



# Saint Michael Academy

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Catholic High School for Girls

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Client approval: Yes  No

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<b>Solution group</b>	Senior Technical Department
<b>Solution offering</b>	Complete Domain Migration from 2003 to 2008 and Implementing Exchange 2007
<b>Project name or title</b>	Migrating to Windows 2008 Environment

**Customer profile**

<b>Customer name</b>	Saint Michael Academy
<b>Division</b>	Education
<b>Address</b>	425 West 33 <sup>rd</sup> Street
<b>City, State ZIP Code</b>	New York, NY 10001
<b>Phone number</b>	212-563-2547
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# Saint Michael Academy

## Case Study for Saint Michael Academy

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### Academic Profile

Saint Michael Academy is an all-girls high school located on Manhattan's West Side. For over 125 years, the Academy has provided quality, affordable education to the children of New York City. Founded by the Presentation Sisters of the Blessed Virgin Mary as an elementary school in 1874, the school opened a high school in the 1920s, which became an all-girls facility in 1947. It is now a Middle States Accredited school serving young women in grades nine through twelve.

Saint Michael Academy offers a college preparatory curriculum that meets, and in some subject areas exceeds, New York State Regents requirements. In addition, the school offers students the opportunity to earn college credits in English and History through Advanced Placement and college-sponsored courses.

Managing technology at Saint Michael Academy presents challenges that must be considered and addressed:

- The ratio of students to faculty is 16:1.
- The school advocates advanced technology for staff and students.
- Students are provided with access to technology throughout the school.
- Critical school systems must be maintained to retain accurate information on each student.

The Academy also has a pilot project designed to address the needs of students at four Catholic High Schools in New York: Saint Michael Academy, Cathedral High School, St. Jean Baptiste and Saint Joseph's in Brooklyn. It was created and is overseen by a consortium of principals from the four schools. Together, the schools have approximately 2,000 students who travel the five boroughs of New York City, as well as New Jersey.

### Academic Scenario

In the past, Saint Michael Academy had a mixture of technology brought about by several consulting firms. Administration of school systems was not suitable in that it lacked adequate central management:

**EXAMPLE:** A Linux Open Source Firewall, Windows NT 4.0 Servers, Windows 2003 Server 2003, Windows 2000 Professional Workstations, Mobile Laptops and Windows XP Desktops.

The technical environment required that systems be revised due to the growing population of students attending the Academy.

### Technical Situation

Saint Michael Academy requires that students and staff have access to the network while being mobile. They also require that current files and school systems be migrated onto the latest Microsoft platform. Printing must be managed accordingly and assigned strategically to each classroom. The Academy also wants to host their own mail server, rather than outsource the services to an external company.

The Academy wanted to retain their current mapped drives and decommission order servers on their infrastructure. However, this promotes a problem on older legacy school systems that are not compliant with the latest Microsoft platform. Their current phone system was also outdated.

## **Solution**

Troi.net reviewed the scenario and addressed requirements as follows:

- Two Dell Power Edge T605 Servers were purchased for redundancy.
- Windows 2008 Server Active Directory was installed on each server.
- Windows 2003 was prepped for migrating objects into the new environment.
- Exchange 2007 was installed on the first server.
- File Services were installed on the second server.
- IIS 7.0 was initialized for OWA and DNS records were created for the environment.
- Mapped Drives were transferred over and kept intact to prevent user confusion in the new environment.
- Rights and Permissions on the file server were applied in a granular manner to prevent unauthorized users from viewing secure information.
- New VOIP system was installed, replacing an older phone system.
- Cisco Access Points was strategically laid out throughout the school to offer mobility within the environment.
- The Academy's school system was kept on a legacy Windows NT 4.0 server. The school's software platform is no longer supported by the third party company and is currently pending review by staff.

## **Benefits**

Transition of services was seamless to end users. Saint Michael Academy has centralized services on their servers and GPO policies simplified roll out of their new environment. Mapped drives for staff, administration and students were segregated on the network for each group and itemized by way of rights and permissions.

## **Products and Services Used**

The following products and services were provided by Troi.net:

1. Windows Microsoft Server 2008
2. Microsoft Exchange 2007
3. Cisco 1121 Access Points
4. 3Com Office Connect Gigabit Switch
5. 3Com POE Switches
6. 3Com V3001 VOIP System
7. Dell Power Edge Servers