

GEIST

Future Thinking • Solutions Today



GEIST DCIM

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.

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A Single Point of Access for Managing Mission-Critical Hardware.

Description

Managing data centers can be complex, but Geist DCIM is here to simplify the process. Data Center Infrastructure Management (DCIM) consolidates numerous equipment data points into one comprehensive system. DCIM can help cut costs and provide peace-of-mind to managers knowing that the data center is fully monitored. DCIM helps reduce data center down-time due to unexpected incidents.

With the Environet and Racknet product lines, Geist DCIM is committed to providing high quality data center solutions as well as industry-leading customer service. Whether a data center needs extensive monitoring services or automation control, Geist has the solutions to get the most out of data center processes.

DCIM Product Line

Environet Facility - Provides the data granularity required for efficient management of the enterprise data center. Access to real-time, holistic information about power, environment, and process empowers users to proactively manage moves, adds, and changes. With unprecedented visibility and management over environmentals, power consumption and cooling, Environet Facility is the ultimate data center management solution.

Racknet - Optimizes manual processes in the data center and serves as a single access point to consolidate data center information. With comprehensive alarming and reporting functions, Racknet is the perfect tool to monitor SNMP devices.



Data Center Integration Services

Geist's trained specialists will help your data center become more efficient. With an emphasis on partnerships, Geist will provide the support you need and select the right solution for you.

Consultation

Geist offers a number of premium data center services from our industry leading integration specialists. From specifying a system to ordering equipment and installing Environet software, Geist offers a one-stop-shop for all data center management needs.

Application Engineering

Geist's Application Engineering service is designed to assist data center professionals in engineering critical infrastructure monitoring and management solutions to meet the unique business needs of each organization.

System Integration

Integration services are available for Environet systems and supporting equipment. These services are performed by industry-leading service and integration technicians.

System Maintenance

System maintenance is a key element with DCIM systems. Reevaluating needs and requirements in an ever-changing business environment means evaluating DCIM system performance on a regular basis. There are a number of ways to ensure that a DCIM system stays up to date and continues to meet needs as they evolve.



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

Two Locations:
Michigan | Ontario

Additional Managed Locations:
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.

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 Dirnberger, 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.

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 that Environet Facility's notification system is especially helpful because Environet 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 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.

The Ultimate Solution to Monitoring and Managing Facilities

Environet Facility

Environet Facility is the comprehensive infrastructure management tool used to improve processes in the data center. Using unparalleled real-time monitoring techniques, Environet Facility transforms complexity into simplicity. Its interactive interface delivers critical information to drive knowledge-based decision making. Access to holistic information about assets, power, environment and process empowers users to proactively manage moves, adds and changes. With Environet Facility, decisions are made with speed and confidence, not guesswork.

Environet Facility's graphically rich interface and intuitive design make monitoring the data center easier than ever before. With SNMP, Modbus, BACnet and LONworks capability, Environet Facility communicates in real-time with a variety of equipment from many manufacturers. Users can access the interface remotely through a Web-based browser and sends immediate notifications when an alarm condition is triggered.

Environet Facility Core Features

Real-Time Monitoring

Environet ensures users are aware of critical issues by activating alerts immediately. In a single mouse click, the details and exact location of the issue are determined so actions can be taken to address the problem.

Global Visualization

View the global enterprise using one comprehensive view. Perform quick health checks on data centers without having to delve into individuals locations.

Analytics and Reports

Create unique reports and dashboards to turn complex data into simple visualizations. Report on all devices and points in the Environet system to create data for critical business decisions.

Capacity Planning

Whether it's power, cooling or physical space issues, Environet Facility gives users the ability to visualize and simulate the requirements for a data center expansion before actually moving a single cabinet or device.

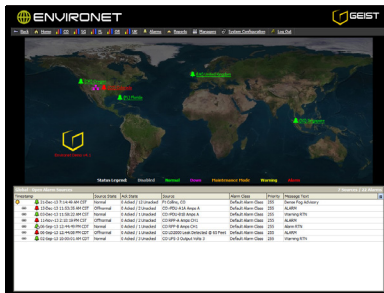
Tenant Management

Efficiently pull up key tenant performance indicators and keep track of all critical tenant information. The tenant portal allows tenants to see power usage without having access to the entire system.

Automation Control

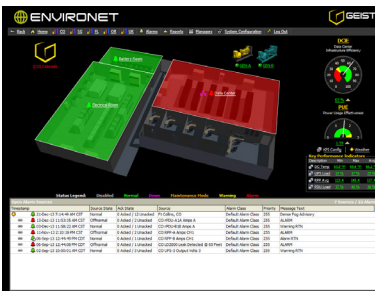
With the ability to address multiple protocols, Environet Facility connects facility infrastructure equipment like CRAC units with environmental sensors to automatically respond to data center conditions.

Environet Facility Interactive Views



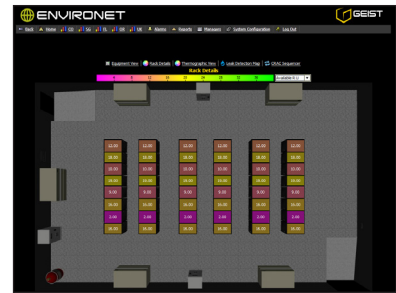
Global View

Shows the status of facilities around the world. Displays active alarms throughout the enterprise.



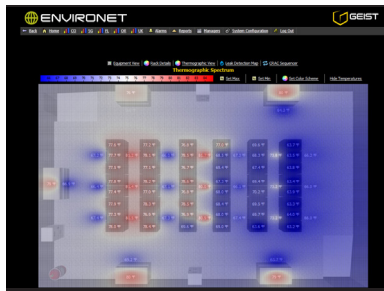
Dashboard View

Displays the top level of a facility. Includes alarm sources, facility layout, company brandings, weather conditions and key performance indicators.



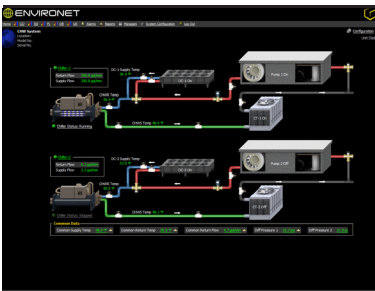
Floor Plan View

Depicts important rack details from a graphical top-level view. Information on available U space, kW and temperature are a click away.



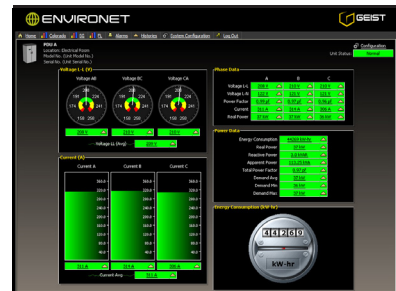
Thermographic View

Displays floor plans with color-coded temperature values to highlight hot-spots.



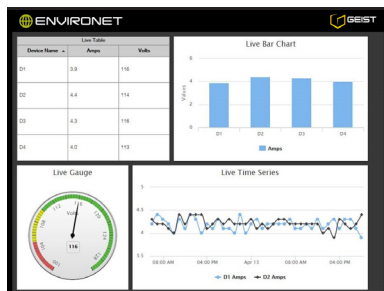
Equipment Diagram View

Shows critical equipment and connection data using detailed graphics.



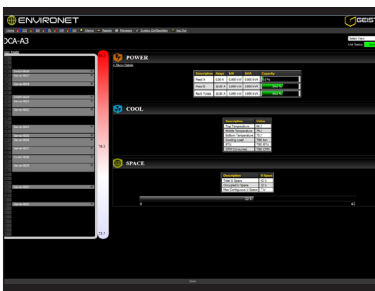
Single Device View

Represents each device with six different status colors for at-a-glance monitoring.



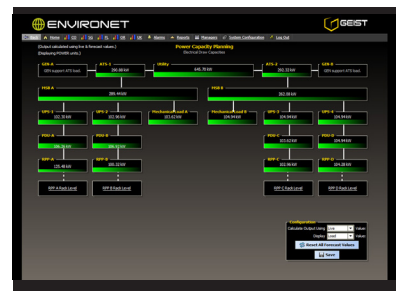
Report View

Compare trended information regarding capacity, load balancing and efficiencies across devices and sites.



Rack View

Quickly visualize critical power, cooling and space data at the rack level. Drag-and-drop functionality makes placing assets in the rack simple.



Capacity Planning

Allows assumptive loads and creates simulated views of the effects.

The Versatile DCIM Solution

Racknet

Racknet helps optimize manual processes in the data center and serves as a single access point to consolidate data center information. With comprehensive alarming and reporting functions, Racknet is the perfect tool to monitor SNMP devices. The notification system sends alarms and alerts based on user-defined thresholds, and has multiple escalation levels. The auto-discovery feature makes adding devices simple and the intuitive interface allows users to quickly drill into specific rooms to visualize any part of the data center. Utilizing drag and drop capabilities, Racknet is highly customizable, providing businesses with a flexible DCIM solution. Quickly manipulate user-defined collec-

tions of data in Racknet. Customizable math functions provide the unique information businesses need to efficiently run the data center. With Report Manager, report on vital data center information using unique charts and graphs. To help understand overhead expenses, use the energy cost analysis to provide vital power consumption information. All Racknet information can be communicated out via SNMP and BACnet, making Racknet a versatile DCIM solution.

Racknet Core Features

Aggregated Views of Data

Display one view of all monitored equipment with user defined graphics to create a holistic view of enterprises and highlight areas to improve efficiency.

Math Functions

Generate live views such as highs, lows, averages, costs, usages, etc. and associate them with dashboards and other views.

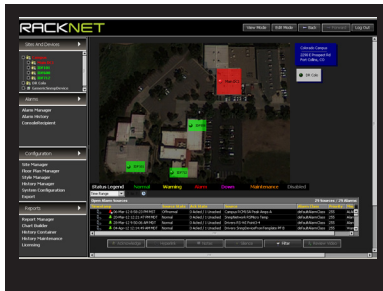
Real-Time Monitoring

User-defined thresholds provide quick alarm notification with three escalation levels. Recognize problems before they become catastrophic.

Dashboards and Reports

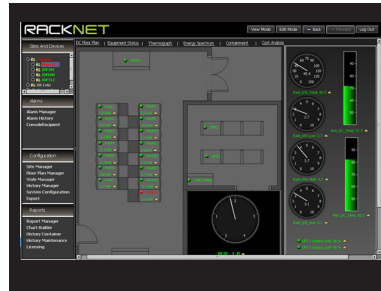
Build and generate unique reports (e.g., customer monthly power usage, high/low/ average temperatures, monthly PUE/DCiE). Visually display data in various chart types for easy interpretation. Save time by automatically generating the reports.

Racknet Interactive Views



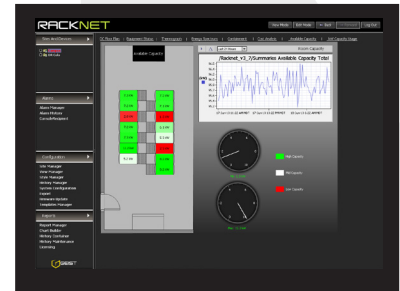
Campus View

View the health of each location and quickly drill down into individual rooms to view alarms.



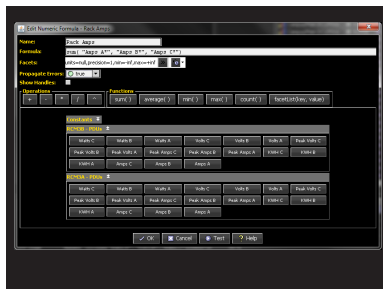
Floorplan View

Displays key data center infrastructure and provides charts and graphs to simplify information.



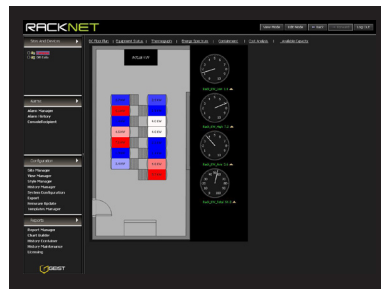
Capacity Planning View

Efficiently plan for the future using comprehensive visuals. View the effects of adding new assets.



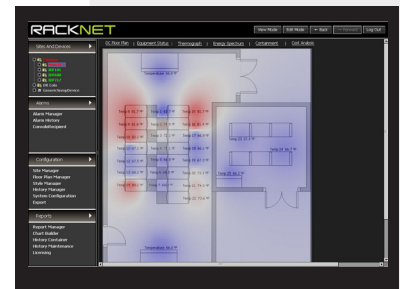
Function View

Allows user to manipulate math functions to create unique collections of data.



Energy Spectrum View

Provides energy usage visuals to help users understand what equipment is power-taxing, and where new assets can be placed.



Thermographic View

Quickly see hot and cold points in the data center.

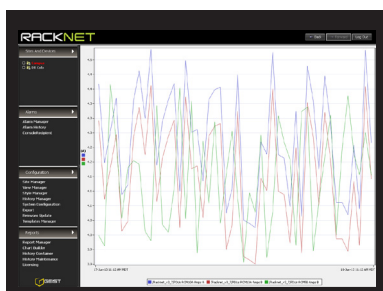
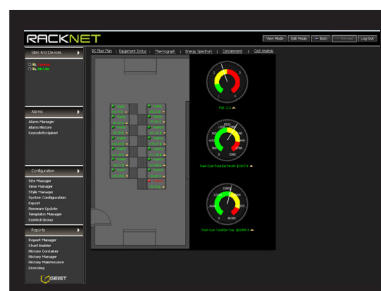


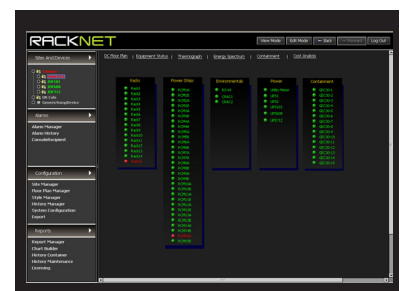
Chart Builder View

Create current and past charts to see how key infrastructure compares to each other.



Cost Analysis View

Estimates monthly power costs, giving users information necessary to plan intelligently for the future.



Equipment View

Depicts all of the data center's equipment in one view and allows users to see current alarms.

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