

IntelliMagic

Storage Intelligence



IntelliMagic Vision for z/OS Tape

Proactively manage virtual and physical tape environments

IntelliMagic Vision for Tape proactively identifies risks in your z/OS tape environment, and highlights potential issues even before they have fully developed. With its intelligent analysis and threshold-based exception reporting you can avoid tape performance problems, make wise tape hardware investments and optimize tape usage. IntelliMagic Vision for Tape can be used in z/OS tape environments with virtual tape libraries – including disk-only virtual tape – and with traditional physical tape libraries.

Tape remains important for large enterprises. With tape virtualization, tape storage became easier and more economical. At the same time, virtualization and parallelism make it more difficult to detect potential issues and to understand which changes or hardware upgrades are the best choices. With tape libraries being shared across multiple z/OS images, the full picture can only be obtained by aggregating workload and tape hardware information from all z/OS LPARs. IntelliMagic Vision automatically aggregates and analyzes the available data, applies thresholds, and creates daily reports and dashboards that highlight issues.

Virtual tape library solutions provide measurement statistics of their internal hardware component usage. IntelliMagic Vision uses these additional metrics to give unique insight in the internal workings of the virtual tape system, showing cache effectiveness, replication status and replication health, and physical tape use. Insight in the virtual tape system internals allows you to prevent throughput bottlenecks.

IntelliMagic Vision ensures that upgrade decisions for your virtual tape libraries are well-founded. It gives you the full tape library view from the hardware, in

addition to the workload perspective such as job and dataset name. You can determine if you need to add nodes or channels, whether the replication links can handle the load, whether you need more tape drives or robot arms to handle the mounts, or whether eliminating tape mounts through workload optimization is the best solution.

IntelliMagic Vision's graphical user interface provides dashboards, charts and tables, and allows you to do interactive analysis, for instance by zooming in to a particular period or by selecting only a specific subset of the workload. All data is kept in a database for historical trending. There is no easier solution than IntelliMagic Vision to proactively manage your tape environment.

Use IntelliMagic Vision for z/OS Tape to:

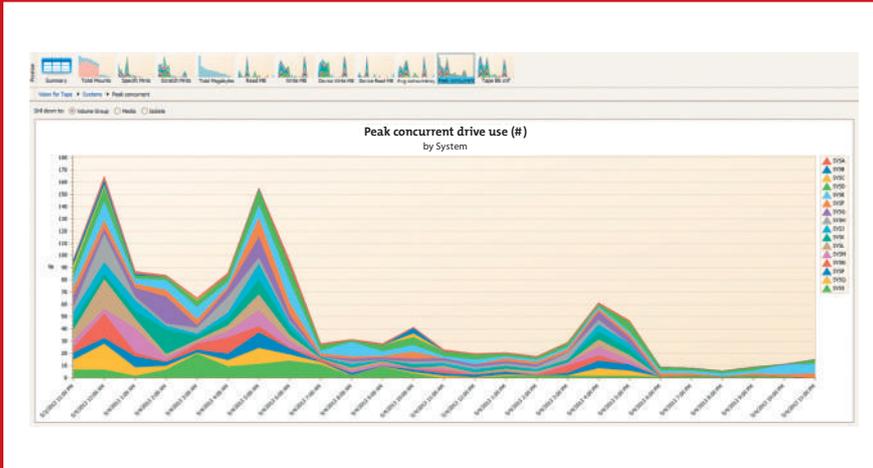
- ▶ Tune and plan your tape and virtual tape environment
- ▶ See whether your replication window is met
- ▶ Identify inefficient use of virtual and real tape
- ▶ Track tape usage over time
- ▶ Show which workloads are top resource users
- ▶ Monitor back-end tape usage
- ▶ Analyze tape performance trends
- ▶ Identify reclaim needs

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◀ The batch period shows there is a potential to decrease virtual drive licensing cost.

▶ Tape Workload Monitoring

With IntelliMagic Vision you can see your tape workloads change over time. It builds a database containing up to years of tape statistics, allowing you to see trends, do comparisons and see workload growth and peaks.

You can create your own workload grouping definitions to detect how each workload type stresses your tape environment. You can create these workload definitions to distinguish between applications, groups of devices, job types, or any type of grouping that you desire.

▶ Batch Window Tuning

IntelliMagic Vision allows you to see which workloads are running concurrently and to gauge how rescheduling will affect the overall performance in your tape environment. In many cases, batch jobs using tape do not need to run at a particular time, while recalls from HSM or ADSM are time critical.

With the information produced by IntelliMagic Vision, you will know which workloads can be moved around. This way, you can make sure that there is minimal tape activity from other workloads during peak recall periods. This will maximize tape drive availability for the high priority jobs, and it will optimize the

replication as peaks that might trigger bandwidth constraints are eliminated.

▶ Supported Environments

IntelliMagic Vision supports native and virtual z/OS-attached tape from all vendors: IBM TS7720, IBM TS7740, EMC DLM, Oracle StorageTek VSM, IBM VTF Mainframe, and all IBM and Oracle StorageTek physical tape solutions.

All major tape catalogs are supported: CA1, RMM, TLMS, Control-T, and Zara.

The Virtual Tape library statistics are supported for IBM TS7720, IBM TS7740 virtual tape libraries using BVIR activity records and Oracle StorageTek VSM virtual tape library.

▶ About IntelliMagic

IntelliMagic solutions create visibility into hidden risks in critical IT infrastructure resources. Some of the world's largest corporations rely daily on IntelliMagic to proactively identify issues that endanger the availability of their enterprise storage and systems. IntelliMagic enables companies to maintain more efficient configurations with lower risk and better performance.