

Modius OpenData® Power Capacity Management Module (PCM)

The Power Capacity Module helps both IT and Facilities management develop strategies for optimizing and extending power capacity in complex data center environments

Why IT and Facilities Management Needs PCM?

Data Center Facilities Operators are tasked with ensuring maximum uptime, minimizing utility costs, and ensuring adequate power capacity exists to support an ever-changing allocation of IT equipment. The power distribution infrastructure must be managed to provide a nimble response to business requirements that maintain operational momentum and a competitive edge.

Data Center IT Operators are tasked with managing a dynamic set of technology requirements to meet corporate goals. Knowing exactly where capacity exists for new equipment deployment or equipment relocation without jeopardizing service level agreements, is critical for rapid response to business requirements.

Advanced Power Capacity Management is the key to infrastructure optimization and agile support of business initiatives.

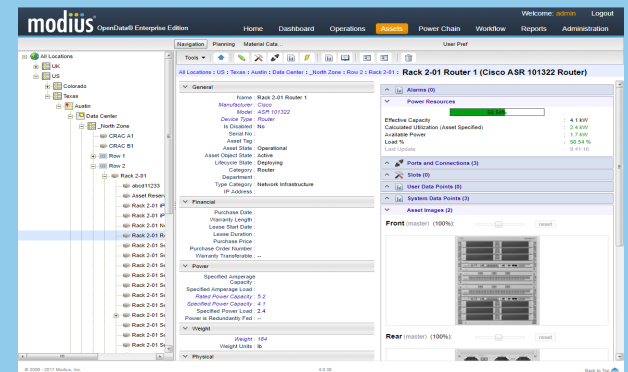
OpenData PCM Overview

The OpenData Power Capacity Management Module from Modius provides the ability to create an exact model of the power distribution infrastructure. This model enables performance monitoring, fail-over and redundancy scenario testing, and power capacity planning to support IT operations in your data center.

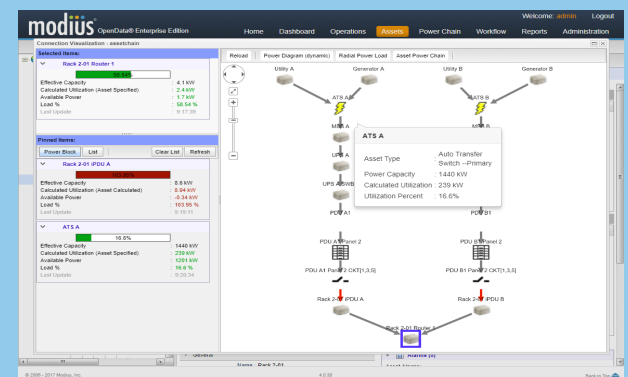
The PCM Module leverages our Materials Catalog to select the power infrastructure assets found in your data center. These asset master records make quick work of assembling an accurate model of your power chain. Within PCM you can use the manufacturer's specifications for power (supply and demand), real-time measured power (i.e. meter readings), derived loads from downstream components, or any combination of these values to create an accurate map of power flow at every node in the power chain. Some DCIM vendors only use plate or derated power values for these calculations, but OpenData can collect real-time data over time to build "Smart" power profiles for individual assets to free up that over-provisioned capacity.

Once the PCM Power Chain is complete, it can be used to assess fail-over conditions at any node in the chain and test redundancy strategies to insure that all downstream assets have adequate power to continue operation in the case of a failure. When PCM is used in conjunction with our Asset Management Module, this power data can be used to verify valid equipment connections, warn the operator of equipment changes that violate power capacity thresholds and report on assets and applications that would be affected by any power related failure.

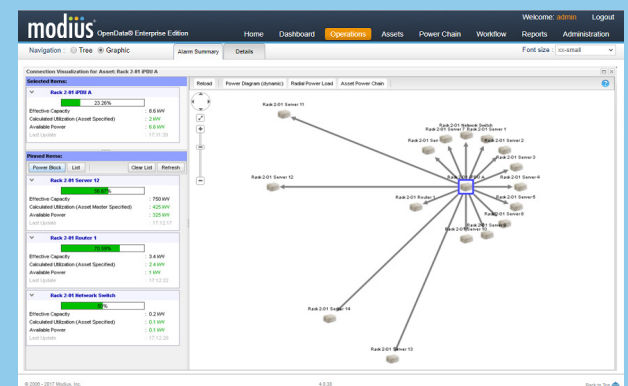
PCM Screenshots



Power Infrastructure Assets selected from the Materials Catalog to build your Power Chain Model



Complete Power Chain Visualization with drill-down to specific metrics for capacity, load, alarm status



Radial Charts for power load balancing, redundant power and fail-over testing



OpenData PCM Features

The PCM Module for *OpenData* supports the following functionality:

- **Interactive Software Model of Power Infrastructure** - Complete documentation of your entire power chain, from utility to servers.
- **Multiple Power Utilization Values** - Manufacturer's Rated, De-rated, User Specified, Measured Real-time, or Downstream Power Feed Aggregates.
- **Power Chain Visualization** - Detailed view of complete or partial power chain with drill-down on individual nodes.
- **Load Balancing Analysis** - Instantly visualize power load imbalances for electrical panels and rack PDU's.
- **Circuit Redundancy Definitions** - Defines correct mapping for power flow in architectures with redundant paths.
- **Redundancy and Load Testing** - Interactively test the effect of adding or subtracting load or simulating equipment failures
- **Provisioned Circuits** - Provides the ability to assign power usage to customers or end-users to support bill-back reporting.
- **Asset Management Support** - Works seamlessly with *OpenData's* Asset Management Module to prevent power-related service interruptions caused by equipment changes.

OpenData PCM Capabilities and Benefits

The PCM Module for *OpenData* provides the following capabilities and benefits:

- **Delay or Eliminate Data Center Build-outs** - Recover "trapped" power capacity caused by over-provisioning.
- **Improve MTTD & MTTR Metrics for Power Related Outages** - Monitor power infrastructure with alarm and alert notification.
- **Increase Uptime** - Eliminate power related outages caused by human error.
- **Reduce Power Expense** - Adjust cooling requirements to match actual power loads and right-size power capacity to actual demand.
- **Recover Power Costs** - Track and report on power usage by customers or departments for bill-backs.
- **Improve Efficiency** - Increase server density to do more work by freeing up power capacity trapped by over-provisioning.

Technical Specifications

Modius *OpenData* is a software application that can be installed on-premise or hosted in the cloud. Some customers choose to run the application within VMWare ESX. Software platform requirements are as follows:

- **Windows Server** - 2008, 2008 R2, 2012
- **Database** - Express, Workgroup (Up to 2012) and MS SQL Server 2008 - 2016

For more information contact info@modius.com

Company Profile

Founded in 2004, Modius, Inc. is a leading provider of management information systems for optimizing data center and facility infrastructure and operations. Modius develops and commercializes real-time monitoring and analytic solutions that enable unified visibility and better control over the critical facility infrastructure, including power, cooling, and network equipment. Modius' mission is to simplify the operations of increasingly diverse and complex facilities and IT environments, while markedly improving performance efficiencies.

The Modius flagship product, *OpenData*, monitors all power-distribution, cooling and environmental sensor equipment from a single console, providing comprehensive Real-time Operational Intelligence (RtOI) for unified performance analysis and metrics. *OpenData* captures and stores device health, environmental and energy-consumption data from a broad range of site infrastructure devices and sensors, providing real-time monitoring for building and facility infrastructure, data centers, call centers, server closets and mechanical yards.

Codes & Certifications

DUNS Code - 148414126

NAICS Codes – 541511, 541512, 541519, 541350, 238210, 518210, 511210

CAGE Code - 5CJ70

SAM.gov website registered

Veteran Owned Small Business (VOSB)

Core Competencies

Modius provides software and services designed to help data centers and facilities operate more efficiently.

- Infrastructure Monitoring
- Asset Management
- Big Data Analytics
- Capacity Planning
- Environmental Management
- Internet of Things (IoT)

Contact your Modius representative for more information about how the Power Capacity Management Module can free up trapped power capacity in your data center, significantly reducing operating costs .

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