business objectives of the state. CMS has new leadership team and plans to make a stronger connection with the agencies.

Greg stated that while the federally funded portion of the ICN build out has ended, there is much more to do. An immediate outcome is a reduction in bandwidth rates for state agencies as well as constituents. The new rates for state agencies begin on July 1, 2014.

**Minutes**

Greg Wass introduced the first item on the agenda, approval of the minutes from the August 12, 2013 meeting. A motion was made by Kathleen Bloomberg to accept the minutes. The motion was seconded by Mike Dickson. The motion carried.

**IBOP Update**

Lori Sorenson reported that construction was successfully completed. There is a 90-day close out period to process final payments and submit the final reports. Expenditures as of December 31, 2013 were \$93M. CMS has received \$18M of \$26M in capital funds – CMS does not anticipate receiving the remaining funds. Final

expenditures are estimated to be \$1M under budget even after adding the additional anchor institutions. A total of 387 anchor institutions were connected. The majority are receiving services. A few of the CAIs are waiting until the next e-Rate cycle to switch to the new service.

CMS signed three new wholesale agreements bringing the total to nine. ICN is negotiating agreements with additional wholesale customers. ICN received three proposals for the Sales and Marketing RFP. Staff are evaluating the proposals and expect to have a recommendation in late February.

Now that ICN owns the fiber, there is another layer of responsibility for maintenance and locating services. ICN has contracted with two vendors – one for maintenance and one for locating services. Staff are pleased with the performance of both vendors.

Kathleen Bloomberg asked if the Sales and Marketing RFP reviewers were internal staff. Lori responded that they were. Greg mentioned it is hard to get volunteers from outside agencies to participate in procurements. If anyone is interested, please let us know. We would have to check their credentials and ensure there are no conflicts of interest. It should be limited to agencies and schools. Staff could provide a list of upcoming procurements at the next Policy Committee and AET to see if there is interest.

Greg reported we are asking to restore the \$6M for ICN operational costs for FY15. Sean asked if the \$6M will get the schools lower operating costs. Lori responded in the new model, the allocation to the individual school is directly tied to the state appropriation. The FY14 allocation is based on \$6M however the final appropriation was \$5M. Sean commented that schools and libraries are receiving \$1M subsidy and asked if there was a different funding model that would be more appropriate. Lori responded that we have reached out to some other state networks to learn more about their operations including state funding for schools and libraries. North Carolina, South Dakota and Utah all receive state funding to cover the full cost of the bandwidth needed by the state's schools and libraries. These states also leverage e-Rate funds.

It was recommended that staff provide legislators with a report of the CAIs receiving services as a result of the state appropriation. It was also suggested that Policy Committee members meet with the legislators.

### **Key Performance Indicators**

Lori provided a handout highlighting key performance indicators over time.

Kathleen Bloomberg asked why the number of connections is dropping with the \$96M investment. Lori responded that several customers disconnected prior to the decrease in rates. Others disconnected due to the high cost of the last mile connection. Greg asked if we could ask the marketing vendor to work with the schools and lost customers.

Lori explained that historically we've tracked K-12 connections by building. It's been a challenge to get accurate data from the schools on which buildings are connected behind the single, direct connection to the ICN. Staff would like to track K-12 schools at the district level.

Sean Vinck asked how the \$14 per megabit charges relates to the private vendors. Lori responded that if you look at providers with the same services, we charge similar rates. During the past year, staff noticed that several providers dropped their rates to match ours.

**E-rate Update**

Tom Oseland was not in attendance to provide the E-rate update so Lori provided the report on his behalf. ICN received the reimbursement as an applicant. ICN received a request from USAC to participate in a Payment Quality Assurance (PQA) review regarding a payment from services rendered in 2011. Tom will be working with USAC to submit the requested information.

Tom Oseland has been working with the staff on the service provider side so we can respond to bid requests from eligible entities.

**AET Membership**

If anyone has suggestions for membership on the Advanced Engineering Taskforce, please let us know. Staff will be making those recommendations at the next meeting.

Meeting adjourned at 2:26 PM.

**ILLINOIS CENTURY NETWORK**

**ILLINOIS BROADBAND OPPORTUNITY PARTNERSHIP UPDATE**

**Submitted for:** Information

**Summary:** Provides an update on the Illinois Broadband Opportunity Partnership.

**Action Requested:** None

**Recommended Motion:** None

## **ILLINOIS CENTURY NETWORK**

### **ILLINOIS BROADBAND OPPORTUNITY PARTNERHSIP UPDATE**

Staff continue to work on close out activity. The deadline has been extended until May 31, 2014. The final project costs were \$95,183,594. CMS received \$61,124,939 of the \$61,173,460 in federal funds and \$18M of the \$26M in Illinois capital funds plus another \$6M in state funding.

#### **Sales and Marketing Partner**

After reviewing the three proposals, CMS will not be awarding a contract as a result of the RFP. Staff are pursuing several alternates to address sales and marketing to the wholesale marketplace including:

- 1) No cost agreements with fiber/broadband brokers who will be marketing and selling ICN fiber and services as a complimentary service to their existing footprint and service offerings.
- 2) Direct sales to wholesale providers using existing contract resources.
- 3) Partnership(s) with the other Illinois public fiber network.



**ILLINOIS CENTURY NETWORK**

**E-RATE UPDATE**

**Submitted for:** Information

**Summary:** This item provides an update on ICN E-rate funding request.

**Action Requested:** None

**Recommended Motion:** None

**ILLINOIS CENTURY NETWORK**

**E-RATE UPDATE**

The review of ICN customers’ 2013 E-rate applications is almost completed. Approximately 106 of the 119 applications submitted with ICN listed as the Internet access service provider have been approved. This represents about \$774,386 in approved E-rate funding after the approved discount percentage has been applied. The total cost of ICN services represented is approximately \$1,219,536. Of the remaining applications, only four are pending a funding decision. The others were either cancelled by the applicant or denied funding.

The 2014 E-rate application filing period ended recently. There were approximately 157 applications submitted that listed ICN as the service provider for Internet access services. These applications represent about \$1,932,642 in ICN services and \$1,323,660 in potential E-rate funding support for those services.

The chart below summarizes ICN E-rate application history for each funding year up to 2012.

**E-rate Activity**

<b>Funding Year</b>	<b>Received</b>	<b>Approved – Not yet received</b>	<b>Applied for Not yet approved</b>	<b>Under Appeal</b>
Year 3 (2000)	\$2,137,765	-0-	-0-	N/A
Year 4 (2001)	\$2,522,559	-0-	-0-	N/A
Year 5 (2002)	\$4,996,227	-0-	-0-	N/A
Year 6 (2003)	\$4,644,171	-0-	-0-	N/A
Year 7 (2004)	\$2,497,427	-0-	-0-	N/A
Year 8 (2005)	\$2,424,567	-0-	-0-	N/A
Year 9 (2006)	\$982,392	-0-	-0-	N/A
Year 10 (2007)	\$953,998	-0-	-0-	N/A
Year 11 (2008)	\$799,251	-0-	-0-	N/A
Year 12 (2009)	\$1,339,032	-0-	-0-	N/A
Year 13 (2010)	\$2,982,199	-0-	-0-	N/A
Year 14 (2011)	\$2,561,151	-0-	-0-	N/A
Year 15 (2012)	\$2,520,377	-0-	-0-	N/A
<b>Totals</b>	<b>\$31,361,116</b>	<b>-0-</b>	<b>-0-</b>	<b>-0-</b>

CMS responded to the FCC’s latest notice for public comment on changes to the E-rate program. While these comments reflect CMS’s opinion only, staff did seek input from members of the K-12 Broadband Planning Steering Committee. The comments include the following recommendations:

- 1) Internal Connections – Recommends schools and libraries receive a set amount of funding for internal connections per year. The assumption is that with the increase in available E-rate funding and the

decrease in support for voice services, more money will be available for Priority 2 and the money will be distributed across all eligible entities not just those with the highest free and reduced lunch counts.

- 2) External Connections – Recommends schools and libraries should have the option to own the last mile fiber. The current rules create a system whereby the schools and libraries are often times paying to build the fiber through the monthly service rates. Once the initial term ends and the vendor has recouped the construction costs the rates do not decrease nor does the broadband speed increase. Many schools and libraries have been paying the same monthly fee for the same broadband speeds for upwards of ten years despite the overall costs to provide the service decreasing.
- 3) Voice Services – Recommends support for voice services should be phased out gradually to allow more funding for external and internal broadband infrastructure.
- 4) Internal Connections Experiment – Proposes an experiment project for a reference model to assist rural schools and libraries in upgrading their internal connections. The result would be internal network designs with recommended components and pricing that can be used by schools and libraries that lack the technical expertise to develop their own models and budgets.
- 5) External Connections Experiment – Proposes an experiment to build fiber to rural schools and libraries through a shared build with a service provider interested in serving the community. By sharing in the build both parties will lower the one time construction and ongoing maintenance costs. The school or CMS on behalf of the school will own the fiber connecting the school to a community access point. Service providers can compete to sell service to the school over the open access fiber which should result in the most competitive prices and services.

A copy of the CMS response is being provided as a separate handout.

**ILLINOIS CENTURY NETWORK**

**FCC PILOT PROJECT**

**Submitted for:** Information

**Summary:** This item provides an update on the FCC Pilot Project.

**Action Requested:** None

**Recommended Motion:** None

## **ILLINOIS CENTURY NETWORK**

### **FCC PILOT PROJECT**

In January the Federal Communications Commission released the Technology Transitions Order seeking letters of interest from parties wanting to participate in experiments transiting traditional voice services to voice over IP. Included within the order was a request for non-binding expressions of interest for experiments to extend broadband to community anchor institutions in designated rural areas.

CMS submitted a response expressing our interest in building fiber to schools and libraries in the designated areas through a partnership with service providers interested in serving the community as a whole. CMS and the provider would share in the costs to build the fiber and ownership of the resulting fiber strands.

A copy of the proposal is being provided as a separate handout.

**ILLINOIS CENTURY NETWORK**  
**K-12 SCHOOL TECHNOLOGY INITIATIVE**

**Submitted for:** Information

**Summary:** This item provides information regarding the K-12 School Technology initiative.

**Action Requested:** None

**Recommended Motion:** None

## **ILLINOIS CENTURY NETWORK**

### **K-12 SCHOOL TECHNOLOGY INITIATIVE**

CMS has been working with the Illinois State Board of Education and the Governor's Office of Management and Budget to provide information on the current connectivity for K-12 schools along with cost estimates for high speed connections to every school. In January, State Superintendent Koch announced the Board was requesting \$450M in capital funds to upgrade school technology infrastructure (The Jan. 27, 2014, Weekly Message from State Superintendent Christopher A. Koch, [http://www.isbe.net/board/archivemessages/2014/message\\_012714.pdf](http://www.isbe.net/board/archivemessages/2014/message_012714.pdf)).

Staff have continued to respond to requests for additional information and are ready to work with the appropriate entities should funding become available.

**ILLINOIS CENTURY NETWORK**

**ICN BUDGET**

**Submitted for:** Information

**Summary:** This item provides information regarding ICN budget.

**Action Requested:** None

**Recommended Motion:** None



**ILLINOIS CENTURY NETWORK**

**ICN BUDGET**

The Governor's FY15 budget includes a recommended \$6M appropriation for the ICN to fund bandwidth to schools, libraries and museums. If approved by the General Assembly, the current credit allocations will remain the same as they are based on a \$6M appropriation despite the lower funding for FY14.

Below is a table showing ICN revenues and expenses over time along with the projections for FY14 and 15.

	<b>Fiscal Year</b>					
	<b>2001</b>	<b>2005</b>	<b>2010</b>	<b>2013</b>	<b>2014 (Projected)</b>	<b>2015 (Projected)</b>
Revenues						
State Appropriation	\$27,743,640	\$20,124,015	\$12,000,000	\$4,000,000	\$5,000,000	\$6,000,000
Public Customers	NA	\$2,458,412	\$3,578,246	\$3,997,908	\$1,760,908	\$2,000,000
State Agencies	NA	NA	\$6,922,008	\$7,096,056	\$7,229,040	\$7,000,000
Private Customers	NA	NA	NA	\$971,306	\$2,300,000	\$3,100,000
Federal Reimbursement	NA	\$5,771,055	\$794,601	\$ -	\$5,719,527	\$900,000
<b>Total Revenue</b>	<b>\$27,743,640</b>	<b>\$28,353,482</b>	<b>\$23,294,855</b>	<b>\$16,065,270</b>	<b>\$22,008,712</b>	<b>\$19,000,000</b>
<b>Expenses</b>	<b>\$27,740,002</b>	<b>\$27,291,976</b>	<b>\$22,357,379</b>	<b>\$21,786,430</b>	<b>\$19,216,700</b>	<b>\$19,000,000</b>
Rates	\$250/MB	\$250/MB	\$170/MB	\$170/MB	\$14/MB	\$14/MB

**ILLINOIS CENTURY NETWORK**

**ICN CUSTOMER PROFILE**

**Submitted for:** Information

**Summary:** This item highlights the CAI impact of a high speed, fiber connection.

**Action Requested:** None

**Recommended Motion:** None

## **ILLINOIS CENTURY NETWORK**

### **ICN CUSTOMER PROFILE**

ICN staff recently conducted an interview of many of the Community Anchor Institutions (CAIs) which are part of the IBOP-EC fiber project to learn how the service is performing and what are some of the applications they are using.

The interview focused primarily on how the network was performing technically and how the network might be making a difference for faculty and students. With regards to technical performance, sites were very positive with most reporting 100% uptime and excellent throughput. Two sites, Waubensee Community College and College of DuPage, noted an outage which was caused by a fiber cut in November 2013 which impacted both sites. Regarding how the connection may be making a difference for users, comments ranged from how the additional bandwidth allowed normal operations to function more efficiently to how the connection is allowing them to roll out new applications and programs.

Through the interview, common themes became apparent:

**Costs** – The majority of sites commented on how they were receiving higher bandwidth at lower costs than before. Some also noted that having the fiber connection positions them to more easily increase their broadband speeds to meet future demand.

**Bandwidth and Network** – Almost all sites commented on how nearly every application they use today is an on-line based application or has an on-line component. Sites reported how the additional bandwidth was allowing normal operations to perform better: faculty were no longer reluctant to use the computer labs, options were opening for faculty to introduce new applications such as video conferencing, school districts are looking to move to more cloud based services, and the district has the bandwidth needed to support the PARCC online testing requirements. Multiple sites mentioned they are looking at upgrading their internal networks to fully take advantage of higher bandwidth.

**Streaming Video** – Live video streaming was mentioned far more than any other application. For all our schools, it is a critical component in the delivery of instruction and the most challenging to deliver without slowing down the network. Several sites reported that prior to the fiber connection they were not able to stream video but are now able to do so without problems. A few sites noted that being able to stream video content is providing a cost savings by allowing them to stream content rather than having to purchase and maintain on-campus digital libraries. All sites indicated that live streaming video was working well on the new network and its use is expanding exponentially. YouTube was often mentioned and is considered a primary content resource.

**1 to 1 Initiatives** – Most K-12 schools either have implemented a 1 to 1 program on some level or are initiating one. Many schools are implementing wireless access where students and faculty are connected to the network throughout the day and are streaming content. One school reported that next year they will have 1 to 1 in place from Kindergarten through grade 12. 1 to 1 programs are a priority objective within the K-12 schools interviewed.

An additional observation was that college sites and K-12 sites had different concerns with colleges primarily commenting on the demand for bandwidth to address normal operations and K-12 sites commenting on bandwidth requirements for specific applications.

A selection of the information provided through the interview is presented here.

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Arcola CUSD 306  
Arcola Jr. and Sr. High School

Technical Report:  
Tremendous. Awesome.

Application Report:  
The district is planning to upgrade their infrastructure to wireless this fall and implementing 1 to 1 with iPads next year. They are implementing a pilot program with 200 students using iPads which will include the use of video streaming. The district participated in the Partnership for Assessment of Readiness for College and Careers (PARCC) testing on-line without problems. They commented that service by the ICN staff is always awesome.

.....  
Bond County CUSD 2  
Greenville Elementary, Jr., High School, and Pocahontas Center

Technical Report:  
Service is good.

Application Report:  
It is amazing to have fiber; the access provides an opportunity for higher bandwidth. The district participated in the Partnership for Assessment of Readiness for College and Career (PARCC) field test using the proxy option. Having access to fiber has made this possible. Faculty has the bandwidth needed to support classroom instruction. Teachers are using more academic software (Study Island). Currently implementing a 1 to 1 program with 300 students using netbooks and iPads. In the past the district had to email faculty to ask them to stop using the Internet to make bandwidth available for a special application or event. They no longer need to do that.

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Litchfield CUSD 12  
Litchfield Sr. High School

Technical Report:

Service is excellent. Some design changes are taking place to move Litchfield hospital to separate fiber pairs and the Illinois Century Network (ICN) is setting up REP option which will provide path redundancy.

Application Report:

Adapting and growing. 1 to 1 deployment using Chrome books that requires high bandwidth access. They have and are ready to go! District is using a lot of multi-media - Learn360 and other video portals. They use video conferencing with four other districts in the county and use high definition (HD) video between the school and Litchfield Hospital as part of their certified nursing assistants program. No problems.

Taylorville schools connect behind Litchfield via New Wave fiber. They are also working with Zion Lutheran School to connect via a wireless system. They report planning to increase from 100Mbps to 250Mbps in the next year. They participated in the Partnership for Assessment of Readiness for College and Careers (PARCC) field test using the proxy option.

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Tuscola School CUSD 301  
Tuscola Community High School

Technical Report:

No outages. Fast performance.

Application Report:

Currently at 21Mbps (ICN allocation) and planning to move to 50Mbps next year. They recently installed a wireless network. They are able to stream live video now rather than having to download programs in advance. The district is an advocate of music in the classroom and throughout the school. They use Pandora to stream music throughout the day.

.....  
College of DuPage

Technical Report:

No technical problems other than the fiber cut at Waubensee. Bandwidth is less expensive than before and able to increase bandwidth to 300Mbps. COD is also buying 300Mbps from another internet service provider.

Application Report:

The College is using more video streaming in the classroom and a great deal of YouTube. Their Blackboard program also links to NBC for video content. The library subscribes to multiple video resources and in the past has had to have DVDs delivered. Now they are able to stream the video without problems. The streaming option saves costs over the DVD option.

They recently remodeled their student lounge which is heavily used and it is common to find students all using laptops and tablets streaming video. "Everyone knows they have the bandwidth".

Marshall CUSD 2  
Marshall High School

Technical Report:

No complaints about video any time of day. They report not having had any issues. When first installed, tested with a bandwidth tester and reached a full gigabit.

Application Report:

Video streaming is not a problem now. Previously their bandwidth would be fully used all day, but that is not happening now. The school uses the Heartland Library System for library services also on the ICN.

.....  
Danville Area Community College

Technical Report:

No problems. Working extremely well. Experiencing substantial savings for higher bandwidth.

Application Report:

Site reports that people have noticed better performance. Faculty has more options and more possibilities. Reports that faculty are thinking of video conferencing with students and using Google+ Hangouts.

.....  
Spoon River College

Technical Report:

Working great and cost effective. Reliable.

Application Report:

Live video streaming was a major challenge in the past. If content had high end graphics it was a problem as in their on-line biology courses for example. They are planning to add more video content to their on-line courses and delivery to the classroom.

.....  
Paris Union SD 95

Technical Report:

Service is working well. The added bandwidth has helped. No complaints of slowness. The district has fiber between their school buildings.

Application Report:

One of their elementary school classes connected via a live video stream to someone at the Field Museum in Chicago who gave a tour of several of the museum exhibits (such as the Egyptian collection) using Google glass.

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Limestone CHSD 310  
Limestone Community High School

Technical Report:  
Fantastic! No internet problems – peaking between 30 and 35Mbps.

Application Report:

Went from 13 to 50Mbps and it is a world of difference. This is a single high school district with 8 feeder K-8 districts. Almost every classroom uses streaming video and they have almost no buffering. More faculty are using streaming video.

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Highland CUSD 5  
Highland High School

Technical Report:  
Higher usage with fewer complaints

Application Report:

School is using more multimedia content in the classroom. One reading program always slowed down to a point where it was unable to complete in the past. Teachers are using YouTube clips in their lesson plans. They use Google Docs with better performance due to network speed. They are using Google Cloud without issues. The high school and middle school has a BYOD program.

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Iroquois West CUSD 10  
Iroquois West High School and Gillman Elementary School

Technical Report:  
No problems. All schools are on fiber now where previously three were on T1 lines and two were on DSL service.

Application Report:

They participated in the PARCC testing using the proxy option. They are moving to a 1 to 1 deployment with grades 4 to 12 using Chrome Books, grades 1 to 3 using android tablets, and iPads in Kindergarten.

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The following spreadsheet documents the pre and post ICN fiber connectivity costs and bandwidth levels. Sites for which data is not available are not included here. Last mile costs for some sites are estimated based on known circuit pricing.

Bandwidth (in Mbps)			Monthly Cost			CAI
Current	Previous	Mbps Change	Current	Previous	Cost Change	Name
21	20	1	\$537	\$3,468	(\$2,931.00)	Altamont CUSD 10 District Office
21	10	11	\$537	\$2,435	(\$1,898.00)	Arcola Community Unit School District 306
21	1.5	20	\$537	\$350	\$187.00	Auburn Jr. High School at Divernon
35	20	15	\$728	\$575	\$153.33	Brown County High School
10	10	0	\$392	\$1,435	(\$1,043.33)	Clay/Crawford/Jasper/Lawrence/Richland ROE 12
300	50	250	\$3,225	\$4,700	(\$1,475.00)	College of DuPage
100	39	61	\$1,267	\$5,294	(\$4,027.33)	College Of Lake County - District 532
100	20	80	\$1,267	\$3,530	(\$2,263.33)	Danville Area Community College
100	20	80	\$1,267	\$3,530	(\$2,263.33)	Danville SD 118
500	222	278	\$5,083	\$15,540	(\$10,456.67)	Eastern Illinois University
10	4.5	6	\$392	\$747	(\$355.33)	Effingham ROE
206	34	172	\$2,293	\$3,380	(\$1,087.17)	Elgin Community College
50	20	30	\$833	\$279	\$554.33	Bond County CUSD 2
30	30	0	\$660	\$345	\$315.00	Griggsville-Perry CUSD4
150	12	138	\$1,774	\$5,668	(\$3,894.36)	Highland Community Unit School District
50	3	47	\$833	\$476	\$357.33	Iroquois West CUSD 10
279	50	229	\$2,767	\$5,201	(\$2,433.96)	John Wood Community College
500	100	400	\$5,083	\$7,275	(\$2,191.67)	Joliet Junior College Dist 525
100	20	80	\$1,417	\$3,530	(\$2,113.33)	Kankakee Community College
100	45	55	\$1,227	\$4,797	(\$3,570.33)	Kaskaskia College, Vandalia Center
50	20	30	\$833	\$2,015	(\$1,181.67)	Lake Land College - Kluthe Center
100	20	80	\$1,417	\$2,015	(\$598.33)	Lake Land College (Dist. 517)
50	30	20	\$833	\$180	\$653.33	Lawrenceville High School
100	60	40	\$1,267	\$7,472	(\$6,205.33)	Lewis And Clark Community College (Dist. 536)
50	13	37	\$833	\$3,082	(\$2,248.58)	Limestone CHSD 310
100	3	97	\$1,267	\$628	\$638.67	Lincoln College - Lincoln
100	45	55	\$1,267	\$5,797	(\$4,530.34)	Lincoln Land Community College
50	3	47	\$983	\$950	\$33.33	Lincoln Trail College
100	10	90	\$1,267	\$2,230	(\$963.33)	Litchfield CUSD 12
21	11	10	\$1,170	\$2,853	(\$1,683.00)	Marshall School Dist Office
20	12	8	\$523	\$2,668	(\$2,144.67)	McHenry County College
100	20	80	\$1,267	\$2,085	(\$818.33)	Morton College- Building B - District 527



Bandwidth (in Mbps)			Monthly Cost			CAI
Current	Previous	Mbps Change	Current	Previous	Cost Change	Name
9	1.5	8	\$378	\$1,055	(\$677.50)	Mt. Olive School District 5
11	1.5	10	\$406	\$620	(\$214.16)	Mulberry Grove CUSD 1
10	10	0	\$392	\$2,230	(\$1,838.33)	Neoga CUSD #3
10	10	0	\$392	\$2,230	(\$1,838.33)	Neoga Jr Sr School
100	14	86	\$1,267	\$2,893	(\$1,626.33)	Oakton Community College - District 535
80	20	60	\$933	\$2,820	(\$1,886.67)	Paris Union SD 95
50	15	35	\$833	\$120	\$713.33	Parkside Elementary School
21	50	-29	\$537	\$500	\$36.86	Paxton - Buckley - Loda High School
38	35	3	\$293	\$275	\$17.50	Pittsfield High School
20	1.5	19	\$523	\$709	(\$186.00)	Pocahontas Center
100	10	90		\$2,435	(\$2,435.00)	Richland Community College
20	19	1	\$523	\$3,222	(\$2,698.67)	Robinson High School
15	10	5	\$403	\$130	\$272.60	South Jacksonville Elementary School
45	7.5	38	\$775	\$2,337	(\$1,562.38)	Spoon River College Canton (Dist. 534)
5	15	-10	\$308	\$200	\$108.33	Spoon River College Rushville Center
0	1.5	-2		\$176	(\$175.85)	St. Joseph - Ogden High School
250	100	150	\$2,729	\$6,675	(\$3,946.00)	Triton College (Dist. 504)
21	11	10	\$534	\$2,453	(\$1,919.50)	Tuscola Community High School
11	11	0	\$406	\$2,553	(\$2,147.17)	University Center of Lake County
115	15	100	\$1,569	\$3,000	(\$1,430.83)	Waubensee Community College
35	30	5	\$728	\$1,000	(\$271.67)	Western CUSD 12
250	181	69	\$2,479	\$6,530	(\$4,050.83)	Western Illinois University
200	40	160	\$2,233	\$3,800	(\$1,566.67)	William Rainey Harper - District 512
		<b>61</b>			<b>(\$1,614.70)</b>	<b>Average</b>