

# Illinois Century Network

## Policy Committee Meeting Agenda

November 17, 2008  
1:00 p.m.

**ILLINOIS CENTURY NETWORK  
POLICY COMMITTEE  
MEETING AGENDA  
November 17, 2008  
1:00 p.m.**

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**Next Meeting – January 26, 2009  
Illinois Community College Board, Springfield  
James R. Thompson Center, Chicago**

ILLINOIS CENTURY NETWORK

**September 22, 2008 POLICY COMMITTEE MINUTES**

<b>Submitted for:</b>	Action
<b>Summary:</b>	Distribution of the September 22, 2008 minutes for review by the Policy Committee.
<b>Action Requested:</b>	Adoption of the September 22, 2008 minutes.
<b>Recommended Motion:</b>	The ICN Policy Committee adopts the September 22, 2008 minutes with any edits as noted.

## ILLINOIS CENTURY NETWORK

September 22, 2008 POLICY COMMITTEE MINUTES

Bonnie Styles called the meeting to order.

### Members present:

Greg Wass, Office of the Governor  
Kathleen Bloomberg, Illinois State Library  
Bonnie Styles, IL State Museums;  
Todd Jorns, IL Community College Board;  
Amy Edwards, IL Board of Higher Education

Mike Dickson, Western Illinois University;  
Scott Norton, IL State Board of Education;  
Chet Olson, Mayor of Rochelle

### Springfield staff and guests:

Lori Sorenson, Central Management Services;  
Tom Oseland, Central Management Services;  
Kirk Mulvany, Central Management Services  
Carla Paoni, AT & T

Stacey Mattera, Central Management Services;  
Sarah Zerfas, Central Management Services;  
Melissa Camille, Central Management Services  
Frank Whitney, AT & T

### Chicago staff and guests:

Alan Krauss, NIU Regional Dev. Institute  
Robin Woodsome, Central Management Services

Doug Power, NIU Regional Dev. Institute

### Announcements and Remarks

Bonnie Styles welcomed everyone for coming and said she was filling in for Greg Wass who was participating via phone. Lori Sorenson mentioned that the Ethics Act requires all appointees to a State Board or Commission to submit time sheets documenting time spent on official State business. The time keeping forms were distributed. Lori mentioned that the ICN will be featured in a future issue of State Tech Magazine. Lori also reminded everyone of the upcoming AET meetings.

### Minutes

Bonnie introduced the first item on the agenda, the approval of the minutes from the June 18, 2008 meeting. Bonnie asked for a motion to approve the minutes. Chet Olson motioned that the minutes be approved. Scott Norton seconded the motion. Motion carried.

### Rural Broadband Initiative Update

Doug Power from the Northern Illinois University (NIU), Regional Development Institute presented an update on the Vince Demuzio Rural Broadband Initiative. The goal of this pilot project is to provide access to high speed, affordable broadband in Montgomery and Macoupin counties. The Lieutenant Governor's Office led the effort to secure \$1M in funding to invest in a public/private partnership and engaged the assistance of the Northern Illinois University, Regional Development Institute to lead the project planning and coordination. NIU in collaboration with officials from Montgomery and Macoupin counties issued a Request For Proposals asking vendors to propose solutions to offer broadband throughout the two counties at speeds of 3 megabits, 10 megabits, and 50 megabits. Five companies responded and after evaluating the written proposals and oral presentations, a vendor was selected. Once the award notice is posted on the State procurement bulletin, NIU will begin working with the winning vendor, counties and Central Management Services to develop a detailed project plan.

### **ICN Funding**

Lori reported that in response to the \$5M reduction in ICN funding (\$18M to \$13M), CMS is analyzing the current costs to manage the ICN and specifically the cost to provide the subsidized bandwidth to educational constituents. This information will be shared with the Governor's Office of Management and Budget to show the direct impact of the budget reduction.

In the meantime, CMS has identified specific initiatives and costs that will be delayed or cancelled as well as identified unplanned revenue sources to address a portion of the \$5M budget reduction. CMS is waiting for the results of the cost analysis to determine the impact on the subsidized bandwidth. It's important to note that many of the cost reductions are one-time savings and do not reduce the overall operating budget. If the FY10 budget is reduced to \$13M, additional measures will need to be taken to reduce the operating budget accordingly.

### **Cisco Equipment Discounts**

As requested at the last meeting, Carla Paoni from AT&T addressed the Cisco equipment discount disparity for municipal government and health care. Carla reported that the contract between CMS and AT&T has been amended to extend the state agency and educational discount to municipal governments. Carla explained that the pricing model is based on pricing AT&T receives from the manufacturer and that in discussions with Cisco, the goal was to provide the extra discount to agencies and constituents heavily dependent on tax revenues.

### **E-rate Update**

Tom Oseland reported that all approved funding for the 2004 E-Rate application has been received. The total amount for the funding year was \$2,497,427.35. The majority of this funding was received in Fiscal Year '08 with \$226,738 received in early FY '09.

As reported previously, funding approval was granted for the 2007 E-Rate application. Once ICN E-Rate eligible expenditures for FY '08 have been finalized, reimbursement requests will be calculated and E-Rate forms will be processed to claim funding reimbursements for the 2007 Funding Year.

The E-Rate 2008 Funding Year application remains in initial review. Many of the services included in the 2008 E-Rate application are purchased from the State Network Services master contract. This contract expires in September 2009 which is in the middle of the E-rate Funding Year. As a result, Tom anticipates that the application will be held in review until the end of the funding year and the status of the master contract is known.

### **Network Update**

Kirk Mulvany reported that Network Operations staff is in the process of outlining a plan to further standardize video services and support provided to both State and non-State Agency ICN constituents. A new video bridge was recently installed to serve as a backup to the primary video bridge for educational constituents.

Work on the State Fiber Project (Dark Fiber) continues. The DWDM equipment bids have been received. The bid evaluation process is underway. Fiber discovery and acquisition efforts continue.

The total amount of ICN Internet egress bandwidth has increased by approximately 400 Mb. ICN bandwidth available through peering arrangements is currently at 1Gb to Equinix and 2Gb to Internet2. Additionally, there are current orders in process to increase both Internet egress bandwidth and peering bandwidth.

**Annual Regional Meeting Schedule**

Lori Sorenson provided the board with a schedule of the Regional Meetings taking place in the month of October.

**Additional Items**

Mike Dickson brought up the issue of network security and the need to establish information sharing among the colleges and universities. Mike suggested leveraging CMS/ICN to create a discussion and information sharing forum as the ICN is the network connecting state agencies, educational entities, libraries, museums and municipal governments. CMS agreed to reach out to its security team and look into possibilities.

Bonnie requested a motion to adjourn the meeting. Chet Olson made a motion to adjourn. Mike Dickson seconded the motion. Motion carried.

**ILLINOIS CENTURY NETWORK**

**World War II  
Digital Archives Project**

**Submitted for:** Information

**Summary:** This item provides the Policy Committee with a presentation on World War II Digital Archives Project

**ILLINOIS CENTURY NETWORK**

Statewide Security Forum

**Submitted for:** Information

**Summary:** This item proved the Policy Committee with a presentation on the Central Management Services Security and Compliance team and a discussion on developing a statewide security forum.

**ILLINOIS CENTURY NETWORK**

Regional Meeting Summary

**Submitted for:** Information

**Summary:** This item provides the Policy Committee with summary of the regional meetings that were held in October.

## Regional Meetings Summary

Location	Date	Time	RTC	Registered
<u>Lincoln Land Community College Capital City Center</u>	October 2, 2008	1:00 pm - 3:00 pm	VII	70
<u>Rend Lake College Market Place</u>	October 8, 2008	10:00 am - 12:00 pm	VIII	30
<u>South Suburban College</u>	October 17, 2008	10:00 am - 12:00 pm	IV	59
<u>College of DuPage</u>	October 21, 2008	10:00 am - 12:00 pm	III	89
<u>Sauk Valley Community College</u>	October 29, 2008	1:00 pm - 3:00 pm	V	28
<u>Harper College</u>	October 31, 2008	10:00 am - 12:00 pm	II	64

All sessions took place as scheduled and were well attended. Multiple BCCS/ICN personnel participated at each meeting including staff from Agency Relations, Network Services and the RTC offices.

The format was changed this year and focused more on current ICN initiatives and challenges, and included an interactive session during the second half of the program. The interactive session provided an opportunity for questions directed to ICN staff, and to other participants, to speak about projects and successes as well as challenges and to do some networking with peers. Participation in the interactive session ranged from ICN staff leading the discussion based on questions from the audience, to participants having lively interaction directly with each other on subjects like use of Blackboard for on line courses, bandwidth management, dealing with security issues, network designs, migration to fiber based Ethernet connections and multiple providers. Questions to ICN staff included questions about bandwidth management tools, our bandwidth costs, the need for a baseline bandwidth increase, ICN coordinating user groups, collocation services, video conferencing, and connectivity options.

Staff received some questions on the reasons for consolidating the meetings – six meeting this year rather than the usual nine, however no complaints. For Region I, it was suggested that perhaps there could be several smaller meetings throughout the year targeted for specific constituent groups like Community Technology Centers. Attendees reported the sites selected for the meetings were easy to get to, and a survey will be sent to attendees within the next few weeks.

In summary, there were few requests for new services which may reflect discussion of the budget cut. There were many questions about and requests for revisions to the cost recovery policy to provide higher baselines and to reduce the current cost for purchasing additional bandwidth. Non-primary constituents expressed the difficulty of remaining on the ICN due to our high bandwidth costs which are higher than other providers.

**ILLINOIS CENTURY NETWORK**

**E-RATE UPDATE**

**Submitted for:** Information

**Summary:** This item provides an update regarding the E-rate program.

**Action Requested:** None

## ILLINOIS CENTURY NETWORK

### E-RATE UPDATE

As reported previously, funding approval was granted for the ICN 2007 E-Rate application on April 8, 2008. On September 23, reimbursement requests totaling \$941,396.13 were submitted to USAC. So far, \$678,178.05 has been collected for this funding year.

The chart below summarizes E-Rate funding activity and status for each funding year application.

#### 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)	\$2,179,728	-0-	-0-	\$2,274,232 <sup>1</sup>
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-	\$393,338 <sup>2</sup>
Year 8 (2005)	\$2,424,567	-0-	-0-	N/A
Year 9 (2006)	\$982,392	-0-	-0-	N/A
Year 10 (2007)	\$678,178	\$269,325	-0-	N/A
Year 11 (2008)	N/A	N/A	\$1,604,177	N/A
Year 12 (2009)	N/A	N/A	N/A	N/A
<b>Totals</b>	<b>\$20,540,455</b>	<b>\$269,325</b>	<b>\$1,604,177</b>	<b>\$2,667,570</b>

The initial review status of the ICN E-Rate 2008 funding year application remains unchanged. As previously reported, due to the expiration of the State's master contract for Network Services on September 15, 2008, this application will be held in review until it can be determined how services provided under this contract will be covered for the remainder of the state's fiscal year and related E-Rate funding year.

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<sup>1</sup> The probability of receiving this funding request is minimal. Denial was based on the expiration of a master contract during the funding year.

<sup>2</sup> This remaining amount under appeal is related to the ICN Year 7 Library application. For unknown reasons, the FCC did not include this application in their decision to grant the ICN appeal of denied funding for the School application.

**ILLINOIS CENTURY NETWORK**

NETWORK UPDATE

**Submitted for:** Information

**Summary:** This item provides the Policy Committee with a brief summary of the ICN Network Updates.

## ILLINOIS CENTURY NETWORK

### NETWORK SERVICES UPDATE

There are several technical projects and/or initiatives underway to enhance the overall capability of the Illinois Century Network. It is imperative to stay focused upon the business needs that will be met and the added value for constituents that will be realized as a result of these efforts. It is with this in mind that we are reporting on the following network related projects and initiatives:

- ICN Backbone Connection Upgrades
- State-Owned Fiber
- Quality of Service (QoS) Enhancement

#### **ICN Backbone Connection Upgrades**

ICN has been working on a Statewide Backbone Circuit RFP. The goal of this RFP is to identify opportunities to procure additional backbone bandwidth capacity throughout the State. This RFP has resulted in contract awards with multiple vendors based on the outcome of an evaluation process on a circuit by circuit basis. As master contracts are executed between CMS and the respective vendor, CMS is proceeding with individual circuit orders to obtain increased network bandwidth. As a result of this effort, ICN will see an increase of up to four times the amount of available backbone bandwidth in the North and Northwest portions of the State of Illinois and significant cost savings in the Southeast part of the State.

The number one benefit of this effort is the ability to support all of the customer network traffic in the event of a network failure at one of the ICN POP sites or individual ICN backbone connections. Today in certain failure scenarios, constituents will potentially experience slower network performance when the traffic is rerouted. While there is more than enough available backbone bandwidth to support ICN traffic on a daily basis, the bandwidth available on lower capacity ICN backbone circuits is not sufficient to support the rerouting of traffic that takes place during a major backbone outage, in a transparent manner. As lower capacity ICN backbone connections are upgraded, they will once again be at a capacity in which the ratio of available bandwidth to constituent bandwidth will be more than sufficient to handle the transparent rerouting of traffic during a failover scenario. Additionally, ICN has been working to upgrade Internet egress and peering connectivity. A major benefit of these efforts is that additional bandwidth is available for constituents to travel off the ICN to Internet2 or the commercial Internet. Also, continued diversity in Internet egress, results in extremely high availability on the network.

#### **State-Owned Fiber**

ICN continues to work toward the implementation and utilization of State-Owned fiber. The fiber implementation and utilization design methodology for this project is such that the total fiber pairs for each segment of the core network will be divided into three categories of use: ICN production backbone, ICN backbone testing and maintenance, and local access to the network at designated points. This effort will result in benefits including increased network availability and added constituent connectivity options.

Having one pair of fiber for the ICN production backbone and one pair of fiber for ICN backbone testing and maintenance will result in increased network availability. Today, although a great deal of planning and communication takes place to minimize network downtime, ICN is dependent upon vendors for the scheduling of maintenance and the assurance of network availability for these backbone connections. The benefit of this model is that with this fiber design more work can be performed as needed and will be transparent to the customer.

The third pair of fiber will serve as an option for local access to the ICN at designated locations along the State-owned fiber paths. These locations will be determined by a combination of variables including State-owned fiber facilities logistics and constituent services and initiatives. For example, there are statewide and regional initiatives underway such as the Illinois Rural Healthnet and Connect SI initiatives. In each case, the initiatives have their own respective core missions to serve constituents that are within the scope of their projects. The location of entities that are served by each of these projects as well as others, will help drive us toward logical aggregation points along the State-owned fiber paths in which constituents can connect to the ICN via last mile, fiber based connectivity. A great benefit of this design is that once these points are established, a number of different constituent groups can be accommodated from a local access aggregation point and can be separated as much as desired or needed from other constituent traffic. An example of this would be that hospitals could connect and be part of the Illinois Rural Healthnet network that rides the ICN. In parallel, educational entities that are able to connect to the same local physical location could utilize completely separate fiber wavelengths as an alternative way to connect to the ICN, while at the same time remaining completely separate from the Illinois Rural Healthnet network.

### **Quality of Service (QoS) Enhancement**

ICN has provided a flavor of QoS for customers for quite some time. This version of QoS is such that IP traffic tagged as video or voice is given a priority in the queue if ever in contention for bandwidth with other IP traffic on a given network segment. The benefit with this version of QoS is stability of IP video and voice calls during times of high bandwidth utilization while all other traffic is sent in a “best effort” manner.

However, as constituents are utilizing the ICN to access and participate in the use of critical applications and constituent service needs continue to grow, Network Services recognizes the need to enhance our implementation of QoS to enable network traffic to be prioritized by criticality in addition to differentiating between IP video and voice, and all other IP traffic. A project is underway this fiscal year to implement this enhanced QoS functionality.

The benefit of this enhanced QoS model is that the importance of applications can be determined and defined so that, during a crisis, critical infrastructure traffic is prioritized properly. Any remaining traffic could be queued based upon real-time needs such as video, voice, and high priority. We are presently looking at six different priority categories within this QoS model ranging from “first responder real time” down to “best effort” traffic.

**ILLINOIS CENTURY NETWORK**

Policy Committee Meeting Schedule

**Submitted for:** Action

**Summary:** This item seeks to review the meeting schedule for the new year

**Action Requested:** The ICN Policy Committee adopts the calendar year 2009 meeting schedule as presented.

## **ILLINOIS CENTURY NETWORK**

### **POLICY COMMITTEE MEETING SCHEUDLE**

The schedule is based on four meetings per year, occurring on the third Monday of the months of January, April, July and October. If the Monday happens to be a holiday, the meeting will occur on Tuesday. Based on this formula, the schedule for 2009 is as follows:

Monday, January 26, 2009

Monday, April 20, 2009

Monday, July 20, 2009

Monday, October 26, 2009

All meetings will be held in the conference room of the Illinois Community College Board office at 401 East Capitol Avenue, Springfield, IL and at the James R. Thompson Center in Chicago. A conference bridge is also available for those members unable to attend at either location.