

Visual Data Center — Data Sheet

Operational Challenges

In today's data center environment, one must be proficient with power, space, and cooling resources as well as maintaining uptime. Not having transparency within your facility will lead to added costs and decreased revenue.

- **Uptime and availability** is in uncertainty when power is not dependable. Mission critical applications will shutdown during power outages or other faults. Systems will inevitably experience downtime, SLAs will be exceeded, and lost revenue will be the result.
- **Capacity limitations** within a facility focuses on power, space and cooling. Technicians and operators have limitations to understanding which devices control which applications and which are generating the power load. There is no insight into which racks have remaining capacity, which leads to expensive expansions or outsourcing.
- **Increasing operational costs** due to higher energy consumption. Higher than expected electricity bills and no where to point the finger.

Cost Effective Architecture:

The application runs on all open source software. This mitigates the contractual obligation by the user and doesn't raise the price to cover additional licenses.

• Operating System

The application software has been fully tested and certified against Linux platforms: RHEL and CentOS.

• Database

The software application utilizes a PostgreSQL database.

Platform Options:

• Virtual Machine

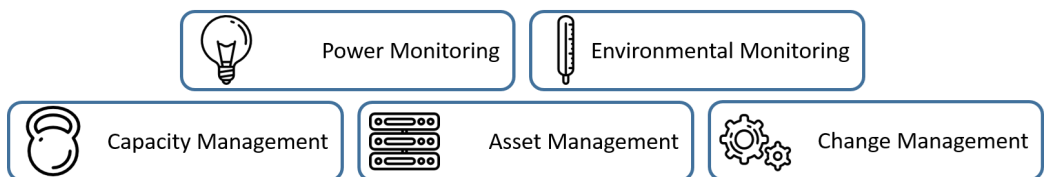
The VDC application, web services, and database can be installed on a virtual platform.

• Appliance

The VDC application, web services, and database can be installed on any hardware appliance that meets performance requirements.

Application Overview

Visual Data Center (VDC) is a complete DCIM stack monitoring solution. The implementation of VDC DCIM software allows you to have complete transparency of your data center, providing you with complete control of ensuring system uptime and efficiency with power, space and cooling resources. VDC can be installed to solve all of your critical data center needs.



VDC has the flexibility to adapt to small, medium and enterprise level environments. Along with having a highly flexible application design, VDC continuously monitors all mission critical data center devices: CRACS, UPS, RPPs, Branch Circuits, Server, RPDU's, sensors and other IT Assets. With communication via IP, your KPI's can be monitored and trended on all devices.

VDC is solely a software application. No additional hardware will need to be installed. The software application has a built in monitoring module that communicates to devices. VDC can communicate to devices over IP and supports the following protocols: SNMP, IPMI, Modbus, and BACnet.

VDC remains vendor agnostic and supports all manufacturers and device types out of the box: APC®, Avocent®, BayTech®, Cyber Switching®, Cyclades®, Eaton, Emerson®, Geist, HP®, Knurr®, Liebert, Track Busway, Veris®, and many more.

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Features and Benefits

Maintain up-to-date Asset Libraries to Improve System Uptime

- View real-time monitored values of all facilities and IT components in your DC from anywhere
- Restore services quickly by immediately knowing and locating the physical connection
- Perform accurate audit assessment of your DC inventory through the application

Exploit Power and Cooling Resources to Improve DC Metrics like PUE and DCIE

- Locate unbalanced power usage to avoid costs
- Reduce the likelihood of tripping breakers due to over provisioning
- Be able to locate underutilized servers and switch them off virtualize them

Insight into Overall Device Health and Environmental Reporting

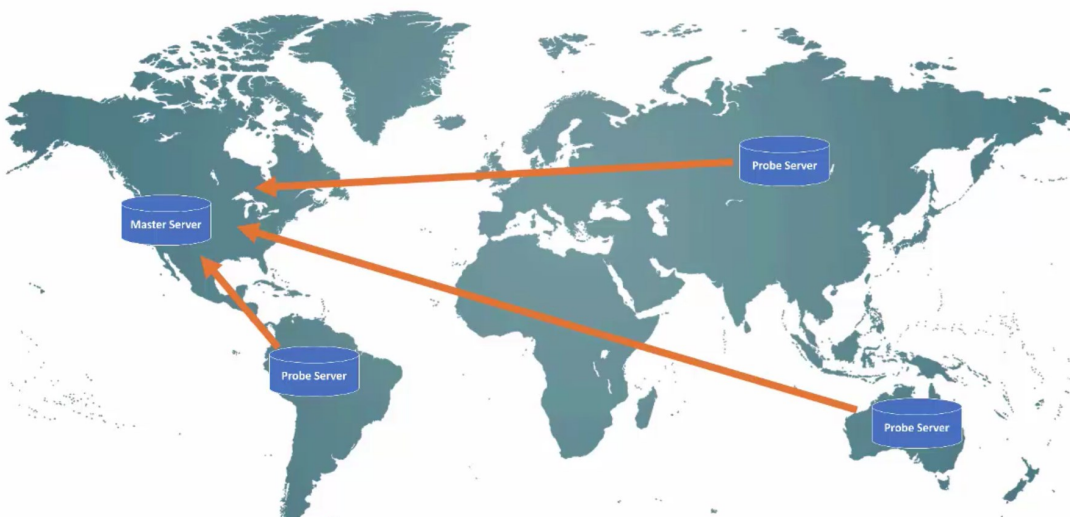
- Insight into “hot spots” in the DC
- Single view of alarm history through active polling enables the identification of DC items

Product Highlights

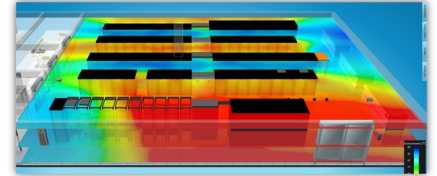
- Exciting 3D graphics that outshine the competition
- Powerful what-you-see-is-what-you-get asset management and project/workflow management
- Seamless integration with 3rd party applications using open-architecture extensible Web-Service/API framework

Monitoring Probe Engine

The Probe is a component of the VDC application that is in charge of monitoring devices. The functionality of the Probe allows for highly scalable application. It has a simple function to collect data and transmit information back to the Master Server. The Master server will be the server that contains all UI information. As every data center grows so must the application. When the current data center exceeds the strength of one Probe, additional Probes can be added to share the work load. This allows the application to scale horizontal without any impact on the customer.



Real-Time Environmental



Rack Power/Space/Cooling Summary



Rack Level Asset Tracking

