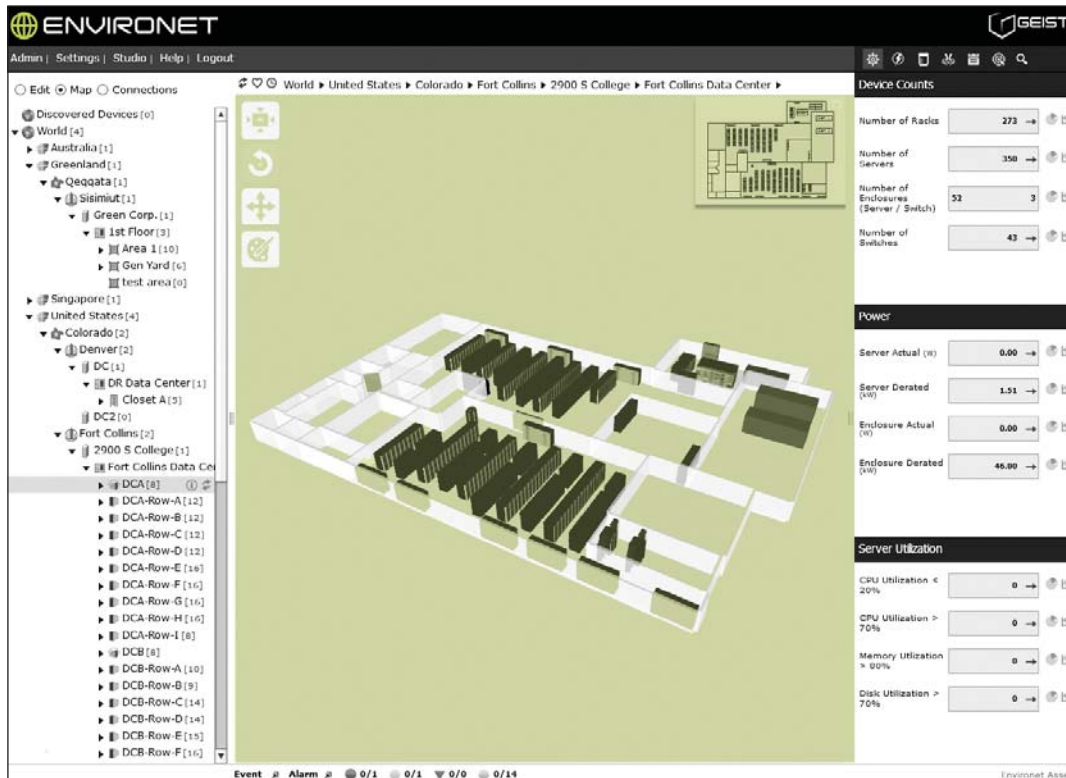


GEIST

Future Thinking • Solutions Today



DCIM CASE STUDIES



GEIST
DCIM | Environet

About Geist

Geist designs and manufactures industry leading technology and software for powering, monitoring, cooling and managing critical data center infrastructure. We produce affordable, quality products while providing our clients with superior service. Whether it's enhancing customer care services or implementing new technologies, Geist promotes innovation, quality and satisfaction in all aspects of business.

877.449.4150 | geistglobal.com

Case Studies

UC Health	2
Volkswagen	4
LightBound	6
Hosting	8
BCD Travel	10
GameStop	12
Expedient	14
Cosentry	16

UC Health selects Environet Facility[®] to monitor IT Equipment

Two Locations

(2) Ohio

Managed Points

75 Devices

Purpose

To consolidate multiple monitoring systems into a single holistic view of the data center while receiving real-time notifications for critical IT equipment.



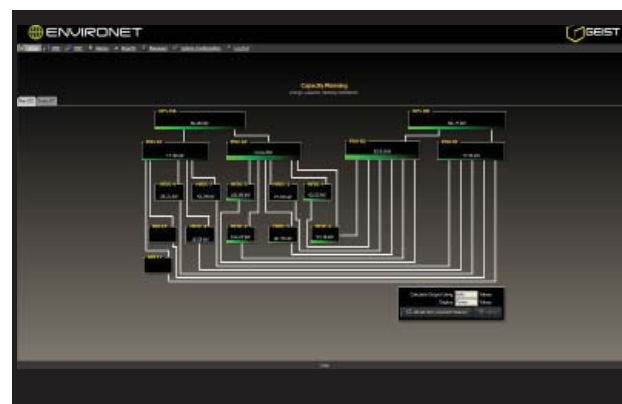
UC Health brings together the region's top clinicians and researchers to provide world-class healthcare to the Cincinnati community and beyond. From their flagship University of Cincinnati Medical Center to the state-of-the-art West Chester Hospital, UC Health delivers the absolute best in treatment and care. Continually recognized for excellence and backed by the academic strength of the University of Cincinnati, one of the nation's top 25 public research universities, UC Health is revolutionizing the way in which discovery driven care is delivered. Because their physicians are teachers and researchers at the University Of Cincinnati College Of Medicine, they are able to provide patients with high quality and innovative medical treatment and care.

Working in a healthcare environment, the reliability of critical IT equipment is paramount and the ability of the IT department to identify, isolate and correct any equipment failures is vital. This is what led Matt Kilgus, Data Center Manager, to start researching DCIM solutions that would work for the organization. After researching different DCIM vendors, Matt created a shortlist of key criteria when evaluating different solutions which included: overall price, number of devices that can be monitored and notification capability. "When I met with the representative from Geist I felt their solution met our needs. Their prices were fair and they offered personalized service. I didn't feel like a number."

Working Partners

Once UC Health confirmed their selection of Environet[®] as their DCIM solution, Geist worked closely with them during the planning and build stages to ensure the system was set up to meet their specific requirements. "I was very impressed with Geist," said Matt. "They sent out a design engineer and assigned a project manager for the planning and build process. They also sent qualified installers to set up the system and then a trainer to teach me how to use it."

In addition to the planning and build stages, Geist is committed to its customers in the long-term. With a professional and highly trained staff, Geist is ready to respond to a customer's needs on a moment's notice. In regards to UC Health, Matt explains, "Geist is very supportive and responsive if we need to call on them for assistance." Geist understands that the key to a successful DCIM installation is a working partnership between the provider and user.



“ I appreciated the fact that Geist provides very personalized service, I didn’t feel like a number. Their prices were fair and the solution fit our needs. ”

Accessible and Reliable

While looking for a DCIM solution, Matt kept in mind that he did not have a single access point for his data center, limiting his team’s responsiveness to potential problems. “Being able to monitor and receive notifications on equipment failure is huge,” said Matt. “We had been using a hodge-podge of different devices monitoring different things, but it wasn’t giving us a complete overview and it was still difficult for us to react to failures quickly.” Now that UC Health uses Environet asset, all of the data center monitoring and alarming information is in one, simple program.

The Environet Facility single access point also cuts back on human error. Matt points out, “We were dependent on humans to send out notifications and this wasn’t fool proof.” When problems occur now, Environet sends out automated alarms to the right people depending on the alarm and situation. Matt is able to change who the notifications go to, allowing UC health maximum efficiency in their data center. Environet Facility is the perfect tool for Matt, consolidating his information in an accessible and reliable manner.



Prioritizing Alarms

Now that the installation is complete, Matt and his team can monitor all of the critical equipment on the network from one easy access point. “There are numerous features that we benefit from,” said Matt. “The key benefit is receiving alerts. Being able to drill down to the equipment that alarmed and see the status of that device allows us to prioritize alarms. We can see if the alarm is something serious, something that can wait or just a network issue. This has saved us money when previously we would have dispatched someone to check out the alarm.”

UC Health used Environet Facility to meet their data center solution problems. Matt’s team is able to receive critical alarm notifications which allow the data center to run as efficiently as possible. The Environet Facility solution matched well with UC Health’s needs, and is being used to reduce costs and increase efficiency in their Health network. “I am delighted with the solution and am considering rolling it out to another UC Health site in the near future.” says Matt.

Volkswagen uses Environet Facility® to monitor data centers 24/7

Two Locations

Michigan

Ontario

Managed Points

33 IT Rooms

Purpose

To monitor data center assets and reduce the length of business interruptions by immediately alerting as issues arise.



Volkswagen Group of America, Inc. is a wholly owned subsidiary of Volkswagen AG, one of the world's leading automobile manufacturers and the largest carmaker in Europe. With a worldwide family of distinguished brands including Audi, Bentley, Bugatti, Lamborghini and Volkswagen, the global company provides exciting automobile options to customers around the world.

The U.S. operations include a manufacturing plant in Chattanooga, Tennessee, and the management of North American Volkswagen business. Volkswagen Group of America, Inc. has two data centers in North America, along with 55 remote IT rooms.

Before Environet Facility, Volkswagen didn't have a practical way to monitor and alert on critical assets in its data centers or remote sites. This is why Ed Dimberger, IT Facilities Manager at Volkswagen Group of America, Inc., decided to research and install DCIM software. "There wasn't much in place to track or monitor assets in the data center or remote sites. We had limited network monitoring into our remote site environment," Ed explains.

Ed's main criteria for selecting a DCIM system included a solution that is scalable and simple to use. Geist DCIM worked hand-in-hand with Volkswagen to produce a solution that met all of their data center needs.



Enterprise Visualization

With two data centers and numerous IT rooms across North America, it became difficult to monitor and manage all of the systems. Environet Facility takes key information from each data center and IT room and consolidates it into one, easy-to-use interface. The system provides a variety of metrics and presents them in a powerful and useful manner.

Ed says "One of the most helpful features of Environet is the central dashboard that displays health checks of all North American Sites." This popular feature gives an at-a-glance view of how the data centers are running and shows devices that are in alert or alarm status. This is also useful for Volkswagen's IT rooms, since most are remotely monitored and could face serious problems if potential issues are not discovered and corrected.

“Environet gives us the ability to monitor the sites remotely for UPS status, temperature, and leak detection 24/7/365 and respond immediately to a situation.”

Equipment Monitoring

When looking at DCIM solutions, Volkswagen needed a comprehensive monitoring system. With IT rooms in various locations, it was important for their team to be able monitor the rooms externally in a safe and reliable manner. Prior to installing DCIM, Volkswagen used a variety of management programs to monitor their equipment. A key benefit of Environet Facility is the ability to bring disparate monitoring systems together. Consolidating the information into a single interface reduces both human error and response time.

One critical monitoring point for Volkswagen is temperature. Environet Facility provides thermographic views to show where the temperature changes occur. Along with the real-time visuals, the system will also alarm if a potential problem arises. Besides temperature readings, Volkswagen uses Environet to monitor UPS status, leak detection, and IP cameras.



Immediate Action

Volkswagen faced response-time concerns prior to implementing Environet Facility. Without a reliable notification system, the possibility of problems going undiscovered when employees weren't present became apparent. One key reason Volkswagen decided to implement Environet Facility was to add the ability to respond quicker to incidents and reduce the impact to business operations. Ed explains, “A remote site would go offline due to a power outage or water leak and IT wouldn't know about it until the user returned to the office. This caused several business interruptions.”

Environet Facility now provides 24/7 monitoring and alerting in the Volkswagen data centers and IT rooms. The system immediately notifies the data center team if there is a potential issue, ensuring that staff are up to date with data center alerts and alarms. Each monitoring point has six unique alarm levels, which allows for notifications to be sent to different individuals based on the alarm settings. Environet Facility permits users to remotely access the system to acknowledge alarms, so the Volkswagen team doesn't always need to be in the office to manage the system. Ed says the notification system is especially helpful because Environet Facility detects problems before other monitoring tools.

Geist DCIM is committed to providing reliable, cost efficient DCIM solutions to customers around the world. It is important that Volkswagen's customers are never negatively affected by a data center or IT room incident and implementing Environet Facility has helped make this a reality. Ed says he plans to include Environet Facility in all new IT room projects.

Environet Helps LightBound Deliver Even More to Their Customers

One Location

Indiana

Managed Points

Over 8,000 points

Over 150 devices

Purpose

To design a data center management system that is intuitive for new users, vendor neutral and easily expandable.



Established in 1994 as an Internet Service Provider, LightBound provides clients with a unique mixture of quality customer service, industry experience and state-of-the-art technology. As one of Indiana's largest privately held colocation facilities, LightBound offers customers a robust set of solutions including managed services, disaster recovery, data backup and cloud computing. LightBound's data centers implement only the best technology for monitoring, management and cooling.

Most recently, LightBound implemented an Environet infrastructure management system. According to LightBound's Data Center Manager, Dan Allen, LightBound's criteria for selecting a monitoring system was "intuitiveness, product compatibility, scalability and support." Environet's intuitive Web-based interface decreased the training time needed for employees and made the system accessible from remote locations, which means faster response time if an event occurs.

An Easy Choice

Investing in Environet was an easy choice for LightBound, "Environet was an easy sell for us; it was not just a graphical front end that was bolted onto our equipment. We immediately recognized that it was built from the ground up as an end-to-end solution specifically geared toward data centers," Allen explains.

The graphical floor plans were especially helpful for LightBound, specifically the thermographic view. Environet's thermographic view incorporates temperature data from the probes mounted on the ceiling of LightBound's data center. The data is then displayed through Environet using gradient color coding over scaled floor plans creating a real time depiction of data center temperatures. In addition, Environet monitors the temperature data for unsafe highs and lows and sends immediate notification if one occurs. All these features allow LightBound to visualize hot spots in the data center and proactively manage their state-of-the-art cooling system.

According to Allen, a primary function that LightBound needed from a management system was to "quickly identify problem areas or status of any equipment in our facility despite where it is throughout the building." Environet's vendor neutral capability helped meet this requirement. Environet's ability to communicate with third party equipment meant no costly integration and equipment replacement costs. LightBound was able to connect and detect alarms with data center equipment throughout the facility regardless of manufacturer.

“The project was truly a collaboration as LightBound introduced new philosophies and technologies to the Geist portfolio. The integration of Environet brought new features, views, and metrics that should be considered by all data center operators.”

A True Collaboration

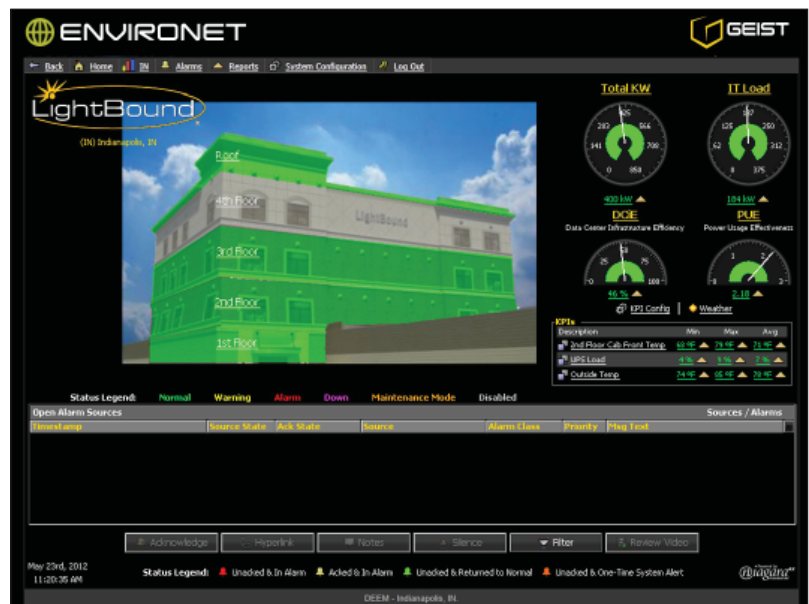
Working with LightBound proved beneficial for everyone involved. Director of Channel Sales, Steve Lewis, explains, “The project was truly a collaboration as LightBound introduced new philosophies and technologies to the Geist portfolio. The integration of Environet brought new features, views and metrics that should be considered by all data center operators.”

LightBound's dedication to providing their customers with premium service played a major role in the decision to implement Environet. The functionality of the Environet system meant that their customers would have comprehensive management for their data. Efficient alarm notification was imperative for the facility. According to Allen, “We recognized that our new facility would be highly visible with the customers we were bringing online. Having the ability to spot trouble quickly with any system was very important to us.” With Environet's alarm notification and escalations, LightBound can receive status updates in real time through the system via email, SMS, or even phone.

What truly sets LightBound apart is their focus on customer service. LightBound provides exceptional customer care and remains a highly customer focused company. With LightBound's emphasis on customer service it makes sense that they would appreciate another company with similar values. Geist focuses on serving the needs of each customer, which was a key benefit in LightBound's partnership with Environet. Lewis notes, “This new partnership is one that will continue to grow as we innovate and develop a solution that not only meets the needs of LightBound, but their clients as well.”

LightBound couldn't agree more. Throughout the entire process, LightBound received excellent care from Geist. “The support staff has been a delight to work with every time. I simply state my problem or request and they jump on it right away, I spend very little time having to explain what I'm trying to accomplish,” says Allen.

LightBound is extremely pleased with the results yielded from the first deployment of Environet in their data centers. This immediate success has led LightBound to pursue placing Environet in each of its data centers. “We are already making arrangement to add Environet to our legacy buildings in the very near future. Environet made such a positive impact on us; we have to have it now in every facility,” Allen explains.



Environet Gives Hosting™ the Flexibility They Need

Five Locations

- (1) Colorado (1) New Jersey
- (2) California (1) Kentucky

Managed Points

- Over 13,000 points
- Over 175 devices

Purpose

To design and implement a multiple site, critical facilities infrastructure monitoring system that allows the end user to remotely view and manage multiple sites from one 'pane of glass,' or single Web browser session.



HOSTING™
TAKING YOU FURTHER



Being responsible for the uptime of over 65,000 Web sites is no easy feat—and it's a responsibility that Hosting takes seriously. Established in 1997, Hosting provides hybrid hosting solutions, enterprise colocation, cloud and dedicated hosting, managed hosting, disaster recovery and business continuity services to a global customer base.

For over 13 years Hosting has experienced steady growth primarily due to their commitment to quality service and strong word of mouth. This growth has resulted in the company expanding their hosting services to five data centers nationwide. With this expansion came the need for consistency. Hosting Data Center Facilities Director, Roman Flom, explains, "Company growth dictated the need to standardize on a single scalable platform that would allow our global NOC to monitor all of our locations using one interface." However, having five different data centers in four states across the nation meant Hosting had some challenging requirements for their global NOC.

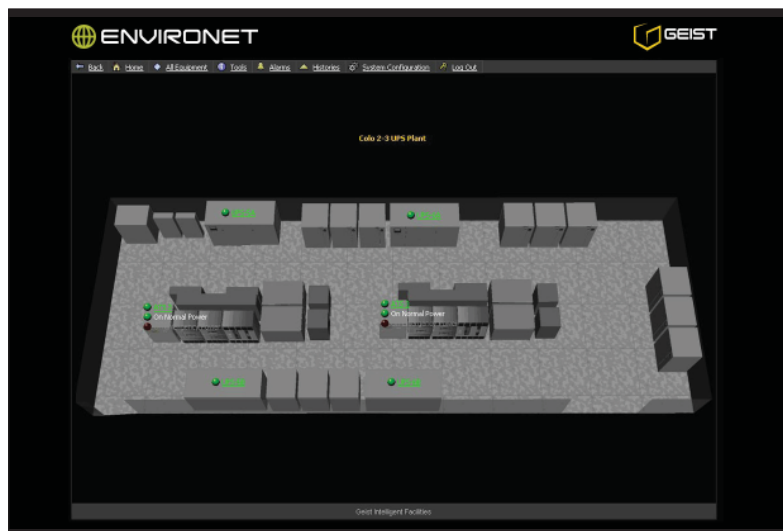
Staying Neutral

Hosting employs a diverse set of technologies from a number of equipment manufacturers. Finding a monitoring system that could successfully integrate different communication protocols was essential. Environet's vendor neutral platform allowed Hosting to integrate with their current technologies. Flom explains, "Communication types had both economic

and operative perspectives in this decision making process." The Environet system allows Hosting to use current equipment from a number of manufacturers without suffering the cost of equipment replacement. This vendor flexibility also allows Hosting to pick and choose equipment based on their needs rather than the system's needs. Environet gives them the freedom to choose the best technology for their data centers without compromising the quality of service they provide to their customers.

Intuitive Interface

With any technology, there is a learning curve. The quicker users can learn how to properly and



“The technicians and the project manager were clearly experienced professionals and demonstrated a real personal interest in making sure we were satisfied with the system in its full scope.”

efficiently use a technology, the faster that technology becomes valuable. An intuitive, easy-to-use interface decreases the need for extensive—and often times costly—staff training. “We wanted a simple to understand user interface,” said Flom, “The Environet interface was the most intuitive of the platforms we evaluated.” The drop down menus and icon-based interface made it easy for Hosting employees to navigate the system. In addition, the graphical layout and visual representations of data such as temperature, alerts and energy usage makes recognizing problem areas fast and efficient.

Deployment Cost

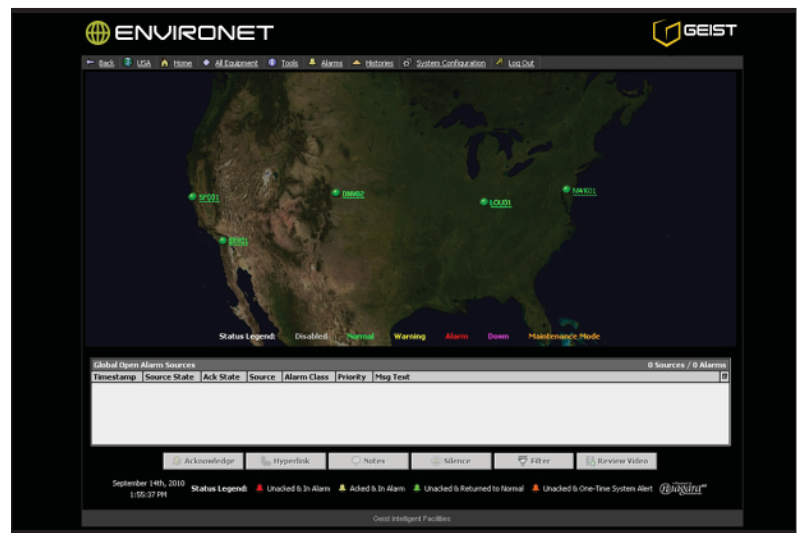
Installation costs for five data center sites can get expensive—quickly. Between technicians' time, travel costs, hardware purchases, and other expenses, deployment cost is an important factor when choosing a monitoring system. According to Flom, “Deployment cost was a significant factor. We conducted an extensive pricing exercise and Environet was consistently presented as the more competitive solution both for initial deployment and incremental growth costs.” Not only is Environet competitively priced for deployment, but it also has a fast return on investment. With features like Power Capacity Planning and the CRAC Sequencer, Environet provides a number of ways to decrease operational cost while increasing data center efficiency.

Only the Best

Hosting knows quality service. As a company, it guarantees that all representatives are extensively trained in both the technical aspects of hosting solutions as well as customer service. They uphold superior standards for their customer relations which is why they have been able to rely on word of mouth and referrals to grow their business. Even with such high customer service standards, the Geist DCIM team was able to meet and surpass expectations.

“The technicians and the project manager we worked with during the implementation were clearly experienced professionals and demonstrated a real personal interest in making sure we were satisfied with the system in its full scope.” Flom continues, “Further, our project manager was always accessible and eager to answer questions or make adjustments during the course of the project – considering the complexity of tying together multiple sites with varied equipment platforms this was reassuring.”

Geist DCIM satisfied Hosting's numerous requirements. Environet monitors each Hosting facility while also providing a centralized monitoring platform that gives Hosting accurate, real-time visibility of all five data centers. And with a relationship that reflects the high standards and quality service of both companies, Hosting says it's sure to expand its Environet system as it continues to grow.



BCD Travel Finds a Solution with Environet

28 Locations

(2) Georgia (1) Missouri
(1) Florida (23) Remote Locations
(1) Costa Rica

Managed Points

Over 22,000 points
Over 400 devices

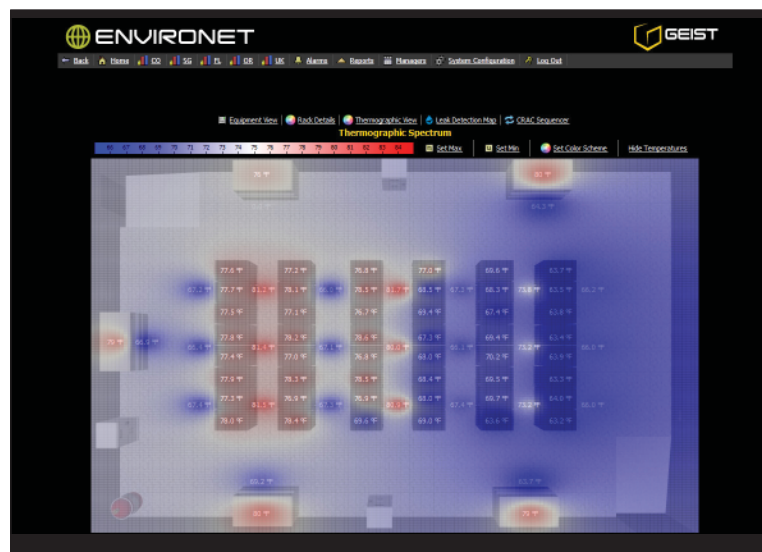
Purpose

To implement a proactive monitoring system capable of trending data and integrating with multiple communication protocols while maintaining a visually pleasing and intuitive user interface.



For more than 30 years, BCD Travel has been a recognized leader in providing travel services in a variety of industries. With more than 13,000 professionals focusing on quality travel management, BCD Travel boasts a proven track record of superior service with a 95% client retention rate. With core services including travel management, meeting management, and travel industry consulting, BCD Travel is known for their empowered management practices, customer customization, and partnership approach to business.

Automated tools and processes ensure that travel agents focus on service delivery—not complex booking procedures. BCD Travel implements online booking tools and continually improves online adoption, centralized support, operational excellence and workflow technologies to provide superior performance across borders. To maintain the quality service their clients have come to expect, BCD Travel relies on the upkeep of numerous data centers spanning multiple continents.



A New Addition

In 2008, BCD Travel decided to expand its data centers in North America by building a new data center in Atlanta, Georgia. To monitor this data center, BCD Travel needed a highly reliable, comprehensive system. Previously, the company's data centers employed rudimentary monitoring systems that used analog signals such as temperature and humidity as well as dry contacts for status of equipment.

Director of Data Center Operations, Tom Dileo says, "We began to search for a comprehensive product suite that would integrate with our new infrastructure through multiple protocols such as SNMP, Modbus, LONworks, etc. We also required a friendly Web-

“There is so much flexibility in the product’s ability to store data, warn, and alarm. These features allow us to perform trend analysis and to be proactive rather than reactive in monitoring growth.”

based graphical interface which would present a clear view of the status of our entire infrastructure.” Implementing a system that monitored their new data center efficiently, accurately and comprehensively was imperative.

Dileo recalls that, “[BCD Travel’s] selection of Geist’s Environet solution was made based on the integration capabilities, intuitive interface and for the company’s genuine desire to work with us to customize a solution based upon our needs, wants and desires.”

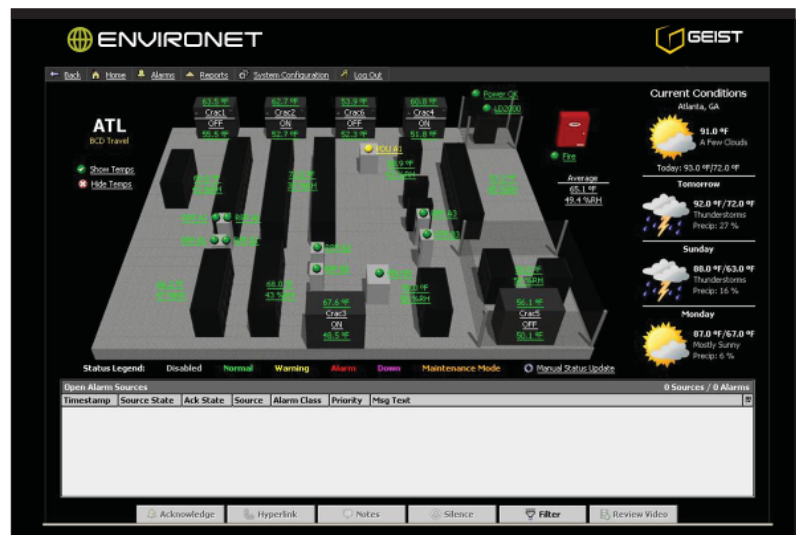
Flexible Monitoring

After implementing Environet, BCD Travel was impressed by the flexibility of the comprehensive system. “There is so much flexibility in the product’s ability to store data, warn and alarm. These features allow us to perform trend analysis and to be proactive rather than reactive in monitoring growth,” Dileo notes.

The customization of the system allowed BCD Travel to make adjustments based on their needs. “I asked for an automated way to start/stop our individual HVAC units based on defined temperature thresholds. The team delivered this request without any hesitation or trouble,” says Dileo.

In addition to meeting BCD Travel’s customization and integration needs, Environet’s automated start/stop function for the HVAC system started showing a return on investment almost immediately. In just over a year, employing the automated CRAC Manager has decreased the six CRAC unit’s run time by approximately 20%. That translates into an annual savings of over \$23,000—and that’s just one of many ROI measures.

Not only did Geist provide a quality product and fast ROI, but working with the Geist team was an exceptional experience. “I consider our relationship with Geist a true partnership. They have been there for us right from the start, from design phase to providing a comprehensive solution at a reasonable price point.”



Environet and GameStop: A Win/Win Partnership

Ten Locations

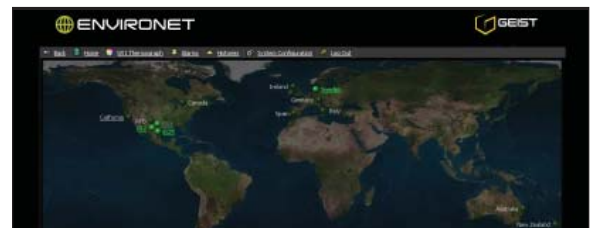
(1) Australia	(2) Mexico	(1) Germany
(1) Canada	(1) Sweden	(2) United States
(2) Italy		

Managed Points

Over 12,500 points
Over 75 devices

Purpose

To implement a centralized monitoring system that is globally accessible, seamless to integrate, and easy for new users to learn.

How does the world's largest video-game retailer stay on top of its game? With more than 6,100 brick-and-mortar stores throughout 18 countries, an international Web site (GameStop.com), and a top ecommerce Web site for games (EBgames.com), GameStop faced a global challenge: How to effectively monitor the multifaceted divisions of its company without compromising security and reliability. To tackle this challenge, GameStop joined forces with Environet from Geist DCIM.

Like most companies today, GameStop supports its multitude of retail stores through regional head offices. Any one of these offices might be responsible for as many as 300 or more retail locations. Each regional office maintains its own Information Technology (IT) infrastructure to support sales, customer service and communications within its stores. The equipment, facilities and capabilities in each office vary depending on several factors:

Location: Environmental influences are major players in data center operations. An office in Australia might face challenges to keep equipment cool, whereas an office in Ireland might be concerned with humidity. In addition, some locations might face greater security concerns than others.

Workload: Hosting IT services for a multitude of individual branch locations requires the flexibility and scalability to handle the varied needs of those locations. While one region might add branch locations more quickly than others, another region may have to process more traffic. GameStop classifies its regional offices' IT facilities in three categories based on the level of each facility's IT support.

Staffing: GameStop's regional offices run lean with minimal personnel, so efficiency is mandatory. The offices aren't open 24/7, so issues that might crop up during evening or weekend hours, such as power failures, floods or security breaches, can be detrimental.

This final factor was the starting point for GameStop's partnership with Geist DCIM. GameStop wanted to implement a centralized monitoring system, based in its global operations center, which is open around the clock. That way, GameStop could head off problems such as water damage, equipment damage or security lapses that might otherwise result from after-hours events such as flooding or power failures at a branch location. As GameStop's Senior Operations Manager, Justin Newcom's challenge was finding a way to support all of the company's locations without disrupting individual office operations or burdening individual offices through additional IT demands.

“It’s a phenomenal product, able to scale quickly and easily, and priced well. When we work with global projects we want to make it as easy as we can.”

Finding Global Solutions

GameStop’s goal was twofold (1) give GameStop the ability to manage its regional facilities by providing granular, robust notification and alarm systems that respond quickly, (2) implement a centralized monitoring system that works with existing equipment. “We don’t want to impose (on the regional offices),” Newcom explains. “We want to snap in what will help the most, which can be immensely different environmentally. Some offices already have security or cooling set up, so adaptability is important.”

Geist DCIM began by helping GameStop implement its Environet monitoring system at the retailer’s corporate data center. Using Environet, GameStop’s corporate IT can now monitor each region’s IT facility temperature, humidity, security, battery backup, and more for complete operational insight. According to Newcom, two factors played into GameStop’s decision to select Environet.

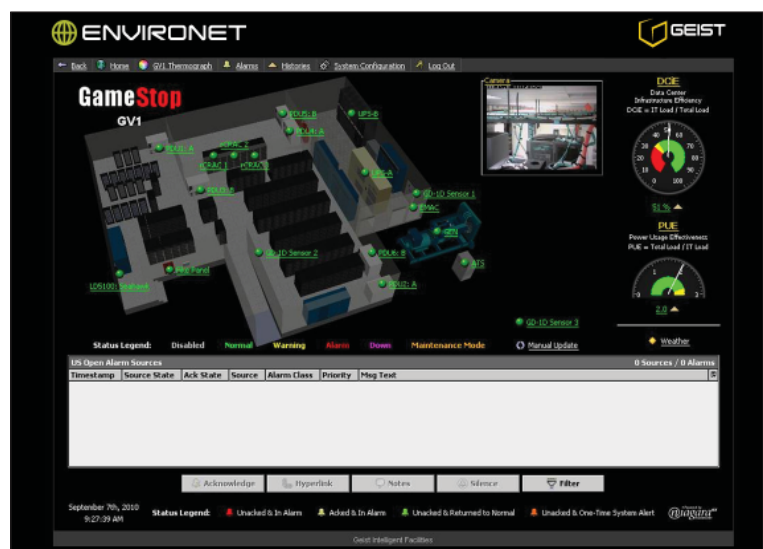
“One, we like the interface—the way it shows the datacenter layout, the simple red light/green light methodology,” he says. “Two, the solution is very scalable. We have Environet, and we hook in our other facility management systems, which give us information from the remote offices, and now we have a single pane of glass out to the other locations from our main system. We can then expand at our own pace.” GameStop is already making plans to install additional Environet systems in its regional offices.

Increasing Efficiency

Newcom plans to use Environet to help the company become even more efficient. Additional measurements such as data center infrastructure efficiency (DCIE) and power usage effectiveness (PUE) will be added so that GameStop can calculate costs from the facility level down to the server-cabinet level. The company can then use these calculations to realistically estimate the cost of projects, such as virtualization.

Newcom is pleased that Environet gives GameStop the ability to show all types of Return on Investment (ROI) and hardware costs. And he appreciates the first-rate customer service. Working with Geist DCIM is “more of a partnership,” he states. “They’re easy to contact and easy to work with. We run ideas by them, and they respond right away.”

As for the Environet solution: “It’s a phenomenal product, able to scale quickly and easily, and priced well. When we work with global projects we want to make it as easy as we can.”



Expedient Chooses Environet

Nine Locations

- (1) Massachusetts
- (2) Maryland
- (2) Pennsylvania
- (1) Indianapolis
- (3) Ohio

Managed Points

Over 84,500 points
Over 400 devices

Purpose

To implement a cost effective monitoring system that is scalable and easy to deploy.



Expedient and its affiliates operate a national network of eight data centers located in Baltimore, Boston, Cleveland, Indianapolis, Pittsburgh and Columbus. The company boasts thousands of nationwide clients who use Expedient's secure and redundant data center facilities to fully manage their networks' critical applications.

Expedient also offers an array of fully managed network hosting services including Managed Backup for disaster recovery and Colocation Hosting. Backing up this management functionality is a powerful, extensive, award-winning Ethernet network. Equipment and facility monitoring can be crucial to round-the-clock operations at Expedient's multiple data centers. According to Ken Hill, Expedient's vice president of technical operations, equipment and facility monitoring is essential to his company.

"Our customers rely on our organization to provide reliable data-center services at all times," explains Hill. "It is imperative that we have in-depth visibility of our infrastructure systems and elements to ensure that we detect and resolve problems in a proactive and timely manner."



What Led Expedient to Environet?

Says Hill: "We had experience with several monitoring systems, and Environet was scalable, cost effective and relatively easy to deploy. The functionality surpassed other devices that we evaluated." Since making the decision to invest in Environet, Expedient has deployed its products in six of its eight data centers. Expedient uses Environet to monitor leak detection, BCMs, UPSs, generators, HVACs, switchgear, ATSS, humidity, wireless temperature systems, and more.

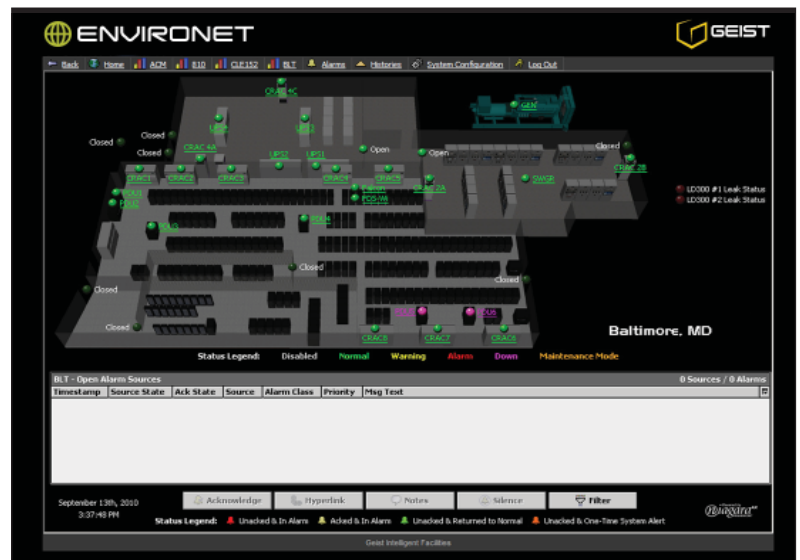
“The support staff have been excellent to work with over the past few years. Geist DCIM has a good understanding of our business, and they have been able to work with us to find technical solutions to meet our needs.”

Expedient benefits from Environet in a number of ways. According to Hill, “Environet provides us with the ability to monitor and measure power consumption and watt densities within our data centers ... the product reduced our cabling costs and gave us flexibility with the placement of sensors. For example, the wireless temperature and humidity sensors can be placed anywhere within the facility in minutes. If we have a specific area of concern, we can install a sensor and collect environmental information immediately.”

Expedient replaced its previous monitoring system with Environet. Expedient has been extremely pleased with this solution. Initially, Expedient needed to integrate more temperature monitoring at its sites, but as the company learned more about Environet, its needs and scope began to steadily increase.

“Environet allows us to add modular components to meet our needs as we grow,” Hill says. “Some of the competing products carried a higher initial cost that consumed additional capital resources up front.”

“The support staff has been excellent to work with over the past few years,” Hill says. “Geist DCIM has a good understanding of our business, and they have been able to work with us to find technical solutions to meet our needs.”



Cosentry is Covered with Environet

Three Locations

Nebraska
Missouri
South Dakota

Managed Points

Over 65,500 points
Over 240 devices

Purpose

To integrate current technologies with an effective billing and SLA tracking module capable of generating custom reports and sending notifications when an alarm condition is met.

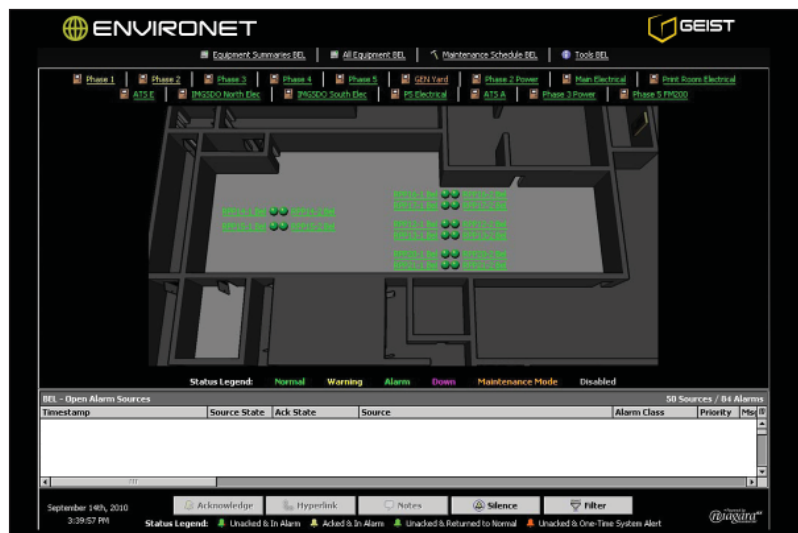


For over ten years, Cosentry has provided businesses with resiliency solutions from disaster recovery and managed technical services to hosting and data center services. As a top tier technology utility, Cosentry allows businesses to operate seamlessly if there is a small incident or a full-scale disaster.

With six regional facilities, Cosentry is responsible for protecting its clients' business operations. To make sure clients are covered, Cosentry implemented Environet DCIM systems in its regional facilities.

Before implementing Environet, Cosentry took manual recordings, often referred to as "sneaker reports," to measure electrical circuits feeding customer servers. These manual recordings required personnel to walk to each meter, take a live recording, and then report the reading for billing verification purposes.

However, there are a number of downfalls to manual recording. Taking recordings manually can be time consuming for the personnel, costly for the company, and may lead to inaccuracies due to human error. In addition, manual reporting is an ineffective way to record data because it only provides a single measurement in time and does not provide data for other times of the day or month.



Cosentry began searching for an environmental monitoring system that could help combat these challenges. Above all, Cosentry wanted a monitoring system with the ability to display data in an easy-to-use, intuitive interface that could also be customized to their needs.

According to Scott Capps, Data Center Facility Manager, "Customization was a key factor in deciding on a DCIM solution. We knew that we needed a highly flexible, customizable and easy-to-use application that our employees would use on a daily basis."

Environet

“

The screenshot displays the ENVIRONET software interface. At the top, there's a navigation bar with icons and labels for Equipment Summary BEL, All Equipment BEL, Maintenance Schedule BEL, and Tools BEL. Below this is a menu bar with options like Phase 1, Phase 2, Phase 3, Phase 4, Phase 5, GEN Vard, Phase 2 Power, Main Electrical, Print Room Electrical, ATS F, INGSDO North Bus, INGSDO South Bus, PS Electrical, Phase 3 Power, and Phase 5 PHG00.

The main area shows a 3D perspective view of a facility floor plan. Various rooms and areas are highlighted in green and labeled: Phase 1, Phase 2, Phase 3, Phase 4, Phase 5, Main Electrical, Print Room, INGSDO, 00A Service Bus-3, 00A Service Bus-1, PS Electrical, and Phase 5 PP Bul. There are also labels for 1200A Electric Service Bus, 1200A Service Bus, and ATS A.

At the bottom, there's a Status Legend with categories: Normal (green), Warning (yellow), Alarm (red), Down (dark red), Maintenance Mode (grey), and Disabled (light grey). Below the legend is a section titled "BEL - Open Alarm Sources" which includes a table with columns: Timeslamp, Source State, Ack State, Source, Alarm Class, Priority, and a status icon. The table currently shows no active alarms.

At the very bottom, there's a date/time stamp: September 14th, 2010 3:16:21 PM. To its right are several control buttons: Acknowledge, Hyperlink, Notes, Silence, and Filter. On the far right is the @Innovative logo.

**Geist Americas**

1821 Yolande Ave.
Lincoln, NE 68521 USA
Tel: 1.800.432.3219
402.474.3400

Geist DCIM

2900 S College Ave, Ste. 2B
Fort Collins, CO 80525 USA
Tel: 877.449.4150

Geist Asia

China
Tiley Plaza Bldg A, Unit
#2910,
No.199 Haide 3 Road
Nanshan, Shenzhen
Guangdong Province, China
Postal Code 518000
Tel: +86.755.86639505

Hong Kong

salesasia@geistglobal.com
Tel: +852.8176.4860
Geist Europe

United Kingdom
Unit 1, The Monarch Centre,
Venture Way
Priorswood, Taunton
Somerset, TA2 8DE UK
Tel: +44 (0)1823.275100