40 CRITICAL PROBLEMS

Your DCIM Should Solve

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How DCIM <u>Helps Resolve</u> data center management issues

From 451-

"A data center infrastructure management (DCIM) system collects and manages information about a data center's assets, resource use and operational status."

DCIM tools that provide this information in a meaningful manner increase Data Center, IT and Facilities Management situational awareness, allows the Data Center Operator to make informed strategic operational decisions, and provides useful information for future investments and planning.

In this eBook, we review the most critical problems faced by data center managers today, and how DCIM solutions provide real-time views of the data center environment, infrastructure assets and their associated power, space, and energy capacity to resolve these issues.

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⚠ Critical Problems

🗒 Asset

- Easily locate assets in your data center from anywhere
- Know all there is to know about your asset
- Identify assets of a specific model type
- Easily identify physical network connectivity between devices
- Dramatically simplify data center audits
- Customize, save and email reports

🕑 Capacity

- Monitor all breaker loads along the power path to maximize uptime
- Easily visualize real time space, power and data port capacity of all racks in your data center
- Improve power capacity planning and uptime
- Instantly know how much cabinet space you really have
- Quickly find available data center capacity to provision new equipment
- Automatically forecast when you are going to run out of power

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⚠ Critical Problems Continued

⟲ Change

- Know the status of your tickets in real-time
- Know the impact change will have on your data center applications
- Understand the downstream impact of a potential change
- Ensure work quality

🔋 Power

- Know power usage by rack/circuit
- Quickly identify power trends and spikes of individual servers
- Get real-time power analytics for your power chain
- Eliminate Ghost Servers and reduce Power Hogs
- Quickly restore service interruptions due to power outages
- Forecast power capacity needs
- Determine new data center power needs
- Identify and prevent potential power problems
- Maximize uptime with failover simulation analysis

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⚠ Critical Problems Continued

💡 Energy
- Monitor the amount of energy used for cooling
- Manage energy costs
- Promote sustainable energy reduction programs
- Drive corporate energy efficiency and sustainability initiatives
- Understand energy usage by customer, application, or other parameter
- Bill organizations based on actual energy usage

💧 Environment
- Easily monitor health of your data center infrastructure with a floormap birds eye view
- Ensure data center infrastructure equipment health
- Proactively identify hot spots and areas of risk for data center uptime
- Ensure real-time alerts and alarms are being addressed
- Improve cooling utilization strategies
- Ensure your servers are operating within the ASHRAE zone
- Monitor and set rack inlet temperatures to save money
- Automate carbon footprint reporting and trending

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