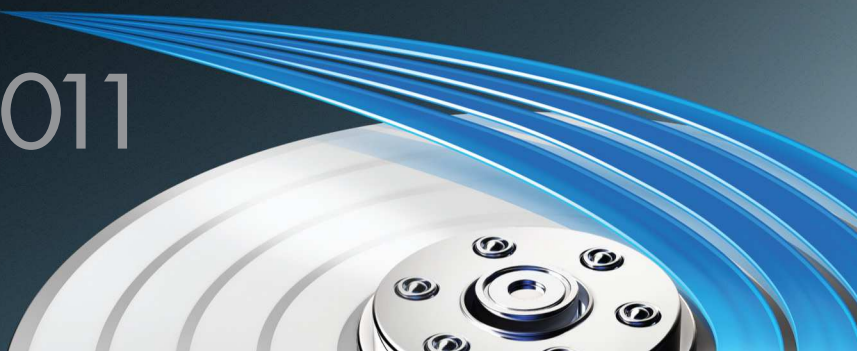
Diskeeper® 2011

Optimum system performance. Always.™



Sole Source Justification

With numerous unique and vital features that clearly distinguish the software, Diskeeper® 2011 data performance software is both the market and technological leader in the field of disk defragmentation, and has been for over 25 years. No other solution offers the performance benefit for business and government computer sites.

Diskeeper is the sole source of the following defragmentation technologies vital to peak system performance for modern Microsoft® Windows® operating systems:

- **The only way to prevent fragmentation before it happens.** Using a ground-breaking innovation named IntelliWrite® technology, which intelligently writes files to the disk, Diskeeper 2011 prevents up to 85% of all disk fragmentation from occurring, dramatically improving system performance. All of this occurs without any impact on system resources. By preventing fragmentation, Diskeeper 2011 provides additional performance improvements on top of its industry-leading defragmentation. The results of proactively solving fragmentation are:
  - Peak system performance – every minute, every day
  - Faster file read and writes – any time, all the time
  - Zero impact on system resources
  - Minimized/eliminated data replication traffic and storage requirements caused by technologies which monitor block level changes (such as Snapshots)
  - Extended hardware life
  - Reduced energy costs – even more than after-the-fact defrag provides
  - Faster return on investment (ROI)

No other solution on the market proactively prevents fragmentation.

- Eliminates remaining not-prevented fragmentation instantly. New **Instant Defrag™ engines in Diskeeper 2011 immediately remove performance-impacting fragmentation** within moments of it occurring. Users will never access fragmented data again. Instant Defrag is the fastest and most efficient method to eliminate existing fragmentation.
  - Fast: with IntelliWrite preventing most fragmentation, IntelliWrite is also aware of what it doesn't prevent and passes these files to the Instant Defrag engine. Usually within seconds, Instant Defrag is cleaning up any fragmentation it has been instructed to do by IntelliWrite.
  - Efficient: by handling just the files that are fragmenting, resource- and time-consuming volume-wide analysis processes are unnecessary.

This on-the-fly approach is the only way to handle massive volumes found in large Datacenter and SAN storage environments.

- Powered by **InvisiTasking®** technology, Diskeeper uses the industry's most advanced algorithms to efficiently solve file fragmentation (the small remaining percentage that is not prevented with IntelliWrite) and consolidates free space to achieve maximum performance gains.
  - **InvisiTasking enables all Diskeeper background defragmentation and optimization routines to run invisibly with absolutely no intrusion on active system resources.** As CPU and I/O resources are almost never fully utilized, the transparency of InvisiTasking is achieved by undetectably tapping into these unused system resources. Using a proprietary technique, InvisiTasking is aware of resource consumption on a Windows computer system and injects Diskeeper processing into the unused portions – and only the unused portions. InvisiTasking takes a proactive approach to instantly detect resource usage and network traffic, while carefully managing memory usage and maintaining complete granular control over its own I/O, ensuring that Diskeeper never pre-empts users or services. InvisiTasking is so good that it is all but impossible to even detect whether Diskeeper is running. Diskeeper with InvisiTasking runs invisibly, defragmenting and enhancing file system performance on the fly, only when needed.

- Choice of two operational modes: Efficient and Extensive. Exclusive to Diskeeper 2011, **Efficient Mode offers the greatest net gain in system I/O resource savings available on the market**. Efficient Mode is aware of file usage and fragmentation rates. Using this advanced knowledge, it prioritizes the fragmentation that affects system performance, minimizing the amount of defragmentation effort required to maintain peak system performance.
- The **Titan Defrag Engine**,™ which runs on volumes of 60GB or greater, is the only solution capable of handling volumes of many terabytes and millions of files. Other solutions take days, if they can function at all, to defragment volumes of a few terabytes, where Titan Defrag Engine takes only hours. Exclusive to Diskeeper EnterpriseServer, the Titan Defrag Engine is the only technology that can defragment volumes of 10-20+ terabytes.
- Diskeeper Pro Premier, Server, and EnterpriseServer editions includes the specially designed **Terabyte Volume Engine**® (TVE), specifically engineered to defragment huge volumes with hundreds of thousands of files in less time.
- **I-FAAST**® (Intelligent File Access Acceleration Sequencing Technology) improves file access and creation up to 80% (average 10%-20%) beyond defragmentation, by optimizing placement of your most important data.

- **Integration with Microsoft's System Center Operations Manager** (SCOM). Only Diskeeper supports configuration, alerts and reporting, via a Diskeeper Management Pack, with this Microsoft systems management platform.
- **Disk Performance Analyzer for Networks**® performance analysis technology. Our agent-less performance analysis technology is tightly integrated with Diskeeper 2011 Administrator. Now you can get real-time performance metrics (even on machines not running Diskeeper) with high-level visual graphs and detailed fragmentation data on demand or emailed automatically.
- **IPv6 networks support.** Only Diskeeper provides full product functionality and management support in native IPv6 networks.
- **Performance Map** gives a quick "at-a-glance" indication of file access performance for each volume.
- Diskeeper 2011 provides **Enhanced Analysis Reports**, easily accessed in quick tabs that graphically display performance gains achieved with defragmentation. Diskeeper also evaluates the condition of your disk against documented factors known to affect reliability and stability. Different reports include: Fragmentation Analysis, Performance Analysis and Reliability Analysis.
- Diskeeper Administrator Edition offers **fully automated network defragmentation** management. Administrators can set policies and "bind" them to groups (such as an OU in Active Directory). Computers added in to the group (OU) have your Diskeeper settings automatically applied.

Diskeeper Firsts:

- Diskeeper Corporation invented automatic, on-line defragmentation and also developed the first fragmentation prevention technology.
- Diskeeper Corporation developers co-wrote (with Microsoft) the original defragmentation APIs (Application Programming Interfaces) or "hooks" through which all defragmenters access Windows NT. Every bit of our experience with Windows NT has been built into Diskeeper.
- Diskeeper was the first defragmenter to defragment all Windows platforms – Windows 7,® Vista,® XP, ME, 98, Windows NT,® Windows Server® 2008, 2003, and 2000.
- Centralized Administration. System administrators can analyze fragmentation, schedule defragmentation, receive and view reports, or defragment directly, over a network, right from their desktops.

Additionally, Diskeeper Corporation has more experience in mission-critical government environments than any other defragmentation developer – over 25 years. Diskeeper for OpenVMS has been the market leader in the Hewlett-Packard OpenVMS operating system since 1986, and was the first in that market, as it was in the Windows NT market, with an automatic, on-line defragmenter.

Only with new Diskeeper 2011 for Windows are you getting real-time peak performance, invisible operation, and the widest array of valuable features ever available.

Diskeeper corporation

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