Open iT® SystemAnalyzer™

- Provides a centralized overview of usage patterns for system resources
- Reduces software costs by cutting surplus licenses
- Supports business process improvements by documenting best practices
- Allows for accurate and flexible IT budgeting and chargeback
- Enables performance maximization for system resources

Open iT® SystemAnalyzer™ is an essential tool for those who require better control of their software and hardware system resources.

With SystemAnalyzer, find resources that are not in use or under-utilized, harvest unused licenses, reduce liability risk by documenting what is installed and what is in use, and document shortages and justify new purchases. It supports accurate and flexible chargeback to internal or external business units and lowers audit reporting and budgeting costs. It also reduces the overall cost of managing assets.

With Open iT, efforts in business process improvements can be supported. Develop best practices and streamline corporate operations by documenting how IT is being used successfully in projects or departments.

How SystemAnalyzer works

SystemAnalyzer measures CPU, memory and I/O usage for all applications, users, and hosts. It is a client/server-based software that captures application usage and inventory for PC’s and workstations. Data is collected by clients and then transferred, processed and stored in a data warehouse on the Open iT server. The server can be accessed through a web browser, and usage and inventory reports can easily be generated by anyone with access to server.

Benefits

- Align IT resources with business needs
- Ensure document compliance
- Improve capacity and performance planning
- Document best practices to support business process improvements
- Be more prepared for vendor negotiations
- Measure and demonstrate ROI of IT investments
- Monitor technology uptake within the organization and uncover training needs
- Identify bottlenecks and inefficient usage patterns
- Enable chargeback
- Use objective reports that facilitate communication between business units
- Include reports for C-level and IT managers

Get the real facts on how system resources are being used. Watch trends, discover bottlenecks and easily assign cost of resource usage to user groups, projects, business units or even global sites.
Sample SystemAnalyzer reports

Flexible, detailed reports

Open IT Software offers two flexible reporting servers.

**Reporting Server** is a reporting tool with proprietary database that gives users the ability to make reports based from the data that has been collected and included in a real-time of license usage.

**Analysis Server** is an SQL-based reporting tool that enables users to make reports based from the data that has been collected. It includes a web interface called Reporting Services that enables users to create customizable report templates. It also includes a real-time view, an alert system of license usage, a powerful profile and excel-based dashboards.

Based on extensive customer feedback and over a decade of experience, each Open iT module comes with a standard set of reports. With customizable templates, completely new reports can be easily built based on specific needs. Reports can be generated on a scheduled basis or created on demand. Each scheduled report can be customized to determine availability, frequency, resolution and data coverage.

Choose from pie charts, line plots or tables for report formats and change the format on the fly for easy data analysis.

With a single click, reports can be viewed in Microsoft® Excel™ for further work and may be shared with internal and external resources, such as for chargeback invoicing, for instance.

Open IT Software supports Unix and Windows platforms.

*Analysis Server is only available for Windows.*
**SystemAnalyzer™ GRID Extension**

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**Open iT® SystemAnalyzer™ GRID**

offers plugins and connectors for metering of distributed computer environments such as:
- LSF
- PBS Professional
- Open PBS
- Sun Grid Engine
- TORQUE

A queueing system's performance may vary depending on user input, configuration or system errors. SystemAnalyzer Grid Extension tracks issues such as wait time versus throughput for the different queues/users/projects, track failed jobs over time, requested commands or resources, as well as reasons for jobs being held back in the queue (“pending reason”). It provides an immediate overview of the performance and utilization of the HPC environment.

Some of the reports that may be generated are particularly interesting when combined with other sources of data. It allows for better utilization and performance management of these systems by showing how much of the jobs were run outside of the queuing system, what are the major performance bottlenecks, etc.

**Pending Reason**

More interesting than the sheer number of hours a job has been waiting, is the ability to find out exactly why the job is pending. Drill into this information and perform advanced analysis on these data with SystemAnalyzer GRID Extension. Some of the measurements available for analysis are:
- Reason that the job was pending
- Requested resources, describing which resources the pending job required
- Number of hosts for which a given pending reason was valid
- Number of pending reasons in report interval
- Elapsed time for selected pending reasons
- Project, User, Queue, Command, etc. of the pending jobs

**Tight Security**

An advanced access control mechanism allows secure access to sensitive data throughout all levels of the organization.

**Data Masking**

On-the-fly data masking ensures that only users with correct permissions are allowed to see sensitive data such as usernames, machine names, etc.

**Data Level Access Control**

The ability to limit access to data based on geographical or organizational position, for instance, allows for global usage reporting while still ensuring that regional managers have access only to data for their respective sites. Data from other sites are masked.

**Chargeback**

Open iT SystemAnalyzer GRID Extension enables chargeback accounting for the use of IT resources. Chargeback can be done for several resources, such as a cost factor by CPU seconds (usually CPU speed dependent), but other factors may also be brought into account, such as memory size and bandwidth. If SystemAnalyzer GRID Extension is combined with Open iT Analysis Server, the chargeback mechanisms are virtually unlimited.

This graph shows the wait-time (Time in queue) compared to the throughput (CPU time) of the queuing system. Note the long wait time in the “promax” queue compared to the throughput (compared to e.g. “idle”). All these are important statistics when evaluating the performance and configuration of the queueing system.
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