Jackson Academy Technology
Beginning a One-to-One (2008-2012)

At Jackson Academy we believe that communication and working with other schools is vital to a program's success. We have learned much from those schools that have been open to helping us along our journey. This page is primarily for those external to Jackson Academy to learn about our journey to becoming one of the largest Apple One-to-One schools in the Southeast.

Our journey began in January of 2008 when a small group of us went to St. Agnes Academy & St. Dominic School in Memphis, TN. St. Agnes is a staple Apple school in the Southeast and is celebrating their tenth year in 2012 as an Apple one-to-one school. The purpose of our trip is just to see what they were doing since we had heard many good things about their program. We had no desire at this point to move to a One-to-One school. The visit to St. Agnes was eye-opening. Technology was everywhere, but it wasn't "in-your-face". The technology was truly being used for teaching and learning and that was exciting to see. A St. Agnes administrator phrased it this way, "Technology is part of what we do every day". This really resounded with our group and we came back to share our trip with those from our school.

That summer, the summer of 2008, we were at a stage with our teacher's hardware where it needed to be replaced. All of our teachers had some old PC desktops that were becoming outdated and a maintenance problem. We decided that we wanted to give our teachers the flexibility of taking their computers home to work on grades and lesson plans. With this need for flexibility we decided on getting our teachers laptops. This then raised a new question that we had never asked ourselves. Should their laptops be PCs or Macs? We decided to go the Mac route and get them 15" Macbook Pros (Early 2008 version). Many schools have said that starting with the teachers is a great first step. This gave us the flexibility to move to a One-to-One program when we where ready. Looking back on now, this was probably the best decision we made.

Over the next couple of years our school entered into a strategic planning process. In this process a tactic was created as part of the academic portion of the strategic plan. The tactic was

 "To build a distinctive element into the educational program designed to provide students with the knowledge, skills, and dispositional qualities needed for success in the 21st Century."

We decided that our school wasn't just ready to move in the direction of a One-to-One program but needed to. We believe that moving in a direction with high technology integration is not a matter of "if" you should do it, but rather "when". In order to do this large of an initiative we headed back to Apple.

Apple's dedication to education and them being more than just a "sign on the dotted line" company really made the decision of selecting Apple easy. Many will bring up the market share that Apple has versus PC manufactures. We had numerous reasons for choosing Apple, but certainly their focus and dedication to education was most important. Apple sent many people to our campus or on phone conferences to make sure we were as prepared as

we could be. This not only included hardware and infrastructure, but also from the curriculum and professional development side.

In April of 2011 a group of administrators went to Apple headquarters in Cupertino, CA for an executive briefing. This was a great experience and really showed our group how dedicated to creating a partnership Apple was.

In the summer of 2011 we purchased four Bretford Macbook carts, three Bretford iPad 2 carts, and two Bretford carts of iPod touches. The Macbook carts were used throughout the school, the iPad carts found high usage in the Elementary, and the iPod touches were used primarily in the Preschool. This pilot program became a great resource for us to allow our teachers and students to use the tools right away rather than waiting for our mass rollout of devices.

Professional development is probably the most crucial piece in the entire journey. Our school was blessed to have a long time AP English teacher take on a new role as a technology integrationist. Her primary role is to work with teachers in helping them integrate technology into their curriculum. She also oversees the professional development piece of our program. We had one Apple Professional Development session in 2011 and had six sessions during the summer of 2012. The six sessions in the summer of 2012 were broken out by department and/or device being used. We were also blessed to have two administrative assistants join our technology integrationist. We now had three 21st century learning specialists.

In the fall of 2012, Jackson Academy announced its 21st century technology initiative called iLearn. In November of 2012, we made the decision on what devices we were planning on giving to students for the launch of our program in August of 2012. We decided that we really needed to do this all at once rather than waiting and not giving devices to some grades. We didn't want any students to lose the opportunity to learn using these devices. We will be One-to-One from our full day kindergarten to twelfth grade.

2012-2013 School Year Device Chart:

Grade	Device	Use
Kindergarten (Full Day)	8GB iPod Touch (4th Gen)	School
1st - 4th	16GB iPad 2	School
5th - 12th	13" Macbook Pro (Mid 2011) Educational 5 Pack Version	School/Home
Teaching Faculty	13" Macbook Pro (Mid 2011) Educational 5 Pack Version	School/Home

A letter went home in early December to parents explaining the new initiative and fees that would be added for the 2012-13 school year. The fees that are passed onto the parents is a very modest fee compared to the actual cost of the device, software, and support. The

money difference is begin paid for through a capital campaign. This campaign also aids in the pilot program expense as well as infrastructure.

Throughout the months of January, February, and March 2012, committees met to work on policies that would govern the initiative. The committee came up with three policies: Acceptable Use Policy (AUP), Laptop User Agreement (LUA), and the Laptop Care Guide (LCG).

In late March of 2012, 830 Macbook Airs, 250 iPads, 100 iPod Touches, iPad carts, and more were delivered to Jackson Academy.

In April of 2012, Jackson Academy launched it's iLearn website. This website was designed to aid parents, students, tech staff, and others through the new initiative. The website is the public face of the iLearn program. All of the new policies have been posted to the iLearn website as well as tutorial videos and much more.

In May of 2012, the tech team unboxed and asset tagged all of the new Apple devices that were put on campus. During this time we were very blessed to add a new full time tech specialist that had worked as a Genius at Apple for several years. We also began our imaging process using Jamf's Casper Suite software.

TECH DETAILS

Infrastructure:

In 2011 Jackson Academy had a flat network that was in need of an upgrade.   At that time wireless was using 65 Apple Airport Extreme base stations in every other classroom. In the summer of 2011, we replaced our wired network with a 10Gb backbone and new 10Gb core and edge switches. In the spring of 2012, we replaced the old wireless network with a Cisco controller based wireless network that had one AP in every room.

Network Summary:
- 10Gb fiber between buildings
- Cisco 4705 Sup 7 core switch
- 11 Cisco 2960 edge switches with 10Gb uplink
- Cisco 5508 wireless controller
- 110 Cisco 1140 wireless APs
- Cisco ASA 5520 firewall
- 25Gb/25Gb dedicated internet (100Gb/100Gb in July 2012)

Additional Software:
Obviously with an initiative of this size, software to run and maintain this program is vital. We used JAMF Software's Casper Suite as the major management suite for managing the Macs along with our pre-existing Active Directory environment. We did have Open Directory, but ended up removing it because the Casper Suite offered everything we needed.

Below you will find a list of software that we either use for management, servers, or on the student/teacher machines.

Name	Vendor	Use
Casper Suite	JAMF Software	The Casper Suite manages all aspects of our systems except for authentication.
Active Directory	Microsoft	Used for authentication of users and machines.
DNS, DHCP	Microsoft	Used in conjunction with Active Directory for running the back end of our network.
Mac OS X Lion	Apple	OS that all clients run
iLife '11	Apple	Creative suite that all clients run
iWork '09	Apple	Office suite that all clients run
Papercut	Papercut Software	For managing print queues.
Crashplan	Code 42	For backing up teacher-only machines.

For more information on Jackson Academy's technology initiative, please visit
http://ilearn.jacksonacademy.org