Joliet Catholic Academy Case Study

About Joliet Catholic Academy

Joliet Catholic Academy is a Roman Catholic co-ed private high school that serves approximately 700 students in Joliet, Illinois. Founded on the values of heritage and tradition, Joliet Catholic Academy is co-sponsored by the Joliet Sisters of St. Francis of Mary Immaculate and the Carmelites of the Most Pure Heart of Mary.

Joliet Catholic Academy places great importance on innovative curriculum development through heightened technology in the classroom to enhance the learning experience of its students, staff, parents and the community, and to position Joliet Catholic Academy as a technology leader.

Real-World Solutions

With a proven reputation for excellence and innovation, Panduit and our partners work with you to overcome strategic challenges and implement real-world solutions that create competitive business advantages. Panduit offers the broadest range of solutions, from data centers and intelligent buildings to manufacturing operations, to help you build a smarter, unified business foundation.

Technology Leadership

Panduit develops innovative physical infrastructure solutions that meet the rapidly changing needs of our clients, from hardware and software to advisory services. This commitment is supported by investments in advanced research, solutions-focused product development, world-class manufacturing, and collaboration with customers at the forefront of technology.

Partner Ecosystem

Our best-in-class partner ecosystem offers a comprehensive portfolio of services that span the project lifecycle, from planning and design to delivery, deployment, maintenance, and operation. Panduit business partners—distributors, and resellers, architects, consultants, engineers, designers, system integrators, and contractors—are qualified to help you achieve your objectives and make predictable and measurable results.

Strategic Objectives

"JCA allows the curriculum to drive technology which engages students in a more stimulating learning environment. A technology that supports the curriculum is a school priority and would allow us to gain more educational choices for the school and the staff while positioning JCA as a technology leader," said Budz.

The academy wanted to improve its educational environment by ensuring network availability to provide students, teachers and other staff with continuous access to proper resources for learning. As a result, the school’s priority was to install a dependable, high-performance network infrastructure that would accommodate high-speed, multimedia applications, enhancing WiFi service to all areas in the building.

Global Business Commitment

Panduit is committed to delivering a consistently high level of quality and service the world over. With a presence in more than 100 countries, local Panduit sales representatives and technical specialists offer guidance and support that bring value to your business. Our global supply chain, which includes manufacturing, customer service, logistics, and distribution partners, provides prompt response to your inquiries and delivers your products to any worldwide destination.

Sustainability

With a commitment to environmental sustainability, Panduit develops and implements solutions that protect, improve, and restore the world in which we live. This commitment is demonstrated by Panduit's LEED Silver Certified World Headquarters, leveraging the United Physical InfrastructureSM approach to enable convergence of critical building systems to drive energy efficiency and ongoing operational improvement.
Upgrading Technology to Support Curriculum Driven Learning

The Panduit Unified Physical Infrastructure™ approach enables Joliet Catholic Academy to achieve an enhanced learning experience.

Business Challenges
With 99% of its classrooms equipped with computers, teachers at Joliet Catholic Academy have exceeded their use of technology and needed the proper tools to access and deliver the most effective education to their students.

This increase in activity was causing the response time of applications such as YouTube videos with larger sized files to slow down and waste valuable classroom time while the applications downloaded.

Along with improving network response time and the associated inefficiency, JCA wanted to access the appropriate solutions/infrastructure for its audio/visual equipment.

The numerous cinderblock walls and permanent ceilings within the school made the wide use of wireless technology impossible, except in internal open spaces.

The numerous cinderblock walls and permanent ceilings within the school made the wide use of wireless technology impossible, except in internal open spaces.

Although not all of the classrooms had wireless, they were all planned to get it in the near future.

Business Successes
A network infrastructure that is effective facilitates the agility to JCA next-generation technologies in the classrooms.

Curriculum Driven Learning

This supports our objectives of increasing the use of technology in the classroom, extending communication from the administration to students, staff, parents and the community...

Panduit Unified Physical Infrastructure™ Approach

The Panduit Unified Physical Infrastructure™ (PPI) approach to design and development integrates critical systems – communication, computing, power, control and security – in a single, easy-to-manage network infrastructure. This approach has allowed Joliet Catholic Academy to adopt new technologies, such as converged networks to broaden the range of tools available in this classroom.

Joliet Catholic Academy chose the Panduit enterprise solution to support its key initiatives of reliability, availability, high-bandwidth performance, and scalable growth, to help propel students towards successful college choices and careers.

Panduit Solution

Panduit worked with the Joliet Catholic Academy Leadership team in the advisory phase to understand the institutional goals, objectives and the current state of the school’s technology. This assessment included visits by Joliet Catholic Academy to existing solutions to evaluate the scalability, reliability, availability and productivity, providing a more dynamic educational experience for students.

Joliet Catholic Academy has expanded their use of technology and needed the proper tools to access and deliver the most effective education to their students.

Business Benefits

A network infrastructure that is effective facilitates the agility to JCA next-generation technologies in the classrooms.

Unified Physical Infrastructure

Company
Joliet Catholic Academy

Country
Joliet, Illinois, USA

Industry
Education

Tuition is expensive and the administration wanted to be mindful of asking parents for more. In addition, JCA had a limited budget for the network infrastructure upgrade. Tunnel is expensive and the administration wanted to be mindful of asking parents to financially extend themselves any further, therefore, the school needed a cost-effective solution.

In the classrooms, the Pan-Way® Surface Raceway System routes, manages and protects cabling systems to support constantly changing technologies.

Within the telecommunications room, 2 post racks house network equipment connectivity, panels and patch cords, providing flexibility and improved cable management. The Category 6e copper cabling system includes modular jacks, patch cords and cables that provide reliable network performance to support demanding applications. Cabling is routed via the Wyr-Grid® Overhead Cable Tray Routing System, which helps manage and protect cabling while providing a robust cable support structure.

The Panduit Mini-Com® Modules were deployed across the installation in outlets, raceways, and patch panels, providing flexibility for JCA, simplifying moves, adds, and changes, and reducing operational expenses.

Business Benefits

The new network infrastructure solution creates uniformly in the classroom, simplifies the potential for tampering and provides higher network bandwidth and uninterrupted use of technology tools.

The school now exhibits updated, standards-compliant equipment to effectively facilitate agility for curriculum-driven, next generation technology, and lowest availability of JCA’s infrastructure investment. This supports our objectives of increasing the use of technology in the classrooms, extending communication from the administration to students, staff, parents and the community, and establishing Joliet Catholic Academy as a technology leader," said Budz.

Teachers have more time to focus on teaching because they are spending less time dealing with technology inadequacies, creating a better learning environment where students have more instructional time and are actively engaged.

Joliet Catholic Academy is very impressed and appreciative of the time that Panduit spent showing them how to unlock their goals for the infrastructure upgrade. This hands-on approach has allowed JCA to move forward with confidence knowing that their investment in technology infrastructure is viable, and will keep pace with future technology changes to advance learning opportunities.

"Panduit believes in getting the job right the first time. We were fortunate that they shared their invaluable knowledge with our school. The technology upgrade is on target with twenty of the 50 classrooms finished so far and we hope to work with Panduit in the future to upgrade our existing security and Wi-Fi systems," said Budz.

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technology leadership
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Partner Ecosystem
Our best-in-class partner ecosystem offers a comprehensive portfolio of services that support the project lifecycle, from planning and design to delivery, deployment, maintenance, and operation. Panduit partner ecosystem includes distributors, channel partners, and service providers, which allows us to optimize your solutions and meet your specific needs.

Strategic Objectives
“JCA allows the curriculum to drive technology which engages students in a more stimulating learning environment. A technology that supports the curriculum is a school priority and would allow us to gain more educational choices for the school and the staff while positioning JCA as a technology leader,” said Budz.

The academy wanted to improve its educational environment by ensuring network availability to provide students, teachers and staff with continuous access to prepare resources for learning. As a result, the school’s priority was to install a dependable, high-performance network infrastructure that would accommodate high-speed, multimedia applications, enhancing Wi-Fi service to all areas in the building.

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Sustainability
With a commitment to environmental sustainability, Panduit develops and implements solutions that protect, replenish, and restore the world in which we live. This commitment is demonstrated by Panduit’s LEED Gold-certified World Headquarters, leveraging the Unified Physical Infrastructure approach to enable convergence of critical building systems to drive energy efficiency and ongoing operational improvement.

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Upgrading Technology to Support Curriculum Driven Learning

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**Business Challenges**
With 99% of its classrooms equipped with computers, teachers at Joliet Catholic Academy have experienced their use of technology and needed the proper tools to access and deliver the most effective education to their students.

The increase in activity was causing the response time of applications such as YouTube videos with larger sized files to slow down and waste valuable classroom time while the applications downloaded.

Along with improving network response time and the associated inefficiency, JCA wanted to access the appropriate solutions/infrastructure for its learning environment.

**Business Benefits**
- A network infrastructure that consists of the structured cabling system, a highly reliable, scalable infrastructure solution enables Joliet Catholic Academy to adopt new technologies, such as converged networks to broaden the range of tools available in this classroom.
- Panduit worked with the Joliet Catholic Academy Leadership team in the advisory phase to understand the institutional goals, objectives and the current state of the school’s technology. This assessment included visits by Joliet Catholic Academy to existing educational institutions.

With 99% of its classrooms equipped with computers, teachers at Joliet Catholic Academy have expanded their use of technology and needed the proper tools to access and deliver the most effective education to their students.

**Panduit Solution**
Panduit worked with the Joliet Catholic Academy Leadership team in the advisory phase to understand the institutional goals, objectives and the current state of the school’s technology. This assessment included visits by Joliet Catholic Academy to existing educational institutions.

- The Panduit Unified Physical Infrastructure™ approach to design and development integrates critical systems – communication, computing, power, control and security – in a single approach that re-uses existing infrastructure where feasible, and includes Panduit infrastructure investment. “This supports our objectives of increasing the use of technology tools. The school now exhibits updated, standards-compliant equipment to effectively facilitate agility for curriculum-driven, next generation technology, and latest scalability of JCA’s infrastructure investment.” This supports our objectives of increasing the use of technology in the classrooms, extending communication from the administration to students, staff, parents and the community, “...”

- Curriculum Driven Learning
- Panduit is a leader in the design and development of critical systems for communications, computing, power, control and security. This approach has allowed JCA to move forward with confidence knowing that their investment in technology infrastructure is viable, and will keep pace with future technology changes to advance learning opportunities.

- **Business Benefits**
  - The new network infrastructure solution creates uniformity in the classroom, integrates critical systems – communication, computing, power, control and security – in a single approach that re-uses existing infrastructure where feasible, and includes Panduit infrastructure investment. “This supports our objectives of increasing the use of technology tools. The school now exhibits updated, standards-compliant equipment to effectively facilitate agility for curriculum-driven, next generation technology, and latest scalability of JCA’s infrastructure investment.” This supports our objectives of increasing the use of technology in the classrooms, extending communication from the administration to students, staff, parents and the community, and establishing Joliet Catholic Academy as a technology leader,” said Budz.

- **Teachers have more time to focus on teaching because they are spending less time dealing with technology inadequacies, creating a better learning environment where students have more instructional time and are actively engaged. Joliet Catholic Academy is very impressed and appreciative of the time that Panduit spent showing them how to achieve their goals for the infrastructure upgrade. This hand-on approach has allowed JCA to move forward with confidence knowing that their investment in technology infrastructure is viable, and will keep pace with future technology changes to advance learning opportunities.**

- “Panduit believes in getting the job right the first time. We were fortunate that they shared their invaluable knowledge with our school. The technology upgrade is on target with twenty of the 50 classrooms finished so far and we hope to work with Panduit in the future to upgrade our existing security and Wi-Fi systems,” said Budz.
Upgrading Technology to Support Curriculum Driven Learning

The Panduit Unified Physical Infrastructure® approach enables Joliet Catholic Academy to achieve an enhanced learning experience.

Business Challenges

With 99% of its classrooms equipped with computers, teachers at Joliet Catholic Academy have expanded their use of technology and needed the proper tools to access and deliver the most effective education to their students.

To keep pace with the growing technology trends that were quickly penetrating the wide use of wireless technology, except in internal open spaces. The increase in activity was causing the response time of applications such as YouTube videos with larger sized files to slow down and waste valuable classroom time while the applications downloaded.

Along with improving network response time and the associated inefficiencies, JCA wanted to access the appropriate solutions/infrastructure for its specific needs.

Panduit Solution

Panduit worked with the Joliet Catholic Academy Leadership team in the advisory phase to understand the institutional goals, objectives and the current state of the school’s technology.

The Panduit Unified Physical Infrastructure® (SUPI) approach to design and development integrates critical systems – communication, computing, power, control and security – on a single, easy-to-manage network infrastructure.

As a result of this collaboration, Joliet Catholic Academy and Panduit came together to design a solution that re-creates existing infrastructure where feasible, and includes Panduit cabling systems to support current, changing technologies.

Business Benefits

A network infrastructure that effectively facilitates the agility to Joliet next generation technology in the classroom.

“A single, easy-to-manage network infrastructure is viable, and will keep pace with future technology changes to advance learning opportunities.”

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The school now exhibits updated, standards-compliant equipment to effectively facilitate agility for curriculum-driven, next generation technology, and boost scalability of JCA infrastructure investment. “This supports our objectives of increasing the use of technology tools in the classroom, extending communication from the administration to students, staff, parents and the community, ...”

Jeffrey Budz
Principal/CEO, Joliet Catholic Academy

Business Opportunities

To provide a reliable, highly available infrastructure investment. The Panduit Unified Physical Infrastructure® (SUPI) approach to design and development integrates critical systems – communication, computing, power, control and security – on a single, easy-to-manage network infrastructure.

Within the telecommunications room, 2 post racks house network equipment connectivity, panels and patch cords, providing flexibility and improved cable management. The Category 6e copper cabling system includes moisture clips, patch cords and cables that provide reliable network performance to support demanding applications. Cabling is routed via the WireGrid® Overhead Cable Tray Flooding System, which helps manage and protect cable while providing a robust cable support structure.

In the classrooms, the Pan-Way® Surface Raceway System routes, manages and protects high performance copper, voice, video, and electrical wiring. The tamper-resistant system discourages unauthorized access and prevents physical contact with cabling. The system is designed with a distance to function and aesthetics to blend with the JCA environment.

“Panduit believes in getting the job right the first time. We were fortunate that they shared their invaluable knowledge with our school. The technology upgrade is on target with twenty of the 52 classrooms finished so far and we hope to work with Panduit in the future to upgrade our existing security and Wi-Fi systems,” said Budz.

Visits to existing Panduit educational customer locations also showed teachers and administrators how to achieve their goals for the infrastructure upgrade. This hands-on approach has allowed JCA to move forward with confidence knowing that their investment is viable, and will keep pace with future technology changes to advance learning opportunities.

The Panduit Unified Physical Infrastructure® (SUPI) approach to design and development integrates critical systems – communication, computing, power, control and security – on a single, easy-to-manage network infrastructure.

Joliet Catholic Academy

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Curriculum Driven Learning

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