Delta InfraSuite Manager

Data Center Infrastructure Management (DCIM)

“Due to rapid technology advances, enterprises are demanding centralization of management processes and also a consolidation of infrastructure into a centralized location; limited availability of computing resources, power and space has led to an increasing demand for DCIM (Data Center Infrastructure Management) solutions.”

- Global Data Center Infrastructure Management Market

The velocity of its growth, coupled with its real and tangible benefits makes understanding DCIM important not just for facility managers, but also for CIOs and IT managers. Delta InfraSuite Manager is the fully featured DCIM software solution to deliver automation and visibility into the data center and increase the ease of management on a comprehensive platform. InfraSuite Manager optimizes the performance and life cycle management of the data center.

Benefits of InfraSuite Manager

Central View from One Platform

InfraSuite Manager provides users a central view to observe all of the critical information for a data center based on a single real-time platform.

Cost Effective

Organizations with corporate operation of cost efficiency initiatives can also look to DCIM to better manage and optimize resource use across their entire infrastructure, as well as help lower their impact on the environment. PUE (Power Usage Effectiveness) is improved and costs are reduced accordingly.

Increased Availability

By viewing critical information in the data center, the availability of the data center has been increased. InfraSuite Manager offers advanced alert algorithms across the infrastructure. It helps the data center mitigate the risk of downtime.

Sustainability Management

Having insight into the future of the data center’s day-to-day operations, and understanding how to optimize the data center’s resource allocation is invaluable to a business. InfraSuite Manager not only enhances capacity and asset management but also improves overall productivity, which can extend the data center life cycle.

Empower Your Data Center

For Facilities Managers

- Overall layout of your data center
- Overall environment mapping or profile of your data center
- All equipment status
- Chiller plant status and profile
- Power diagrams
- Alarm notification and reporting

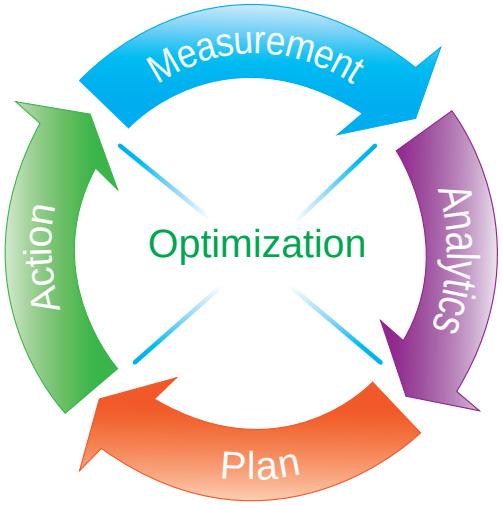
For IT Managers

- Access control and surveillance
- Asset management
- Rack utilization, rack U-space, weight, power load and network port for each rack
- Multiple site management
- Alarm notification, reporting and schedule
- IPMI

For Chief Information Officers CIOs

- Real time and historical PUE
- Electricity cost and billing
- Overall capacity utilization
- Work order progress and approval process
- Alarm notification and reporting

Management Philosophy for Data Center Optimization



Measurement
Measure and monitor the overall data center environment in real-time from a central dashboard

Analytics
Create a virtual model of the infrastructure to digitally map the relationships between all these components

Plan
Manage the data center better based on insightful historical information and trend analysis with well-grounded planning

Action
Define actionable solutions and configurations to execute

Product Features

Operation | Incident | PUE Energy | Asset | Capacity | Work Order | Analytics

Operation Platform (Base Model)

The operation platform of the InfraSuite Manager provides real-time critical information for a data center across floors or locations. It also gives recommendations on how to resolve issues, and offers a built-in report generator tool and template that provide device information and trend charts in the reports. The base model is the fundamental monitoring platform and extensional function modules can be added according to the demands of enterprises or organizations. The communication architecture of InfraSuite Manager uses Master/Slave and Browser/Server architecture for the Windows client and web browser user interface.

FIGURE 1. Overview of Data Center - Temperature

Incident Module

The Incident Management functional module is a management platform that developed based on ITILdefined processes and stages. It helps users to quickly record and classify incidents that occur in the data center, assigning tasks to appropriate handlers and increasing failure elimination efficiency. The graphs and trend charts make it more efficient to track the incident/failure elimination status. The historical records of these processes can be referenced if there is a similar incident/failure that occurs again in the future.

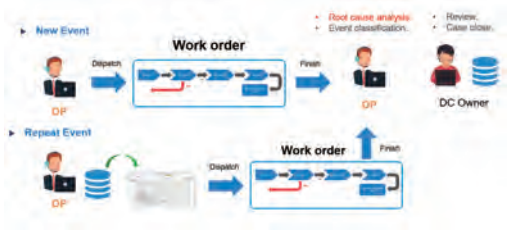


FIGURE 2. User Scenarios of Incident Module

PUE Energy Module

The Energy Module contains the functions of energy measurement, PUE calculation, electricity tariff formula, and historical data analysis. In addition, it includes organizational energy classification and management mechanisms. With time and experience operating this system, datacenter managers develop greater agility for managing energy consumption. This module can transform energy consumption data collected from power meters, UPS (Uninterruptible Power Supply), PDU (Power Distribution Unit) and environment detectors into dynamic charts and graphs, including line charts, bar charts, and pie charts based on user preference.

FIGURE 3. Dashboard of PUE

Asset Module

Asset Module offers graphical views of assets in every single rack in the data center. This makes it easy to quickly identify the power path and network topology map. In the case of assets without proper management, it often leads to a higher mean time to repair (MTTR) and lowering the availability of the data center's equipment.

FIGURE 4. Asset Module - Rack Management

Capacity Module

The Capacity Module allows data center managers to plan for the future more effectively through the use of detailed data on rack space, weight, network, power and cooling capacity in the data center. For example, Capacity Module helps data center managers evaluate resource consumption, making it easier for them to plan and decide on the future allocation and most suitable installation locations for IT devices.

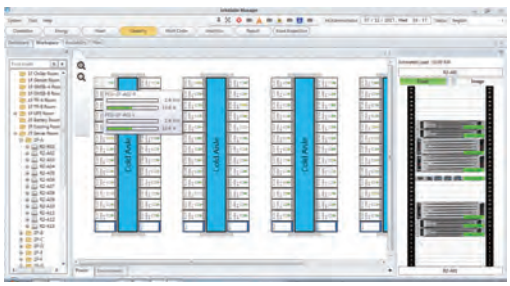


FIGURE 5. Automatic Availability Calculation

Work Order Module

The Work Order Module provides a highly customizable platform that enables users to design work order templates for different management purposes. Different variables such as names, types, priority, schedule, roles of tasks can then be set by the administrator. This helps users not only simplify and integrate the process of change management, but also extends the life cycle of data center operation.

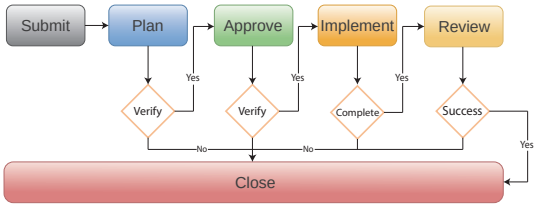


FIGURE 6. The Process of Change Management

Asset Inspection Module

The Asset Inspection Module is used with a user-friendly mobile app which makes it smarter and more efficient for the inspector to complete his/her inspection process. Customizable templates can be designed for different types of assets. Users can also upload photos of the inspected assets to InfraSuite Manager. Unique QR codes of each asset can be generated by the system, making the tasks more intuitive.

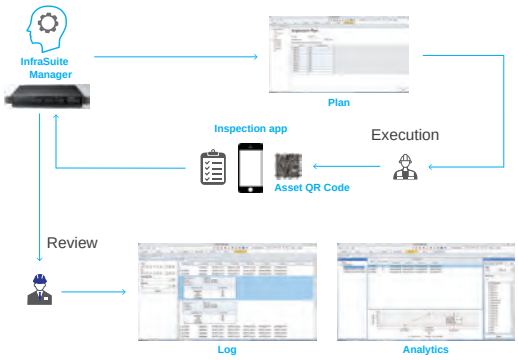


FIGURE 7. The flow of Inspection Execution and Review

Analysis Module

Analytics Module is not just for a single site but for the entire organization. The electricity tariff formula can be customized for each department. In terms of detailed energy analysis, Delta offers diverse scenario analyses, including energy usage KPI, comparison, energy combination analysis, abnormal energy usage ranking, and energy usage estimation.

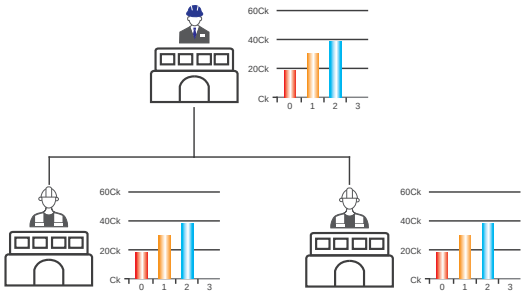


FIGURE 8. The Hierarchy of Energy Analysis

System Requirements

	InfraSuite Manager (Server)	InfraSuite Manager (Windows Application UI)	InfraSuite Manager (Web Monitor UI)
Hardware	CPU: > 2GHz	CPU: > 2GHz	CPU: > 2GHz
	Memory: ≥ 8G Free HD Space: 500G mirrored	Memory: ≥ 4G	Memory: ≥ 4G
Software	Support OS: Windows 7, 8, 10, Windows Server 2008, 2012, 2016	Support OS: Windows 7, 8, 10, Windows Server 2008, 2012, 2016	Recommended Web Browser: Microsoft Internet Explorer v11, Google Chrome v30, Mozilla Firefox v23 and Safari v5.

Free Download

To try the lite version of DCIM (InfraSuite Device Master), please go to:
http://www.deltapowersolutions.com/en/mcis/data-center-infrasuite-device-master.php