

SCHOOL DISTRICT OF CLAY COUNTY
DISTRICT TECHNOLOGY PLAN
ADDENDUM 4/21/2011
JULY 2010 - JUNE 2013

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 Strategy

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 new technologies to improve education and library services. 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

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

- 20 Mbps Fixed Mode data circuits to 31 school sites
- 100 Mbps Fixed Mode data circuits to 7 school sites
- 50 Mbps Network to Network Interconnect (NNI) for 3 schools near Keystone Heights
- 250 Mbps Fixed mode to 1 school site
- 500 Mbps Burst mode at the district office

10.3.4

High Speed Internet Connection

470 DOE (FIRN) Application

- This 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 470 for the Internet connection through the Florida Internet Relay Network (FIRN).
- 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 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 Internet based Assessment due to End of Course (EOC) testing
 - 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 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 BOSS was implemented school year 2010-2011 and is running on the district servers and controlled by the district.

10.3.5

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 Schools Active Electronics – 471 Average 80% Discount
 - Scope involves the replacement of aging communications equipment, installation of Wireless LAN, and installation of Cisco WAAS at the following schools:
 - ~~Willanson 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
- ~~Elementary Schools Active Electronics – 471 Average 90% Discount~~
 - ~~Scope involves the replacement of aging communications equipment, installation of Wireless LAN, and installation of Cisco WAAS at the following schools:~~
 1. ~~BLC Internal 11/12~~
 2. ~~CEB Internal 11/12~~
 3. ~~WES Internal 11/12~~
- ~~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~~

10.3.6 Elementary School EDU2011 Wireless Pilot Program 471 Average 80% Discount

- CHE was selected as one of twenty projects to support mobile access to the internet.
 1. EDU2011A is for Internal Connections to support the mobile access
 2. EDU2011B is for Internet Access

10.3.7 Services – MTM Telecommunications 470 One District Application
(Nextel/Sprint)

- Cellular telephone service for district and schools

10.3 ~~Budget~~ *(Beginning with FY2011, this element is not required – Budget resources)*

~~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)~~

10.4 Monitoring and Evaluation

Evaluation and monitoring of the effectiveness of telecommunications services is reviewed periodically. Software is in place to evaluate bandwidth usage and communication access. . 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.

E-Rate Technology Plan Addendum

Funding Year 2011-2012

Please enter appropriate and, concise responses necessary to fulfill the plan addendum guidelines as prescribed below (i.e., use only the amount of space needed for the services and/or items listed).
NOTE: The current technology plan may be cited by page and paragraph to prevent having to create new technology plan. The material provided must address each E-Rate plan criteria area discussed below. Complete and accurate responses will be needed to meet the intent of the E-Rate Plan Addendum.

<p><u>Telecom Services, Internet Access & Internal Connections</u></p> <p>All services listed on a Form 470 (to include services or items identified in conjunction with the state master contract) must be included in technology plan.</p> <p>Please list all items that you listed in your Form 470(s) that were used for the Form 471 submission process as of January 31, 2011. List like items or services only once but clearly delineate who is receiving the items or services. You may also list any future items or services that are part of technology planning that were not included in this E-Rate Funding Year's Form 470 [Process Year 14 (2011-2012)].</p>	<p><u>Goals & Strategies</u></p> <p>Clear goals and a realistic strategy for using the requested telecommunications and information technology to improve education or library services.</p> <p><u>An assessment of the telecommunications services, hardware, software, and other services that will be needed to improve education or library services.</u></p>	<p><u>Professional Development</u></p> <p>A professional development strategy to ensure that staffs know how to use these new technologies to improve education or library services.</p>	<p><u>Budget</u></p> <p>(Beginning with FY 2011, this element is not required.)</p>	<p><u>Monitoring & Evaluation</u></p> <p>An evaluation process that enables the school or library to monitor progress toward the identified goals and make mid-course (i.e. mid-year) corrections in response to new developments and opportunities as they arise. If the process described in your current technology plan is very general that description may not be sufficient to meet the expectations of the E-Rate program.</p>
--	---	---	--	---

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

**E-Rate Technology Plan
Addendum & Certification
For E-Rate Funding Purposes
*Funding Year 2011-2012***

In an effort to address additional technology planning expectations of the Schools and Libraries (SL) program (E-Rate) administered by The Universal Service Administrative Company (USAC), 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 Technology and Information Services – Education Data Center 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, internal connections, hardware, software, and other services needed to improve education that are *requested on Form 470 and the Form 471 for E-Rate Funding Year 2011-2012 (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; 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 (SL) 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 SL 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 (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 2011-2012. If an entity chose to apply for Priority 2 E-Rate discounts, they are requested to also submit the technology plan addendum section of this document. The addendum requests the entity to list in detail the services that were sought on the Form 470(s) for Funding Year 2011-2012.

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.

Mail: **Rolando De Leon**
B1-14 Turlington Bldg
325 W. Gaines Street
Tallahassee, FL 32399
For more information contact Rolando at
850-245-9315 or
Rolando.DeLeon@fldoe.org

**E-Rate Technology Plan
Certifications & Addendum*
Funding Year 2011-2012**

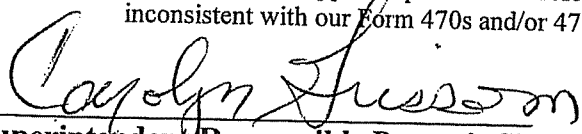
District/School Name:	School District of Clay County	Contact Name:	Carolyn Grissom
Billed Entity #: <i>(As assigned by the Schools & Libraries Division)</i>	146121	Contact Title:	Supervisor Information Services
Regional Educational Consortium: <i>(If applicable)</i>		Contact Phone:	(904) 284-6507
		Contact Email:	cgrissom@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 for districts that 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 SL 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 2011-2012, thus the E-Rate Technology Plan Addendum is not applicable.
- Our district is filing only for *basic telephone services* (basic local/long distance only, not including voice mail, Centrex, etc.) / Priority 1 services (telecommunication services and Internet access) for Funding Year 2011-2012, thus the E-Rate Technology Plan Addendum is not applicable.
- Our district is filing for more than *basic telephone services / Priority 1 services* for Funding Year 2011-2012 (i.e., the district is filing for Priority 2 services: internal connections and basic maintenance of internal connections).
 - 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 2011-2012 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 2011-2012.



Superintendent/Responsible Person's Signature

Carolyn Grissom

Print Name

Supervisor Information Services

Title

***Request District/School Submit This Page**
(Even if the attached addendum is not submitted)
Requested Tech Plan Submission by May 1, 2011
Please submit to Rolando De Leon,
325 W. Gaines Street, B1-14,
Tallahassee, FL 32399
Questions: Please call 850-245-9315 or email
Rolando.DeLeon@fldoe.org

Type	SPIN #	Funding Request #	Form 471#	Billing Account #	Amount Requested	Committed Refund	District Responsibility
Cellular 11-12	143006742	2210456	788223	513147412	\$ 58,664.04	\$ 33,438.50	\$ 25,225.54
Centrex 11-12	143004824	2128082	786612	904-526-1056	\$ 124,543.32	\$ 70,989.69	\$ 53,553.63
FIRN 11-12	143004824	2128953	786915	A61XX71	\$ 112,416.48	\$ 64,077.39	\$ 48,339.09
FIRN POE 11/12	143004824	2200265	810262	A61XX71	\$ 37,175.16	\$ 21,189.84	\$ 15,985.32
Metro E 11-12	143004824	2125598	785678	904 M48-0555 944	\$ 540,000.00	\$ 307,800.00	\$ 232,200.00
Metro E NNI 11-12	143004066	2125617	785678	73306578	\$ 78,000.00	\$ 44,460.00	\$ 33,540.00
PRI 11-12	143004824	2124960	780349	904-M48-0555 944	\$ 144,000.00	\$ 82,080.00	\$ 61,920.00
BLC Internal 11/12 90%	143021795	2200431	808437	SBCLA	\$ 74,850.12	\$ 67,365.11	\$ 7,485.01
CEB Internal 11/12 90%	143021795	2181949	804901	SBCLA	\$ 145,804.41	\$ 131,223.97	\$ 14,580.44
WES Internal 11/12 90%	143021795	2181807	804798	SBCLA	\$ 168,906.36	\$ 152,015.72	\$ 16,890.64
Active Electronics 80%	143021795	2205882	812136	SBCLA	\$ 900,687.78	\$ 720,550.22	\$ 180,137.56
CHE EDU2011-A 80%	143021795	2182054	804942	SBCLA	\$ 173,865.69	\$ 139,092.55	\$ 34,773.14
CHE EDU2011-B 80%	143021795	2205462	808351	SBCLA	\$ 245,043.00	\$ 196,034.40	\$ 49,008.60
				Grand Totals	\$ 2,803,956.36	\$ 2,030,317.41	\$ 773,638.95