

KENTUCKY EDUCATION NETWORK

Project Plan

6/19/2005
Version 8.0

Prepared For:

**Education Cabinet
Council on Postsecondary Education
Kentucky Department of Education
Education Professional Standards Board**

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| Document Revision History | | | |
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| 2.0 | 9/12/06 | 1. Description | KAR |
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| | 1/4/07 | 5. Updated Application Subcommittee scheduled plan. | KAR |
| | 1/16/07 | 6. Added Risks section | KAR |
| | 1/17/07 | 7. Update Project Schedule | KAR |
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| | 5/7/07 | | KAR |
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Project Plan

1. Purpose

Vision

2005 - In direct support of Governor Fletcher's Educational Vision, the Education Cabinet seeks to continue to build on the successes and lessons of the first 14 years of KERA, seven years of postsecondary reform and the research and technology improvements during that time by implementing a seamless education-centric network that equitably supports lifelong learning for all Kentuckians.

November 2007, Steve Beshear was elected Governor of Kentucky. Governor Beshear's vision is to make Kentucky "America's Next Frontier" of imaginative solutions, new technology and new industries, protecting our environment, creating opportunities, attracting entrepreneurs, tourists, retirees, and keeping our own graduates right here at home.¹ The Kentucky Education Network lays a foundation for Governor Beshear's desire to create opportunities and to retain graduates in Kentucky.

"The people of Kentucky must have a world-class public school system in order to succeed in this competitive world . . . "Governor Beshear said.²

Key features of KEN include:

- Equity in terms of cost, geographic availability, access, and support for all learning styles
- Immediate availability
- Support of audio and video-intense learning and research opportunities
- Scalable and adaptable network design that easily supports future growth
- 24 x 7 network availability and support

This proposal will create the Kentucky Education Network (KEN), a high-speed education-centric telecommunications network. The purpose of KEN is to facilitate the development, deployment, and operation of a set of seamless P-20 applications. It will support advanced research and education applications in order to further Kentucky's educational agenda. It will connect every college, university, and K-12 school district in the state to enhance the learning experience of students' at all educational levels, regardless of geographic location.

Plans for future growth of the network include the agencies of the Education Cabinet and their statewide locations. This includes Kentucky Educational Television (KET), the Department of Workforce Investment, Kentucky Adult Education, the Department for Libraries and Archives, the Commission on the Deaf and Hard of Hearing, the Kentucky Environmental Education Council, the Center for School Safety, and the Kentucky Higher Education Assistance Authority.

¹ Governor Beshear's December 11, 2007 Inaugural Address, Frankfort, KY

² <http://www.stevebeshear.com/campaign/node/416>

2. Project Summary Description

A seamless P-20 educational network is a requisite foundation for many of the innovative initiatives envisioned by Governor Fletcher, Secretary Virginia Fox, Commissioner Gene Wilhoit, President Tom Layzell, Phil Rogers and other educational leaders in Kentucky. Secretary Fox retired effective August 31, 2006. Laura Owens has been appointed the Secretary of Education and will therefore assume the leadership role on this project.

December 2007 Helen Mountjoy was appointed as Secretary of the Education Cabinet. Secretary Mountjoy will assume the leadership role on this project in accordance with HB 380.

Kevin Noland assumed the position of Acting Commissioner of the Kentucky Department of Education effective November 1, 2006. Commissioner Noland will therefore assume the appointment on the KEN Executive Committee left vacant by Commissioner Wilhoit.

November 2007, Jon Draud was hired as the new Commissioner for the Department of Education. Commissioner Draud will assume the appointment on the KEN Executive Committee per HB 380.

December 2007 Jonathan Miller was appointed as Secretary of the Finance and Administration Cabinet. Secretary Miller will assume the role for the Finance Cabinet on the KEN Executive Committee per HB 380.

- Maximize student achievement and college readiness of all students.

The Commonwealth must take advantage of every opportunity to provide and support expanded learning opportunities for all participants in the P-20 educational environment. As more focus is placed on the successful transition of students from the high school to post secondary environment, systems must be positioned to support students that simultaneously participate in multiple educational levels. More and more students are simultaneously enrolled in high school and post secondary institutions (University and community and technical colleges). Information about their enrollment, status and progress must be simultaneously available to all parties. Pertinent student data must be moved between organizations on both a scheduled and ad hoc basis.

The power and functionality provided by Internet 2 offers a wealth of learning opportunities for P-12 students. The Kentucky Board of Education is currently considering enhancements to graduation requirements in several content areas including science. There is a potential requirement for applied learning and lab-based science experiences which could be enhanced with the rich educational features Internet 2.

Educators must also be able to operate in multiple environments simultaneously. Systematic and embedded professional development for P-12 educators will occur throughout the year. Some of the PD will be provided by Higher Education instructors, other PD will be provided by peers within or outside of the local district. These adult learning experiences must be recognized in P-12 management systems as well as those of the affected Higher Education institution and the Education Professional Standards Board. PD will no longer be relegated to a two or three week course each summer. Higher Education instructors must be able to assist

local educators in reviewing the educational requirements of their students and creating need-specific professional development.

- Acquire data communications capabilities.

The actual capacity required will vary based upon the number of students within each district and the sophistication of the use of instructional technology within each district. For planning purposes, approximately 40% of the P-12 districts are estimated to require large network capacity (100 Mbps) with the remainder of the districts placing medium demands on the network (10 Mbps). 122 Education Cabinet sites are estimated to need medium network capacity (10 Mbps). Upgrades for postsecondary locations from their current bandwidth to the next level (10 Mbps, 45 Mbps, 100 Mbps, 1 GB) will be provided.

During fiscal year 2006-07, approximately half of the P-12 education districts will be upgraded. During fiscal year 2007-08, the remainder of the K-12 education districts will be upgraded as will as some postsecondary sites and other Education Cabinet locations.

Next steps:

The next steps for KEN include requesting funding to provide the ability to connect 12 public libraries as part of the pilot for connecting all 186 public libraries physical locations to KEN. Funding will also provide the ability to connect an additional 22 DWI sites to KEN

As KEN builds the P-20 seamless network, Internet2 applications become the showcase for bringing K-12 and postsecondary education institutions together to collaborate, to use and create content, and to make the world as the classroom in teaching and learning. Internet2 is in the process of completing its migration from the Abilene backbone to the NewNet, a new high bandwidth and high performance network that is 10 times faster than Abilene. In April 2007, University of Louisville officially became one of the 26 Internet2 Network Optical Switching Nodes in the U. S. As we move forward with the first phase of the KY Regional Optical Network, the additional funding will be used for the K-12 network peering expenses.

Add on-line assessments of all types – formative, diagnostic, summative, and end of course -- in support of the Governor's and the Kentucky Board of Education's requirements for early and continuous diagnosis, intervention and accountability with a heavy focus in the content areas of math and reading but also including technology and science.

3. Systems Involved

To be determined by the KEN Application Subcommittee and the KEN Network Subcommittee.

4. Impact on Other Systems

To be determined by the KEN Application Subcommittee and the KEN Network Subcommittee.

5. Risks

Identification and analysis of project risks are required for effective risk management. Project risk management is not limited to the identification and aggregation of risks, and

it cannot be repeated too often that the point of risk assessment is to be better able to mitigate and manage the project risks. Inadequate or untimely characterization of risks has a number of consequences, all of them detrimental to the project:

- Performance, scope, quality, or technological risks.

These include the risks that the project when complete fails to perform as intended or fails to meet the mission or business requirements that generated the justification for the project. Performance risks can also lead to schedule and cost risks if technological problems increase the duration and cost of the project.

- Environment, safety, and health risks.

These include the risks that the project may have a detrimental effect on the environment or that hidden hazards may be uncovered during project execution. Serious incidents can have a severe impact on schedule and costs.

- Schedule risk.

This is the risk that the project takes longer than scheduled. Schedule risk may also lead to cost risks, as longer projects always cost more, and to performance risk, if the project is completed too late to perform its intended mission fully. Even if cost increases are not severe, delays in project completion reduce the value of the project to the owner.

- Cost risk.

This is the risk that the project costs more than budgeted. Cost risk may lead to performance risk if cost overruns lead to reductions in scope or quality to try to stay within the baseline budget. Cost risk may also lead to schedule risk if the schedule is extended because not enough funds are available to accomplish the project on time.

- Loss of support.

Loss of public or stakeholder support for the project's goals and objectives may ultimately lead to a reduction of scope and to funding cuts, and thus contribute to poor project performance.

Although the above types of risks may be encountered in an almost infinite variety of forms and intensity, it is most useful to consider two varieties:

- Incremental risks.

These include risks that are not significant in themselves but that can accumulate to constitute a major risk. For example, a cost overrun in one subcontract may not in itself constitute a risk to the project budget, but if a number of subcontracts overrun due to random causes or a common cause affecting them all, then there may be a serious risk to the project budget. While individually such risks may not be serious, the problem lies in the combination of a number of them and in the lack of recognition that the cumulative effect is a significant project risk. An obvious example of an incremental risk in construction is weather-related delays, which are not usually major problems in themselves, but a long run of inclement weather that impedes progress on the project may create a serious challenge to the schedule and budget.

- Catastrophic risks.

These include risks that are individually major threats to the project performance, ES&H, cost, or schedule. Their likelihood can be very low but their impact can be very large. Examples of such risks are dependence on critical technologies that might or might not prove to work, scale-up of bench-level technologies to full-scale operations, discovery of waste products or contamination that are not expected or not adequately characterized, and dependence on single suppliers or sources of critical equipment.

The major steps in determining the appropriate risk management strategies include the following:

- Development of risk awareness,
- Project risk identification,
- Qualitative risk assessment

6. Special Considerations

The Education Cabinet will form a project steering committee, composed of senior executives from each agency. This will insure that the research and instruction applications unique to education remain the primary focus. The steering committee will drive the design and capabilities of the network. Once all the education partners are on a single network, we will explore additional enhancements to continually expand capacity to service emerging educational and research needs.

7. Pilot Installation

The pilot installation will be divided into four phases.

Phase 1: Rack Install

Phase 2: Bellsouth Circuit Install

Phase 3: Wan Link Install

Phase 4: DMZ Install

The link below will take you to a web based calendar that will be updated with the appropriate schedules for each of these phases by K-12 district.

http://www.my.calendars.net/ken_circuit_imp

Please see Appendix A for a list of potential pilot sites.

8. Contingency Plans

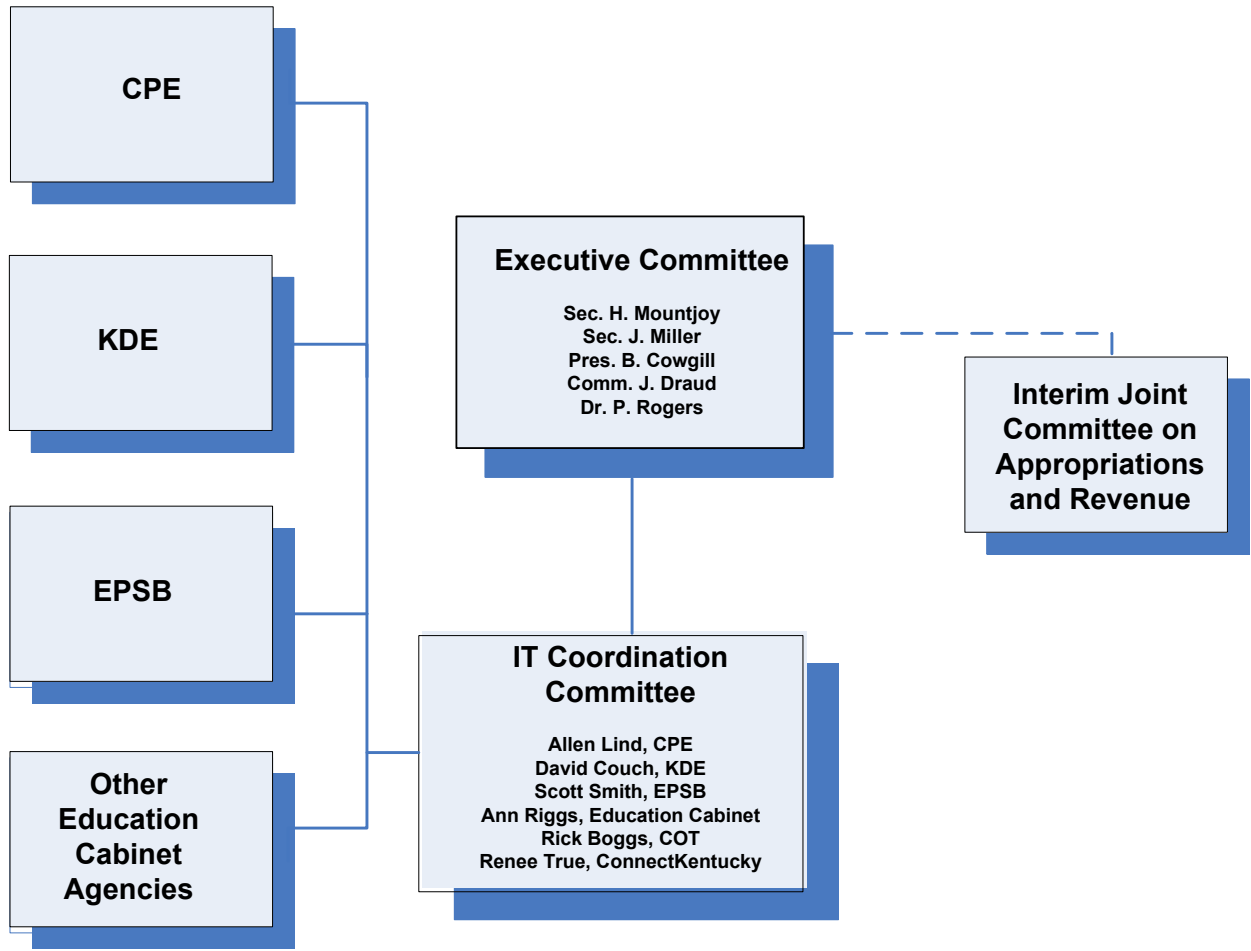
A contingency plan is not applicable to this project. If funding was not received, the school districts would continue to use KIH2 as it existed. School districts could look for and implement alternative solutions.

9. KEN Governance and Operating Structure

| Agency | Executive Leadership | IT Coordinating Committee | Program Manager |
|---|---------------------------------------|---|------------------------------|
| Education Cabinet | Helen Mountjoy Secretary | K. Ann Riggs, CIO & Director of Division of Technology Services | |
| Council on Postsecondary Education | Dr. Brad Cowgill Interim President | Allen Lind, VP of Information Technology & CEO of KYVU/KYVL | |
| KY Department of Education | Jon Draud Commissioner | David Couch Assoc. Commissioner Office of Education Technology | Terry Orr Project Manager |
| Education Professional Standards Board | Dr. Phil Rogers Executive Director | Scott Smith Information Technology Branch Manager | |
| Finance Cabinet | Jonathan Miller Secretary | Rick Boggs Deputy Commissioner Commonwealth Office of Technology | |

Kentucky Education Network

1/21/2008



Ken Subcommittees
1/21/2008

**IT Coordination
Committee**
Allen Lind, CPE
David Couch, KDE
Scott Smith, EPSB
Ann Riggs, Education Cabinet
Rick Boggs, COT
Renee True, ConnectKentucky

Network Subcommittee
Tim Sizemore
Chairperson

**Application
Subcommittee**
Miko Pattie
Chairperson

10. Primary Roles and Responsibilities

- **Executive Committee:**

House Bill 380 included funds for the Kentucky Education Network (KEN). As part of this initiative, HB380 contained language that requires the Secretary of the Education Cabinet, the Commissioner of the Department of Education, the President of the Council on Postsecondary Education, the Secretary of the Finance Cabinet, and the Executive Director of the Education Professional Standards Board to submit a coordinated implementation plan with timelines and regular progress reports to the Interim Joint Committee on Appropriations and Revenue.

- **Information Technology Coordination Committee:**

The Executive Committee has charged the Information Technology Committee (ITC) with coordinating and communicating all activities as it relates to this project. The committee is also charged with organizing two committees: the Network Subcommittee and the Application Subcommittee.

- **Network Subcommittee:**

KEN Network Subcommittee Charge:

- (i) Commence a high-level design. This is intended to resolve major issues such as the choice of WAN technology and equipment, the IP addressing plan, the degree to which routing is used instead of switching and so on.
- (ii) This high level design should then be compared to the constraints. If the constraints are not met an iterative step backwards is required. In the event of the constraints being met the design process can proceed.
- (iii) Determine the performance parameters that best specify each of the design goals. For example application response time, percentage packet loss, latency, and application availability. Identify any design constraints. The most obvious constraint is budget. Other constraints may include implementation timescale, support of legacy equipment, incorporation of specialized departments that require unique network specification and policy.
- (iv) After considering the constraints, set targets for the relevant network performance parameters.
- (v) A specific network design plan can now begin to be formulated. This addresses all technical details and alternatives for the design.
- (vi) Each major aspect of the technical solution should be lab tested. The application response and availability characteristics should be tested in a lab. This will facilitate an iterative refinement of the technical solution.

- (vii) The design is complete when the technical design is fully refined. In some cases the final lab tests may indicate that the fundamental performance targets or constraints are unrealistic and may have to be revised and compromised. It is however an aspiration to tentatively finalize these parameters at the high level design stage.
- (viii) Our objective is to solve a strategic network infrastructure design problem to determine:
- (ix) Number of nodes (usually computers or servers) and their processing speeds
 1. Set of links between nodes and their bandwidths
 2. Formulate and solve a mathematical program for the network infrastructure design problem by minimizing a cost function subject to satisfying quality of service (QoS) as well as robustness requirements.
 3. Simplification—A simple and sustainable network architecture is based on information needs rather than physical layout.
 4. Standardization—Centralized policy definition and management enables dynamic reconfiguration and consistent deployment throughout the enterprise.
 5. Modularity—Geographically distributed network; group together systems or applications
 6. Integration—environments for integration and easy addition of new applications, services, or devices.

- **Application Subcommittee:**

KEN Applications Subcommittee Charge:

- (x) To identify uses for existing and proposed information technologies that will use the Kentucky Education Network and the applications of these technologies to all learning opportunities within the Commonwealth.
- (xi) To assess and prioritize the existing use, need or desire for such applications in learning institutions, along with their supporting administrative systems.
- (xii) To recommend changes to infrastructure, policies or work processes that will facilitate the successful implementation of these applications.
- (xiii) To review the effectiveness of implemented applications in terms of student success, educational achievement and lifelong learning.

See Appendix B for scheduled events.

- **Program Manager:**

The Program Manager will be responsible for maintaining the vision of the KEN project. This individual will also be responsible for coordinating results of findings into a report to be submitted to the ITC Committee for review and presentation to the Executive Committee. The ITC will make a recommendation to the Executive Committee on when, and if, a program manager is needed.

- **Project Manager – KDE:**

The project manager acts as a leader and a process manager to for coordinating planning, preparing & implementation of KEN within the K-12 districts. As a leader, the project manager is responsible for managing and communicating a clear vision of the project's objectives, and motivating the project team to achieve them. As a process manager, the project manager must ensure the appropriate timing, resources, and sequencing of work efforts are applied to create the project deliverables within a given time frame and budget.

Project objectives are rarely static. Over the life of the project, objectives and deliverables may change as new information is gathered by the project team and evaluated by the project sponsor. The project manager must manage these inevitable changes with a well defined scope management plan, provide continuous leadership for the development team, manage the project sponsor relationship effectively, and create a project environment that allows all participants to maintain peak performance.

The work required to manage a work effort is grouped into the following interrelated processes:

- Structure the Project
- Plan the Project
- Assess Change
- Manage Budget
- Control the Project
- Report Project Status
- Conclude the Project

11. Implementation Schedule and Check List

Expand the checklist in the following table to include all activities required by project team members to move this project to production.

| Activity | Planned Start Date | Planned Finish Date | Person Responsible | Status |
|--|--------------------|---------------------|---|-------------|
| Charter Project | 6/19/05 | 9/30/06 | Information Technology Committee | Completed |
| Assemble Network Subcommittee | 6/28/06 | 7/5/06 | Tim Sizemore Chairperson | Completed |
| Assemble Application Subcommittee | 6/28/06 | 7/26/06 | Miko Pattie Chairperson | Completed |
| KEN Web Site: http://www.ken.ky.gov | 6/19/06 | 9/20/06 | Information Technology Committee | Completed |
| Review Business Requirements | 6/19/06 | 10/31/06 | Network Subcommittee/Application Subcommittee | Completed |
| Develop Communication Plan | 6/19/06 | 6/28/06 | Information Technology Committee | Completed |
| Procurement Requirements | 8/31/06 | 9/15/06 | Finance/COT | Completed |
| Assemble Advisory Council | 6/19/06 | 6/28/06 | KDE | Completed |
| Draft Design | 6/28/06 | 10/31/06 | Network Subcommittee | Completed |
| K-12 District Check List | 6/19/06 | 9/15/06 | KDE | Completed |
| Pilots Identified | 6/28/06 | 10/31/06 | Network Subcommittee/Application Subcommittee | Completed |
| Finance Approval for Pilots | 10/17/06 | 10/17/06 | IT Coordinating Committee | Completed |
| Final Design | 10/31/06 | 12/31/06 | Network Subcommittee/Application Subcommittee | Completed |
| Begin Pilot | 1/31/07 | 2/28/07 | Network Subcommittee | Completed |
| Final Implementation Plan for K-12 Districts | 6/28/06 | 5/31/07 | Network Subcommittee | Completed |
| Peering of KEN & KPEN networks | 5/6/07 | 6/29/07 | Network Subcommittee | Completed |
| Completion of 92 K-12 Districts | 7/1/06 | 6/30/07 | KDE | Completed |
| Finance Approval for remaining KEN Sites. | 7/1/07 | 7/19/07 | IT Coordinating Committee | Completed |
| WFI Site Implementation Plan | 7/1/07 | 6/30/07 | Network Subcommittee | Completed |
| Completion of 174 K-12 Districts | 7/1/07 | 12/21/07 | | Completed |
| Completion of 26 WFI Sites | 7/1/07 | 6/30/08 | Network Subcommittee | In Progress |

| | | | | |
|--------------------------|---------|----------------------|---|----------------|
| Celebration | 3/1/07 | 10/30/07 | IT Coordinating Committee/Cabinet Communications Office | Completed |
| Professional Development | 1/19/07 | TBD | Application Subcommittee | In Progress |
| Measure Success | 6/30/07 | 6/30/07 & 6/30/08 | IT Coordinating Committee | In Progress |
| Full Production | | 6/30/08 | | |

12. Budget Information

KENTUCKY EDUCATION NETWORK ROLL-OUT FUNDING PLAN

KENTUCKY EDUCATION NETWORK OPERATING BUDGET

| YEAR 1 PLAN ROLL OUT OPTION | | | | Estimated Amt |
|-----------------------------|----|----------------|----|---------------------|
| HB380 FUNDING | | | | \$ 5,300,000 |
| K-12 | 92 | district sites | \$ | 5,300,000 |
| Total | | | | \$ 5,300,000 |
| Balance Year 1 | | | | \$ - |

| YEAR 2 PLAN ROLL OUT OPTION | | | | Estimated Exp |
|-----------------------------|----------|----------------|----|----------------------|
| HB380 FUNDING | | | | \$ 15,300,000 |
| K-12 | 178 | district sites | \$ | 12,794,688 |
| CPE | col/univ | | \$ | 1,052,371 |
| ATC | 55 | (1) | \$ | 200,000 |
| KAE | 5 | (2) | \$ | 231,840 |
| DWI | 26 | sites | \$ | 1,021,101 |
| Total | | | | \$ 15,300,000 |
| Balance Year 2 | | | | \$ - |

(1) 55 Area Technology Centers statewide, most are located within LSD, cost to provide hook up between ATC and District

(2) All adult education ctrs scheduled to have broadband, sites above are those not collocated at site w/ existing broadband

KEN CAPITAL BUDGET

| PLAN ROLL-OUT OPTION | | Estimated Amt |
|--------------------------|--|---------------------|
| HB380 FUNDING (biennium) | | \$ 8,900,000 |
| K-12 | | \$ 5,300,000 |
| CPE | | \$ 2,240,000 |
| EPSB | | \$ 112,500 |
| DWI/OTHER | | \$ 1,247,500 |
| Total | | \$ 8,900,000 |
| Biennium balance | | \$ - |

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13. APPENDIX A

K-12 Pilot Sites

| Reg # | District Name | Node site Location | Address | City, St, Zip | Speed (Mbps) | ATC | County |
|-------|-----------------------|----------------------------------|------------------------|--------------------------|--------------|------------------|-------------|
| 1 | Christian Co. | Christian Co. Board | 200 Glass St. | Hopkinsville, Ky 42240 | 100 | | |
| 1 | Marshall Co. | Marshall Co. High | 416 High school Rd. | Benton, Ky 42025 | 100 | | |
| 1 | Paducah Ind. | Paducah Ind. Board | 800 Caldwell St. | Paducah, Ky 42003 | 100 | Paducah ATC | |
| 2 | Bowling Green Ind. | 11th Street Alt School | 877 E. 11th Street | Bowling Green, Ky 42101 | 100 | Warren Co ATC | |
| 2 | Daviess Co. | Daviess Co Maint Dept | 1621 Southtown Blvd | Owensboro, Ky 42301 | 100 | | |
| 2 | Ohio Co. | Ohio Co. High school | 1400 S Main St. | Hartford, Ky 42347 | 100 | Ohio Co ATC | |
| 2 | Owensboro Ind. | Owensboro Board | 1335 W 11th St. | Owensboro, Ky 42302 | 100 | | |
| 2 | Warren Co. | Warren Co Tech ctr | 877 Jackson St. | Bowling Green, Ky | 100 | Warren Co ATC | |
| 4 | Bullitt Co. | Bullitt Co. Board | 1040 Hwy 44 E. | Shepherdsville, Ky 40165 | 100 | Bullitt Co ATC | |
| 4 | Dayton Ind. | Dayton High school | 200 Green Devil Ln. | Dayton, Ky 41074 | 10 | | |
| 4 | Erlanger-Elsmere Ind. | Erlanger-Elmereg Board | 500 Graves Ave | Erlanger, Ky 42220 | 10 | JD Patton | Kenton Co |
| 4 | Ft. Thomas Ind. | Ft. Thomas Board | 28 N Ft. Thomaas Ave. | Ft. Thomas, Ky 41075 | 100 | CE McCormick ATC | Campbell Co |
| 4 | Owen Co | Morris Bowling Middle School | 1640 HWY 22 Easy | Owenton, KY 40359 | 10 | | |
| 4 | Pendleton Co. | Pendleton Co. High school | 2359 Hwy. 27N | Falmouth, Ky 41040 | 100 | | |
| 5 | Clark Co. | Clark High school | 620 Boone Ave. | Winchester, Ky 40391 | 100 | Clark Co ATC | |
| 5 | Fayette Co. | Fayette Co. Board | 701 E Main St. | Lexington, Ky 40502 | 100 | | |
| 5 | Jessamine Co. | E. Jessamine Middle school | 881 Wilmore Rd. | Nicholasville, Ky 40356 | 100 | | |
| 5 | Scott Co. | Scott Co. Board | 2168 Frankfort Pk. | Georgetown, Ky 40324 | 100 | | |
| 6 | Laurel Co. | Laurel Co. GC Garland Admin BLDG | 710 N Main St. | London, Ky 40741 | 100 | | |
| 6 | Madison Co. | Madison Co. Technology Office | 702 North Second St | Richmond, Ky 40475 | 100 | Madison Co ATC | |
| 6 | Taylor Co. | Taylor Co. High school | 300 Ingram Ave. | Campbellsville, Ky 42718 | 10 | | |
| 6 | Whitley Co. | Whitley Co. Board | 300 Main St | Williamsburg, Ky 40769 | 100 | | |
| 7 | Ashland ind. | Ashland Ind. Board | 1420 Central Ave. | Ashland, Ky 41101 | 100 | | |
| 7 | Carter Co. | Carter Co. Board | 228 S Carol Malone | Grayson, Ky 41143 | 100 | | |
| 7 | Mason Co. | Mason Co. High school | 1320 US Hwy 68 | Maysville, Ky 41056 | 100 | Mason Co ATC | |
| 7 | Morgan Co. | Morgan County Board | 460 Prestonsburg, St. | West Liberty, Ky 41472 | 10 | Morgan Co ATC | |
| 7 | Rowan Co. | Rowan Co. Board | 121 E 2nd St. | Morehead, Ky 40351 | 100 | | |
| 8 | Floyd Co. | Prestonsburg H.S | 825 Blackcat blvd | Prestonsburg, Ky | 100 | Floyd Co ATC | |
| 8 | Lee Co. | Lee Co. Board Office | 242 Lee Ave. | Beattyville, Ky 41311 | 10 | Lee Co ATC | |
| 8 | Letcher Co. | Letcher Co. Bus Garage | 752 Hazard Rd. Suite B | Whitesburg, Ky 41858 | 100 | Letcher Co ATC | |
| 8 | Magoffin Co. | Magoffin Co. District Office | 109 Gardner Tr. | Salyersville, KY 41465 | 10 | | |
| 8 | Pike Co. | Pike Co. Central HS | 1901 US Hwy 119 N. | Pikeville, Ky 41502 | 100 | Millard ATC | Pike Co |
| | KDE | COT | 101 Cold Harbor | Frankfort, KY 40601 | TBD | | |

14. APPENDIX B

**KEN Application Subcommittee
Business Process 2006-07**

| Task | Aug-06 | Sep-06 | Oct-06 | Nov-06 | Dec-06 | Jan-07 | Feb-07 | Mar-07 | Apr-07 | May-07 | Jun-07 | Jul-07 | Aug-07 | Sep-07 |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 1. Define Subcommittee charge | x | x | | | | | | | | | | | | |
| 2. Draft evaluation criteria for applications to be considered | | | x | x | | | | | | | | | | |
| 3. Test validity of evaluation criteria against draft applications matrix | | | x | x | | | | | | | | | | |
| 4. Finalize evaluation criteria | | | x | x | | | | | | | | | | |
| 5. Survey P21 education community on applications currently used/will need | | | | | x | x | | | | | | | | |
| 6. Compile comprehensive applications matrix based on survey responses | | | | | | x | | | | | | | | |
| 7. Survey P21 education community on prioritization of the comprehensive applications matrix | | | | | | | x | x | | | | | | |
| 8. Modify the comprehensive applications matrix based on priorities from survey responses | | | | | | | | x | | | | | | |
| 9. Evaluate applications using the established evaluation criteria | | | | | | | | x | | | | | | |
| 10. Finalize Subcommittee's applications matrix | | | | | | | | x | x | | | | | |
| 11. Select Phase 1 applications to be assessed | | | | | | | | | x | x | x | | | |
| 12. Assess Phase 1 applications as to costs, usage, enhancements & implementation | | | | | | | | | x | x | x | | | |
| 13. Make recommendations for 2008/2010 funding for implementation, enhancements & measurements | | | | | | | | | | x | x | | | |
| 14. Review progress using measurements as to cost savings, increased usage, teaching quality & learning outcome (Raising Mary) | | | | | | | | | | | | x | x | x |
| 15. Select Phase 2 applications to be assessed | | | | | | | | | | | | x | x | x |

15. APPENDIX C

DWI Sites

Phase Four October - December

| | District Name | Address | City, St, Zip | Site Survey Received | Negotiated Transport Due Date | Actual Transport Due Date | Negotiated NetVPN Due Date | Actual NetVPN Date | Negotiated LAN Conversion Date | LAN Conversion Time - EST | Actual LAN Conversion Date | 1FB # for Remote Access | Disconnect EBD of Old Service | Status | Carrier | PON | BICS Package Sent Date | Speed |
|----|---------------------------|---------------------------|--------------------------------|----------------------|-------------------------------|---------------------------|----------------------------|--------------------|--------------------------------|---------------------------|----------------------------|-------------------------|-------------------------------|---------------------------------------|------------|-------|------------------------|-------|
| 1 | Ashland OET | 1844 Carter Ave | Ashland, KY 41105 | 9/20/07 | 12/10/07 | | 12/14/07 | | 12/19/07 | 10:00 AM | | | | In progress | Windstream | 11443 | | 10 M |
| 2 | Morehead OET | 126 Bradley Ave | Morehead, KY 40351 | 9/20/07 | 12/10/07 | | 12/14/07 | | 12/19/07 | 2:00 PM | | | | In progress | Windstream | 11446 | | 10 M |
| 3 | Louisville One-Stop | 600 West Cedar St | Louisville, KY 40202 | 9/20/07 | 12/10/07 | | 12/14/07 | | 12/20/07 | 10:00 AM | | | | On schedule | AT&T | 11440 | no workness | 10 M |
| 4 | Hazard OET | 742 High St | Hazard, KY 41701 | 9/20/07 | 12/13/07 | | 12/18/07 | | 12/21/07 | 10:00 AM | | | | In progress | Windstream | 11445 | | 10 M |
| 5 | Florence One-Stop | 8020 Veterans Memorial Dr | Florence, KY 41042 | 9/20/07 | 12/18/07 | | 12/26/07 | | 12/28/07 | 10:00 AM | | | | In progress | CBT | 11453 | | 10M |
| 6 | Covington OET | 320 Garrard St | Covington, KY 41011 | 9/20/07 | 12/18/07 | | 12/26/07 | | 12/28/07 | 2:00 PM | | | | In progress | CBT | 11451 | | 10M |
| 7 | Lexington OET | 1055 Industry Rd | Lexington, KY 40505 | 9/20/07 | 12/19/07 | | 12/27/07 | | 1/2/08 | 10:00 AM | | | | In progress | Windstream | 11454 | | 10M |
| 8 | Somerset OET | 410 East Mount Vernon St | Somerset, KY 42502 | 9/20/07 | 12/21/07 | | 12/28/07 | | 1/3/08 | 10:00 AM | | | | In progress | Windstream | 11458 | | 10M |
| 9 | Charles W. McDowell Ctr | 8412 Westport Rd | Louisville, KY 40242 | 9/20/07 | 12/27/07 | | 1/2/08 | | 1/7/08 | 10:00 AM | | | | Job ECD 12/18 | AT&T | 11442 | 11/21/07 | 10 M |
| 10 | Glasgow OET | 445 North Green St | Glasgow, KY 42141 | 9/20/07 | 12/27/07 | | 1/3/08 | | 1/8/08 | 10:00 AM | | | | In progress | Windstream | 11460 | | 10 M |
| 11 | Bowling Green OET | 803 Chestnut St | Bowling Green, KY 42102 | 9/20/07 | 12/28/07 | | 1/3/08 | | 1/8/08 | 2:00 PM | | | | In progress | AT&T | 11459 | | 10 M |
| 12 | Owensboro One-Stop | 121 East Second St | Owensboro, KY 42303 | 9/20/07 | 1/2/08 | | 1/7/08 | | 1/10/08 | 10:00 AM | | | | In progress | AT&T | 11464 | 11/19/07 | 10 M |
| 13 | Louisville OET | 6201G Preston Hwy | Louisville, KY 40219 | 9/20/07 | 1/2/08 | | 1/7/08 | | 1/10/08 | 2:00 PM | | | | In progress, need 1500' of fiber | AT&T | 11439 | | 10 M |
| 14 | Prestonsburg OET | 686 North Lake Dr | Prestonsburg, KY 41653 | 9/20/07 | 1/4/08 | | 1/9/08 | | 1/14/08 | 10:00 AM | | | | | AT&T | 11448 | | 10 M |
| 15 | Pikeville One-Stop | 216 College St | Pikeville, KY 41501 | 9/20/07 | 1/4/08 | | 1/9/08 | | 1/14/08 | 2:00 PM | | | | | AT&T | 11447 | | 10 M |
| 16 | Richmond One-Stop | 595 S Keeneland Dr | Richmond, KY 40475 | 9/20/07 | 1/7/08 | | 1/10/08 | | 1/15/08 | 10:00 AM | | | | In progress, need 1500' of fiber | AT&T | 11457 | 11/20/07 | 10M |
| 17 | Elizabethtown One-Stop | 916 North Mulberry St | Elizabethtown, KY 42702 | 9/20/07 | 1/4/08 | | 1/10/08 | | 1/16/07 | 10:00 AM | | | | In progress | Windstream | 11439 | | 10 M |
| 18 | Harlan OET | 124 S Cumberland Ave | Harlan, KY 40831 | 9/20/07 | 1/8/08 | | 1/11/08 | | 1/16/08 | 2:00 PM | | | | In progress | AT&T | 11444 | | 10 M |
| 19 | Maysville OET | 201 Government St | Maysville, KY 41056 | 9/20/07 | 1/9/08 | | 1/14/08 | | 1/17/08 | 10:00 AM | | | | In progress, need 1000' of fiber | AT&T | 11456 | 11/20/07 | 10M |
| 20 | Henderson One-Stop | 212 North Water St | Henderson, KY 42420 | 9/20/07 | 1/10/08 | | 1/15/08 | | 1/18/08 | 10:00 AM | | | | In progress | AT&T | 11461 | | 10 M |
| 21 | Madisonville OET | 56 Federal St | Madisonville, KY 42431 | 9/20/07 | 1/10/08 | | 1/15/08 | | 1/18/08 | 2:00 PM | | | | In progress | AT&T | 11463 | 11/30/07 | 10 M |
| 22 | Paducah OET | 418 South Sixth St | Paducah, KY 42003 | 9/20/07 | 1/11/08 | | 1/16/08 | | 1/21/08 | 10:00 AM | | | | In progress | AT&T | 11465 | 12/3/07 | 10 M |
| 23 | Carl D. Perkins Rehab Ctr | 5659 Main St | Thelma, KY 41260 (Paintsville) | 9/20/07 | 1/28/08 | | 1/31/08 | | 2/5/08 | 10:00 AM | | | | In progress, cust placing conduit. | AT&T | 11449 | | 10 M |
| 24 | Corbin OET | 310 Roy Kidd Ave | Corbin, KY 40701 | 9/20/07 | 1/29/08 | | 2/4/08 | | 2/8/08 | 10:00 AM | | | | | AT&T | 11450 | | 10M |
| 25 | Danville OET | 121 East Broadway | Danville, KY 40422 | 9/20/07 | 1/30/08 | | 2/5/08 | | 2/11/08 | 10:00 AM | | | | In progress, need 1000' of fiber | AT&T | 11452 | 11/30/07 | 10M |
| 26 | Hopkinsville One-Stop | 110 Riverfront Dr | Hopkinsville, KY 42241 | 9/20/07 | 1/31/08 | | 2/6/08 | | 2/12/08 | 10:00 AM | | | | In progress, cust to provide conduit. | AT&T | 11462 | | 10 M |

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