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DEC 1 4 2010
Federal Communications Commission
Office of the Secretary

Pinconning Area School District

Pinconning Area School District
605 W. Fifth Street
Pinconning, MI 48650

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BEN: 131122 **FCCRN:** 0014390207

NSLP: 53% **E-Rate Discount:** 72%

EDU2011 Pilot Program **WC Docket No. 10-222**

TITLE: Applicant Wireless Program **DEADLINE: December 17, 2010**

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[illegible] RESOURCE INFORMATION FOR SCHOOLS

1) Location of school/district
   a) Pinconning Area School District: 605 W. Fifth Street, Pinconning, MI 48650
   b) Pinconning Area School District is an Urban school district for E-Rate funding and Rural Distant according to the National Center for Education Statistics (NCES).
2) The name of the school applicant, along with a complete list of the individual schools that will be served, including their billed entity numbers

PINCONNING AREA SCHOOL DISTRICT						
Building Name	Address	City	State	Zip	Grades	BEN
Linwood Elementary	517 Center Street	Linwood	MI	48634	KG-6	56171
Central Elementary	605 W. Fifth Street	Pinconning	MI	48650	PreK-6	56215
Pinconning Middle School	605 W. Fifth Street	Pinconning	MI	48650	7-8	56216
Pinconning High School	605 W. Fifth Street	Pinconning	MI	48650	9-12	56217

3) A description of the school district or school, including the type of school, such as private, public, charter, or other special type of school
   a) Type of school/definition of school
      i) Pinconning Area School District is a public school institution as determined under Michigan state law and comprised of three elementary schools, one middle school, one high school, and one advancement academy.
      ii) Pinconning Area School District serves 1,489 students in grades PreK-12.
      iii) Pinconning Area School District presently has 9 administrators, 83 teachers, 1 technical staff, and 60 other support staff.
4) a description of the AWP's curriculum objectives, the grade levels included, and the number of students and teachers involved and/or being served as part of the program
   a) The MLDs will be used with Pinconning Area School District's general and special education students. Initially, the district will pilot the devices in the 5th grade classroom(s) with planned expansion to 8th and 11th grade students in 2011.
   b) Summary description of the AWP's Curriculum Objectives by grade level:

GRADE LEVELS	CURRICULUM OBJECTIVE	# STUDENTS	# TEACHERS
5	Increase proficiency in Math, ELA, Science and Social Studies with the use of technology, including Mobile Learning Devices (MLD's).	120	4
8	Increase proficiency in Math, ELA, Science and Social Studies with the use of technology, including Mobile Learning Devices (MLD's).	150	8
11	Increase proficiency in Math, ELA, Science and Social Studies with the use of technology, including Mobile Learning Devices (MLD's).	150	12

c) Pinconning Area School District's curriculum objectives of the AWP; Exhibit A

d) The GoKnow Mobile Learning Environment (MLE) consists of three key elements for Pinconning Area School District's curriculum objectives:

i) The MLE, commonly called "My Projects", is the thin client application that runs resident on the MLDs and manages the learning environment and organizational structure for each lesson and each student for project-based learning.

ii) The Classroom Manager which is a hosted, web-based, application that allows teachers to synchronize lesson creation, management, and delivery with student MLDs.

iii) Applications used by teachers and students to animate, illustrate, and modify lessons or assignments. These applications augment common 3rd party applications such as word processors, spreadsheets, picture viewers, cameras, and other tools that can be used within the MLE.

iv) The MLDs will also include the following features: Learning Plans on Demand, Adaptive Learning, Predictive Assessments, 500 Lesson Plans – Drill down assessments, and more than 2000 Learning Activities to increase academic progress and student achievement.

5) A summary of any data collected by the school on AWP outcomes and achievement of AWP objectives

a) Data is collected and housed in our District Data Warehouse (Pinnacle); a system that allows users to compare multiple sets of data so that they may identify needed interventions, devise enhanced curriculums, and drive the academic achievement of all students. Other methods used to collect data and house in Pinnacle include but are not limited to:

(1) Local assessments including: AR Math, AR Reading, Star Math, Star Reading, Explore Test, PLAN Test, and locally developed tests.

(2) The GoSync and GoKnow Classroom Manager system allows teachers to easily collect and assess student created work, as well as send out applications, assignments, and feedback to the mobile devices. Without this piece, it would be almost impossible to manage a classroom of mobile devices and the work created on those mobile devices.

ii) Pinconning Area School District will also seek to monitor and collect some or all of the following data from this AWP pilot implementation:

(1) Quarterly, or more often, surveys with teachers to assess usage

(2) Usage of the devices including time spent using device versus other mediums

(3) Synchronization data by student and teacher

(4) Time on task with MLDs and mobile applications versus other mediums

(5) Relative performance, by grade-level, of students with MLDs versus those who may not be using the MLDs. This may or may not allow for a true control group depending on funding and other factors.

(6) End-of-course, standardized, or other test scores that might indicate progress over previous year(s) data

(7) Student surveys on the effectiveness of MLDs in their studies

iii) In addition, a more comprehensive look at the end of the AWP pilot program period, on the total cost of ownership of the MLDs that would include hard and soft costs, all support plans, overages (if any) on data plans, the actual usage of the data plans and data transfer totals by student, percentage participation by all teachers, and external costs that will have to be borne by parents or outside entities in order to pay for a full 1:1 implementation in the future.

REQUIRED INFORMATION TO ALL APPLICANTS

1) A full description of the current or planned Applicant Wireless Program (AWP), including but not limited to:
   a) The nature of the AWP, including the extent to which the use of connectivity is interactive and utilizes the Internet.
      i) Pinconning Area School District seeks to continue to offer and fund a comprehensive Mobile Learning Environment (MLE) for its students in grades 5, 8 and 11.
      ii) Pinconning Area School District has successfully piloted and used Mobile Learning Devices (MLD) with its students and teachers to achieve the following goals:
         (1) 1:1 availability of devices for each student versus shared devices that allow them access to all available school resources and applicable internet resources that relate to their curriculum.
         (2) 24 x 7 access to MLD's so that the learning environment is not "supplemental" but ongoing and allows students to use the internet and access to lessons both at school and at home; removing the "digital divide" barrier.
         (3) Provide filtered, CIPA compliant, always-on Internet access on either the school Wi-Fi network or via low-cost 3G/4G data plans that will be funded as part of this pilot.
         (4) Increase time on task for all students by allowing them to use devices that they are familiar with, enjoy using, and can interact with versus being forced to use pencil/pen and paper for all lessons.
         (5) Improve results on standardized test scores.
         (6) Allow students to interact with their teachers, through the mobile devices, by being able to retrieve or submit lessons; receive corrections or notes from the teachers, and do this inside or outside the classroom.
   b) How long the AWP has been in operation and the mobile wireless device(s) being used.
      i) Pinconning Area Public School District has already implemented a successful mobile learning program with plans to expand the program in 2011 and has an established relationship with Sprint Communications Co. L.P. (SPIN: 143005695) and GoKnow, Inc. to provide both on-premise and off-premise connectivity to students through the use of mobile learning devices (MLDs)
         (1) The AWP program start date was November 1, 2010 and the current length of operation is approximately (2) two months.
         (2) The utilization of the MLDs enables students to increase educational productivity with mobile access to the internet both in the classroom, at home and anywhere learning takes place.
      ii) Pinconning Area School District will use cellular telephones (data services only) and Netbooks along with a comprehensive mobile learning platform from GoKnow, Inc., existing curriculum and novel new lessons created for mobile use and combine Wi-Fi access with a 3G/4G data plan for students and teachers.
         (1) The mobile wireless devices (MLDs) currently used for the program with 5th grade students includes Touch Pro™ cellular telephones with data services only and the GoKnow mobile learning environment application. Some features include but are not limited to:
            (a) Mobile Internet features: surf and download at broadband speed with HSPA and Wi-Fi

(b) microSD™ slot for expandable storage

(c) 2.8-inch touch screen, with four times the resolution of most phones

(d) Five-row QWERTY keyboard for quick and easy text entry

(2) The MLDs planned for use by 8th and 11th grade students in 2011 are Dell Mini 10 12 Netbooks with an embedded Sprint broadband card and the GoKnow mobile learning environment application. Some features of the Netbooks include:

(a) Intel ATOM Processor N450 (1.66GHz)

(b) Operating System Genuine Windows 7 Starter – 32 bit

(c) 10.1" Wide screen Display (1024x600)

(d) 3.0 lbs. with 6 cell battery (2600mAh) supports up to nine hours depending on usage

(e) 1 GB Memory

(f) Hard Drive 250 GB

(g) Graphics Intel GMA 3150

(h) Wireless connectivity via Wireless 802.11b/g/n

c) A description of any technical issues associated with implementing the AWP, including an analysis of any problems with the availability of wireless access to students or patrons off the school or library premises and how those issues are being or will be addressed by the school or library.

i) Technical issues for the mobile learning <u>installation</u> primarily fall into three categories:

(1) The lack of ubiquitous Wi-Fi access and connectivity to all classrooms and the associated bandwidth that would be required to support all students and teachers sharing limited resources.

(a) The use of Wi-Fi to connect all students to the internet can work in many cases on campuses. The challenge has been with how to let students access research and study sites while not in their primary class, in study hall, in a library not attached to the school, or at their homes.

(b) This connectivity issue associated with implementing the AWP will be addressed by:

(i) Using 3G/4G cellular data connectivity to provide 24x7 external coverage

(ii) In-line filtering provided by the school for Wi-Fi access and proxy settings within the MLD to point all campus traffic through the school filter and connection

(iii) In-line network filtering provided by the mobile service provider (carrier) that is CIPA compliant and largely mirrors the school settings

(iv) Providing exception handling for education sites that have been blocked by the filters but are germane to specific lesson plans

(v) Using carrier support personnel to survey cellular access prior to deployment or selection in order to guarantee 100% coverage at the campus and off-campus.

(2) Appropriate routing and filtering of internet access requests from students.

(a) Although schools are required to filter access for students, not all carriers have supported filtered internet access through their networks. To address this issue, Pinconning Area School District will select and implement filtered internet access through a carrier 3G/4G network that:

(i) Will seek to cover elementary, middle, and school level filtering that is age appropriate

(ii) Force local internet traffic through a dedicated proxy and firewall-filter at the school or through a 3rd party.

(iii) Attempt to limit or control access to secondary SSIDs through the MLD where possible. This might include a roll-down list of authorized SSIDs.

(iv) Send all cellular data traffic through a dedicated filter at the carrier.

(v) Work with GoKnow and carrier partner to simplify exception processing of URLs that are unreasonably blocked by the filters. Teachers in other pilots have pointed to this as an issue that comes up frequently and can take a long time to resolve.

(vi) Implement a modified "acceptable" or "responsible" use policy that covers the use of MLDs at the school and is consistent with promoting trust, maximum availability of the device for students, and expanded learning opportunity outside of the school (Exhibits C & D).

(3) Support of off-campus use of MLDs by students and their parents.

(a) Students will, in many cases, take their devices home in order to increase their ability to conduct research, home work, projects, or other class work. The following issues and problems along with suggested solutions are noted as follows:

(i) Parents may object to the use of the MLD at home on the grounds that their children have access to games or other materials that do not relate to studies. It will be incumbent on the school to explain to parents the limited range of content that their children may access. GoKnow and the carrier partners will work with the school to filter access to content where possible.

(ii) Students may want to use their home Wi-Fi networks to access the Internet. This will be a rare occurrence but in these cases, the school will either have to allow the use of that network, with the parents' permission, or force the students to access an intermediate firewall or filter out on the public network. The initial configuration will be to only allow access to school, public libraries, or other SSIDs that are authorized.

(iii) Students may lose their portable device or they may break. In this case, the school and the carrier will work together to support a spares program that is acceptable to parents and allows for rapid replacement of units in order to keep learning environment active.

(iv) Teachers may need assistance finding suitable research sites for students to use while out of the school. GoKnow and Pinconning Area School District will work together to supply teachers and students with publicly available lists of sites that have mobile-ready lessons and labs and videos that relate to existing curriculum. All parties will work to ensure that these links are accessible and available through filters both on and off campus.

d) What training has been or will be provided to teachers, librarians, students or parents to implement the AWP?

i) Research has clearly shown that teachers have had difficulty making the leap to the use of new technologies and the simplicity of the GoKnow platform is clearly aimed at teachers, versus their students who rarely have issues with mobile phones, PCs, or web-based technology. Pinconning Area School District's plans for professional development is consistent with this research whereby;

(1) This pilot implementation follows "best practices" used by other districts in the United States that are currently using and piloting mobile programs and that will include involvement of all stakeholders in making the pilot a success.

(2) Teachers will be supplied with professional development that will not only train them on the specifics of the MLDs but also will bring actual lessons, lesson plans, and ideas for new customized lessons into their training session and implement these lessons using the MLDs.

(3) Students will be supplied with training on acceptable use policies as well as the specifics of caring for the MLDs and the appropriate educational uses on-premises and off-premises for completing assignments, accessing the Internet, and conducting research.

(4) Parents/guardians will be supplied with training on student acceptable use policies as well as the specifics of caring for the MLDs and the appropriate educational uses on-premises and off-premises by their child(ren).

ii) The following training sessions have already been provided:

(1) An initial (2) two day professional development training on the use of the GoKnow mobile learning environment occurred (1) one week before starting the program on November 1, 2010 where (3) three 5th grade teachers and (3) three 5th grade students participated in the training. These three students enabled the teaching staff to utilize them as mentors for the other (37) thirty-seven 5th grade students when the program initialized in the fall 2010.

(2) On November 8, 2010, parents/guardians and students participating in the program were provided a training session on students' appropriate use of the MLDs off-premises and the district's acceptable use policies, agreements and enforcements.

(3) Other state-wide professional development offerings including "The 21 Things"; an on-line interface for K-12 educators that are based on the National Technology Standards for Teachers (NET-T).[1]

iii) Additional training sessions scheduled for 2011:

(1) An additional webinar is set to be scheduled for early 2011 (late January) to provide an additional refresher for after the holiday break and to address any questions or issues that have developed after the initial few months of implementation.

(2) A (2) two day professional development training on the use of the GoKnow mobile learning environment is scheduled for January, 2011 where (3) three other 5th grade teachers and (3) three other 5th grade students will participate in the training and act as mentors for the other (77) seventy-seven 5th grade students when the program is expanded.

(3) Another training session for parents/guardians and students participating in the program will be provided on students' appropriate use of the MLDs both on-premises and off-premises, and the district's acceptable use policies, agreements and enforcements.

e) The extent to which the AWP is integrated with federal, Tribal, state, regional or local governmental or non-profit initiatives to achieve educational or community access outcomes

i) According to the FCC Sixth Report and Order, "Access to broadband at home or at anchor institutions is a critical component of enabling everyone in America to develop the digital skills they need to prosper in the 21st century". Consistent with this order, the FCC is

[1] The purpose of this course is to provide "Just in Time" training through an online interface for K-12 educators based on the National Educational Technology Standards for Teachers (NETS-T). Participants who fulfill all of the requirements have the opportunity to earn SBCEU's.

seeking proposals for a limited pilot program to establish "best practices" to support off-campus wireless connectivity for portable learning devices outside of regular school or library operating hours.

(1) The federal planned initiatives include a platform and devices that have been selected by the district and already in place with plans to immediately expand off-premises implementation upon receipt of appropriate supplemental E-Rate funding for the EDU2011 Pilot Program.

(2) This federal initiative is consistent with the federal Broadband Data Improvement Act wherein the definition includes: "A structured learning activity that utilizes technology with intranet/internet-based tools and resources as the delivery method for instruction, research, assessment, and communication" is vital for improving educational opportunities and a better quality of life for all Americans[2].

ii) The state planned initiatives include the MDE Educational Technology Plan 2010 Goal 1 Teaching For Learning whereby "Michigan students will have meaningful technology-enabled learning opportunities, including assistive technologies and virtual learning opportunities that develop proficiencies as defined by the Partnership for 21st Century Skills (http://www.21things4teachers.net/index.html), required to become lifelong learners, including ethical, safe, and discerning behavior while using information and media technology".

(1) Starting with the class of 2011, Michigan students will need to have an online learning experience in one of the following ways:

(a) Online course - A course delivered through an Intranet or Internet connection (inside or outside the school/county network)

(b) Online experience - A combination of structured, sustained, integrated, online experiences accessed via a telecommunications network utilizing teacher led, blended, teacher facilitated, or self paced courses

(c) Integrated experience - Integration of an online learning experience into each of the required credits of the Michigan Merit Curriculum (MME).

(2) These state planned initiatives include public funding through the Michigan Department of Education (MDE) and State of Michigan research grants that funded mobile learning studies in actual classrooms.

iii) The GoKnow platform non-profit initiatives were developed over the course of the past eight years using a combination of private and public funding. The output of these trails can be seen in the use of over 25,000 Mobile Learning Devices (MLDs) in the field that have used a combination of Palm™, WindowsMobile, XP(Netbooks), and Android smart-phone devices with the GoKnow mobile learning platform.

iv) MiCTA, a national non-profit group conducted E-Rate competitive bids for Priority 1 on-premises and off-premises Telecommunications and Internet Access as well as Priority 2 Internal Connections and Basic Maintenance of Internal Connections for its members on FCC Form 470 number 526520000796986 and FCC Form 470 number 638840000811798 (Exhibit B).

2) The poverty level based on the percentage of students eligible for a free or reduced price lunch under the national school lunch program (NSLP) or a federally approved alternative mechanism, and the current discount rate of the school or library

[2] The deployment and adoption of broadband technology has resulted in enhanced economic development and public safety for communities across the Nation, improved health care and educational opportunities, and a better quality of life for all Americans.

a) NSLP - The poverty level based on the percentage of students eligible for free or reduced price lunch under the NSLP is **53%**.

b) E-Rate Discount - As an Urban school district, the current discount rate based on the E-rate Matrix is **72%**.

3) The financial need of the school, including any additional budgetary hardships, notwithstanding the school or library's current discount rate

a) Due to an economic downturn in Michigan's economy and statewide budget cuts for schools, Pinconning Area School District's hardships include:

i) Increased need for student access to technology at school and at home.

ii) Declining student enrollment averaging (60) students per year over the last decade has forced cutbacks in district spending and building closures.

iii) Less funding for improving educational opportunities and experiences for students whose needs include access to computers and the Internet during school hours, at home, and anywhere learning takes place.

4) All costs, including those eligible for E-rate support and those not eligible for E-rate support, associated with implementing the AWP, including but not limited to costs for equipment such as e-readers or laptops, access and connection charges, teacher training, librarian training, or student/parent training

a) E-Rate "Eligible" Costs for the AWP, Grades 5, 8, and 11

	Internet Access Service	Wireless Access Service	Discount Amount	Non-discount Amount
On - Premises	$8,725.00	$151,200.00	$108,864.00	$42,336.00
Off - Premises	$0.00	$50,400.00	$36,288.00	$14,112.00
TOTALS	**$8,725.00**	**$201,600.00**	**$145,152.00**	**$56,448.00**

b) E-Rate "Ineligible" Costs for the AWP; Grades 5, 8, and 11

INELIGIBLE COSTS	
Equipment (Server)	$2,000.00
Equipment (MLDs)	$44,000.00
Software	$40,740.00
Staff Training	$15,000.00
Parent/Student Training	$2,500.00
Staffing Costs	$148,080.00
Monitoring Services (SOTI & Net Motion)	$69,300.00
Consulting Fees	$2,400.00
Non-Discount Amount (Eligible Costs)	$56,448.00
TOTAL	**$380,468.00**

5) The committed school resources available to implement the entire AWP, including whether those funds are from the school or library's general budget or from an outside funding source

a) Available resources for the AWP, Grades 5, 8, and 11

SOURCE	AMOUNT
General Fund	$234,928.00
Title I Fund	$14,400.00
Title IID Fund	$61,840.00
Grant Fund	$69,300.00
E-Rate (Discount Amount)	$145,152.00
GRAND TOTAL	**$525,620.00**

6) The effect EDU2011 support for off-premise connectivity is likely to have upon the school's projects

a) The GoKnow Mobile Learning Platform for Pinconning Area School District includes:

i) A comprehensive suite of tools that allow students and teachers to use mobile technology within their learning environment.

ii) Simple, user-friendly, interfaces and applications that provides a layer between the teacher or student and the actual operating system, workflow and files and applications that are needed.

iii) The platform does not impose new curriculum or any supplemental requirements on the teachers but seeks to allow them use existing texts, lessons, images, digital files, videos, or animations and quickly create, manage, and distribute those elements to the students via the GoKnow platform and across the mobile internet.

b) The likely effect on Pinconning Area School District's EDU2011 initiatives include but are not limited to:

i) Expanded access to technology including the Internet, increased exposure to 21st century technology skills and learning opportunities, and improved productivity, proficiency and standardized test scores for the students served.

ii) Adherence to both state and national educational technology standards for students, teachers and other stakeholders.

iii) Improved student proficiency and MEAP test scores in Math, Science, ELA and Social Studies.

iv) Promote and successfully deploy equitable teaching and learning opportunities consistent with the Broadband Data Improvement Act.

v) Compliance with NCLB wherein all schools will meet or exceed Adequate Yearly Progress (AYP) for the students served.

7) An analysis of the cost-effectiveness of the current or planned AWP as compared to the use of other types of technology that would also meet the AWP's objectives

a) Pinconning Area School District has chosen both Touch Pro cellular phones and Netbook mobile learning devices (MLDs) with built in wireless broadband cards as the most cost effective solution for meeting the AWP objectives.

i) Both types of MLDs serve as a one to one computing device for students while providing access to the Internet through either Wi-Fi or wireless broadband services.

ii) The selected solution also allows students access to technology and the Internet at school, home, or anytime, anywhere learning takes place.

iii) Selecting the Touch Pro cellular phone devices for the AWP program was the most cost effective solution because they provide both one to one computing as well as Internet Access for students served at a low cost to the district.

(1) Pro Touch cellular phones require Sprint Broadband Service at $31.00/mo for unlimited 3G/4G service *or*

(2) 3G service capped at 5GB/month for $26.00/month with $0.03 MB overage.

iv) Selecting the Notebook devices for expanding the AWP program is the most cost effective solution because they provide both one to one computing as well as Internet Access for students served at a low cost to the district.

(1) Net/Note Book requires Sprint Broadband Service at $31.00/mo for unlimited 3G/4G service *or*

(2) 3G service capped at 5GB/month for $26.00/month with $0.03 MB overage.

b) Competitive bid process through MiCTA; a Telecommunications Association for Nonprofit Organizations.

i) One purpose of MiCTA is to influence the development of voice, data and video services to members at reduced costs and improved quality and to participate in governmental and regulatory proceedings affecting technology issues.

ii) Pinconning Area School District purchased the wireless broadband service from the MiCTA National E-rate award which was competitively bid on FCC Form 470 number 526520000796986. (Exhibit B)

c) Alternate off-campus technology and Internet solutions were considered during the planning process and prior to making a decision about which type of technology to use for the AWP.

i) The alternate solution was to provide Internet access to each student's home within the Community through a local Internet service provider.

ii) The annual cost for these Internet services compared to the type of services selected is similar in cost; however, the total cost of ownership is much higher for the alternative solution because monitoring the student use as well as providing CIPA protection would require a tremendous amount of management time and increased costs.

iii) This solution also limited the students' Internet access to their homes and did not promote the anytime, anywhere goals of the program.

8) Any relevant technology planning documents and, *if applicable*, a statement of long-term objectives for the AWP

a) School Improvement Plan; enclosed with application

i) The MLDs will allow Pinconning Area School District to engage students with the use of technology to increase student learning as stated in our District School Improvement Plan.

(1) 1.1.2. Strategy: Integrating Technology in Reading Comprehension / Strategy Statement: Integrate Technology in reading instruction. Technology will be utilized to help students reading comprehension. Many forms of technology will be utilized including computers, reading programs, laptop computers, and audio assisting devices.

(2) 3.1.3. Strategy: Interactive Technology Writing / Strategy Statement: Various forms of technology will be utilized to assist with improving writing instruction and monitoring of students' progress. Technology to include Computers, various programs (Pearson Benchmark, Renaissance Learning), overhead projectors and interactive whiteboards.

b) Statement of long term objectives:

i) Internet access is a necessary and required element for successful use of mobile learning devices and Pinconning Area School District will augment Wi-Fi access currently available only on the campus with secure internet access through a 3G plan. Additionally, some areas and some campus locations may not have reliable Wi-Fi coverage available which points out the requirement for 3G/4G coverage to be available in those cases as well.

ii) The MLDs will allow Pinconning Area School District to individualize instruction for each student. The MLDs will also be used to encourage and promote "project based learning" where students work in teams to solve problems while using technology as the primary tool.

iii) The MLDs also include the ability for teachers to utilize software that allows them to access curriculum that will be used for developing individualized instruction for the unique learning needs of each student and to remediate or accelerate learning based on a preliminary assessment (pre-post test). In addition, this software allows the district to enhance the ability of the teacher to use formative assessment to direct future instruction.

iv) The platform and combination of devices that have been selected by Pinconning Area School District is currently being implemented and can be expanded immediately upon receipt of appropriate supplemental E-Rate funding.

9) A description of the specific measures taken, or that will be taken, to ensure compliance with the Children's Internet Protection Act and measures to protect against waste, fraud, and abuse

a) Description of CIPA compliance

i) Pinconning Area School District has and will continue to comply with the requirements of the Children's Internet Protection Act, as codified at 47 U.S.C. § 254(h) and (l).

(1) Internal policies and procedures are in place for acceptable use of the MLDs.

(2) With the use of Net Motion, all internet traffic is directed through the district's Local Area Network (LAN) which is secured through the use of R3000 by 8e6 web filtering software.

(3) Reasonable public notice was provided about Pinconning Area School District's Internet safety policies, including the technology protection measures.

(4) Parents, guardians, and other stakeholders have access to information about the acceptable use of the MLDs both on-premises and off-premises.

(5) In compliance with the Broadband Data Improvement Act of 2008, students are taught Internet safety including appropriate on-line behavior, interacting with other individuals on social networking websites and in chat rooms, and cyber-bullying awareness and response.

ii) SOTI MobiControl will be installed on every MLD which allows teachers and administrators to monitor content, Internet sites visited, downloads, and other management tools to prohibit unauthorized use.

(1) Each MLD is assigned to a specific student, checked periodically for inappropriate content, and collected for re-imaging during academic breaks/vacations.

(2) Staff will monitor acceptable use of each student's MLD to ensure appropriate use for educational purposes both on-premises and off-premises.

b) Protection against waste, fraud, and abuse

i) Pinconning Area School District will include all stakeholders to identify and use "best practices" when deploying the AWP pilot program.

ii) Each student will be assigned a specific MLD to be used solely by the student both on-premises and off-premises.

iii) Every MLD will be collected periodically to monitor and evaluate both on-premises and off- premises use by students.

iv) The most cost effective solution will be determined based on competitive bid responses in the future as well as available General Funds, Title I and Title IID Funds, grants, and E-Rate discounts.

v) Eligible E-Rate services for both on-premises and off-premises use will be submitted on separate Form 471s for funding year 2011.

vi) E-Rate ineligible product(s) and/or service(s) costs will be allocated out of the total cost of implementing the AWP prior to submittal to USAC for eligible reimbursements.

10) A description of internal policies and enforcement procedures governing acceptable use of the wireless devices used in the AWP off the school or library's premises

a) Acceptable Use Policies; Exhibit C

b) Acceptable Use Agreements / Enforcement, Exhibit D

Exhibit A: AWP CURRICULUM OBJECTIVES

Pinconning Area School District

The GoKnow Mobile Learning Platform

The GoKnow (GK) platform is a comprehensive suite of tools that allow students and teachers to use mobile technology within their learning environment. The GK platform was developed over the course of the past eight years using of combination of private and public funding. Public funding has largely been through DOE and state of Michigan research grants that funded mobile learning studies in actual classrooms. The output of these trails can be seen in the use of over 25,000 MLDs in the field that have used a combination of Palm™, WindowsMobile, XP(netbooks), and Android smart-phone devices with the GK mobile learning platform.

The GK platform uses simple, user-friendly, interfaces and applications and provides a layer between the teacher or student and the actual operating system, workflow and files and applications that are needed. Research has clearly shown that teachers have had difficulty making the leap to the use of new technologies and the simplicity of the GK platform is clearly aimed at teachers, versus their students who rarely have issues with mobile phones, PCs, or web-based technology.

The platform does not impose new curriculum or any supplemental requirements on the teachers but seeks to allow them use existing texts, lessons, images, digital files, videos, or animations and quickly create, manage, and distribute those elements to the students via the GK platform and across the mobile internet.

Mobile Learning Environment (MLE) - MyProjects

MyProjects serves as the "home base" for the student and organizes the learning activities available as part of the MLE. The intended usage pattern is that the student goes to MyProjects whenever they use the mobile device.

Main Features:

- Displays and links to available applications (such as GK apps, Word, Excel, PDF, internet, etc.)
- Provides teacher created assignment directions and resources
- Organizes and links to student work, regardless of file type
- All items can be filtered by class/subject matter/project unit

Devices: Windows Mobile 6.1 and 6.5, Windows XP/7, Android 2.2

GoSync and GK Classroom Manager

The GoSync and GK Classroom Manager system allows teachers to easily collect and assess student created work, as well as send out applications, assignments, and feedback to the mobile devices. Without this piece, it would be almost impossible to manage a classroom of mobile devices and the work created on those mobile devices.

Main Features:

- Backs up files and assignments on mobile devices
- Distributes files and assignments from teacher
- Installs/Uninstalls applications on mobile devices
- Allows viewing of files from mobile devices within web browser on desktop computer
- Controls user authorization and access issues

Devices: Windows Mobile 6.1 and 6.5, Windows XP/7, Android 2.2

Sketchy™

Sketchy is for creating frame-by-frame animations to express students' ideas through the combination of text and images. Frames are drawn on with an assortment of tools and when put together can explain a complex topic. Creating animations is exciting for students, as well as valuable for the learning process. Sketchy is designed to limit the drawing tools and color palette to strike a balance that allows creativity while still focusing students on the topic.

Main Features:

- Simple drawing tools including text tool
- Ability to work on a single frame and easily switch to or add additional frames
- Playback of frames to see animation
- Import of images found on mobile device

Devices: Windows Mobile 6.1 and 6.5, Windows XP/7, Android 2.2

PiCoMap™

PiCoMap is a concept-mapping product. Students use the product to build complex representations of data while researching a given topic. Concepts are placed in nodes with additional information in the notes and links are placed between nodes to show relationships between concepts. Concept maps have been used in schools for many years, and across all subjects, and PiCoMaps allows students or teachers the ability to create these maps easily.

Main Features:

- Clean, simple UI
- Create nodes and the links between them
- Move nodes around as needed

Devices: Windows Mobile 6.1 and 6.5, Windows XP/7, Android 2.2

GoKWL (Know, Wonder, Learn)

GoKWL follows the K-W-L instructional technique. Given a topic of study, students are first asked what they know about it. Then students, normally within a small group, come up with what they wonder about the topic. After learning about the topic (however the teacher decides to teach this), the students discuss what they learned. This teaching method aides student' brainstorming and research skills. Similar to PiCoMap, GK research early-on showed that this activity could be applied to almost any lesson or subject.

Main Features:

- Quickly allows students to chart each section
- Allows students to review each section as they work through a unit or project
- Teachers can use as a gauge of individual student understanding

Devices: Windows Mobile 6.1 and 6.5, Android 2.2

StopWatch

Helpful for science classes, StopWatch has a stopwatch with a lap feature and a countdown timer.

Main Features:

- Simple UI
- Counts up with laps and Countdown

Devices: Windows Mobile 6.1 and 6.5, Android 2.2 (3rd Party)

GoWeb

While web browsing is pretty standard on mobile devices, GoWeb provides a way for students to search for useful pages and save those resources within their projects for quick access. Teachers can send out specific sites (URLs) relating to a project as either a live link or a saved local copy – the latter being useful if the internet connection is not always available and in case the site content might change.

Main Features:

- Display saved web resources
- Allow live web browsing
- Save URL links or all needed files for local copy of web resources

Devices: Windows Mobile 6.1 and 6.5, Windows XP/7, Android 2.2

Word Processing, Spreadsheets, Pictures, PDF Files, Etc

While we do not currently create any software to handle this, the MLE is designed to work with 3rd party applications that can improve the mobile device experience. For XP and Windows Mobile deployments, Mobile Office supports compact versions of Word, Excel, and Powerpoint, for example.

GoKnow Installer

Takes the installation process of many applications and simplifies it to one program. This has been distributed on a SD Card or flash drive in the past and has now moved over to internet installation if required. The internet installation process would involve accessing the GK Classroom Manager site, downloading the GoSync installer, and retrieve the rest of the needed applications from the first sync. However, for schools trying to set up large numbers of mobile devices at one time the SD Card, or flash-installing multiple devices using a 3rd party, may still be the faster option.

Main Features:

- Allows user to choose from a list of applications to install
- Can also preset GoSync/GKCM settings

Devices: Windows Mobile 6.1 and 6.5, Windows XP/7

Exhibit B: MiCTA COMPETITIVE BID

MiCTA GPO GoKnow Pricing – Data Only – Voice plan is NOT required

SPRINT SOLUTIONS, INC., ("Sprint") provides MiCTA ("Customer") with a price quote for the services described in this document. This price quote is Sprint's confidential and proprietary information and Customer agrees not to disclose this price quote or its contents to any third party, except as may be permitted by a non-disclosure agreement between Customer and Sprint. This price quote will remain valid until its Expiration Date. The prices contained in this quote are subject to change in Sprint's sole discretion without notice. This price quote is not an agreement for services and Sprint is not obligated to accept orders for the described services until an agreement is executed between the parties. Sprint's provision of services will be subject to additional terms and conditions, including, but not limited to, applicable Sprint schedules and tariffs, Sprint standard credit application terms and conditions, Standard Terms and Conditions for Communications Services, and product specific annexes.

A. Approved Pricing and Terms
(Additional terms and conditions will apply):

SPRINT PRIMARY DATA PLAN (flat rate equipment)

Net MRC (Service Pricing Discount does not apply)	**$24**	**$26**	**$31**
Data Services in Megabytes ("MB"), Web and Data Access	10	50	Unlimited
Overage per Kilobyte	$0.0003	$0.0003	Not applicable

Note 1 – All pricing and available KBs are the same whether Corporate-Liable Active Units use the Sprint Power Vision (EVDO) network or the Sprint Vision (1xRTT) network. The Sprint Primary Data Plan may be used only for Sprint phones or PDAs. The Sprint Primary Data Plan may not be used for machine-to-machine transmissions. All data usage is used against this Business Plan, including, but not limited to, web-browsing, downloading, email, etc.

Note 2 – Additional charges apply for messaging service.

Note 3 – Phone as Modem may be added for an additional $15 MRC.

MUST BE ATTACHED TO MiCTA CORP ID

Public Non-Profit Education Corporate Liable GMCTA

Exhibit C: ACCEPTABLE USE POLICIES

PASD AUP July 6, 2006

ACCEPTABLE USE POLICY FOR ON-LINE MEDIA USAGE

STATEMENT OF GOALS AND OBJECTIVES

Internet access is available to all students and staff in the Pinconning Area School District (PASD). Our goal in providing this vast, diverse, and unique resource to both students and staff is to promote educational excellence by facilitating resource sharing, innovation and communication. Moreover, electronic information research skills are now fundamental to the preparation of informed citizens and future employees. This policy attempts to strike a balance among the educational resources of the Internet, the potentially illegal and offensive elements of the Internet, and the First and Fourth Amendment rights of students using the Internet.

Access to the Internet allows students to explore thousands of libraries, databases, bulletin boards and other resources while exchanging messages with people throughout the world Unfortunately, some of the Internet sites may contain information that is illegal, defamatory, inaccurate, abusive, sexually-oriented or otherwise offensive to some people. In addition certain goods and services can be purchased through the Internet for which a student's parent or guardian would be liable. The PASD expects the faculty will blend thoughtful use of the Internet throughout the curriculum and will provide guidance and instruction to students in its use, so as to minimize non-educational uses of the Internet. This will be accomplished by pointing students to those Internet sites that have been evaluated prior to student use. While students will be able to move beyond these sites to those which have not been previewed by the staff, the students will have been provided with guidelines and lists of resources suited to the PASD educational mission, goals and objectives This and enforcement of the attached "Rules of On-Line Network Etiquette" and "List of Prohibited Uses", will minimize inappropriate uses.

The smooth operation of the Internet relies upon the proper conduct of all end users that must adhere to certain guidelines to ensure efficient, ethical and legal utilization of the network resources. The PASD "Acceptable Use" policy incorporates these guidelines, and sets forth certain behavior which will result in the loss of use of network access privileges and possibly other disciplinary action at the building level. Law enforcement agencies may be involved when criminal conduct is suspected.

To remain eligible as users, students' use must be in support of and consistent with the educational objectives of the PASD. Use of the Internet is a privilege and not a right. Students utilizing Internet access through the PASD must have the permission of the PASD and be supervised by its professional staff. While on-line, students are to exhibit the behavior that is expected of them in the classroom or other area of the school. Even though the district has filters in place to limit questionable content, the responsibility remains with the student to follow the guidelines in this document. Additionally the PASD also provides parents and guardians with the option of requesting for their minor children activities not requiring Internet use.

Users of school-based computers should not expect that files stored on school-based computers will be private. Electronic messages and files will be treated like school lockers – administrator's and faculty retain the right to review messages and files to maintain system integrity and to insure that users are acting responsibly and abiding by this policy. Officials will also review messages and files when required to by law or to investigate complaints.

NOTICE: This policy and all its provisions are subordinate to local, state, and federal statutes. The District does not take responsibility for resources located or actions taken by the users that do not support the purposes of the School District. *It shall be the responsibility of all members of Pinconning Area Schools' staff to supervise and monitor usage of the online computer network and access to the Internet in accordance with this policy and the Children's Internet Protection Act.*

DISCLAIMER CONCERNING USE OF ON-LINE SERVICES

The PASD, its employees and agents, make no warranties of any kind, whether express or implied, concerning the online access it is providing. Furthermore, the PASD will not be responsible for:

1. Any damage suffered by a User, including but not limited to loss of data resulting from delays or interruptions in service, or computer "viruses";
2. The accuracy, nature, or quality of information stored on diskettes, hard drives, flash drives, or servers provided by the PASD;
3. The accuracy, nature or quality of information gathered through the on-line access provided by the PASD;
4. Personal property used to access computers, networks or the on-line access provided by the PASD;
5. Unauthorized financial obligation of a student, or his/her parent or guardian resulting from the on-line access provided by the PASD.

RULES OF ON-LINE NETWORK ETIQUETTE

1. Be polite. Do not get abusive in your messages to others.
2. Use suitable language. Do not use profanity, vulgarities, sexually-oriented or other inappropriate language.
3. Do not reveal your personal address, phone number, or any other personal information including that of anyone else.
4. Remember that electronic mail messages are not guaranteed to be private. Those who operate the various on-line services have access to all messages and can report to the authorities, messages which support illegal activities.
5. Do not use the network in a way that would disrupt the use of the network by others
6. Assume that all communications, programs and information which are accessible on-line are private property. As such, do not download any files without prior authorization from the creator of the file and the Technology Director.
7. Do not upload, download, or install any software without the approval of a teacher, administrator, or the Technology Director.

LIST OF PROHIBITED USES OF THE ON-LINE SERVICES

The following uses of any on-line services are prohibited by the PASD. Moreover, this prohibited activity may be illegal and subject the offending user to criminal prosecution.

1. Do not access, upload, download or distribute pornographic, obscene or sexually explicit materials.
2. Do not transmit pornographic, obscene, abusive or sexually explicit materials or "stalk" or harass others
3. Do not use the network to violate local, state or federal statutes.
4. Do not vandalize, damage or disable or "hack" the files of others. Creation of a "virus" is considered vandalism. Installation of unapproved software including spyware, browser toolbars, chat programs, etc. will also be considered vandalism.
5. Do not access the files, information or software of others.
6. Do not upload, download or otherwise use copyrighted material or other intellectual property of others without prior authorization. Copyright violations can result in fines or imprisonment.
7. Do not purchase or sell any goods or services through any online service without prior authorization of the Technology Director and/or Superintendent.
8. Do not connect or disconnect any device to a computer or the district network without prior approval of the Technology Director. In addition do not run any software from a connected device (i.e. USB flash drive) without prior approval of the Technology Director.
9. Do not use any means to circumvent the district content filter, group policy restrictions, or virus protection software.

Pinconning Area Schools

Mobile Learning Devices Acceptance Use Policy

Pinconning Area School district teachers are very excited about providing the opportunity for our students to participate in the Mobile Learning Technology Education Project. Upon teacher discretion, participating students will be loaned a **Mobile Learning Device** (MLD) for use at school, home or anywhere else the student may need it for learning.

Please understand that prior to taking the mobile learning device home, students will be instructed in and evaluated on proper use and care. In addition, students will be made aware that all aspects of the Pinconning Area School District Technology Acceptable Use Policy apply to the use and care of the (MLD).

Please review the following guidelines and conditions with your student and insure that he/she adheres to them.

1. The (MLD) is to be treated as a valuable object. It will not be thrown, purposely dropped, or hit. It will never be put on the sidewalk or street, or imperiled in any way that may cause it to be crushed or thrown to the ground. It will be kept away from water and other elements that may damage it.
2. The (MLD) will never be left unattended on the bus, in the cafeteria, in the gym or any other public place.
3. The (MLD) will not be used in near proximity of water, household chemicals, or other liquids that could damage it electronic components.
4. When carried outside it will be protected from the environment in such a way to prevent rain, snow, ice, excessive heat, and/or cold to damage it.
5. The (MLD) will only be used with a genuine stylus or keyboard. Pencils, erasers, pen tips, and other pointed objects will never be used in place of a stylus.
6. The (MLD) will be kept away from pets, younger, and older siblings at all times.
7. At the end of the time frame, parents and students agree to return the (MLD) and all components included to Pinconning Area Schools in the same conditions it was issued to the student.
8. Students will be required to sign out the (MLD) each time they take the device off campus. The serial number will be recorded and a list of all accessories will be recorded.
9. Students will be expected to only use appropriate and school related internet sites. All video, pictures, sound recordings must adhere to the student handbook. All (MLD) will be monitored for appropriate use.

Every student participating agrees to the above and to reimburse Pinconning Area Schools for the cost of repair or replacement for any damage or loss of any or all components issued to the student to neglect or failure to abide by the above guidelines and conditions. This includes AC adapter and the stylus. The costs incurred will not exceed the original cost of the device and its accessories. This liability shall not exceed $150.

Exhibit D: ACCEPTABLE USE AGREEMENTS / ENFORCEMENT

PASD AUP April 27th, 2009

ON-LINE NETWORK USER'S AGREEMENT

I have read and understand the attached DISCLAIMER CONCERNING USE OF ON-LINE SERVICES and hereby release the PASD and its employees and agents from any and all claims of any kind arising from the use, misuse, or inability to use the on-line services provided by the PASD. I have read and understand the RULES OF ONLINE NETWORK ETIQUETTE and the LIST OF PROHIBITED USES OF ON-LINE SERVICES and agree to abide by them. I understand that any violation of the above may constitute a criminal offense. I further understand and agree that if I violate any of the above, my access privileges may be revoked, and that school discipline and/or legal action may be taken.

User name (please print): _____

User signature: _____

Date:_____

PARENT OR GUARDIAN AGREEMENT

As the parent or guardian of this student, I have read the attached DISCLAIMER CONCERNING USE OF ON-LINE SERVICES and hereby release the PASD, and its employees and agents, from any and all claims of any kind arising from the use, misuse or inability to use, the on-line services provided by the PASD. I understand that the online services being offered are for educational purposes, but that students may have access to illegal, defamatory, inaccurate or offensive material. I have read and understand the attached RULES OF ON-LINE NETWORK ETIQUETTE and the LIST OF PROHIBITED USES OF ON-LINE SERVICES and acknowledge these as reasonable precautions to prevent student access to any illegal, defamatory, inaccurate or offensive material which may be available through the on-line services provided by the PASD. I will not hold the PASD responsible if this student gains access to any such materials or incurs any financial obligations which I have not authorized. Further, I accept full responsibility for supervision if and when this student uses any on-line services outside a school setting. I hereby give my permission to issue an account for this student, and certify that the information contained on this form is correct.

Parent or guardian's name (please print):_____

Signature:_____

Date:_____

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Pinconning Area Schools

Mobile Learning Devices Usage Agreement

Date_____

Student Name_____

Parent/Guardian Name_____

Address_____

City_____ Home Phone _____Cell Phone_____

Email Address_____

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Pinconning Area Schools will provide (MLD) to the selected classes. Upon teacher and parent discretion, the students will be allowed to keep the (MLD) with them at school and/or at home.

Parents/students agree to return the (MLD) to the teacher at the end of the designated time frame in the same condition it was issued to the student, less reasonable wear. Damage beyond normal wear or loss of the MLD while in the student' possession becomes the responsibility of the parents to pay for repairs or replacement.

Please become familiar with the Mobile Learning Device Acceptable Use Policy and sign below to state that you have read and agree to the terms of this contract.

Accept ☐ Decline ☐ Parent/Guardian_____Date_____
(signature)

Accept ☐ Decline ☐ Student _____Date_____
(signature)