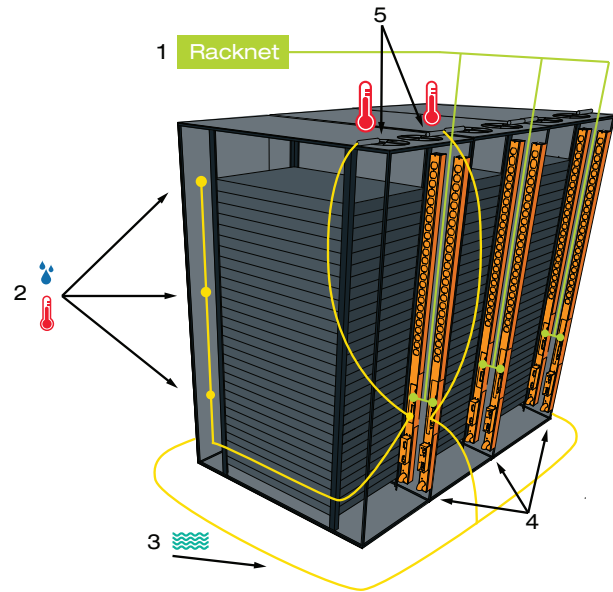# GEIST

Racknet

Overview

Manage IT and white space with a single point of integration. Racknet offers a vendor neutral solution that allows you to integrate and manage a variety of mission critical equipment. User defined graphics, calculations, and reports allow for a holistic view of your entire data center.

Gather data from Geist products as well as third party equipment. It also allows users to fully customize graphics and collections. In addition, Racknet comes with the ability to derive values from monitored points to create meaningful views of data.

Racknet's customizable floor plan graphics allow users to create views that clearly represent their data center.
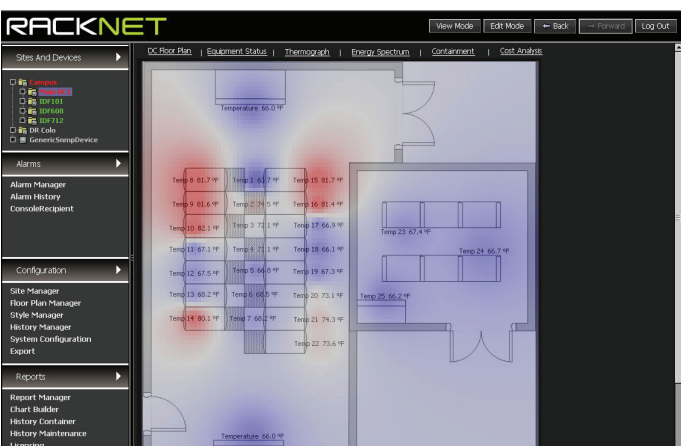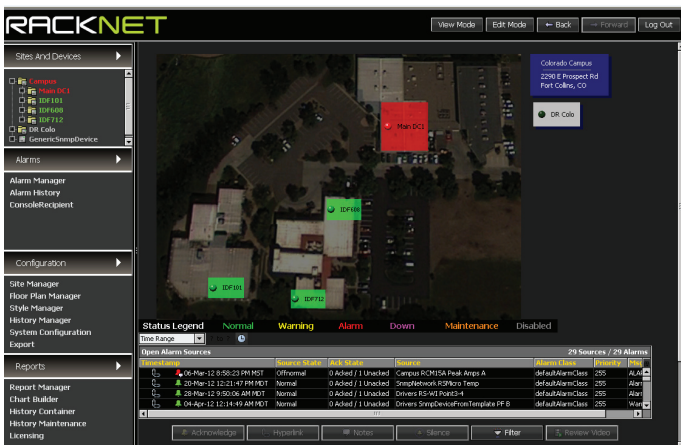
Application Diagram

Racknet – Collects data from specified equipment then stores, aggregates, reports, and displays the data on a secure internet connection for multiple user remote access. Geist GNET allows users to create an independent network to collect intelligent PDU and environmental sensor data without connecting to the data center network.

Temperature/Humidity/Dewpoint Sensors (GTHD) – Measure critical environmental elements and send data through intelligent PDU ports. The GTHD sensors shown can daisy chain similar units to create a sensor network.

Water Sensing Unit – Detects presence of water and reports information to the intelligent PDU.

Intelligent PDUs – Supplies power to critical data center equipment. In addition, the intelligent PDU sends performance metrics as well as data captured from environmental sensors to Racknet for collection.

Temperature and Airflow Sensors – Measure specific temperature and airflow at critical locations around the cabinet then sends data through intelligent PDU ports.

RACKNET
BY GEIST

Features & Benefits

Aggregated Views of Data

Displays one view of all monitored equipment with a combination of pre-configured, user defined graphics to create a holistic view of enterprises and highlight areas to improve efficiency.

Alarm Notification

User defined thresholds for quick alarm notification with three escalation levels. Identifies problems before they become catastrophic.

Math Functions & Collections

Generate live views such as highs, lows, averages, costs, usages, etc. and associate them with dashboards and other views. Create meaningful views of data based on your needs.

Appliance and Virtual Machine Option

Gives the user the option of selecting between a hardware appliance options or virtual machine for quick and easy install.

Reporting & Histories

Build and generate unique reports based on individual requirements (e.g. Customer Monthly Power Usage, High/Low/Average Temperatures, Monthly Capacities, Monthly PUE/DCiE). Visually display data in various chart types for easy interpretation. Save time by automatically generating the reports you need with the data you want to see.

Single Access Point for Integration

Racknet communicates out via SNMP, BACnet and the oBIX API for seamless integration with larger management systems.

Thermographic View

Drag and drop sensors onto the data center floor plan for a quick real-time view of the data center environment.Visualize where problematic areas might exist and know where to troubleshoot.

Racknet Node Manager

As an additional solution offering, Geist DCIM offers a Racknet solution for only Geist devices. This lower cost solution provides a single aggregation point for real-time monitoring and trending. See the below comparison chart for included feature sets for both Racknet solutions.

Features and Benefits	Racknet	Racknet Node Manager
Support for all Geist hardware	X	X
Support for all 3rd party power strips	X	
Support for all 3rd party SNMP devices	X	
Optional 48 GNET	X	X
Auto configuration of IP address for connected equipment (DHCP Server)	X	X
SNMP and BACnet output of all collected data	X	
Support for up to 1,000 devices	X	X
Geist equipment global firmware updates	X	X
Alarm, Trend, Report on all collected data	X	X
User defined graphical views	X	X
User defined collection objects for associations of data	X	
HTTP pass-through of all GNET devices	X	
Appliance form factor	X	
Virtual Machine option	X	X

For more information about the Racknet solutions, contact Geist DCIM at 877.449.4150 or dcimsales@geistglobal.com.