Datacenter Clarity LC for colocation owners and tenants

The Data Center Infrastructure Management (DCIM) solution from Siemens

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As organizations look to increase profitability by focusing efforts on their core businesses and expertise, colocation data centers are becoming an increasingly popular option. They offer the flexibility, scalability, and reliability needed without repeated capital investments.

Datacenter Clarity LC™ allows colocation owners to increase the efficiency of their data centers through advanced monitoring, automated billback reporting and SLA management. It offers colocation tenants real-time insight into their assets and their SLA compliance.

Increased efficiency through Datacenter Clarity LC

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Datacenter Clarity LC is a trademark owned and licensed by MAYA Heat Transfer Technologies Ltd.
The value of Datacenter Clarity LC

Power Management
Datacenter Clarity LC monitors real-time power connections and consumption for capacity management. Shortages and problems can be easily predicted and corrected at the source to maintain efficiency.

Capacity Management
Datacenter Clarity LC provides real-time floor inventory and rack space view for colocation owners and their tenants. These tools allow personnel to maximize space and power usage, discover hidden capacity, and reduce costs.

SLA Management
Datacenter Clarity LC provides the right tools for multiple SLA management areas:
- Power Management
- Cooling, Humidity, and Air Quality Management
- Security Management
- Network Availability Management
- Maintenance and Repairs Management
- Reporting Management
- Facility Certifications and Audits Management
- Client Portal with SLA Dashboard

Cooling Management
Datacenter Clarity LC provides a complete and accurate overview of cooling systems through CFD, from air conditioning and air handling units to valves and dampers. Users can virtually observe heat and airflow to detect hot spots and identify any loss of cool air in order to ultimately optimize their datacenter.

Datacenter Clarity LC also includes the following features:
- Pre-defined reports providing device-level visibility for individual tenants.
- Remote web-based asset management tool for modification tracking and task assignment
- Comprehensive data analytics such as "what-if" scenarios, allowing tenants to see how potential changes will impact their environment.

Datacenter Clarity LC supports:
- Cloud agreement (price based on technical specifications and availability)
- Classic colocation or retail data center space (rent by the server, rack, or cage)
- Enterprise, turn-key or plug-and-play data center space
− Powered shell space (lease a powered shell where landlord is only responsible for power substation and site security)
− Modular or container unit lease (lease a pre-built, fully self-sufficient modular unit in a data center)

Datacenter Clarity LC supports service level agreements (SLAs) such as:

**Power Management**
− Define loaded cabinets (peak power usage, total kWh over a specific period)
− Incident investigation and reports
− Outage reporting (actual failure or voluntary good faith shut down)
− Delivery of additional power circuits
− Cooling, Humidity, and Air Quality Management
− Temperature event (actual, RCI- or ASHRAE thermal guidelines based)
− Humidity event (actual or ASHRAE thermal guidelines based)
− Air contaminant concentration level (smoke, salt, vaporized chemicals, etc.)

**Physical Security Management**
− Comply with building security protocols
− Comply with tenant security protocols
− Comply with access rules and agreements

**Network Availability Management**
− Number of carriers available
− Tenant’s corporate carriers available
− Latency and redundancy

**Maintenance and Repairs Management**
− Regular testing: generators, batteries...
− Keep fire protection system in compliance with building code
− Satisfy facility equipment manufacturer recommended maintenance requirements (use manufacturer authorized service company)
− Advance notification and tenant control terms and conditions over timing of scheduled maintenance

**Reporting Management**
− Outage and event remedies

**Facility Certifications and Audit Management**
− Tenant audit rights and timing

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**Highlights**

- Real-time power connections and consumption
- Real-time floor inventory and rack space view
- Computational fluid dynamics
Datacenter Clarity LC advantages

For years, colocation owners have relied on in-house, ad hoc monitoring systems, spreadsheets, and diagrams to operate their centers with limited results. These dated tools do not provide the level of information, accuracy, and insight required to maximize available space, bandwidth, and power consumption.

Datacenter Clarity LC enables multi-tenant data center (MTDC) owners to optimize all aspects of their facilities and infrastructure, from rack location to power consumption and cooling efficiency. In addition, tenants have the option to add monitoring services to their own assets. Datacenter Clarity LC monitors entire facilities in real-time and provides owners as well as tenants with detailed chargeback information. Every aspect is tracked with advanced analytics tools, easy 3D visualization and automated reporting.

With Datacenter Clarity LC, colocation owners can accelerate the way they perform asset management and capacity planning. They will obtain the level of visibility needed to provide accurate and transparent services to tenants while maximizing their data center space usage.

Datacenter Clarity LC allows data center owners to:
- Maximize space and power usage to increase revenue with the same OpEx.
- Get accurate consumption monitoring, allowing detailed tenant chargeback.
- Reduce cost through energy and space savings without impacting service quality.
- Segment asset visibility by user role and set permissions for detailed and specific tenant reports.

Generate new business by offering
Colocation tenants added value:
- Give customers web-based access to their power, bandwidth, and operation information
- Secure data access
- Give access to unlimited number of asset to all your tenants for a fixed price.
- 450 communication protocols to integrate with any legacy and/or future equipment.

In addition, Datacenter Clarity LC’s competitive user-based pricing (unlimited number of assets and sites) is the most cost-efficient model for colocation centers where multiple resources are monitored, typically, by a few users.

Highlights
- Bridges the gap between IT and facility management
- Creates transparency to monitor, measure and manage, allowing for smarter decisions
- Manages complex data center environments effectively and efficiently
Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.