



HOW DATA-DRIVEN PERFORMANCE MONITORING SUPPORTS IT CAPACITY MANAGEMENT



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INTRODUCTION

Capacity management is a top priority for IT administrators... and for good reason. With all the different factors involved, it's easy to see why managers want to keep a close eye on demand, available resources and the ways in which these are utilized.

IT admins must strike a careful balance, ensuring that they have enough capacity to support the performance of their most critical assets without paying for more than they need.

Capacity management runs the stretch of the IT gamut, and a lack of proper oversight has serious consequences. Inadequate planning and management can result in bottlenecks and unplanned downtime. On the other hand, over-provisioning can create unnecessary increases in technology spend and operating costs.

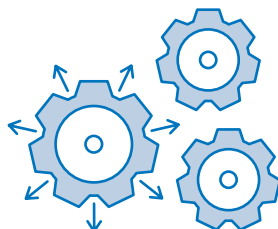
IT admins must strike a careful balance, ensuring that they have enough capacity to support the performance of their most critical assets without paying for more than they need. The ability to achieve this level of proper capacity management requires expert decision-making backed by the historical data-driven insights.

A photograph of three business professionals in an office setting. Two men and one woman are gathered around a laptop, looking at the screen. The woman is pointing at the screen. The background shows office shelves with binders.

Many organizations lack the **comprehensive data visualization** to enable efficient and successful management.

THE FIVE KEY STEPS OF CAPACITY MANAGEMENT

Capacity management is key for operational uptime for day-to-day network activities, but is also integral for future planning and innovation initiatives such as server and data center consolidations, as well as mergers or acquisitions.

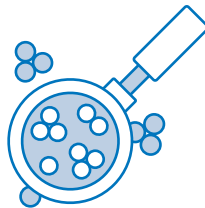


Modern enterprises must be able to proactively manage capacity, ensuring that computing resources and support are in place for current and predictive demand. However, many organizations lack the comprehensive data visualization into their most key infrastructure systems (including servers, storage, systems, SAN, database and cloud environments) to enable efficient and successful management.

Follow these five key steps for capacity management and planning efforts to ensure operational excellence.

STEP 1: Defining Critical Assets

To start, IT teams must identify and define the hosts, servers and other connected systems that will be analyzed for capacity management.



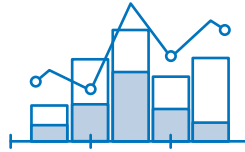
An infrastructure performance monitoring solution is a considerable advantage, offering an in-depth view into environment assets both on-prem and in the cloud. A proactive solution, like Galileo Performance Explorer, simplifies this process by enabling users to digitally tag and group specific IT assets, offering a holistic view of the capacity and performance levels being considered for planning and management.

With Galileo's [Tag Manager](#), administrators can classify assets according to specific search queries and customize the ways in which they view capacity levels across the infrastructure to reduce complexity and streamline decision-making.

Galileo Performance Explorer enables users to **digitally tag and group** specific IT assets.

STEP 2: Leveraging Baseline Data and Trends

In order to make accurate decisions about capacity needs, stakeholders require an in-depth understanding of current demands and how resources are leveraged across the infrastructure.



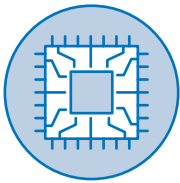
This can easily be achieved by analyzing baseline infrastructure data during a specific timeline.

A performance monitoring tool that captures and stores deep, historical data is essential. Decision-makers can select a timeline to use as a foundational baseline, taking into account time-related deviations, enabling proactive management, and ensuring that adequate support is in place to account for spikes in demand and other usage patterns.

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STEP 3: Determining Key Indicators

Many organizations struggle with capacity and performance as it relates to innovation initiatives. In order to accurately plan and budget, IT teams require access to critical system data including:



CPU



Memory



Network usage



Disk usage

Without in-depth data visualization for each key system, stakeholders will likely falter in their efforts to proactively manage availability and excess.

Galileo Performance Explorer, a data-driven infrastructure monitoring solution, can offer crucial insights into the performance of all environmental assets. With dynamic tagging functionality, this information can be displayed according to user preferences and aligned with organization-specific business entities and initiatives.

Galileo Performance Explorer, can offer **crucial insights** into the performance of all environmental assets.



When more precise insight is necessary, users can increase the baseline data collected by up to **25%** to get a sense of future growth.

STEP 4: Defining Growth Projection

After defining assets, assessing baseline data and obtaining information about key system indicators, IT teams should project the growth in capacity needs that their infrastructure will see in the future.



This enables predictive capacity planning and assurance that resources are in place for current usage levels and as demands grow.

Defining this growth projection requires examination of business plans and IT transformation initiatives, such as artificial intelligence and high performance computing. When more precise insight is necessary, users can increase the baseline data collected by up to 25% to get a sense of future growth. Increasing this single year result by an additional 15% will provide a growth projection for the next three to five years.

STEP 5: Supporting Capacity Solution Recommendations



By centering capacity considerations around specific systems, viewing baseline data and other KPIs and projecting future growth, stakeholders have the details necessary to make the most accurate and strategic decisions about their unique infrastructure needs.

Because these recommendations are based on a comprehensive assessment of key infrastructure systems, decision-makers can have confidence in their ability to effectively plan for and manage capacity needs while supporting cost efficiency and top-notch performance.

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ENSURE OPERATIONAL EXCELLENCE WITH DATA-DRIVEN PERFORMANCE MONITORING

One of the biggest obstacles standing in the way of successful capacity management is a lack of comprehensive insight into the necessary infrastructure data.



Without access to this critical information, IT teams are simply guessing. Historical insights, usage trends, tagging capabilities and customizable data visualization are the keys to confident decisions.

Thankfully, overcoming this challenge is simple with an advanced IT capacity and performance management solutions from the ATS Group and Galileo Performance Explorer. This essential platform provides the data and in-depth visibility IT admins and managers need to optimize assets, effectively plan and ensure success.

To find out more about how ATS and Galileo can support capacity and performance for your organization's growth and innovation, *connect with us for a demonstration and free 30-day trial.*



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