**Florida Eligible Entities that have FLDOE
Approved Technology Plans**

**E-Rate Technology Plan
Addendum & Certification
For E-Rate Funding Purposes**
Funding Year 2010-2011

In an effort to address additional technology planning expectations of the Schools and Libraries Division (SLD) of The Universal Service Administrative Company (USAC) for the E-Rate program, the Florida Department of Education is providing this template to eligible entities. This plan addendum process is applicable to entities that submit their technology plans to the Office of Educational Technology for approval, in order to amend their current technology plans as necessary. The plan addendum is intended to address program expectations as follows:

An assessment of the telecommunication services, Internet access, and internal connections needed to improve education that are *requested on Form 470 and the Form 471 for E-Rate Funding Year 2010-2011 (i.e. the Form 470(s) reflects what is in your technology plan---Note: This includes the use of a state master contract's Form 470(s)* as well). **The following are needed also:**

- **Clear goals and a realistic strategy** for using the requested telecommunications and information technology to improve education or library services;
- **A professional development strategy** to ensure that staff know how to use these new technologies to improve education or library services;
- **A sufficient budget** to acquire and support the non-discounted elements of the plan: the hardware, software, professional development, and other services that will be needed to implement the strategy; THE BUDGET portion must CLEARLY state that your entity has estimated the amount of NON-DISCOUNTED portion of E-Rate and have the budget to meet that expense. In addition, if there are ancillary requirements to make the requested E-Rate services work e.g. computers, software, professional development, then that needs to be estimated. Your entities' budget needs to reflect the amount and that you can meet those requirements, and
- **An evaluation process** that enables the school or library to monitor progress toward the specific goals and make mid-course (i.e. mid-year), corrections in response to new developments and opportunities as they arise.

During the September 2004 Train-the-Trainer session held in Washington D.C., the Schools and Libraries Division (SLD) stated that they will be enforcing the original ruling that all applicants must have a technology plan written prior to filing a Form 470 for the upcoming funding year. The SLD also requires that the technology plan include all items/services that will be listed on the Form 470 except for basic phone services (wireline/wireless phone lines). **The E-Rate technology plan must be approved prior to the time services requested on the Form 470 begin (e.g. normally July 1 of the FY)**.

Entities are asked to submit the attached certification page discussing their application for E-Rate discounts for Funding Year 2010-2011. If an entity chose to apply for E-Rate discounts, they are requested to also submit the technology plan addendum section of this document. Note: If your district/school uses FIRN, a technology plan is necessary. The addendum requests the entity to list in detail the services that were sought on the Form 470(s) for Funding Year 2010-2011.

NOTE:

Request all entities (not libraries) complete & submit the Addendum Certification Page whether or not they submit the E-Rate Technology Plan Addendum. The Certification Page is next.

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E-Rate Technology Plan
Certifications & Addendum*
Funding Year 2010-2011

District/School Name:	School District of Clay County	Contact Name:	Tom Moore
Billed Entity #: *(As assigned by the Schools & Libraries Division)*	146121	Contact Title:	Chief Information Officer
Regional Educational Consortium: (If applicable)		Contact Phone:	904.284.6581
		Contact Email:	twmoore@mail.clay.k12.fl.us

Please read the following three main statements and one sub-choice & check box(s) as appropriate for your district: *Please note that all districts already have a Florida approved technology plan on file. The following statements are regarding adding an update or addendum to the original technology plan to comply with the SLD criteria that technology plans include all Form 470 items (except for basic phone service).* **Please check appropriate box(s).**

☐ Our district did not submit an E-Rate application for Funding Year 2010-2011, thus the E-Rate Technology Plan Addendum is not applicable.

☐ Our district is filing only for *basic telecommunication services* (basic local/long distance only, not including voice mail, Centrex, etc.) for Funding Year 2010-2011, thus the E-Rate Technology Plan Addendum is not applicable. (Note: If you use FIRN then you need a technology plan)

☒ Our district is filing for more than basic *telecommunication services* for Funding Year 2010-2011.
   ☒ An E-Rate Technology Plan Addendum has been completed and attached to this certification page.

Our district also certifies to the following conditions:

- all Form 470s and use of state master contract Form 470(s) submitted for Funding Year 2010-2011 are based on the district technology plan; and all Form 470 items (besides basic telecommunications) can be found in the technology plan and/or addendum; and

- although the basic structure of our technology plan has been approved, we understand that E-Rate rules require a level of consistency between technology plans and E-Rate funding requests that may not be subject to review under the Florida technology plan approval process. Therefore, we agree to be held responsible if our technology plan is found to be inconsistent with our Form 470s and/or 471s for Funding Year 2010-2011.

Superintendent/Responsible Person's Signature

Tom Moore
Print Name

Chief Information Officer
Title

E-RATE TECHNOLOGY BUDGET

E-Rate Year	2010
Name of Entity	School District of Clay County
FCC RN	

Service or Function	Category	Quantity/or Capacity	Total Pre-discount amount	Expected Discount Rate (%)	System or School Funding Source(s) for Amount Responsible	Total Funding Commitment Requested	Total Amount for System or School Responsibility
Internal Connections	Switches, Servers, Routers	9 Schools	$ 1,366,931.61	80%	Sales Tax	$1,093,545.29	$ 280,588.68
Basic Maintenance on Internal Connections			$			$	$
Internet Access	ISP	Entire District	$ 112,416.48	56%	Operating Expense	$ 62,953.23	$ 49,463.25
Telecommunications	LAN, WAN	Entire District	$ 983,922.60	56%	Operating Expense	$ 550.996.66	$ 432,925.94
Resources to Make Effective Use of Services					**System or School Funding Source(s)**		
Staff Development (Not E-Rate Eligible)			n/a	n/a		n/a	$
Hardware/Software (Not E-Rate Eligible)			n/a	n/a		n/a	$
Tech Support (Not E-Rate Eligible)			n/a	n/a		n/a	$
						Total	Total
						$ 1,707,495.18	$ 762,977.87

10. E-RATE PROGRAM PLANNING

10.1

Goals & Strategy

The District will provide Internet connectivity to all schools for distance learning opportunities, and provides sufficient bandwidth for this connectivity.

The District will investigate and implement appropriate technologies to provide for the updating and deployment of software applications. Due to the significant size of deployable software, high speed local network and wide area networks are required.

To promote communication and safety, telephone access will be available at all sites.

Strategies include:

- Continue to provide Internet service to all schools, district offices, and annex sites
- Increase Internet access capacity and create alternate paths to the Internet with load balancing
- Provide additional telephone connections as needed
- Provide cost effective enhanced communications for voice
- Increase bandwidth as needed
- Provide cost efficient mobile voice communications

10.2

Professional Development

The School District of Clay County provides a wide range of professional development activities to ensure that all staff and students know how to use the district's Internet connection. ~~Telephone etiquette and operating procedure classes are offered several times a year~~. The Professional Development Plan referenced in Section 8 details the technology training provided. Training is held throughout the year at all sites in the district. District Technology Integration Specialists and Curriculum Specialists are available upon request.

10.3

Assessment of Needs

The district continually needs to increase telecommunication services. All existing instructional areas have Internet connections and telephone access. We see an approximate 7% increase in needed services annually. As streaming video usage in the classroom increases it is possible that the need for additional internet bandwidth may increase exponentially.

During the summer of 2009 the district installed CISCO WAAS servers at the District Office and at all Secondary Schools. This installation has served to boost response time and reduce the demand for Internet capacity to the ISP.

Each of the following services may be applied for through E-rate:

10.3.1
Services – Telecommunications   470   One District Application

Following covered under State Contract – 470 issued by State
(AT&T)
Telecom and Centrex, and Long Distance Services for the Entire District
- Flat Rate business lines: 22 circuits
- T1 Point-to-Point Voice/Data: 2 existing lines
- Central office trunk line
- Centrex/Verizon phone lines, plus 500 lines
- 800 Service: 3 lines

(AT&T)
- Long distance service for district

(Nextel/Sprint)
- Cellular telephone service for district and schools.

10.3.2
Primary Rate Interface (PRI)   470   One District Application

(AT&T)
Telecom PRI Services for select locations
- PRI-ISDN T1's for Keystone Heights High, Middleburg High, Orange Park High, Fleming Island High, Clay High, Ridgeview High, Oak Leaf school(s), District Office plus 3 new circuits over the next 3 years.
- Total of 13 PRI Circuits

10.3.3
Metro-E High Speed Connection   470   One District Application

(AT&T)
High Speed Internet Connections
- 210 Mbps Fixed Mode data circuits to 312 school sites
- 20 100 Mbps Fixed Mode data circuits to 78 school sites
- 50 Mbps Network to Network Interconnect (NNI) for 3 schools near Keystone Heights
- 250 Mbps Fixed mode to 1 school site
- 250 500 Mbps Bburst modeable to 1 Gbps from at the district office to the Internet

10.3.4
High Speed Internet Connection   470   DOE (FIRN) Application

- ~~Vendor to be determined by bid.~~ This ~~may~~ application is necessary because the Florida Department of Education cut the funding at the state level and passed the cost on to the individual School Districts. SDCC will use the States ~~be a duplicated~~ 470 ~~since the State of Florida may not be funding t~~for the Internet connection through the Florida Internet Relay Network (FIRN).
- ~~DOE may not fund the Internet connections due to budget problems.~~ This action requires that SDCC make a 471 for Internet services that were previously provided by the State in 2009-10:
    - Internet connection from district office in graduated increments beginning at ~~45~~ 75 Mbps. For planning and budgeting the capacity should be planned for 300 Mbps. Reason for the increase:
        - Increase Internet based Assessment due to the Florida Assessment in Reading (FAIR).   Three times per year all students are tested online.
        - Increase use of FCAT testing online.
        - Increase in use of streaming Video due to Compass, Renaissance Place applications.
        - Probable use of eBooks at new high school
        - Future direction to allow students to bring their own laptops to school.
        - Increase in the number and bandwidth requirements of hosted Instructional applications.
            - Blackboard
            - Compass
            - Renaissance Place
    - Alternate, load balanced, Internet connection from ~~Rideout~~ an Elementary (distributed storage site) up to 45 Mbps. Sizing will be determined based on results. This circuit will not be eligible for ERate funds.
    - Content filtering to comply with CIPA. This may replace the present WebSense running on the district servers and controlled by the district.

10.3.4
Active Electronics Upgrade   470   Specific Schools

- Aging equipment should be replaced since it has been in place approximately 9 years and is not manageable with current tools. Additionally, the District is building new schools with Wireless LAN covering the schools and installing Cisco WAAS devices to make the best possible use of Internet bandwidth.

- A multi-year bid for Internal Connections is in place with Coleman Technology.
- Elementary Schoiols Active Electronics - 471
  - Scope involves the replacement of aging communications equipment, installation of Wireless LAN, and installation of Cisco WAAS at the following schools
  - Wilkinson Elementary School
  - Grove Park Elementary School
  - W.E. Cherry Elementary School
  - Charles E. Bennett Elementary School
  - S.B. Jennings Elementary School
  - Clay Hill Elementary School
  - McRae Elementary School
  - Middleburg Elementary
  - Keystone Heights Elementary
- Elementary WAAS Server – No 471 for this
  - Installation of servers should be installed due to the predicted increase in internet traffic anticipated with the addition of:
  - Florida DOE online testing
  - Streaming Video to the classroom
  - FCAT testing

10.3.5
Services – MTM Telecommunications   470   One District Application

(Nextel/Sprint)
- Cellular telephone service for district and schools.

10.4
Budget
The School District of Clay County provides a sufficient budget to acquire and support the non-discounted elements requested in the E-Rate application. Approximately $1.5 million dollars is allocated for telecommunications in the general budget. (*See attached Technology Funding sheet*)

10.5
Monitoring and Evaluation
Evaluation and monitoring of the effectiveness of telecommunications services is reviewed on a daily basisperiodically. Software is in place to evaluate bandwidth usage and communication access. Meetings are held at the District Office to discuss capacity issues. Meetings with the schools' technology contacts are held periodically to evaluate and analyze problems. A yearly evaluation determines what technology updates or needs have become prevalent for annual comprehensive planning. The allocation of district funds is driven by this procedure.

Network monitoring applications include:
- Graphic representations of the key network equipment (routers, servers, switches) that identify their status and error conditions. This is present in the Computer Operations Manager's office and visible throughout the day. Problems are identified as they occur by the Manager of Operations and the Help Desk Operator throughout the day.
- Network traffic graphs are updated every 5 minutes providing utilization and error tracking information for all wide area network circuits. This is reviewed weekly by the Manager of Operations and printed annually for storage in a notebook.

11. NCLB: ENHANCING EDUCATION THROUGH TECHNOLOGY (EETT)

Consolidated district application for federal projects, including Title II, Part D, will be submitted June 2009. A copy of the 2008 project is included as an addendum. This plan has been aligned with *Florida's Instructional Technology Goals.*

12. DISTRICT WIDE TECHNOLOGY STRATEGY

12.1
Disaster Recovery

Information Services engaged a third party to create a Business Impact Analysis (BIA). The BIA is a document created from analysis and interviews with stakeholders in the services provided by the Information Services Department. The analysis indicates that there are several applications requiring that they be restored within 24 to 72 hours of being lost.

In recent years, the instructional content supply chain has changed. In the past, textbooks were the primary source of content. In the classroom of today there are many applications and content sources requiring that there are significant communications available. This communication is either bandwidth to the Internet or to a district server. There is significant content being used in classrooms to aid in instruction.

The Florida Department of Education continues to pursue technologies that will decrease the DOE's expense of testing. In most cases this can only be accomplished through the use of district purchased resources.

There are significant changes that must be adopted in order to reduce cost, simplify network management, and provide for a manageable and testable Business Continuity Plan.