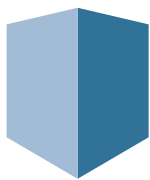


The rise of IoT: the impact of IoT on data centers

Blog Article



PATCH MANAGER
infrastructure management software

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The impact of IoT on data centers

A solution to this exponential growth in IoT could be for data centers to increase capacity 'ad infinitum' to satisfy demand. However, adding new resources and building new data centers are time-consuming and expensive processes, so consideration should first be given to the question of whether the current resources available to a data center are being utilized efficiently. For example, the average Power Usage Effectiveness (PUE) ratio for a data center in 2020 is 1.58, only marginally better than 7 years ago, according to the latest annual [Uptime Institute survey](#). Secondly, if capacity expansion *is* required, how can this be achieved in the most efficient manner. A crucial aspect in the decision-making process for both questions, is being able to have detailed insight into the physical layer assets and connectivity of the data center. In a nutshell, being able to know exactly which assets you have, where they are located, how they are interconnected and what resources they consume.

A solution for increasing data center operations efficiency

A DCIM solution provides a framework for both the effective management of current resources, and for planning future changes. By using the DCIM solution to document and manage their existing infrastructure, data center professionals can make more effective decisions regarding the usage of their data centers, resulting in reduced costs and an infrastructure that is easier to sustain and expand.

For future growth, consider a case where planning needs to be made to determine how many new racks, servers and network devices are needed, along with the type and length of cabling that is required to connect the new assets. While in theory, this could be planned manually or based on custom calculations and excel files, with a dedicated tool, these plans will be easier to create, more accurate, and will provide a means for reporting and auditing. In possession of this insight, organizations can far more simply optimize the projected costs of the expansion.

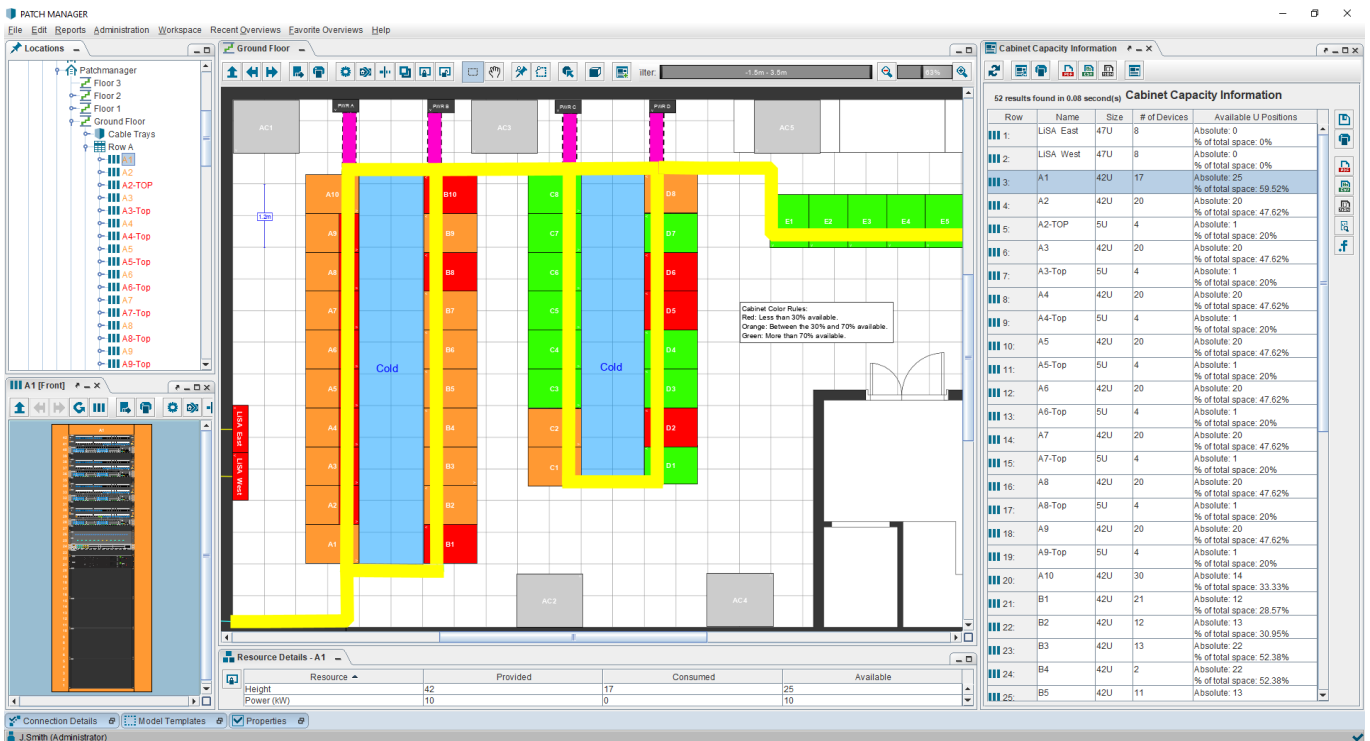


Image 3: PATCH MANAGER reporting: Cabinet Capacity Information

How can PATCH MANAGER help?

PATCH MANAGER is a unique, best-of-breed software solution for planning, managing, and maintaining all aspects of the physical layer in a data center infrastructure. This state-of-the-art product offers data center professionals detailed insight into every asset and cable.

PATCH MANAGER provides you with:

- 2D and 3D visualization, so you can see your entire infrastructure as it is
- Powerful reporting capabilities, so you can get a full picture of available resources
- A complete work order system, so you can plan your changes and infrastructure growth down to the last cable with ease
- Powerful integration capabilities via a comprehensive REST API
- Flexible user access, so your team can work effectively
- And much more...

If you would like to request a personal online demo with one of our consultants, [click here](#).

IoT has also impacted modern office networks. If you are further interested in how PATCH MANAGER can help you make the management of your office building network more efficient, read our previous article, which focuses on [this topic](#).