

# Galileo for Server Consolidation

Ensuring the most efficient use capacity and available computing power is crucial within any on-premise data center or system of servers. Underutilization and unbalanced workloads are a common, yet often operationally invisible issue that can result in high utility and IT costs – not to mention significant system complexity that can lead to performance difficulties.

IT admins and executives must seek out opportunities to better balance their workloads and consolidate their server resources. This requires key insights and historical and trending data about server environments that is only accessible through an infrastructure performance monitoring tool such as Galileo Performance Explorer.

*“IT stakeholders should leverage Galileo to provide a complete picture of the current IT environment.”*

## What to consider ahead of consolidation

Before migrating workloads in an effort to consolidate servers, project teams must have a full understanding of:

- Where and how workloads are currently supported
- How much capacity is available on individual machine environments
- Trending data pertaining to current usage
- Any potential performance issues that might lead to problems like downtime

## Steps for successful server consolidation

Leveraging an industry-leading IPM tool like Galileo Performance Explorer enables IT teams and project stakeholders to use a straightforward and transparent approach to their server consolidation initiative:

- **Monitor the current environment:** Ahead of shifting workloads, decision-makers and IT stakeholders should leverage Galileo to provide a complete picture of the current IT environment, including available capacity and performance.
- **Virtually group and analyze servers:** The IT team should then use Galileo’s intuitive Tag Manager feature to virtually group together specific servers and analyze their workloads as an entity.
- **Create a project timeline according to key analysis:** Using the data and metrics provided in Galileo’s user-friendly dashboards, stakeholders create a timeframe for server consolidation. This timeframe takes into account seasonal and peak business cycles, ensuring the organization has the capacity it requires to meet needs during their busiest periods.
- **Establish a baseline:** Leveraging the historical server environment data provided by Galileo, stakeholders establish a baseline for

performance, including the required CPU, memory usage, disk space, and network and adapter performance.

- **Forecast workload growth:** Galileo’s trending functionality enables administrators to glean the best understanding of future workload growth, including the factors that drive these needs, and incorporate scalability into their consolidation plans.
- **Consider the “what if scenarios”:** Users can also see how specific future workloads will impact the virtually grouped servers and how to best accommodate emerging needs.
- **Create and execute your consolidation:** Using all of the data and metrics gathered during this process, IT teams can create the best plan for server consolidation that takes into account cyclical and future business needs. Such a plan can provide key results like operational costs savings, reduced utility needs and robust support for critical workloads.

**To find out more about streamlining and ensuring support during your next server consolidation initiative, connect with the experts at Galileo Performance Explorer today.**