**Strategic Objectives**

The main objective for SAIT was to construct a new building “to help students achieve their personal goals and graduate so they can meet the workforce needs of our country.” A new facility would allow it to build an exciting learning culture that attracts new students and delivers a more enriched experience to the students. SAIT also wanted to ensure the new structure would be operationally efficient with a reduced environmental impact. To achieve its goal of LEED certification, SAIT deployed a centralized building management system to reduce its energy consumption.

In addition, SAIT wanted an attractive location on the local and national levels for students to experience its programs of study. It also wanted the actual components of the building to attract visitors to the campus, provide the opportunity for students to experience the resilience to ensure greater end-to-end network security, agility, and availability.

**Real-World Solutions**

With a proven reputation for excellence and innovation, Panduit and its partners work with you to overcome challenges and implement real-world solutions that create a competitive business advantage. 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 investment in advanced research, solutions-focused product development, world-class manufacturing, and collaboration with customers at the forefront of innovation.

**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 certified architects, consultants, engineers, designers, system integrators, and contractors – are qualified to help you achieve your objectives and make predictable and measurable results.

**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 responses to your inquiries and ensures delivery to any worldwide destination.

**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 InfrastructureSM approach to enable convergence of critical building systems to drive energy efficiency and improving operational improvement.

**Strategic Alliances**

Panduit cultivates long-term strategic alliances with industry leaders, including Cisco Systems, IBM, and Rockwell Automation, to develop, optimize, and validate solutions for our customers. This investment in people and resources helps solve our customers’ greatest business challenges.

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Preparing for the Future – Today

The Panduit Unified Physical Infrastructure® approach helps SAIT meet today’s learning requirements and accommodate tomorrow’s innovations.

Business Challenges

SAIT Polytechnic is concerned about the economic health of Canada, which is threatened by a severe shortage of highly skilled young people to replace a generation of retiring Baby Boomers in a variety of trades and technology careers primarily energy, construction, and manufacturing.

To address the pending shortage of skilled workers, SAIT decided to build a state-of-the-art learning environment that would support its mission of being “an innovative organization equipping people to compete successfully in the changing world of work by providing relevant, skills-oriented education.”

The new building needed to facilitate flexible network infrastructure to support a robust learning culture with a sharpened focus on student education and outcomes.

“We needed to future-proof our physical infrastructure as much as possible in a manner that would allow us to upgrade our bandwidth requirements as we can accommodate changes in our network infrastructure as these technologies advance,” said Peter Kehler, CID Information Systems, SAIT Polytechnic.

Funding the project was another major challenge for the institution because it could not afford to go over budget. In addition, the project needed to be completed within a 12-month transition period to meet the anticipated start date for the fall semester of classes.

Panduit Solution

SAIT Polytechnic chose the Panduit® Net-Access™ Cabinets, a cost-effective choice, which helped SAIT stay within its tight budget.

The Panduit ® PatchRunner™ Vertical Cable Management System with angular patch panels and mini-trunks was deployed in all of the 30 network rooms to maximize density while minimizing floor space. Approximately 6000 network connections were implemented to expose systems, conduits and monitoring equipment to allow students to experience how the unified solution with innovative designs that offer superior cable management, and effective network integrity within the entire facility...

By implementing Panduit’s Unified Physical InfrastructureSM (UPI) approach to infrastructure design and planning, SAIT Polytechnic was able to quickly advance its learning culture and further their desire for skills-based training while furnishing instructors with the resources they need to provide the students with the best education possible. To cut costs, the project was funded by the Alberta Government and several generous donors.

Panduit also implemented MiniCom® Faceplates which snap in and out for easy maintenance and minimize floor space.

The Panduit Unified Physical Infrastructure®- Approach

The Panduit Unified Physical InfrastructureSM (UPI) approach to infrastructure design and development provides effective integration of critical systems – communication, computing, physical security, and energy management – into a single, simple-to-manage solution that provides greater business value. The Panduit Unified Physical InfrastructureSM approach gives campuses such as SAIT Polytechnic, the ability to foster a skilled-based learning environment while minimizing floor space and providing sustainable growth and operational efficiencies.

Panduit Enterprise Solutions aligned with SAIT’s overall vision to acquire technology that could differentiate its new facility from similar institutions and supply the business agility and flexibility to accommodate ever-changing user needs for optimum performance.

"Panduit has the proven ability to deliver an end-to-end unified solution with innovative designs that offer superior cable management, and effective network integrity within the entire facility..." Peter Kehler, CID Information Systems, SAIT Polytechnic

Business Benefits

To build a world-class educational facility with agile network infrastructure to accommodate the institution’s plan to expand its campus in Calgary, Alberta, Canada...
Real-World Solutions

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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 investment 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 range from the project’s beginning, from planning and design to delivery, deployment, maintenance, and support. Panduit business partners—distributors, systems architects, consultants, engineers, designers, system integrators, and contractors—are qualified to help you achieve your objectives and realize predictable and measurable results.

Global Business Commitment
Panduit is committed to delivering a consistently high level of quality and service across the world. 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 responses to your inquiries and timely delivery 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 Gold certified World Headquarters, leveraging the Unified Physical InfrastructureSM approach to enable convergence of critical building systems to drive energy efficiency and ongoing operational improvement.

### Strategic Objectives

The main objective for SAIT was to construct a new building “to help students achieve their personal goals and graduate so they can meet the workforce needs of our country.” A new facility would allow it to build an exciting learning culture that attracts new students and delivers a more enriched experience to the students. SAIT also wanted to ensure the new structure would be operationally efficient with a reduced environmental impact. To achieve its goal of LEED certification, SAIT deployed a centralized building management system to reduce its energy consumption.

In addition, SAIT wanted an attractive location on the local and national levels for students to experience programs of study. It also wanted the actual components of the building to be a part of the learning experience for students while having the resilience to ensure greater end-to-end network security, agility, and scalability.

About SAIT Polytechnic

As one of Canada’s leading polytechnics—an innovative and entrepreneurial post-secondary institution, distinct from universities and colleges in that it offers a skills-focused approach to learning—SAIT Polytechnic offers relevant education and training for more than 60,000 local and international students each year.

The institution’s main campus consists of thirteen buildings in four major complexes on approximately 92 acres. Its programs include customized training solutions and more than 2,300 career-oriented personal development courses to provide students with the required knowledge and skills for a rewarding career.

Educational excellence is an ongoing priority for SAIT, which is passionate about helping organizations further their commitment by establishing research partnerships, preparing SAIT graduates for work readiness, and delivering competency-based education, training, and workplace development solutions.
Preparing for the Future – Today

The Panduit Unified Physical Infrastructure® approach helps SAIT meet today’s learning requirements and accommodate tomorrow’s innovations.

Business Challenges

SAIT Polytechnic is concerned about the economic health of Canada, which is threatened by a severe shortage of highly skilled young people to replace a generation of retiring baby boomers in a variety of trades and technology careers primarily energy, construction, and manufacturing.

To address the pending shortage of skilled workers, SAIT decided to build a state-of-the-art learning environment that would support its mission of being “an innovative organization equipping people to compete successfully in the changing world of work by providing relevant, skills-oriented education.”

The new building needed to contain a flexible network infrastructure to support a robust learning culture with a heightened focus on student education and outcomes.

“We needed to future-proof our physical infrastructure as much as possible in a manner that would allow us to upgrade our bandwidth requirements and accommodate changes in our network infrastructure as these technologies advance,” said Peter Kehler, CIO, Information Systems, SAIT Polytechnic.

Funding the project was another major challenge for the institution because it could not afford to go over budget. In addition, the project needed to be completed within a 12 month timeframe to meet the anticipated start date for the fall semester.

Business Solution

According to Peter Kehler, “Panduit has the proven ability to deliver an end-to-end unified solution with innovative designs that offer superior cable management, and effective network integrity within the entire facility...”

The Panduit Unified Physical InfrastructureSM (UPI) approach to infrastructure design and development provides effective integration of critical systems – communication, computing, energy, and security – in an open and scalable architecture. This approach gives companies such as SAIT Polytechnic the ability to foster a skills-based future-proof, scalable infrastructure to increase network availability and productivity while achieving more sustainable operations.

Panduit® Net-Access™ Cabinets offer more sustainable operations.

Business Benefits

SAIT Polytechnic chose a Panduit® Net-Access™ Cabinets approach to infrastructure design and development because the solution offers the following benefits:

- The Panduit Unified Physical InfrastructureSM approach helps SAIT meet today’s learning requirements and accommodate tomorrow’s innovations.
- Panduit has the proven ability to deliver an end-to-end unified solution with innovative designs that offer superior cable management, and effective network integrity within the entire facility...
- Panduit unified physical infrastructure approach helps SAIT meet today’s learning requirements and accommodate tomorrow’s innovations.

Panduit Solution

SAIT Polytechnic selected Panduit’s Net-Access™ Cabinets approach to infrastructure design and development because the solution offers the following benefits:

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Panduit also implemented Mini-Com® Faceplates which snap in and out for easy accidental disconnection of users and other critical connections.

On Sept. 5, 2012, SAIT officially opened the doors to the 740,000 sq. ft. Trades and Technology Complex, which combines offices, labs and workshops for the MacPhail School of Energy, School of Construction and the School of Manufacturing and Automation.

The Complex is the first project to be selected as a finalist in two categories by the Project Management Institute Southern Alberta Chapter – the Engineering and Construction, and Community Advancement categories. The Trades and Technology Complex has also been named one of the most innovative and exciting urban infrastructure projects in the world, according to APWA’s Innovation 100 World Class Edition publication.

Working diligently with Gibbons Taggart, the architect who designed the project, and Carmel Systems, who performed contractor services, Panduit was able to deliver the $430-million expansion project on time. This expansion is the largest in SAIT’s history, providing capacity for an additional 6,150 students in a flexible and efficient learning space, which includes additional classrooms and workshops. The larger facility allows more students to further their desire for skills-based training while furnishing instructors with the resources they need to train the students with the best educational possible. To control costs, the project was funded by the Alberta Government and several generous donors.

SAIT now experiences ease of deployment and enhanced network performance for its demanding high-bandwidth applications and critical applications including VoIP. Panduit’s post telecommunication racks with high performance copper cabling creates a valuable foundation for mounting SAIT’s telecommunication and data center equipment.

Development provides effective integration of critical systems – communication, computing, energy, and security – in an open and scalable architecture. This approach gives companies such as SAIT Polytechnic the ability to foster a skills-based future-proof, scalable infrastructure to increase network availability and productivity while achieving more sustainable operations.
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Business Benefits

SAIT Polytechnic has enjoyed a solid working relationship with Panduit for many years, which made it easy for the institution to choose a Panduit Enterprise Solution to fulfill its network infrastructure requirements. The solution supports voice over IP (VoIP), Power over Ethernet (PoE), and wireless systems throughout the facility.

The Panduit Unified Physical InfrastructureSM (UPI) approach to infrastructure design and development provides effective integration of critical systems – communication, computing, and energy – into a single, easy-to-manage network infrastructure. This approach gives companies such as SAIT Polytechnic the ability to foster a skills-based learning environment to transfer innovation into the classroom while providing scalable growth and sustainable operations.

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Panduit also implemented Mini-Com® Faceplates which snap in and out for easy moves, adds and connectivity changes, a key requirement for SAIT. In addition, the Panduit RJ45 plug lock-in mechanism helps SAIT stay within its tight budget.

The Panduit PatchRunner™ Vertical Cable Management System with angular patch panels and racks was deployed in all of the 30 network rooms to maximize density while minimizing floor space. Approximately 6,000 network connections were implemented to support voice, data, and video applications, and 99% of the network connections were upgraded to Category 6A 10Gig modular jacks, faceplates and patch cords ensure maximum efficiency, and superior cable management.

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SAIT Polytechnic Case Study

As one of Canada’s leading polytechnics – an innovative and entrepreneurial post-secondary institution, distinct from universities and colleges in that it offers a skills-focused approach to learning – SAIT Polytechnic offers relevant education and training for more than 66,000 local and international students each year. The institution’s main campus consists of thirteen buildings in four major complexes on approximately 92 acres. Its programs include customized training solutions and more than 2,300 career-oriented personal development courses to provide students with the required knowledge and skills for a rewarding career.

Educational excellence is an ongoing priority for SAIT, which is passionate about helping organizations further their commitment by establishing research partnerships, preparing SAIT graduates for work readiness, and delivering competency-based education, training and workplace development solutions.

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