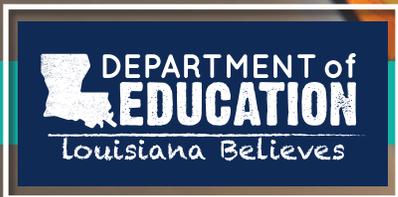


# ❖ RAPIDES PARISH MOVING FORWARD

AUGUST 2013, VOLUME 3



LOUISIANA BELIEVES: LOUISIANA'S TECHNOLOGY FOOTPRINT



# IMPROVING EDUCATION AND TECHNOLOGY ACCESS

Improving educational outcomes and technology access for Louisiana students is a priority and a right for students in the 21st century. While assessments of student learning will soon be digital and computer-based, it is more life in the 21st century that makes technology-rich schools an imperative for students and educators alike.

Every child deserves a digitally-ready school. Across the state, districts have signaled their commitment to making this necessity a reality by improving technology and broadband access within elementary and secondary schools. This commitment involves investments in computers, software, school-based infrastructure, and digital resources in addition to providing the professional development necessary to ready education systems for Louisiana students' technology needs.

This third edition of *Louisiana Believes: Louisiana's Technology Footprint* serves as both a support tool for districts and schools to analyze their current technology readiness status. It provides up-to-date information for every school district and facility in the state on the status of technology devices and broadband capacity.

The third edition of these district technology footprints offers great

news for Louisiana, as more districts than ever before are ready to provide educators and students with the technology necessary to succeed in the 21st century. Since the last report, nearly twice the number of districts has met the minimum standard of 7 students to one device or 7:1. Importantly, 19 public school districts have gone above and beyond this minimum to reach the excellent standard of 5:1, providing more of their students than even before with access to technology. One district, St. James Parish, has exceeded all others by meeting the national 1:1 ratio. To meet these new ratios, public school districts have upgraded or purchased 62,512 devices over the past year.

Districts have not only transformed student-to-device ratios, but they have also invested in major infrastructure upgrades to their Internet access and network backbones in order to provide applications and content solutions required for enhanced

personalized learning opportunities for students. Over the past year, 19 districts have upgraded their managed network infrastructure to 1 Gbps, and 13 districts expanded their shared Internet broadband capacity to 1 Gbps and allows their schools and students the capacity to meet both testing requirements and learning requirements for 2014-15.

Even with this impressive increase in Internet bandwidth and network upgrades, only 12 districts meet 2014-15 Internet bandwidth targets for daily learning, and only 27 districts meet 2014-15 network bandwidth requirements. Additionally, none of Louisiana's districts meet 2017-18 Internet bandwidth targets. The Department of Education and districts alike will need to make Internet access a priority in the years to come if schools are to be equipped for the 21st century.

# MAKING PROGRESS: STATEWIDE EXECUTIVE SUMMARY

Louisiana's school districts are working to transform their classrooms with innovative technologies, expanded Internet access, robust networks, and technology-enriched learning opportunities to engage students and improve academic achievement. Over the past year, school districts across the state have upgraded or purchased an additional 62,512 devices. Because of these efforts, Louisiana now has 1,208 schools and 38 districts meeting minimum technology device standards; up from 812 schools and 17 districts in January 2013. In addition, a vast number of schools and districts have already upgraded their devices to exceed the minimum device specification, and many are going above and beyond, growing in each category of readiness. Louisiana now has 24 districts that have exceeded minimum device standards and have met 7:1, 5:1, 3:1 or 1:1 ratios; up from 6 districts in January 2013. Over 86% of Louisiana public school students now attend a school that meets 7:1 minimum technology standards and 41% of schools have the minimum bandwidth needed to support online testing.

Louisiana has seen vast improvements from its initial baseline readiness report in June 2012 to the Footprint's second release in January 2013 and the current third release in August 2013. The following charts depict the state's levels of success.

## REDUCED RATIO OF STUDENT-TO-COMPUTERS IN SCHOOLS

In one year, schools have vastly reduced their student to computer ratios.

Report Date	Total Schools Reporting	Recommended Device Specifications			
		7:1 Ratio	5:1 Ratio	3:1 Ratio	1:1 Ratio
July 2012	1025	337	133	72	10
July 2013	1208	798	662	435	131

## INCREASED NUMBER OF DISTRICTS GOING BEYOND THE MINIMUM 7:1 RATIO OF STUDENT-TO-COMPUTERS

Louisiana's school districts are dedicated to ensuring their students have the proper tools required for today's 21st Century classroom

Report Date	Total Districts Reporting	Minimum Device Specs	Recommended Device Specifications			
			7:1 Ratio	7:1 Ratio	5:1 Ratio	3:1 Ratio
July 2012	61	2	2	0	0	0
January 2013	69	17	9	5	5	0
July 2013	69	38	24	19	8	1
September 2013*		9	11	6	0	0

\* Additional districts that have committed to reach new device ratios once they have completed their summer device upgrades.

## DEVICE PROGRESS

### DISTRICTS MEETING EXCEEDING MINIMUM DEVICE STANDARDS

**1:1 Student-to-Learning Device Ratio:**  
St. James Parish

**3:1 Student-to-Learning Device Ratio:**  
Includes all 1:1 Districts and  
Ascension Parish  
Cameron Parish  
Claiborne Parish  
East Baton Rouge Parish  
Iberville Parish  
Plaquemines Parish  
St. Helena Parish

**5:1 Student-to-Testing Device Ratio:**  
Includes all 3:1 Districts and  
Bienville Parish  
Calcasieu Parish  
Caldwell Parish  
Catahoula Parish  
DeSoto Parish  
Franklin Parish  
East Carroll Parish  
Jackson Parish  
St. Charles Parish  
West Feliciana Parish  
Central Community Schools

**7:1 Student-to-Testing Device Ratio:**  
Includes all 5:1 Districts and  
Sabine Parish  
St. Mary Parish  
Tangipahoa Parish  
Tensas Parish  
Vernon Parish

Fourteen districts in Louisiana have worked diligently to increase their student-to-device ratio to 7:1 but are still working to upgrade their devices from minimum specifications to meet the state's recommended operating system, memory and browser specifications. Of these 14, eight districts (designated with a \*) are only 1 school away from exceeding these minimum device specifications.

### DISTRICTS MEETING MINIMUM DEVICE STANDARDS

Assumption Parish\*  
Beauregard Parish  
Bossier Parish  
Iberia Parish  
Jefferson Davis Parish  
Red River Parish\*  
Richland Parish  
St. John the Baptist Parish\*  
St. Tammany Parish  
Union Parish\*  
Washington Parish\*  
Winn Parish\*  
Bogalusa City Schools\*  
Baker City Schools\*

## BROADBAND PROGRESS

### DISTRICTS MEETING 2014-15 INTERNET LEARNING TARGETS

Bogalusa City Schools  
 Central Community Schools  
 City of Monroe School District  
 DeSoto Parish  
 East Carroll Parish  
 Franklin Parish  
 Iberville Parish  
 Madison Parish  
 St James Parish  
 St. Helena Parish  
 St. Mary Parish  
 Tensas Parish

### DISTRICTS MEETING 2014-15 NETWORK BANDWIDTH LEARNING TARGET

Acadia Parish  
 Allen Parish  
 Ascension Parish  
 Assumption Parish  
 Beauregard Parish  
 Caddo Parish  
 Cameron Parish  
 East Baton Rouge Parish  
 East Carroll Parish  
 Franklin Parish  
 Iberville Parish  
 Madison Parish  
 Monroe City Schools  
 Bogalusa City Schools  
 Central Community Schools  
 Lafayette Parish  
 Red River Parish  
 Richland Parish  
 Sabine Parish  
 St. John the Baptist Parish  
 St. Mary Parish  
 Tensas Parish  
 Terrebonne Parish  
 Vermillion Parish  
 Vernon Parish  
 Washington Parish  
 Zachary Community Schools

### DISTRICT MEETING 2017-18 NETWORK BANDWIDTH LEARNING TARGET

Ouachita Parish

## INCREASED STUDENT ACCESS TO DEVICES WITH MODERN SOFTWARE

Districts have been working diligently to update old computers and purchase new laptops and tablets that meet Louisiana's recommended device specifications.

YEAR	Total Schools Reporting	Minimum Device Specifications	Recommended Device Specifications
July 2012	61	231,269	66,326
July 2013	69	42,813	128,838

## EXPANDED INTERNET CAPACITY

Number of districts that have met 7:1 minimum and 7:1, 5:1, 3:1 and 1:1 target student to device ratios.

Report Date	Total Schools Reporting	Testing Targets				2014-15 Learning Target	2017-18 Learning Target
		7:1 Ratio	5:1 Ratio	3:1 Ratio	1:1 Ratio		
July 2012	61	17	12	2	2	2	0
July 2013	69	37	32	22	12	12	0

## DISTRICT NETWORK CAPACITY

Louisiana's districts have been strategically upgrading their network infrastructure to support testing and are now working to support expanded learning opportunities and 1:1 environments.

Report Date	Total Schools Reporting	Testing Targets				2014-15 Learning Target	2017-18 Learning Target
		7:1 Ratio	5:1 Ratio	3:1 Ratio	1:1 Ratio		
July 2012	61	36	28	17	13	12	0
July 2013	69	55	47	32	27	27	1

The following is a list of major advancements and successes of Louisiana's public school districts based on data collected in June 2013. It should be noted that many of Louisiana's school districts were planning major upgrades enhancements to be implemented in the summer and early fall of 2013. Some of those changes are captured here within this volume of the footprint, while others will be included in the release *Fall 2013/Winter 2014 footprint* release.

- A total of 69 public school districts submitted data relative to their technology readiness. All districts and charter operators will be required to submit data for the fall 2013 data collection which is set to end on December 13, 2013. Districts and schools must be prepared for both expanded and enhanced state online testing starting in August 2014.
- A total of 37 public school districts now have enough devices to meet the minimum readiness standard compared to 5 in 2012.
- A total of 26 districts, up from 8 districts in July 2012, now meet 2014-15 network bandwidth requirements and a total of 12 districts, up from 2 districts in July 2012, now meet 2014-15 Internet bandwidth targets.



## STUDENT ACCESS TO DEVICES IN YOUR DISTRICT

Over the past year the Louisiana Department of Education has worked with schools and districts across the state to communicate the essential need for all schools to have adequate technology resources to support online assessment and 21st century learning environments. These communications and observations have heightened awareness of technology's influence to support school transformation. As a result, the state has continued to support districts in transitioning to the minimum device requirements and beyond, such as the recommended standard of 5-students-per-instructional computer. Many districts have set the bar even higher with plans to progress to the excellent standard of 3-students-per-instructional computer or to the nationally-recommended model of 1:1 student-per-instructional computer.

Since the initial *District Technology Footprint* release in July 2012, Rapides Parish schools have made some movement in obtaining new devices and upgrading old devices to meet the newly recommended standards for testing and student learning. Rapides Parish schools are

to be commended for their diligent and conscientious work that resulted in 15 out of 48 schools meeting the recommended 7:1 technology specifications for testing; 10 out of 48 schools meeting the recommended 5:1 technology specifications for testing; 4 out of 48 schools meeting the 3:1 recommended digital learning specifications; and 1 out of 48 schools meeting the 1:1 target goal for digital learning. Additionally, 36 schools only meet the 7:1 minimum online testing standards and 12 schools are below the minimum 7:1 device standards. Since the initial District Technology Footprint release in July 2012, Rapides Parish schools have made some movement in obtaining new devices and upgrading old devices to meet the newly recommended standards for testing and student learning. Based on this data and assuming the district maintains its current device levels and student population, Rapides Parish has 15 schools that are adequately prepared for state online testing through the 2015-16 and 33 schools that need immediate plans of actions taken to prepare for state online testing taking place in 2014, 2015 and 2016.

The district should work toward upgrading and procuring devices that meet the recommended device specifications and that meet the 5:1 ratio for testing at all of its schools sites.

The Rapides Parish School Board is strongly recommended to design and execute plans for expanding their digital footprint efforts in support of higher academic achievement. In support of Rapides Parish schools, the state will continue to support and provide biannual footprint updates to assist districts and schools in their device and technology readiness efforts.

On the following page, a detailed chart provides a breakdown of devices that meet recommended technology standards and devices that meet the state's minimum device specifications compared to the student-to-computer ratios needed for online testing and digital learning. This information is meant to inform and guide districts and schools in their device readiness efforts.

## DEVICE NEEDS BY SCHOOL

School Name	Total Student Testers	Total Devices	Total devices meeting min specs	Total devices meeting recommended specs	Total Devices needed for testing (7:1)	Total Devices needed for testing (5:1)	Min Tech Specs	Recommended Technology Specifications				
							7:1 Ratio	7:1 Ratio	5:1 Ratio	3:1 Ratio	1:1 Ratio	
Acadian Elementary New Vision Academy	106	165	4	4	15	21	7	11	17	31	102	
Alexandria Middle Magnet	608	171	60	9	87	122	18	78	113	194	599	
Alexandria Senior High	1184	198	119	68	169	237	0	101	169	327	1116	
Ball Elementary	177	205	100	50	25	35	0	0	0	9	127	
J.I. Barron Sr. Elementary	439	198	61	17	63	88	0	46	71	129	422	
Bolton High	608	702	68	0	87	122	19	87	122	203	608	
Scott M. Brame Middle	958	160	67	33	137	192	37	104	159	286	925	
Mabel Brasher Elementary	202	110	32	23	29	40	0	6	17	44	179	
Buckeye Elementary	0	110	20	0	0	0	0	0	0	0	0	
Buckeye High	1036	139	61	78	148	207	9	70	129	267	958	
Cherokee Elementary	328	244	15	46	47	66	0	1	20	63	282	
Glenmora Elementary	204	95	20	5	29	41	4	24	36	63	199	
Glenmora High	250	144	40	70	36	50	0	0	0	13	180	
Mary Goff Elementary	164	161	24	0	23	33	0	23	33	55	164	
Horseshoe Drive Elementary New Vision Academy	119	126	20	0	17	24	0	17	24	40	119	
D.F. Huddle Elementary New Vision Academy	208	145	46	5	30	42	0	25	37	64	203	
Arthur F. Smith Middle Magnet	438	100	11	0	63	88	52	63	88	146	438	
Hadnot-Hayes S.T.E.M. Elementary	123	144	0	23	18	25	0	0	2	18	100	
Martin Park Elementary	166	162	20	28	24	33	0	0	5	27	138	
J.B. Nachman Elementary	335	162	20	0	48	67	28	48	67	112	335	
North Bayou Rapides Elementary New Vision Academy	157	124	19	23	22	31	0	0	8	29	134	
Oak Hill High	362	103	88	9	52	72	0	43	63	112	353	
Paradise Elementary	276	171	49	0	39	55	0	39	55	92	276	
Peabody Magnet High	660	353	110	61	94	132	0	33	71	159	599	
Peabody Montessori Elementary	203	131	20	22	29	41	0	7	19	46	181	
Pineville Elementary	178	140	20	50	25	36	0	0	0	9	128	
Pineville High	1301	411	127	195	186	260	0	0	65	239	1106	
Pineville Junior High	683	114	41	30	98	137	27	68	107	198	653	
Plainview High	197	121	53	20	28	39	0	8	19	46	177	
Poland Junior High	245	122	20	25	35	49	0	10	24	57	220	

School Name	Total Student Testers	Total Devices	Total devices meeting min specs	Total devices meeting recommended specs	Total Devices needed for testing (7:1)	Total Devices needed for testing (5:1)	Min Tech Specs	Recommended Technology Specifications				
							7:1 Ratio	7:1 Ratio	5:1 Ratio	3:1 Ratio	1:1 Ratio	
Rapides High	370	156	85	28	53	74	0	25	46	95	342	
Carter C. Raymond Elementary	129	130	26	46	18	26	0	0	0	0	83	
Julius Patrick Elementary	93	103	44	0	13	19	0	13	19	31	93	
Rosenthal Montessori Elementary	150	110	20	0	21	30	1	21	30	50	150	
Ruby-Wise Elementary	245	125	22	5	35	49	8	30	44	77	240	
L.S. Rugg Elementary	152	157	37	3	22	30	0	19	27	48	149	
W.O. Hall Elementary	92	234	17	36	13	18	0	0	0	0	56	
Lessie Moore Elementary	204	107	48	0	29	41	0	29	41	68	204	
Alma Redwine Elementary New Vision Academy	136	148	37	0	19	27	0	19	27	45	136	
Tioga Elementary	322	283	17	60	46	64	0	0	4	47	262	
Tioga High	870	404	125	237	124	174	0	0	0	53	633	
Tioga Junior High	631	362	108	26	90	126	0	64	100	184	605	
Forest Hill Elementary	209	158	0	63	30	42	0	0	0	7	146	
Northwood High	520	589	45	125	74	104	0	0	0	48	395	
Hayden R. Lawrence Upper Elementary	431	153	28	30	62	86	4	32	56	114	401	
Oak Hill Elementary School	251	123	20	23	36	50	0	13	27	61	228	
Phoenix Magnet Elementary	334	210	35	26	48	67	0	22	41	85	308	
Caroline Dormon Junior High	136	104	0	88	19	27	0	0	0	0	48	

## DEVICE SPECIFICATIONS

### Recommended Device Specifications

#### Desktop, Laptop, Netbook & Thin Client/VDI

Operating Systems:  
 Windows 7 or newer  
 Mac OS 10.7 or newer  
 Linux (Ubuntu 11:10, Fedora 16 or newer)  
 Chrome OS 19 or newer  
 Memory:  
 1 GB of RAM (preferably 2 GB of RAM)

#### Tablets:

Operating Systems:  
 Android 4.0  
 Apple iPad 2 running iOS 6,  
 Windows 8 Pro or newer  
 Memory:  
 1 GB of RAM or greater

### Minimum Specifications

#### Desktop, Laptop, Netbook & Thin Client/VDI

Operating Systems:  
 Windows XP – Service Pack 3 or newer  
 Mac OS Mac OS 10.5 or newer  
 Linux (Ubuntu 9-10, Fedora 6)  
 Chrome OS 19  
 Memory:  
 512 MB of RAM

#### Tablets:

Operating Systems:  
 Android 4.0  
 Apple iPad 2 running iOS 6,  
 Windows 8 Pro or newer  
 Memory:  
 1 GB of RAM or greater

### All Devices (Minimum & Recommended)

- Connectivity:**  
 Wired or wireless access to the Internet
- Screen Size:**  
 9.5 inch screen size or larger
- Screen Resolution:**  
 1024 x 768 resolution or better
- Input Device Requirements\*:**  
 Keyboard & Mouse/Touchpad
- Headphone and Microphone Requirements:**
- Headphones/earphones and microphones are required for all students taking the English Language Arts/Literacy Speaking and Listening Assessment
  - Headphones/earphones are required for students using text to speech or other auditory accommodations.
  - Microphones are required for students using speech to text accommodations.

\*The input device must allow students to control an on-screen cursor to point, click, drag, and select an area. The input device must allow students to enter letters, numbers, and symbols and shift, tab, return, and backspace.



With a robust network backbone, teachers throughout the district and throughout the state can share resources, activities and assessments through online learning tools.

# 21ST CENTURY NETWORKS FOR 21ST CENTURY SCHOOLS IN YOUR DISTRICT

As Louisiana’s school districts continue to implement and expand on common core teaching pedagogy, districts also need to develop, operate and expand their managed information technology networks to provide a wide array of educational content and services to ensure that all students can benefit from the opportunities provided by digital technologies. Managed networks connect schools together via a secure data network, offering high levels of service quality and support. Managed networks can also enable schools to access cheaper and faster Internet over more reliable connections than many of our Louisiana schools are using today.

Understanding access to high-speed broadband and a reliable network backbone is vital a component of Prekindergarten to 12 school infrastructure, the State in partnership with our districts and schools must begin long term plans for implementing sustainable and expandable technology infrastructures to support our state’s students and classroom. These

plans will assist school in meeting the new recommended broadband targets advanced by the State Educational Technology Directors Association (SETDA) in its May 2012 publication, *The Broadband Imperative: Recommendations to Address K-12 Education Infrastructure Needs*; as well as the new ConnectED Initiative announced in June 2013.

## Broadband Access

Rapides Parish School District would like to provide application delivery and content solutions to accommodate a curriculum for which many components are offered through the local network and on the Internet; however the district’s Internet bandwidth is very limited. Rapides Parish Schools’ Internet bandwidth is continuing to limit the district’s ability to expand and distribute online productivity resources, media rich educational materials, expand learning opportunities, and provide tools for data-driven classroom decisions to the district’s 3,759 computers. To remedy these limitations, Rapides Parish Schools needs to embark on a

strategic plan to expand their Internet access and to work toward meeting the recommended Internet access targets required to deliver innovative technologies that support and extend many different teaching and learning styles.

Rapides Parish Schools, like most other schools in Louisiana, has been faced with the financial challenges associated to budgeting and paying for the growing costs of providing sufficient bandwidth to its schools. In order for the district to meet future educational demands, the district will need new or other viable cost effective options for acquiring expanded Internet and telecommunications access. Expanded access for schools is not only a challenge for the district, but is also a challenge facing both the state and the nation. New delivery options and funding are currently under discussion in Washington but these changes could take years to enact. In the short term, Rapides Parish Schools needs to work with the State to develop a viable statewide plan for broadband expansion and adoption that can benefit both its schools and its students at home and in class.

Rapides Parish Schools currently have < 2 and up to 11 Mbps of Internet access at its 48 schools. To meet initial Internet testing bandwidth targets, Rapides Parish Schools will need to provide an overall Internet

SCHOOL INTERNET & NETWORK RECOMMENDATIONS		
Broadband Access for Teaching, Learning, and School Operations	2014-15 School Year Target	2017-18 School Year Target*
An external Internet connection to the Internet service provider (ISP)	At least 100 Mbps per 1,000 students/ staff	At least 1 Gbps per 1,000 students/staff
Internal wide area network (WAN) connections from the district to each school and among schools within the district	At least 1 Gbps per 1,000 students/staff	At least 10 Gbps per 1,000 students/staff

bandwidth of 343 Mbps assuming 100 kbps per student test taker within each of their schools. Rapides Parish Schools will need to provide an overall Internet bandwidth of 24 Gbps based on the SETDA recommended 100 Mbps per 1,000 students digital classroom learning target. For more details on the bandwidth needs per school, see the estimated bandwidth needs chart included in this footprint.

## Network Access

Rapides Parish is dedicated to improving student achievement through technology-enriched learning opportunities that engage students to ask questions and utilize tools to facilitate real-world problem solving. The district uses technology not just to do the same things more efficiently, but also to develop engaging learning activities in the classroom. It is Rapides Parish's objective to transform classrooms with innovative technologies that support and extend many different teaching and learning styles. Each school's network provides access to a wealth of productivity resources, media and educational materials, expanded learning opportunities, and tools for data-driven classroom decisions. Similarly, teachers using web-based streaming audio and real-time video applications have been very successful in keeping students more engaged. Teachers participate in on-going professional development to experiment, initiate, and create new models of teaching and learning for today's dynamic and changing curricula.

All classroom computers are part of the school network, and all schools are connected to the district's managed network infrastructure. Teachers throughout the district can share resources, activities, and assessments through an online

repository of learning tools. Teachers are designing higher quality work for students and achieving greater student engagement and improved scholastic performance. Rapides Parish believes that blending online education with the traditional classroom is not an alternative way to design school but the very future of education itself.

Rapides Parish is in process of upgrading and enhancing the district's managed network to provide students with quality stable wired and wireless connectivity options. The district will soon have a 11 Mbps maximum network connection within its 48 schools. In order for the district to continue to meet future networks demands, the district needs additional funding and cost effective options for acquiring and expanding network access and connectivity not only within its schools and district, but also to other educational institutions and resources both in-state and out-of-state.

Rapides Parish will need to provide an average 1 Gbps WAN connection per school site to meet recommended 2014-15 student digital classroom-learning targets and an average 10 Gbps WAN connections to meet 2017-18 targets. Final network requirements for Louisiana's End-of-Course tests and PARCC's tests will be released in September and October 2013, respectively. The district will need to ensure it has adequate bandwidth to meet these new testing requirements when released. For more details on the network needs per school, see the Estimated School Bandwidth Needs chart included in this footprint.

## A Note on Facility and Testing Environments

Currently data is not being collected on facility readiness or capacity to provide or sustain the increased infrastructure requirements of digital learning. Districts should begin to assess their schools and document needed upgrades, expansions and concerns including, but not limited to space planning, furniture, wiring and power to accommodate testing as well as future digital learning needs. Facility needs should be included in the district's overall strategic plan for improving schools as well as in their technology improvement plans.

The Department will be providing guidance on secure testing environments in future footprints and does not recommend that districts create new, permanent labs that will be used solely for testing. Testing is just a small part of the school year; therefore, schools and the technology within schools should be designed and used for optimal learning.

Bandwidth Usage in Schools	
Online Activity	Bandwidth required (per student)
Email and Web Browsing	500 kbps
VoIP (Voice over IP)	500 kbps
Online Learning	250 kbps
Audio Streaming	100 kbps
Online Assessment for each Student	250 kbps
School Portal	250 kbps
TV-Quality Video Streaming to a Desktop	700 kbps
Basic Video Conferencing	1 mbps
HD Video Conferencing and Tele-learning	4 mbps
HD-quality Video Streaming	4 mbps
Interactive Online Learning Games	1 mbps
Two-way Online Gaming in HD	4 mbps



## ESTIMATED SCHOOL BANDWITH NEEDS

School Name	Total Students	Internet Bandwidth Needed for Testing			SETDA Recommended Internet Targets	
		7:1 Ratio (mbps)	5:1 Ratio (mbps)	1:1 Ratio (mbps)	2014-15 (mbps)	2017-18 (mbps)
<b>Parish Totals</b>	<b>24034</b>	<b>335</b>	<b>469</b>	<b>2347</b>	<b>2403.4</b>	<b>24034</b>
Acadian Elementary New Vision Academy	236	3	5	23	23.6	236
Alexandria Middle Magnet School	608	8	12	59	60.8	608
Alexandria Senior High School	1184	17	23	116	118.4	1184
Ball Elementary School	346	5	7	34	34.6	346
J.I. Barron Sr. Elementary School	824	11	16	80	82.4	824
Bolton High School	608	8	12	59	60.8	608
Scott M. Brame Middle School	958	13	19	94	95.8	958
Mabel Brasher Elementary School	428	6	8	42	42.8	428
Buckeye Elementary School	470	7	9	46	47	470
Buckeye High School	1036	14	20	101	103.6	1036
Cherokee Elementary School	708	10	14	69	70.8	708
Glenmora Elementary School	403	6	8	39	40.3	403
Glenmora High School	250	3	5	24	25	250
Mary Goff Elementary School	340	5	7	33	34	340
Horseshoe Drive Elementary New Vision Academy	256	4	5	25	25.6	256
D.F. Huddle Elementary New Vision Academy	414	6	8	40	41.4	414
Arthur F. Smith Middle Magnet School	438	6	9	43	43.8	438
Hadnot-Hayes S.T.E.M. Elementary School	248	3	5	24	24.8	248
Martin Park Elementary School	360	5	7	35	36	360
J.B. Nachman Elementary School	693	10	14	68	69.3	693
North Bayou Rapides Elementary New Vision Academy	305	4	6	30	30.5	305
Oak Hill High School	362	5	7	35	36.2	362
Paradise Elementary School	530	7	10	52	53	530



# IT AND ADMINISTRATIVE STAFF IN YOUR DISTRICT

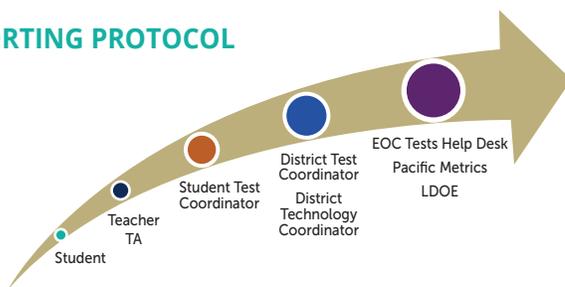
Districts that properly plan, train and staff their testing support team will be better prepared to ensure test security and success.

Districts and schools should plan on having adequate staff who can serve in the following roles: test monitor/proctor, school test coordinator, school technology coordinator, district test coordinator, and district technology coordinator. In addition to these staff, key technical resources should be identified and prepared to provide schools support during all testing windows. Technical resources could include: the network administrator, Internet service provider and desktop support administrators. All staff assigned to support testing should be properly trained (and appropriately staffed).

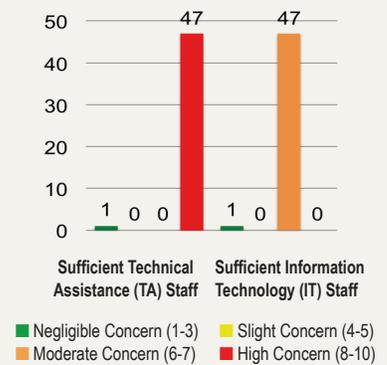
Through the state's survey, public schools across Rapides Parish were asked about their concern relative to school/district staffing levels for information technology and testing administration technical assistance staffing levels; as well as their concern levels relative to training and technical knowledge of test administration and information technology staff. The charts, on the right, details the responses provided by the schools.

As staffing and training plans are developed, districts should not forget to create internal reporting protocols for escalating technical problems during the testing windows. Until further guidance is provided, it is recommended that districts use the same protocols set forth for End-of-Course testing. This will provide both the district and schools with a familiar, proven process for handling, reporting and managing testing issues and technical problems that could potentially arise.

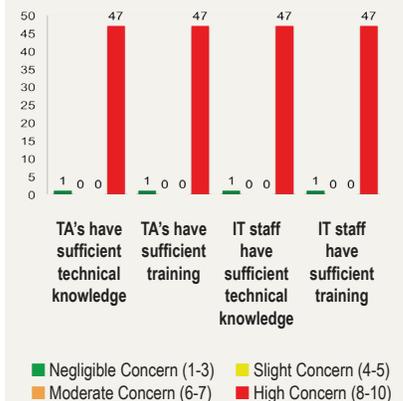
## EOC REPORTING PROTOCOL



**Concern Reported by Parish Schools Relative to Staffing Levels of Information Technology and Test Administration Staff**



**Concern Reported by Parish Schools Relative to Knowledge and Training Levels of Information Technology and Test Administration Staff**



## SUPPORT OPTIONS



The Louisiana Department of Education (LDOE) is committed to supporting districts in achieving all of the technology readiness goals in all schools across the state. The Department will continue to provide new and expanded technology support and services based on district needs and requests.

Below is a list of the initial services that the state would like to implement.

### Technology Assistance Teams (TAT)

Technology Assistance Teams will be comprised of LEA staff members who are willing to serve in both an advisory and support capacity for developing and implementing technology policies and plans in both their district and across the state. This team will meet at a regular intervals to assist the state in determining its needs, direction and solutions for meeting technology procurement, training, planning and funding requirements in the classroom.

### Technology Planning

LDOE will be working with LEAs to develop a new technology plan template as well as benchmark measurements, assessment tools and guides, budgeting and training plans, sample policies, and tips/best practice information from fellow districts. Districts and schools will be able to use these resources to develop a long-term strategic roadmap for meeting technology readiness goals, ConnectED goals, E-Rate requirements and most importantly educational goals.

### State Contracts

With information and guidance from TAT groups, the state will work to create statewide technology contracts and private partnerships which provide significant discounts and expanded services for LEAs and schools. The first contracts to be created have been laptop, desktop, and tablet computers. As new products or services (e.g. computer software;

computer peripherals, devices, and support; network hardware and support; technology services; and telecommunication products and services) are created, LDOE will publish purchasing information and costs in the *Connections Catalog*.

### Infrastructure Design & Guidance

Through LDOE's newly created TAT groups, the state will work to assist LEAs with additional resources for designing new or upgraded infrastructure designs to support technology goals. This will include, but is not limited to, bringing in private partners and other agencies to work collaboratively on creating the best design to meet the specific needs of a school and/or district based on its particular educational direction and services. This team will also provide training and support options that are tailored to the district needs.





LOUISIANA BELIEVES: LOUISIANA'S TECHNOLOGY FOOTPRINT

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