Islamic Development Bank Case Study

About Islamic Development Bank
Established in 1973, the Islamic Development Bank (IDB) is an international financial institution that fosters economic development and social progress of member countries and Muslim communities in non-Member countries. The Bank’s current membership consists of 56 countries.

IDB wanted to implement a complete upgrade of its IT infrastructure, which would increase its business innovation and help maintain its competitive advantage, as well as ensure compliance with data center industry standards.

An upgraded cabling network would support IDB’s need to quickly handle transactions to sustain high level of service for its stakeholders. As part of this requirement, the updated infrastructure needed to be seamlessly deployed as quickly as possible to avoid any service disruptions.

In addition, IDB wanted to reduce ongoing equipment cooling inefficiencies to provide improved thermal management and maximum energy efficiency to meet its data center requirements for years to come.

Panduit’s solutions

- **Technology Leadership**: Panduit offers 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**: Panduit cultivates long-term strategic alliances with industry leaders, including Cisco Systems, EMC, 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.

- **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 streamlined delivery to any worldwide destination.

- **Sustainability**: Panduit develops and implements solutions that protect, preserve, 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.

Strategic Objectives

IDB wanted to implement a complete upgrade of its IT infrastructure, which would increase its business innovation and help maintain its competitive advantage, as well as ensure compliance with data center industry standards.

An upgraded cabling network would support IDB’s need to quickly handle transactions to sustain high level of service for its stakeholders. As part of this requirement, the updated infrastructure needed to be seamlessly deployed as quickly as possible to avoid any service disruptions.

In addition, IDB wanted to reduce ongoing equipment cooling inefficiencies to provide improved thermal management and maximum energy efficiency to meet its data center requirements for years to come.

Strategic Objectives

IDB wanted to implement a complete upgrade of its IT infrastructure, which would increase its business innovation and help maintain its competitive advantage, as well as ensure compliance with data center industry standards.

An upgraded cabling network would support IDB’s need to quickly handle transactions to sustain high level of service for its stakeholders. As part of this requirement, the updated infrastructure needed to be seamlessly deployed as quickly as possible to avoid any service disruptions.

In addition, IDB wanted to reduce ongoing equipment cooling inefficiencies to provide improved thermal management and maximum energy efficiency to meet its data center requirements for years to come.

Finally, as the only Islamic multi-lateral development financial institution worldwide, IDB wanted the physical appearance of the facility to match its status among other similar multi-lateral development institutions and heighten its reputation as a strong industry leader, while impacting its stakeholders in a positive manner as they directly experienced business operations.
Achieving a Standardized Data Center Solution to Strengthen IT Services

The Panduit Unified Physical Infrastructure™ approach helps Islamic Development Bank deliver energy efficiency to increase network availability and reliability

Business Challenges

As a leading financial institution, IDB is committed to providing high-end services to member countries. To enhance responsiveness and communications with its member countries, the organization decided to upgrade its network infrastructure.

• Access
• Digital
• Security
• SAN
• Video

The primary challenge facing IDB was consolidating all IT infrastructure components in balance as data center capacity increased.

The stead rise of operational expenses (OpEx), to manage operational expenses (OpEx) and meet rising capacity and growth demands.

• panduit unified physical infrastructure

IDB also deployed Net-Accessory™ Intelligent Power Distribution Units (PDUs) to safely and efficiently manage and distribute power, allowing multiple pieces of equipment to share a single power connector and enhance sustainability of network build out.

The updated physical infrastructure enables IDB to respond to stakeholder demands quickly and easily, which increases productivity. The seamless transition resulted in a beautiful facility that serves to showcase IDB's expertise and technologies, quickly and easily, which increases productivity. The seamless transition resulted in a beautiful facility that serves to showcase IDB's expertise and technologies, quickly and easily, which increases productivity.

The scalable, flexible infrastructure allows for greater operational efficiency and the ability to sustain new systems for future growth.

According to Abdur-Rahman Husain, Technology Infrastructure Manager, "IDB is very satisfied with the upgraded system which allows for reduced risk based on more standardized, structured and controlled data center environment. Our once scattered network availability and reliability is now in a single hosting environment, the cabinets provide scalable thermal management along with cooling efficiency, and we are proud to showcase a world-class data center to our stakeholders."

The scalable, flexible infrastructure enables IDB to respond to stakeholder demands quickly and easily, which increases productivity. The seamless transition resulted in a beautiful facility that serves to showcase IDB's expertise and technologies, quickly and easily, which increases productivity.

Business Benefits

With the Panduit intelligent data center solution, IDB now has a system that integrates automated systems—communication, computing, power, control, and security—in a single, easy-to-manage network infrastructure. This approach gives the ability to support the demands for increasing bandwidth and ensure seamless scalability for future growth. The Panduit intelligent data center solution built on UIP principles, allowed IDB to minimize disruption to improve network reliability and simplify network management, achieving cost efficiency at a scalable, secure data center environment.

Panduit Solution

According to Mr. Naseef Alali, Senior Network and Communication Expert, IDB, "Panduit understood the unique challenges we were facing in our data center infrastructure. The Panduit intelligent data center solution helped us manage the integration of runway elements to ensure reduced risk and operational efficiency, proving to be the right match for our current and future needs."

The upgraded data center includes a total of 35 cabinets, four cabinets for network and communications equipment and eighteen cabinets for servers and storage. This new arrangement houses all equipment and unifies the cabinets and cabling, allowing for the efficient use of available, limited space.

Panduit Energy Efficient Net-Accessory™ Type S and Type T Cabinets form a seamless integration with the Panduit® Net-Compare™ Cold Aisle Containment (CAC) System and Vertical Exhaust Duct (VED) to enhance thermal efficiency across the data center. The cabinets consist of thermal components that maintain hot/cold as an expectation to improve cooling efficiency, which lowers cooling expenses for the cabinet. The Net-Compare™ Cold Aisle Containment (CAC) System prevents hot misrouting, thereby contributing to the overall effectiveness of the organization’s data center operations. The Net-Compare™ Vertical Exhaust Duct (VED) improves air return and minimizes heat reapportioning for improved performance, cooling efficiency, and network reliability.

IDB also deployed Net-Compare™ Intelligent Power Distribution Units (PDUs) to safely and efficiently manage and distribute power, allowing multiple pieces of equipment to share a single power connector and enhance sustainability of network build out.

The Panduit QuickNet™ Copper Cabling and Fiber Optic Cabling Systems address IDB’s need for rapid network deployment and reliability of its network performance. The solution is rounded out by the FiberRunner™ Routing System and Wyr-Grid® Overhead Cable Tray Routing System to improve cable routing and management for copper cables, fiber optic cables, and power cables, while minimizing installation time.

Panduit Unified Physical Infrastructure™ Approach

This Panduit Unified Physical Infrastructure™ (UPI) approach to design and development integrates critical systems—communication, computing, power, control, and security—in a single, easy-to-manage network infrastructure. This approach gives the ability to support the demands for increasing bandwidth and ensure seamless scalability for future growth. The Panduit intelligent data center solution built on UIP principles, allowed IDB to minimize disruption to improve network reliability and simplify network management, achieving cost efficiency at a scalable, secure data center environment.
Strategic Objectives

IDB wanted to implement a complete upgrade of its IT infrastructure, which would increase its business innovation and help maintain its competitive advantage, as well as ensure compliance with data center industry standards.

An upgraded cabling network would support IDB’s need to quickly handle transactions to sustain high level of service for its stakeholders. As part of this requirement, the updated infrastructure needed to be seamlessly deployed as quickly as possible to avoid any service disruptions.

In addition, IDB wanted to reduce ongoing equipment cooling inefficiencies to provide improved thermal management and maximum energy efficiency to meet its data center requirements for years to come.

Finally, as the only Islamic multi-lateral development financial institution worldwide, IDB wanted the physical appearance of the facility to match its status among other similar multi-lateral development institutions and heighten its reputation as a strong industry leader, while impacting its stakeholders in a positive manner as they directly experience business operations.

Real-World Solutions

With a proven reputation for excellence and innovation, Panduit and our partners work with you to overcome challenges and implement multi-domain 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 technology 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 support the project lifecycle, from planning and design to delivery, operation, and co-location. Panduit business partners include distributors, system architects, consultants, engineers, designers, system integrators, and contractors — all 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 worldwide. 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 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 Infrastructure approach to enable converged critical building systems to drive energy efficiency and ongoing operational improvement.
Achieving a Standardized Data Center Solution to Strengthen IT Services

The Panduit Unified Physical InfrastructureSM (UPI) approach helps Islamic Development Bank deliver energy efficiency to increase network availability and reliability

Business Challenges

As a leading financial institution, IDB is committed to providing high-end services to member countries. To enhance responsiveness and communications with its external stakeholders, it supports its business solutions and IT services and addresses the steady rise of operational expenses (OpEx). IDB deploys a Panduit intelligent data center solution to upgrade its network infrastructure.

This primary challenge focuses on consolidating all UPI components, maintaining operational systems, and maximizing the facility to implement the new data center environment.

As part of the upgrade, IDB needed to enable all services on a unified physical infrastructure, and provide a solid 10Gig and beyond backbone for: Data, Voice, Video Conferencing, Security, Signage, Access Control, and Building Management System (BMS).

This enhancement would allow IDB to accommodate increased hardware density and meet rising capacity and growth demands. In addition, the organization was experimenting inefficiencies in the cooling and electrical systems and needed to ensure that available cooling resources remained in balance as data center capacity increased.

Limited space above and below the cabinets made it difficult to deploy additional cable pathways. IDB needed to achieve efficient space utilization to increase scalability and allow enhanced safety and support.

Panduit Unified Physical InfrastructureSM Approach

The Panduit Unified Physical InfrastructureSM (UPI) approach to design and develop integrated physical systems—communication, computing, power, controls, and security—in a single, easy-to-scale network infrastructure. This approach gave IDB the ability to support the demand for increased bandwidth and ensure seamless scalability for future growth.

The Panduit intelligent data center solution built on UPI principles, allowed IDB to minimize downtime to increase network reliability and simply network management, achieving cost efficiency as a scalable, secure data center environment.

Panduit Solution

According to Mr. Nasir Iqbal, Senior Network and Communication Expert, IDB, “Panduit understood the unique challenges we were facing in our data center infrastructure. The Panduit intelligent data center solution helped us manage the integration of array elements to ensure minimal risk and operational efficiency, proving to be the right match for our current and future needs. This upgraded data center includes a total of 26 cabinets, four cabinets for network and communications equipment and eighteen cabinets for servers and storage. This new arrangement houses all equipment and unifies the cabinets and cabling, allowing for the efficient use of available, limited space.

Panduit Energy Efficient Net-Access®-type and S-Type Cabinets form a seamless integration with the Panduit® Net-Contain™ Cold Aisle Containment (CAC) System and Vertical Exhaust Duct (VED) to enhance thermal efficiency across the data center. The cabinets consist of thermal components that maintain fluidic air expansion to improve cooling efficiency, which lowers cooling expenses for IDB. The Net-Contain™ Cold-Aisle Containment System prevents hot-mixing inefficiencies, thereby contributing to the overall effectiveness of the organization’s data center operations. The Net-Contain™ Vertical Exhaust Duct (VED) improves air return and enables reduced hot-spot temperatures for improved performance, cooling efficiency, and network reliability.

IDB also deployed Net-Access® Intelligent Power Distribution Units (PDUs) to safely and efficiently manage and distribute power, allowing multiple pieces of equipment to share a single power connector and enhance scalability of network build outs.

The Panduit QuickNet™ Copper Cabling and Fiber Optic Cabling Systems address IDB’s need for rapid network deployment and reliability of its network performance.

The solution is rounded out by the FiberRunner® Routing System and Wyr-Grid® Overhead Cable Tray System to improve cable routing and management for copper data cables, fiber optic cables, and power cables, while minimizing installation time.

Business Benefits

With the Panduit intelligent data center solution, IDB now has a system that integrates simplified cabling for increased reliability and availability of IT solutions and services. The scalable, flexible infrastructure allows for greater operational efficiency and the agility to sustain new systems for future growth.

According to Abdur-Rahman Husain, Technology Infrastructure Manager, "IDB is very satisfied with the upgraded system which allows for reduced risk based on an more standardized, structured and controlled data center environment. Our once scattered IT equipment is now in a single hosting environment, the cabinets provide scalable thermal management along with cooling efficiency, and we are proud to showcase a world-class data center to our stakeholders."

The Panduit physical infrastructure enables IDB to respond to stakeholder demand quickly and easily, which increases productivity. The seamless transition resulted in a beautiful facility that serves to showcase IDB’s expertise and technologies, positively impacting its stakeholders through an enhanced corporate image.
Achieving a Standardized Data Center Solution to Strengthen IT Services

The Panduit Unified Physical Infrastructure™ approach helps Islamic Development Bank deliver energy efficiency to increase network availability and reliability.

Business Challenges

As a leading financial institution, IDB is committed to providing high-end services to member countries. To enhance interoperability and communications with the external stakeholders, support its business solutions and IT services, and address the steady rise of operational expenses (OpEx), Islamic Development Bank wanted to upgrade its network infrastructure. This primary challenge was to ensure the efficient use of available, limited space. Panduit’s Unified Physical Infrastructure™ approach helps us manage the integration of all key elements to ensure reduced risk and operational efficiency, proving to be the right match for our current and future needs.

Business Benefits

Panduit Solutions

• Building Management System (BMS)
• Unified Physical InfrastructureSM (UPI)
• Panduit® Net-Contain™ Cold Aisle Containment (CAC) System and Vertical Exhaust Dust Exhaust (VED) to enhance thermal efficiency across the data center
• Panduit Energy Efficient Net-Access™ “To-Types” and 6 “To-Types” Cables from a seamless integration with the Panduit® Net-Contain™ Cold Aisle Containment (CAC) System and Vertical Exhaust Dust (VED) to enhance thermal efficiency across the data center
• Net-Access™ Intelligent Power Distribution Units (PDUs) to safely and efficiently manage and distribute power, allowing multiple pieces of equipment to share a single power connector and enhance scalability of network build outs.

The Panduit Unified Physical Infrastructure™ approach helps us manage the integration of all key elements to ensure reduced risk and operational efficiency, proving to be the right match for our current and future needs.

Panduit Unified Physical Infrastructure™ Approach

This Panduit Unified Physical Infrastructure™ (UPI) approach to design and development integrates critical systems – communication, computing, power, control, and security – in a single, easy-to-manage network infrastructure. This approach gives IDB the ability to support the demand for increasing bandwidth and ensure seamless scalability for future growth. The Panduit intelligent data center solution built on UPI principles, allowed IDB to minimize disruption to increase network reliability and simplify network management, achieving cost efficiency as a scalable, secure data center environment.

Panduit Solution

According to Mr. Nasir Iqbal, Senior Network and Communication Expert, IDB, “Panduit understood the unique challenges we were facing in our data center infrastructure. The Panduit intelligent data center solution helped us manage the integration of key elements to ensure reduced risk and operational efficiency, proving to be the right match for our current and future needs.”

The upgraded data center includes a total of 22 cabinets, four cabinets for network and communications equipment and eighteen cabinets for servers and storage. This new arrangement houses all equipment and unifies the cabinets and cabling, allowing for the efficient use of available, limited space.

Panduit Energy Efficient Net-Access™ “To-Types” and 6 “To-Types” Cables from a seamless integration with the Panduit® Net-Contain™ Cold Aisle Containment (CAC) System and Vertical Exhaust Dust (VED) to enhance thermal efficiency across the data center. The cabinets consist of thermal components that maintain internal air expansion to improve cooling efficiency, which lowers cooling expenses for IDB. The Net-Contain™ Cold Aisle Containment (CAC) System prevents hot air recirculation, thereby contributing to the overall effectiveness of the organization’s data center operations. The Net-Contain™ Vertical Exhaust Dust (VED) improves air return and enables reduced fan backpressure for improved performance, cooling efficiency, and network reliability. IDB also deployed Net-Access™ Intelligent Power Distribution Units (PDUs) to safely and efficiently manage and distribute power, allowing multiple pieces of equipment to share a single power connector and enhance scalability of network build outs.

Unified Physical Infrastructure

* Visit www.panduit.com/datacenter

Business Benefits

With the Panduit intelligent data center solution, IDB now has a system that initializes exponential outcomes for increased reliability and availability of IT solutions and services. The scalable, flexible infrastructure allows for greater operational efficiency and the agility to sustain new systems for future growth. According to Abdur-Rahman Husain, Technology Infrastructure Manager, “IDB is very satisfied with the upgraded system which allows for reduced risk based on more standardized, structured and controlled data center environment. Our once scattered IT equipment is now in a single hosting environment, the cabinets provide scalable thermal management along with cooling efficiency, and we are proud to showcase a world-class data center to our stakeholders.”

The unified physical infrastructure enables IDB to respond to stakeholder demands quickly and easily, which increases productivity. The seamless transition resulted in a beautiful facility that serves to showcase IDB’s expertise and technologies, positively impacting its stakeholders through an enhanced corporate brand.
Established in 1973, the Islamic Development Bank (IDB) is an international financial institution that fosters economic development and social progress of member countries and Muslim communities in non-Member countries. The Bank's current membership consists of 56 countries.

The main function of IDB is to participate in equity capital and grant loans for productive projects and enterprises, providing financial assistance for economic and social development, promoting trade and investment and enhancing the role of Islamic finance in member countries.

The principal office of IDB is located in Jeddah, Saudi Arabia with four regional offices in Rabat, Morocco, Kuala Lumpur, Malaysia, Almaty, Kazakhstan and Dakar, Senegal.

Strategic Objectives
IDB wanted to implement a complete upgrade of its IT infrastructure, which would increase its business innovation and help maintain its competitive advantage, as well as ensure compliance with data center industry standards.

An upgraded cabling network would support IDB’s need to quickly handle transactions to sustain high levels of service for its stakeholders. As part of this requirement, the updated infrastructure needed to be seamlessly deployed as quickly as possible to avoid any service disruptions.

In addition, IDB wanted to reduce ongoing equipment cooling inefficiencies to provide improved thermal management and maximum energy efficiency to meet its data center requirements for years to come.

Finally, as the only Islamic multilateral development financial institution worldwide, IDB wanted the physical appearance of the facility to match its status among other multilateral development institutions and heighten its reputation as a strong industry leader, while impacting its stakeholders in a positive manner as they directly experienced business operations.

Real-World Solutions
With a proven reputation for excellence and innovation, Panduit and our 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 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 support. Panduit business partners - distributors, and select 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 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 timely delivery to any worldwide destination.

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

About Islamic Development Bank
Established in 1973, the Islamic Development Bank (IDB) is an international financial institution that fosters economic development and social progress of member countries and Muslim communities in non-Member countries. The Bank’s current membership consists of 56 countries.

The main function of IDB is to participate in equity capital and grant loans for productive projects and enterprises, providing financial assistance for economic and social development, promoting trade and investment and enhancing the role of Islamic finance in non-Muslim countries.

The principal office of IDB is located in Jeddah, Saudi Arabia with four regional offices in Rabat, Morocco, Kuala Lumpur, Malaysia, Almaty, Kazakhstan and Dakar, Senegal.