

Modius *OpenData*® for Utility Sub-Metering

Easily track and report on the tennant utility usage from data supplied by wired and wireless sub-meters. Provides web-based access to gas, electricity and water usage reports and supports billing system integration

Utility Sub-Metering, A Practical Use Case for IoT

There has been a lot of hype associated with the Internet of Things (IoT), but a very practical Use Case can be made for using IoT for Utility Sub-Metering.

Property Owners and Managers are tired of the complaints they get for raising rents based on rising utility costs and tenants are tired of feeling that they are being charged unfairly based on the utility usage of all the tenants in the building. Having the ability to account and charge for the utility usage of individual tenants provides a strong incentive to conserve energy and other shared resources.

With technical improvements in meters and sensors (size, power consumption, connectivity, data points, etc.), we now can easily collect all the data we need at the edge of the network to practically implement an IoT solution for utility sub-metering. In addition, we can collect performance data from the sensors and meter themselves, to ensure that service interruptions and other anomalies can be quickly detected and resolved.

Introducing Modius *OpenData*® for Utility Sub-metering

Modius *OpenData*'s IoT Platform provides real-time data collection and monitoring of all wired and wireless sub-meters from all major vendors. The data collected on individual utility usage is normalized, time-stamped and stored in the *OpenData* database for reporting and further processing. Building owners and managers can log-on to *OpenData* from any Web-based browser to manage tenant accounts, view and print reports, or integrate this data with 3rd party billing systems. A web portal is also available allowing tenants to log-in and view their utility usage on-demand.

OpenData's IoT Collectors are intelligent software processes that can exist on premise or in the Cloud. In addition to the utility usage data collected, the IoT Collectors also monitor meter and sensor health and can intelligently trigger alarm/alert notifications when performance thresholds are violated. These notifications have multiple tiers of escalation and can be sent by pager, e-mail or SMS text when service is interrupted or drops below an expected level.

With *OpenData*, you get a real-time sub-metering for tenant billing and the piece of mind that utility service levels are monitored 24/7 for superior customer service.

OpenData Architecture

Wired or Wireless Meters (Gas, Water, Electricity)



OpenData Software Collectors



3rd Party Billing Systems

Alarm/Alert Status and Utility Usage Reports/Billing



Landlords



Tenants

About Modius

Who We Are

Modius® Inc. is a leading supplier of software solutions for optimizing facility infrastructure and operations. Modius develops and commercializes real-time monitoring and analytics solutions that enable unified visibility and better control over the critical systems in your facility, including power, cooling, and space.

The company's mission is to simplify the operations of the increasingly diverse and complex facilities and IT environments, while markedly improving performance efficiencies. Founded in 2004 with headquarters in San Francisco, California, Modius has customer deployments world-wide.

Modius OpenData® Value Propositions

<p>Protect Mission-Critical Assets</p> <ul style="list-style-type: none"> • Faster response • Failure point reduction • Alarm redundancy • SLA statistics 	<p>Lower Data Center Costs</p> <ul style="list-style-type: none"> • Energy cost savings • Real-time measurement • Better FTE leverage • Continuous improvement 	<p>Increase Data Center Capacity</p> <ul style="list-style-type: none"> • Track loads • Forecast growth trends • Balance power & cooling • Track "drift" 	<p>Report Eco-Efficiency Metrics</p> <ul style="list-style-type: none"> • Track GHG emission • Set baselines • Demonstrate gains • Prepare for DOE & EU compliance
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Sub-Metering Hardware Vendors

Modius provides data collection templates for most of the top suppliers of wired and wireless, network-enabled meters and sensors.

The OpenData Sub-metering solution supports hardware from the following vendors:

- Diehl
- e-Mon
- Leviton
- Rockwell Automation

How to Buy Modius OpenData

Standard Edition - For single-buildings

- Kit includes software, installation assistance, training and 1 year of maintenance
- Supports up to 200 Meters/Sensors
- Canned reports for power, water, gas usage
- Fully upgradeable to *OpenData* Enterprise Edition
- No 3rd party billing integration

Enterprise Edition - For multi-site deployments, other device categories or greater functionality, upgrade to *OpenData* Enterprise Edition.

- Supports all network-enabled, wired and wireless meters and sensors, plus other support infrastructure, (Template Library)
- Includes support for all *OpenData* modules, (Asset Management, Power or Environmental Management, Advanced Analytics, Etc.)
- No limit on monitored equipment or data collection
- 3rd Party Billing Integration support

Modius OpenData: Midas Kit vs Enterprise Edition

OpenData	Midas Kit	Enterprise Edition
Device Monitoring	Tank "Config Wizard"	Template Library
Alarm Visualization	Tabular + Graphic	Tabular + Graphic
Notification	Email/Pager/SMS	Email/Pager/SMS
Reporting	Device History	Full Report Suite
Alarm Workflow	5 Tiers Escalation	5 Tiers Escalation
Multi-site	Single Site Only	Multi-site Mgt
Thermal Management	Included with Tank	Cooling Analytics
Power Management		Power Analytics
Dashboards		Embedded BI Dashboards
Integration Support (e.g. BMS, NMS)		Integrations

Call for Pricing

In addition to the optional modules and extended equipment support, Enterprise edition offers a Multi-tenant Customer Portal for self-service account inquiries.

Technical Specifications:

Modius OpenData® is a software application that can either be installed on-premise or hosted in the cloud. The application installs on Windows Server 2008, 2008 R2, 2012, and runs Express, Workgroup (Up to 2012), or Enterprise versions of MS SQL Server 2008 - 2016. Many customers choose to run the application within VMWare ESX. For more information, please contact us at info@modius.com.

Contact Modius for more information about how Modius *OpenData* software can help you provide a sub-metering solution for multi-tenant buildings and alarm/event monitoring for utility delivery systems.

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